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# ASTM PHASE II – ENVIRONMENTAL SITE ASSESSMENT

## 350 Mariano Bishop Blvd.
## Fall River, MA 02721

**Submitted to:**
**Mr. Ron Golub**
**The Stonewood Companies, Inc.**
**1105 Massachusetts Ave Suite #2F**
**Cambridge, MA 02138**

**Prepared by:**
**Geological Field Services, Inc.**
**14 Hubon Street**
**Salem, MA 01970**

**June 21, 2023**

GFS GEOLOGICAL FIELD SERVICES, INC.

June 13, 2023

The Stonewood Companies, Inc.
Mr. Ron Golub
1105 Massachusetts Ave., Suite #2F
Cambridge, MA 02138

RE: 350 Mariano Bishop Blvd.
Fall River, MA 01970

Dear Mr. Golub:

Geological Field Services, Inc. (GFS) has conducted an ASTM Phase II Environmental Investigation (Phase II) at the above referenced property (Figure 1 and 2). The purpose of the Phase II was to evaluate the "Recognized Environmental Conditions" (RECs) identified in the ASTM Phase I Environmental Site Assessments (Phase I) prepared for Town Fair Tire Centers, Inc. by Vanasse Hangen Brustlin, Inc. (VHB) of Middletown, Connecticut in April 2002, and the conclusions of a Limited Phase II Environmental Site Assessment conducted by VHB in June of 2002, and to determine if a reportable release of oil and/or hazardous materials were present in accordance with the Massachusetts Contingency Plan (MCP).

The Phase I identified that the property was part of the Tucker Street Dump and/or the Fall River Demolition Landfill. The Tucker Street Dump operated between 1900 and 1964 and the Fall River Demolition Landfill was closed in 1968. Neither facility was lined or capped. The Phase II investigation determined that the property was filled with rubber waste and that there was a release of petroleum hydrocarbons. The release of petroleum did not trigger a reporting condition at that time, however VHB concluded that their investigation was limited.

This Phase II included a limited subsurface investigation to collect soil and ground water samples for laboratory analysis. Site work included six soil borings, five ground water monitoring wells and nine test pits. All work was conducted in accordance with general accepted industry practices and with MADEP publication "Standard References for Monitoring Wells." The investigation determined that the top six to 12-feet of subgrade consists primarily of solid waste in the form of scrap rubber, foam and metal. Some soil and other forms of solid waste are mixed in. Soil samples were analyzed for extractable petroleum hydrocarbons (EPH), volatile organic compounds (VOCs), MCP-14 metals, polychlorinated biphenyls (PCBs) and asbestos. Ground water samples were analyzed for EPH, VOCs and MCP-14 metals. Reportable concentrations of C19-C36 aliphatic hydrocarbons, arsenic, lead and zinc were detected in soil samples. Asbestos was detected in two samples. Asbestos is regulated by the Massachusetts Department of Environmental Protection (MADEP) under the Air Quality Program Contingency Plan. No reportable release(s) of OHM were detected in ground water.

If the property is acquired, the releases of OHM to soil require reporting to MADEP within 120-days of closing. In general, the releases of metals and EPH would be relatively easy to manage and may not require a Activity and Use Limitations (AUL) to close the release(s) with a

Permanent Solution under the MCP. However, the presence of asbestos and the volume of solid waste create issues that are regulated by the Bureau of Air and Waste which are outside of the Bureau of Waste Site Cleanup. Because asbestos is present in the solid waste, all subsurface work will have to be implemented under a Non-Traditional Workplan approved of by MADEP. The workplan will include significant additional sampling before starting any subsurface work, constant air monitoring during work, reporting to MADEP and a completion statement. Then under the MCP an AUL will be required to control future use where asbestos is present in the sub-surface. Because the upper ten feet of the subsurface is primarily solid waste an assessment of landfill gasses will be necessary before starting subsurface work and all buildings will require a sub-slab venting system.

GFS recommends conducting landfill gas survey for methane, carbon dioxide, VOCs, and hydrogen sulfide. The survey would consist of installing 10-15 soil gas probes and then measuring the gas concentrations in each probe. GFS also recommends consulting with an asbestos abatement company to determine the cost of preparing a Non-Traditional work plan and for conducting construction monitoring.

**EDR Radius Map Report**

To evaluate the potential landfilling of the property, the Environmental Data Resources, Inc Radius Map Report was ordered.  and is presented in appendix A. Included in EDR's report are aerial photographs of the property every decade since the 1930's and all of the available USGS topographic maps. Landfilling is visible on photographs up until the 1960's. The first building is present on the 1975 photograph and both are present on the 1995 photograph. The topographic maps show that wetlands existed just west of the property. the EDR Radius Map Report is presented in Appendix A.

**Soil Borings and Test Pits**

On June 3, 2023, GFS advanced six soil borings as part of the ASTM Phase II. The drilling contractor was New England Geotech, of Jamestown, Rhode Island. Soil borings were advanced to a depth of ten-five feet below grade using a truck mounted GeoProbe equipped with a five-foot macro sampler. A Google Earth map is attached as Figure 1 and boring locations are shown on Figures 3 and 4.

The drill rig was manned with a driller and a driller's helper with all the activities performed under the supervision of a field geologist. On-site personnel were experienced professionals who held current OSHA site worker certifications. All activities associated with drilling were performed using Level D personnel protection. All drilling equipment was decontaminated prior to introduction to the subsurface and between each boring.

Also on June 3, 2023, Geotechnical Consultants, Inc. (GCI) excavated 9 test pits distributed across the property. The test pit locations shown on Figure 4, which includes a proposed building layout. Test pits were logged by GCI.

**Soil Sampling and Results**

Soil samples were screened for the presence of volatile organic compounds (VOCs) in accordance with standard headspace screening procedures. Head space screening was conducted using a Mini RAE Lite PID equipped with a 10.6ev lamp and calibrated with 100 ppm isobutylene with a response factor of one. Low level headspace values were observed in most of the soil samples collected onsite ranging from 0.2 pm GFS-2 0-5 feet to 12 ppm GFS-5 5-10 feet. Elevated headspace readings were mainly confined to the fill layer and at the observed water table. Soil headspace screening data are presented on boring logs in Appendix **A**.

Nineteen soil samples from the six soil borings were field classified and headspace screened. Fourteen soil samples were collected from zero to five feet below grade to evaluate the shallow soil for releases of oil and/or hazardous materials from the past use as an auto repair shop machine shop and other and industrial activities. The soil samples were submitted for laboratory analyses of extractable petroleum hydrocarbons (EPH), MCP 14 metals, polychlorinated biphenyl's (PCBs) and VOCs. All samples for laboratory analysis were submitted under standard chain of custody protocol to New England Testing Laboratories. The laboratory certificates-of-analysis is attached in Appendix C. A summary of detected compounds and the soil RC S-1 and S-2 limits are presented on Table 1.

EPH caron chains and target compounds are detected in all soil samples. Most of the detections are below the applicable RC S-1 reporting limits. The C19-36 aliphatic hydrocarbon chain was detected above its RC S-1 limit of 5,000 mg/Kg in GFS-5 (5,180 mg/Kg) and 2-methylnaphthalene was detected above its RC S-1 limit of 0.7 mg/Kg in GFS-2 91.08 mg/Kg).

Nine of the MCP-14 metal were detected. Again most detections are below the applicable RC S-1 reporting limits. Arsenic was detected above its RC S-1 limit of 20 mg/Kg in GFS-4 (20.4 mg/Kg). Lead above its RC S-1 limit of 200 mg/Kg in GFS-4 (640 mg/Kg) and TP-1 (345 mg/Kg). Zinc was detected in six samples above its RC S-1 limit of 1,000 mg/Kg. Zinc range from 1,210 mg/Kg in GFS-2 to 4,000 mg/Kg in TP-6.

Asbestos, in the form of chrysotile, was present in samples GFS-4 and GFS-5. VOCs were detected in GFS-2, GFS-4, GFS-5 and TP-6. All detected compounds were below the applicable RC S-1 limits and no chlorinated solvents were detected. PCBs were detected in GFS-4 (.314 mg/Kg), TP-6 (.432mg/Kg) and TP-9 (.135 mg/Kg) below its RC S-1 limit of 1 mg/Kg.

Based on these data, zinc, lead, arsenic and EPH compounds are trigger the 120-Day reporting period under the MCP. Asbestos is regulated under the Air Program and does not have a reporting standard under the MCP. If the subsurface is disturbed the work space would require testing and sir monitoring in accordance with those regulations and would require an AUL if asbestos if left in place after construction.

**Overburden Stratigraphy and Hydrogeology**
The shallow overburden encountered during drilling consisted of an asphalt veneer with gravel road base, underlain with a black to gray fine sand with rubber, tires metal scraps and foam fill, underlain by a well sorted medium to fine sand and some peat. The fill layer ranged in thickness from six feet (GFS-4) to 12 feet below grade (GFS-1, 2, 3 and 5). Below the fill layer was a very fine to fine gray black, sand with some organic material and peat. Refusal and or bedrock was not encountered in any of the borings.

Depth to ground water was measured in the newly installed wells between 5.12 (GFS-3) and 7.00 (GFS-4) feet below grade. Ground water flow is assumed to be the west toward the Mt Hope Bay and Cook Pond.

**Monitoring Well Installation**
Ground water wells were installed in soil borings GFS-1, GFS-2, GFS-3, GFS-4 and GFS-5. All wells were set at 15 feet below grade except for GFS-1 which was set at 20 feet below grade. All wells were constructed with 10 feet of two-inch diameter, 0.01 slot, PVC screen and solid PVC riser. The well screen was packed in #2 washed silica sand to one foot above the screened interval, a six-inch-thick bentonite seal was installed above the sand pack and the well was completed at grade with a flush mount road box and cement surface seal. The as-built diagrams are attached in Appendix B.

Following installation each monitoring well was developed to remove fines and improve communication with the aquifer. The monitoring wells were developed by first surging the screened interval with a with a surge block to loosen fines, then the well water was pumped with a Whale pump to remove the accumulated fines and water. The process was repeated until the turbidity in the ground water recharge was significantly reduced. Approximately 40-60 gallons were removed from each well during the well development process. Field measurements were not recorded during well development.

**Ground Water Sampling and Results**
On June 5, 2023, ground water sample were collected from monitoring wells GFS-1, GFS-2, GFS-3, GFS-4 and GFS-5. The ground water wells were sampled in accordance with EPA low stress sampling protocol. Prior to purging, the ground water level and total depth of the monitoring well were measured to the nearest 0.01-foot using an electronic water level sensing device. The recorded measurements were used to calculate the volume of standing water in the well. All wells were examined for the presence of light non-aqueous phase liquid (LNAPL) and dense non-aqueous phase liquids (DNAPL) by observing the condition of the water level indicator when it was withdrawn from the well. No evidence of LNAPL and/or DNAPL was observed. All wells were sampled with dedicated ¼-inch HDPE tubing with the sample intake set at two-feet off the bottom of the well in the screened interval.

The monitoring well was then purged using a Geotech peristaltic pump and the dedicated HDPE tubing. The Geotech pump was started at the lowest setting and well drawdown was measured, the pump speed was increased, and the drawdown was measured. Efforts were made to minimize the drawdown on the well. Field parameters were measured using a YSI model 556-

meter. Turbidity was measured using an Apera TN400 turbidity meter. All field equipment was calibrated at the start of the day. Field parameters were measured when water started to discharge from the flow through cell and at five-minute intervals thereafter. Wells were purged until the field parameters stabilized at that time the flow through cell was disconnected and the sample water was pumped directly into the sample containers. Samples collected for MCP 14 metals were field filtered through single use 0.45-micron capsule filters. Copies of the ground water field sampling sheets are presented in Appendix D.

The ground water samples were submitted for laboratory analyses of dissolved MCP-14 metals, EPH, and VOCs. Laboratory certificates-of-analysis are attached in Appendix C. A summary of detected compounds and the soil RC GW-2 limits are presented on Table 2.

Monitoring well GFS-3 was the only sample with detected EPH compounds above method detection limits and all detected compounds were significantly below the applicable RC GW-2 limit. Barium was detected in all ground water samples at concentrations consistent with natural background and significantly below the applicable RC GW-2 limit. Vanadium was detected in GFS-1 and GFS-3 at concentrations of 0.009mg/L and 0.006 mg/L, significantly below the applicable RC GW-2 limits. Low levels of VOC were detected in monitoring wells GFS-1 and GFS-2. All detected compounds were significantly below the applicable RC GW-2 limits. Based on these data, there were no reporting conditions trigger for ground water under the MCP.

**Conclusions**

This Phase II included a limited subsurface investigation to collect soil and ground water samples for laboratory analysis. Site work included six soil borings, five ground water monitoring wells and nine test pits. All work was conducted in accordance with general accepted industry practices and with MADEP publication “Standard References for Monitoring Wells.” The investigation determined that the top six to 12-feet of subgrade consists primarily of solid waste in the form of scrap rubber, foam and metal. Some soil and other forms of solid waste are mixed in. Soil samples were analyzed for EPH, VOCs, MCP-14 metals, polychlorinated biphenyls (PCBs) and asbestos. Ground water samples were analyzed for EPH, VOCs and MCP-14 metals. Reportable concentrations of C19-C36 aliphatic hydrocarbons, arsenic, lead and zinc were detected in soil samples. Asbestos was detected in two samples. Asbestos is regulated by the Massachusetts Department of Environmental Protection (MADEP) under the Air Quality Program Contingency Plan. No reportable release(s) of OHM were detected in ground water.

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to control future use where asbestos is present in the sub-surface. Because the upper ten feet of the subsurface is primarily solid waste an assessment of landfill gasses will be necessary before starting subsurface work and all buildings will require a sub-slab venting system.

GFS recommends conducting landfill gas survey for methane, carbon dioxide, VOCs, and hydrogen sulfide. The survey would consist of installing 10-15 soil gas probes and then measuring the gas concentrations in each probe. GFS also recommends consulting with an asbestos abatement company to determine the cost of preparing a Non-Traditional work plan and for conducting construction monitoring.

Please let me know if you have any questions.

Sincerely,
GEOLOGICAL FIELD SERVICES, INC.

Luke Fabbri
President, LSP 9988

# FIGURES

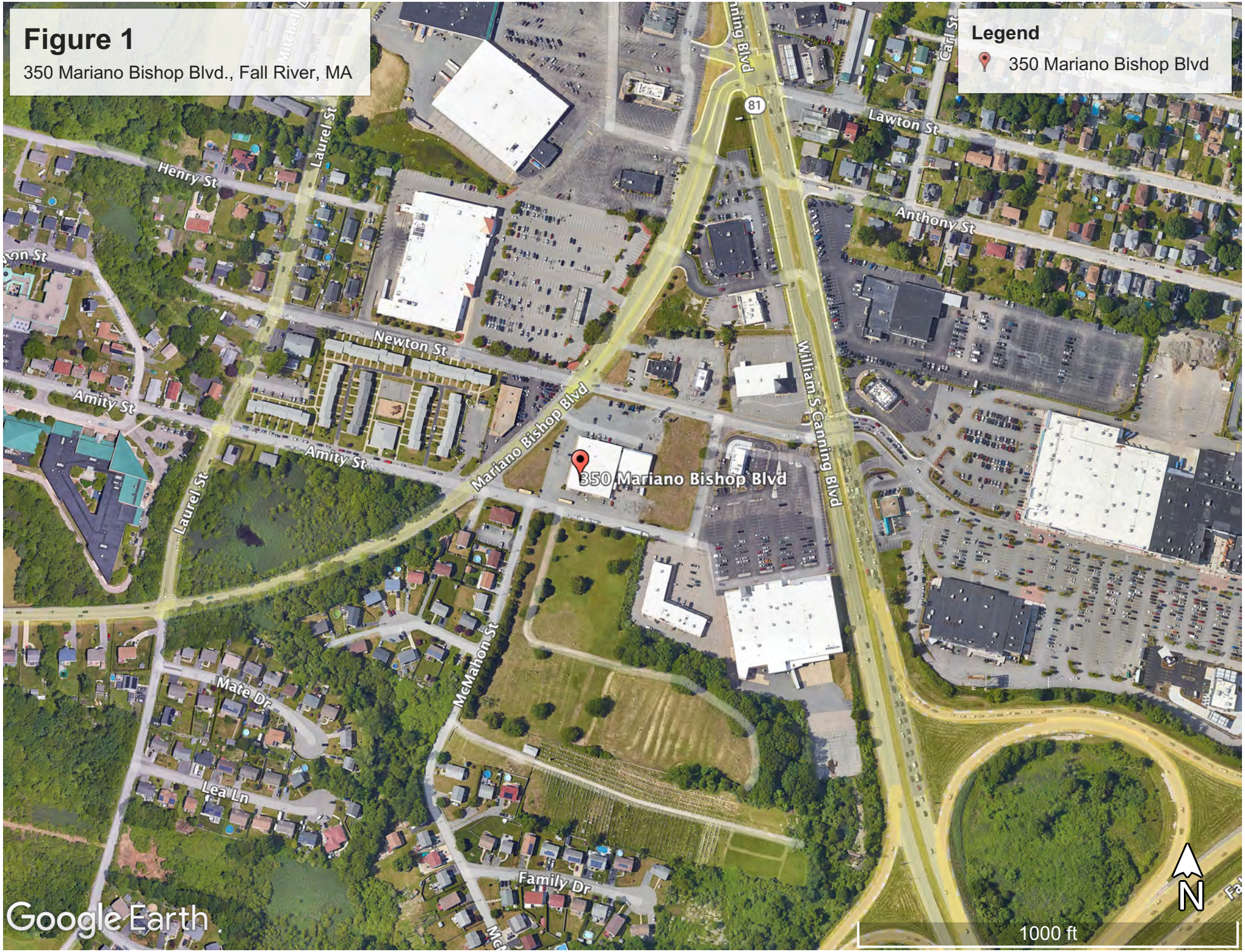
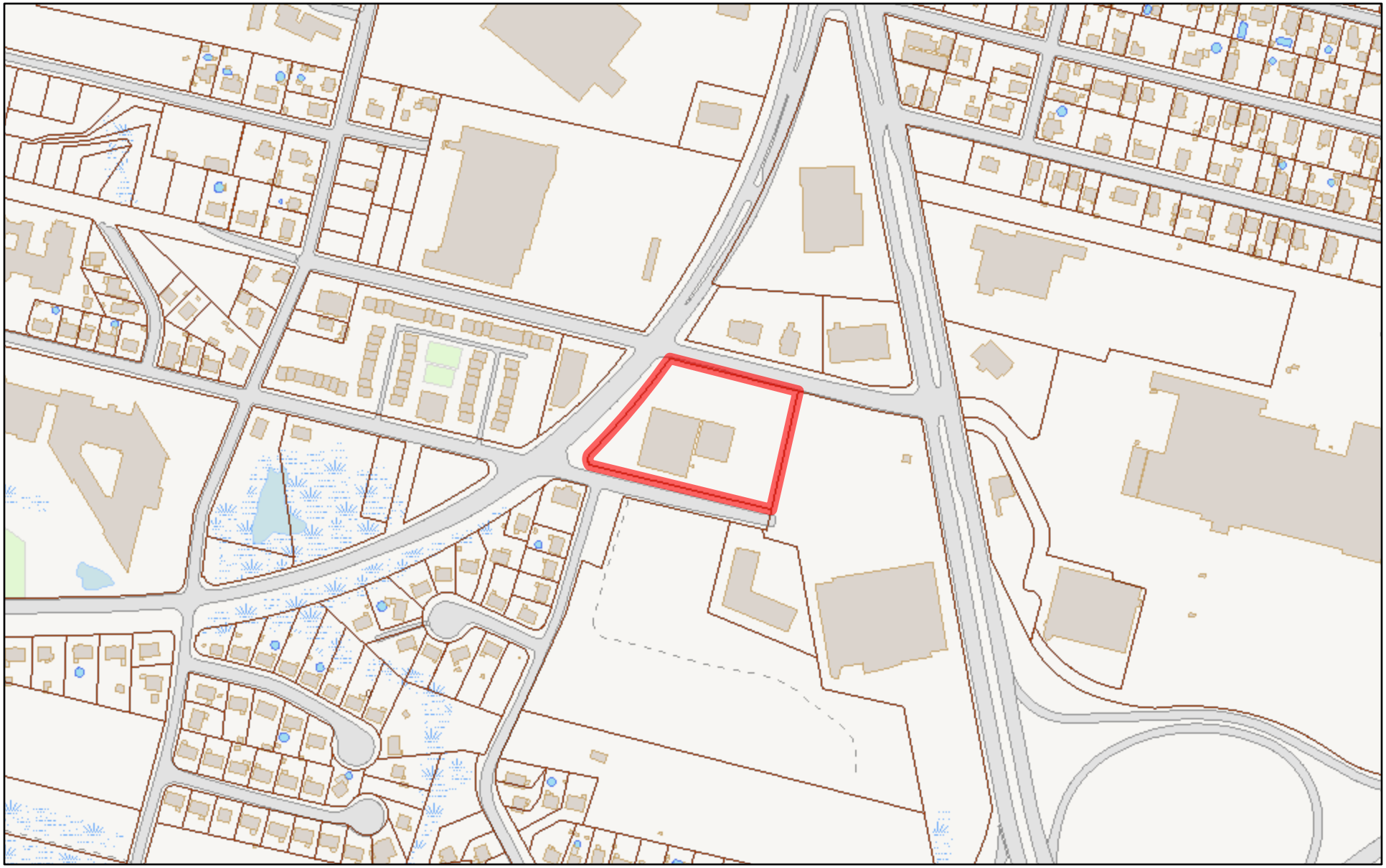


Figure 1
350 Mariano Bishop Blvd., Fall River, MA
Legend
350 Mariano Bishop Blvd
Henry St
Laurel St
Lawton St
Anthony St
Newton St
Amity St
Mariano Bishop Blvd
William S Canning Blvd
350 Mariano Bishop Blvd
McMahon St
Mate Dr
Lea Ln
Family Dr
81
N
1000 ft
Google Earth

# Figure 2



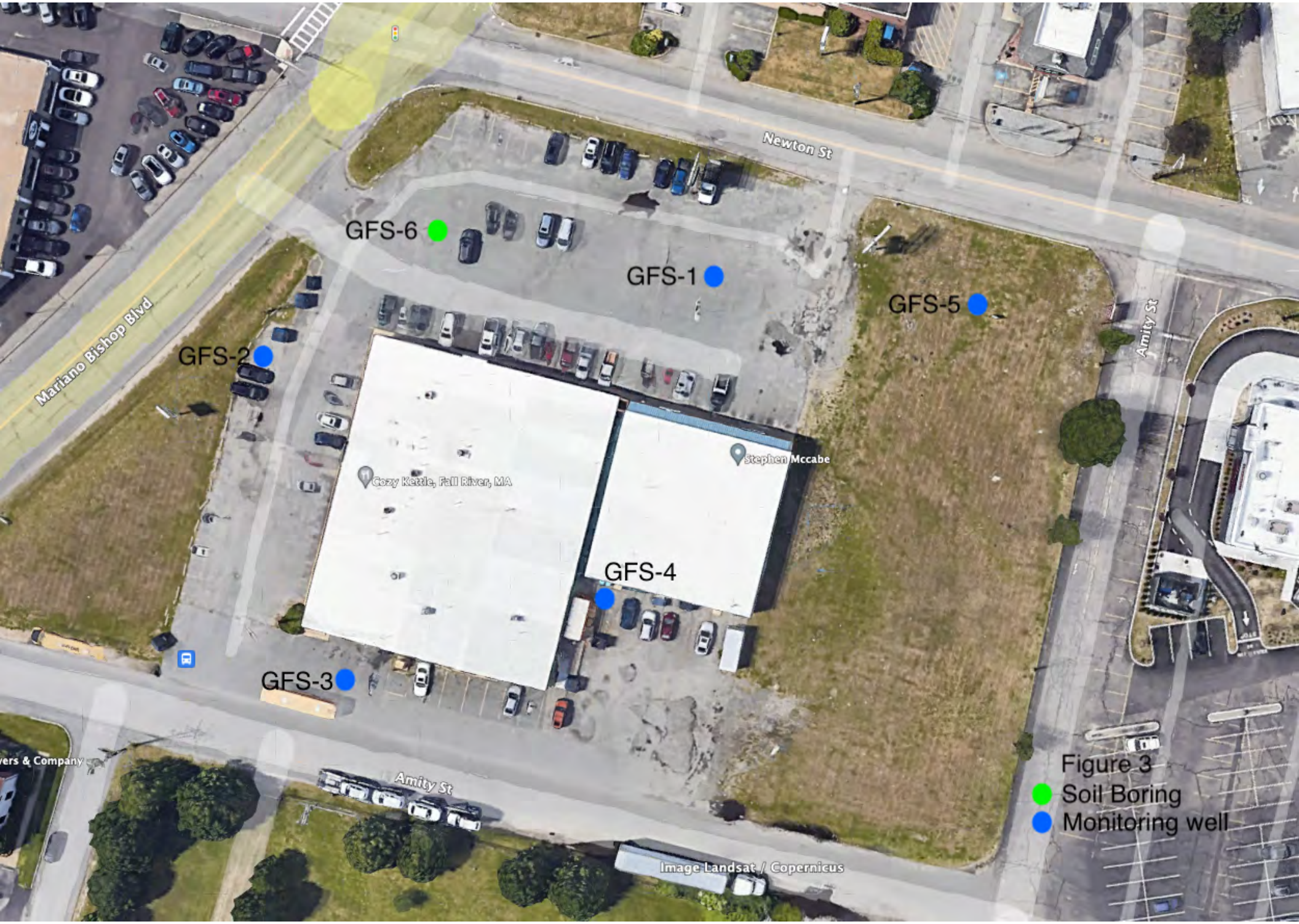
5/15/2023

1:5,324

0 0.03 0.07 0.13 mi

0 0.05 0.1 0.2 km

Fall River


Newton St
GFS-6
GFS-1
GFS-5
Mariano Bishop Blvd
GFS-2
Amity St
Cozy Kettle, Fall River, MA
Stephen Mccabe
GFS-4
GFS-3
Amity St
Image Landsat / Copernicus
Figure 3
Soil Boring
Monitoring well

LEGEND

APPROXIMATE LOCATIONS OF TEST PITS EXCAVATED BY OTHERS UNDER THE DIRECTION OF GEOTECHNICAL CONSULTANTS, INC. ON 2 JUNE 2023.

BASE PLAN TAKEN FROM AN ELECTRONIC COPY OF A DRAWING ENTITLED "CONCEPT PLAN" PREPARED BY ALLEN & MAJOR ASSOCIATES, INC. DATED AS "ISSUED FOR REVIEW" 14 MARCH 2023.

AMITY STREET

NEWTON STREET

MARIANO BISHOP BOULEVARD

GFS-1

GFS-2

GFS-3

GFS-4

GFS-5

GFS-6

TP-1

TP-2

TP-3

TP-4

TP-5

TP-6

TP-7

TP-8

TP-9

RETAIL
7,144 SF

RETAIL
12,122 SF

CARWASH
4,751 SF

RETAIL
2,600 SF

BANK
3,000 SF

TRAFFIC SIGNAL

EXISTING PYLON SIGN

EXISTING PYLON SIGN

10.0'

22.0'

94.0'

76.0'

159.5'

12.0'

26.3'

36.0'

138.4'

60.9'

74.6'

40.4'

12.0'

12.0'

45°

45°

45°

GCI Project No. 2235365

Geotechnical Consultants, Inc.
201 Boston Post Road West
Marlborough, MA 01752
(508)229-0900 FAX (508)229-2279

LOCATION PLAN

(feet) 0 20 40

JUNE 2023

350-366 Mariano Bishop Blvd
Fall River, Massachusetts

FIGURE 3.

# TABLES

# TABLE 1
## SOIL ANALYTICAL RESULTS
## 350 Mariano Bishop Blvd. Fall River

| NETLAB Case Number: 3F05022 | | | | TP-1 | TP-2 | GFS-2 | GFS-3 | GFS-4 | GFS-5 | TP-3 | TP-6 | TP-9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date Sampled: | | | | 6/2/23 | 6/2/23 | 6/2/23 | 6/2/23 | 6/2/23 | 6/2/23 | 6/2/23 | 6/2/23 | 6/2/23 |
| Parameter | Units | MassDEP Reportable Concentration S-1 | MassDEP Reportable Concentration S-2 | Sample Result | Sample Result | Sample Result | Sample Result | Sample Result | Sample Result | Sample Result | Sample Result | Sample Result |
| **Extractable Petroleum Hydrocarbons (MADEP-EPH)** | | | | | | | | | | | | |
| Naphthalene | mg/kg | 4 | 20 | 0.38 | 0.42 | **0.73** | 0.4 | 0.41 | **1.24** | 0.38 | **0.91** | 0.38 |
| 2-Methylnaphthalene | mg/kg | **0.7** | 80 | 0.38 | 0.42 | **1.08** | 0.4 | 0.41 | 0.38 | 0.38 | 0.42 | 0.38 |
| Phenanthrene | mg/kg | 10 | 1000 | 0.38 | 0.42 | **4.13** | **0.71** | 0.41 | **1.65** | 0.38 | 0.42 | 0.38 |
| Acenaphthene | mg/kg | 4 | 3000 | 0.38 | 0.42 | **0.65** | 0.4 | 0.41 | **0.45** | 0.38 | 0.42 | 0.38 |
| Fluorene | mg/kg | 1000 | 3000 | 0.38 | 0.42 | **0.81** | 0.4 | 0.41 | **0.42** | 0.38 | 0.42 | 0.38 |
| Anthracene | mg/kg | 1000 | 3000 | 0.38 | 0.42 | **0.55** | 0.4 | 0.41 | 0.38 | 0.38 | **0.8** | 0.38 |
| Fluoranthene | mg/kg | 1000 | 3000 | **0.68** | 0.42 | **0.94** | **0.43** | 0.41 | **0.55** | 0.38 | 0.42 | 0.38 |
| Pyrene | mg/kg | 1000 | 3000 | **0.64** | 0.42 | **1.34** | **0.73** | 0.41 | **0.6** | 0.38 | 0.42 | 0.38 |
| Benzo(a)anthracene | mg/kg | 7 | 40 | 0.38 | 0.42 | **0.83** | 0.4 | 0.41 | 0.38 | 0.38 | 0.42 | 0.38 |
| Chrysene | mg/kg | 70 | 400 | **0.43** | 0.42 | **1.01** | **0.56** | 0.41 | 0.38 | 0.38 | 0.42 | 0.38 |
| C9-C18 Aliphatic Hydrocarbons | mg/kg | 1000 | 3000 | 15.3 | **34.7** | **90.8** | 16.2 | 16.4 | **333** | 15.2 | **40.3** | 15.2 |
| C19-C36 Aliphatic Hydrocarbons | mg/kg | **3000** | **5000** | **125** | **405** | **555** | **169** | **67** | **5180** | **182** | **357** | **79.3** |
| C11-C22 Aromatic Hydrocarbons | mg/kg | 1000 | 3000 | **69.6** | **121** | **587** | **146** | **61.3** | **826** | **71.3** | **195** | **39.7** |
| | | | | | | | | | | | | |
| **Total Metals** | | | | | | | | | | | | |
| Arsenic | mg/kg | **20** | **20** | **4.69** | **14.3** | **2.07** | **3.23** | **20.4** | **2.11** | **2.49** | **2.12** | **5.46** |
| Barium | mg/kg | 1000 | 3000 | **92.3** | **651** | **184** | **59.9** | **828** | **31.5** | **34** | **68.4** | **114** |
| Cadmium | mg/kg | 70 | 100 | 0.67 | **4.11** | 0.67 | 0.75 | 0.64 | 0.42 | 0.61 | 0.65 | 0.61 |
| Chromium | mg/kg | 100 | 200 | **12.2** | **23.3** | **20.9** | **6.88** | **31.6** | **6.85** | **7.73** | **12.3** | **15.7** |
| Lead | mg/kg | **200** | **600** | **345** | **177** | **96.2** | **14.7** | **640** | **43.7** | **76.2** | **13.1** | **148** |
| Nickel | mg/kg | 600 | 1000 | **14.1** | **27.5** | **24.7** | **8.52** | **38.7** | **7.38** | **11.2** | **11.9** | **17.9** |
| Vanadium | mg/kg | 400 | 700 | **12.2** | **12.5** | **15.5** | **6.44** | **37.1** | **7.48** | **9.37** | **8.81** | **11.8** |
| Zinc | mg/kg | **1000** | **3000** | **768** | **2370** | **1210** | **1810** | **2650** | **180** | **190** | **4000** | **1210** |
| Mercury | mg/kg | 20 | 30 | **0.29** | **0.752** | 0.157 | 0.155 | 0.164 | 0.155 | ND | ND | ND |
| | | | | | | | | | | | | |
| **Asbestos** | | | | | | | | | | | | |
| Chrysotile | | NA | NA | ND | ND | ND | ND | **Present** | **Present** | ND | ND | ND |
| | | | | | | | | | | | | |
| **Volatile Organic Compounds** | | | | | | | | | | | | |
| Benzene | ug/kg | 2000 | 200000 | 6 | 8 | 71 | 5 | 65 | 5 | 5 | 6 | 5 |
| Carbon Disulfide | ug/kg | 100000 | 1000000 | 6 | 8 | **125** | 5 | ND | 5 | 5 | 6 | 5 |
| Ethylbenzene | ug/kg | 40000 | 1000000 | 6 | 8 | **76** | 5 | **79** | 5 | 5 | **195** | 5 |
| Isopropylbenzene | ug/kg | 1000000 | 1.00E+07 | 6 | 8 | **471** | 5 | 65 | 5 | 5 | **37** | 5 |
| p-Isopropyltoluene | ug/kg | 100000 | 1000000 | 6 | 8 | **121** | 5 | 65 | 5 | 5 | **14** | 5 |
| Naphthalene | ug/kg | 4000 | 20000 | 6 | 8 | **861** | 5 | **185** | **14** | 5 | **65** | 5 |
| n-Propylbenzene | ug/kg | 100000 | 1000000 | 6 | 8 | **100** | 5 | 65 | 5 | 5 | **7** | 5 |
| Toluene | ug/kg | 30000 | 1000000 | 6 | 8 | 71 | 5 | 65 | 5 | 5 | **7** | 5 |
| 1,2,4-Trimethylbenzene | ug/kg | 1000000 | 1.00E+07 | 6 | 8 | **140** | 5 | 65 | 5 | 5 | **12** | 5 |
| o-Xylene | ug/kg | see Total xylenes | | 6 | 8 | **258** | 5 | 65 | 5 | 5 | **17** | 5 |
| m&p-Xylene | ug/kg | see Total xylenes | | 12 | 15 | **285** | 11 | 130 | 11 | 10 | **54** | 10 |
| Total xylenes | ug/kg | 100000 | 100000 | 6 | 8 | **542** | 5 | 65 | 5 | 5 | **72** | 5 |
| | | | | | | | | | | | | |
| **Polychlorinated Biphenyls (PCBs)** | | | | | | | | | | | | |
| Aroclor-1254 | ug/kg | 1000 | 4000 | ND | ND | ND | ND | **314** | ND | ND | **431** | **135** |
| PCBs (Total) | ug/kg | 1000 | 4000 | ND | ND | ND | ND | **314** | ND | ND | **431** | **135** |

Cells with this color indicate: Cases where the analyte was detected but is within the limits provided.

Cells with this color indicate: Cases where the analyte concentration violates one or more of the limits provided. (The violated limits are colored as well.)

Non Highlighted cells Not detected above method detection limit, medthod detection limit displayed

# TABLE 2
## GROUNDWATER ANALYTICAL RESULTS
## 350 Mariano Bishop Blvd. Fall River

| **NETLAB Case Number: 3F06046** | | | **GFS-1** | **GFS-2** | **GFS-3** | **GFS-4** | **GFS-5** |
|---|---|---|---|---|---|---|---|
| Date Sampled: | | | 6/5/23 | 6/5/23 | 6/5/23 | 6/5/23 | 6/5/23 |
| Parameter | Units | MassDEP Reportable Concentration GW-2 | Sample Result | Sample Result | Sample Result | Sample Result | Sample Result |
| **Extractable Petroleum Hydrocarbons (MADEP-EPH)** | | | | | | | |
| Unadjusted C11-C22 Aromatic Hydrocarbons | ug/l | | 100 | 100 | **146** | 100 | 100 |
| Naphthalene | ug/l | 700 | 1 | 1 | 1 | 1 | 1 |
| 2-Methylnaphthalene | ug/l | 2000 | 1 | 1 | **1.1** | 1 | 1 |
| Phenanthrene | ug/l | 10000 | 1 | 1 | 1 | 1 | 1 |
| Acenaphthene | ug/l | 6000 | 5 | 5 | 5 | 5 | 5 |
| Fluorene | ug/l | 40 | 5 | 5 | 5 | 5 | 5 |
| Anthracene | ug/l | 30 | 5 | 5 | 5 | 5 | 5 |
| Fluoranthene | ug/l | 200 | 5 | 5 | 5 | 5 | 5 |
| Pyrene | ug/l | 20 | 5 | 5 | 5 | 5 | 5 |
| Benzo(a)anthracene | ug/l | 1000 | 1 | 1 | 1 | 1 | 1 |
| Chrysene | ug/l | 70 | 2 | 2 | 2 | 2 | 2 |
| C9-C18 Aliphatic Hydrocarbons | ug/l | 5000 | 200 | 200 | 200 | 200 | 200 |
| C19-C36 Aliphatic Hydrocarbons | ug/l | 50000 | 200 | 200 | 200 | 200 | 200 |
| C11-C22 Aromatic Hydrocarbons | ug/l | 5000 | 100 | 100 | **145** | 100 | 100 |
| **Dissolved Metals** | | | | | | | |
| Antimony | mg/L | 8 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Arsenic | mg/L | 0.9 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Barium | mg/L | 50 | **0.611** | **0.82** | **0.422** | **0.468** | **0.071** |
| Cadmium | mg/L | 0.004 | *0.005* | *0.005* | *0.005* | *0.005* | *0.005* |
| Chromium | mg/L | 0.3 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Lead | mg/L | 0.01 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Nickel | mg/L | 0.2 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Vanadium | mg/L | 4 | **0.009** | 0.005 | **0.006** | 0.005 | 0.005 |
| Zinc | mg/L | 0.9 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Mercury | mg/L | 0.02 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| **Volatile Organic Compounds** | | | | | | | |
| Acetone | ug/l | 50000 | 32 | 32 | 32 | 32 | 32 |
| Benzene | ug/l | 1000 | **2** | 1 | 1 | 1 | 1 |
| Carbon Disulfide | ug/l | 10000 | 1 | 1 | 1 | 1 | 1 |
| Ethylbenzene | ug/l | 5000 | 1 | 1 | 1 | 1 | 1 |
| Isopropylbenzene | ug/l | 100000 | **2** | **4** | 1 | 1 | 1 |
| p-Isopropyltoluene | ug/l | 10000 | 1 | 1 | 1 | 1 | 1 |
| Naphthalene | ug/l | 700 | **3** | **1** | 1 | 1 | 1 |
| n-Propylbenzene | ug/l | 10000 | 1 | 1 | 1 | 1 | 1 |
| Toluene | ug/l | 40000 | 1 | 1 | 1 | 1 | 1 |
| 1,2,4-Trimethylbenzene | ug/l | 100000 | 1 | 1 | 1 | 1 | 1 |
| o-Xylene | ug/l | see Total xylenes | **2** | **3** | 1 | 1 | 1 |
| m&p-Xylene | ug/l | see Total xylenes | **3** | 2 | 2 | 2 | 2 |
| Total xylenes | ug/l | 3000 | **5** | **3** | 1 | 1 | 1 |

| | |
|---|---|
| Cells with this color indicate: | Cases where the analyte was detected but is within the limits provided. |
| Cells with this color indicate: | Cases where the analyte concentration violates one or more of the limits provided. (The violated limits are colored as well.) |
| Non Highlighted cells | Not detected above method detection limit, medthod detection limit displa |

# APPENDIX A

**350 Marino Bishop Blvd**
350 Marino Bishop Blvd
Fall River, MA  02721

Inquiry Number: 7334882.2s
May 11, 2023

# EDR Summary Radius Map Report

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

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***Thank you for your business.***
Please contact EDR at 1-800-352-0050
with any questions or comments.


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# EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

## TARGET PROPERTY INFORMATION

### ADDRESS

350 MARINO BISHOP BLVD
FALL RIVER, MA 02721

### COORDINATES

| | |
|---|---|
| Latitude (North): | 41.6726510 - 41° 40' 21.54'' |
| Longitude (West): | 71.1633810 - 71° 9' 48.17'' |
| Universal Tranverse Mercator: | Zone 19 |
| UTM X (Meters): | 319908.7 |
| UTM Y (Meters): | 4615480.0 |
| Elevation: | 183 ft. above sea level |

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

| | |
|---|---|
| Target Property: | TP |
| Source: | U.S. Geological Survey |

### AERIAL PHOTOGRAPHY IN THIS REPORT

| | |
|---|---|
| Portions of Photo from: | 20140718 |
| Source: | USDA |

# MAPPED SITES SUMMARY

Target Property Address:
350 MARINO BISHOP BLVD
FALL RIVER, MA 02721

Click on Map ID to see full detail.

| MAP ID | SITE NAME | ADDRESS | DATABASE ACRONYMS | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|---|---|---|---|---|---|
| A1 | BURNS INC | 350 MARIANO BISHOP B | RCRA-VSQG, FINDS, ECHO, RI MANIFEST | | TP |
| A2 | BURNS INC | 350 MARIANO BISHOP B | MA HW GEN | | TP |
| B3 | CHIPOTLE 3711 | 575 NEWTON ST | MA HW GEN | Higher | 167, 0.032, NNE |
| B4 | CHIPOTLE 3711 | 575 NEWTON ST | RCRA-VSQG | Higher | 167, 0.032, NNE |
| B5 | TRU-MED WALK IN | 528 NEWTON ST | RCRA-VSQG, RI MANIFEST | Higher | 202, 0.038, North |
| B6 | TRU-MED WALK IN | 528 NEWTON ST | MA HW GEN | Higher | 202, 0.038, North |
| 7 | COMMERCIAL PROPERTY | 353 MARIANO BISHOP B | MA SHWS, MA RELEASE | Lower | 299, 0.057, WNW |
| 8 | PAPA GINOS | 340 MARIANO BISHOP B | MA SHWS, MA RELEASE | Higher | 304, 0.058, NE |
| C9 | RITE AID 10200 | 323 WM SOUTH CANNING | RCRA NonGen / NLR | Lower | 469, 0.089, ENE |
| 10 | DELKEN PROFESSIONAL | 455 WM S CANNING BLV | EDR Hist Cleaner | Lower | 486, 0.092, SSE |
| D11 | STOP & SHOP NO 403 | 333 MARIANO BISHOP B | MA SHWS, MA RELEASE, MA ASBESTOS, MA HW GEN | Higher | 509, 0.096, North |
| D12 | STOP & SHOP GAS 473 | 333 MARIANO BISHOP B | MA AST | Higher | 509, 0.096, North |
| D13 | STOP & SHOP FUEL #47 | 333 MARIANO S BISHOP | MA UST | Higher | 509, 0.096, North |
| D14 | STOP & SHOP PARKING | 333 MARIANNO BISHOP | MA SHWS, MA RELEASE | Higher | 509, 0.096, North |
| C15 | FUTURE NEON GAS STAT | 323 WILLIAM S. CANNI | MA SHWS, MA RELEASE | Lower | 559, 0.106, ENE |
| C16 | DBA RITE AID 10200 | 323 WILLIAM SOUTH CA | RCRA NonGen / NLR, FINDS, ECHO, RI MANIFEST | Lower | 559, 0.106, ENE |
| E17 | WALMART 3560 | 374 WILLIAM SOUTH CA | RCRA NonGen / NLR, RI MANIFEST | Lower | 650, 0.123, East |
| E18 | TJ MAXX T1230 | 374 WILLIAM SOUTH CA | MA ASBESTOS, MA HW GEN | Lower | 650, 0.123, East |
| E19 | TJ MAXX T1230 | 374 WILLIAM SOUTH CA | RCRA-VSQG | Lower | 650, 0.123, East |
| F20 | FIRST FORD INC | 292 WILLIAM SOUTH CA | RCRA-VSQG, FINDS, ECHO, RI MANIFEST | Lower | 675, 0.128, ENE |
| F21 | FIRST FORD INC | 292 WILLIAM SOUTH CA | MA HW GEN | Lower | 675, 0.128, ENE |
| G22 | DELKEN DRY CLEANING | 455 WILLIAM S. CANNI | MA SHWS, MA INST CONTROL, MA RELEASE | Lower | 688, 0.130, ESE |
| G23 | BROOKS 881 | 457 WILLIAM SOUTH CA | RCRA NonGen / NLR, FINDS, ECHO | Lower | 691, 0.131, ESE |
| 24 | EMPIRE CHEVROLET INC | 245 WILLIAM S CANNIN | MA UST | Higher | 702, 0.133, NE |
| G25 | SHAWS 7422 | 485 WILLIAM SOUTH CA | RCRA NonGen / NLR | Lower | 758, 0.144, ESE |
| G26 | SHAWS 7422 | 485 WILLIAM SOUTH CA | MA HW GEN | Lower | 758, 0.144, ESE |
| 27 | DELKEN DRY CLEANERS | 455 CANNING BLVD | RCRA NonGen / NLR, FINDS, ECHO, RI MANIFEST | Lower | 836, 0.158, SE |
| 28 | SHOPING PLAZA | 416 WILLAM SOUTH CAN | MA SHWS, MA RELEASE | Lower | 1030, 0.195, SE |
| H29 | BURLINGTON COAT FACT | 181 MARIANO BISHOP B | MA ASBESTOS, MA HW GEN | Higher | 1087, 0.206, North |
| H30 | ZAYRE DEPT STORE #12 | 181 MARIANO S BISHOP | MA UST | Higher | 1087, 0.206, North |
| I31 | FORMER GAS STATION | 130 WILLIAM S. CANNI | MA SHWS, MA LUST, MA RELEASE | Higher | 1133, 0.215, NNE |
| I32 | SHELL-BRANDED GAS ST | 130 WILLIAM SOUTH CA | MA SHWS, MA RELEASE | Higher | 1133, 0.215, NNE |
| I33 | SHELL #85 (SEASONS C | 130 WILLIAM S CANNIN | MA UST | Higher | 1133, 0.215, NNE |
| I34 | SHELL 85 | 130 WILLIAM SOUTH CA | MA AST | Higher | 1133, 0.215, NNE |
| J35 | SALLY BEAUTY SUPPLY | 147 MARIANO BISHOP B | RCRA-VSQG | Higher | 1256, 0.238, NNE |
| 36 | HARBOUR MALL | WILLIAM CANNING BLVD | MA SHWS, MA RELEASE | Lower | 1341, 0.254, East |
| J37 | TEXACO | 130 CHANNING BLVD | MA SHWS, MA RELEASE | Higher | 1377, 0.261, NNE |
| 38 | COMMERCIAL PROPERTY | 80 WILLIAM S CANNING | MA SHWS, MA RELEASE | Higher | 1438, 0.272, NNE |
| 39 | FMR SHELL SERVICE ST | 33 MARIANO BISHOP BL | MA SHWS, MA RELEASE | Higher | 1619, 0.307, North |

# MAPPED SITES SUMMARY

Target Property Address:
350 MARINO BISHOP BLVD
FALL RIVER, MA 02721

Click on Map ID to see full detail.

| MAP ID | SITE NAME | ADDRESS | DATABASE ACRONYMS | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|---|---|---|---|---|---|
| 40 | ADVANCE AUTO PARTS | 234 TUCKER STREET | MA SHWS, MA RELEASE, MA ASBESTOS, MA ENF, MA HW... | Lower | 1985, 0.376, North |
| 41 | MOBIL STATION 01 240 | 408 RHODE ISLAND AVE | MA SHWS, MA LUST, MA RELEASE, MA SPILLS | Lower | 2064, 0.391, North |
| 42 | INTERSECTION | TUCKER AND LAUREL ST | MA SHWS, MA RELEASE | Higher | 2115, 0.401, NNW |
| 43 | AUTOZONE AUTO PARTS | 355 RHODE ISLAND AVE | MA SHWS, MA INST CONTROL, MA RELEASE, MA HW GEN | Lower | 2174, 0.412, North |
| K44 | BETWEEN NEPTUNE AND | 254 CAROLINE ST | MA SHWS, MA INST CONTROL, MA RELEASE, MA ENF | Lower | 2456, 0.465, ESE |
| K45 | FR WEBBING MILLS FMR | 272 CAROLINE ST | MA SHWS, MA RELEASE | Lower | 2555, 0.484, ESE |
| 46 | VACANT LOT | STAR AND BATES ST | MA SHWS, MA RELEASE | Higher | 2773, 0.525, NNW |
| 47 | NO LOCATION AID | 65 TOWER ST | MA SHWS, MA LAST, MA RELEASE | Higher | 3012, 0.570, NNW |
| 48 | CORNER LARK ST | 42 ESTES LN | MA SHWS, MA RELEASE | Lower | 3020, 0.572, ESE |
| 49 | STAFFORD RD | CHICAGO ST | MA SHWS, MA RELEASE | Higher | 3289, 0.623, NE |
| 50 | 7 ELEVEN | 1099 WILLIAM S CANNI | MA SHWS, MA RELEASE, MA HW GEN | Higher | 3316, 0.628, SE |
| 51 | SAINT WILLIAMS RECTO | 50 CHICAGO ST | MA SHWS, MA RELEASE, MA ASBESTOS | Higher | 3381, 0.640, NE |
| 52 | FMR GASOLINE STATION | 1495 PLYMOUTH AVE | MA SHWS, MA LUST, MA INST CONTROL, MA RELEASE, MA... | Lower | 3955, 0.749, North |
| 53 | LEEMING A H & SONS I | 994 JEFFERSON ST | MA SHWS, MA RELEASE, MA SPILLS, MA HW GEN | Lower | 4160, 0.788, East |
| 54 | SOUTH POND ICE & FUE | 1139 SLADE ST | MA SHWS, MA LUST, MA UST, MA RELEASE | Lower | 4181, 0.792, NNW |
| 55 | PROPERTY | 440 STAFFORD RD | MA SHWS, MA RELEASE, MA HW GEN | Higher | 4186, 0.793, NNE |
| 56 | MIDAS FALL RIVEER | 1439 PLYMOUTH AVENUE | MA SHWS, MA INST CONTROL, MA RELEASE, MA HW GEN | Lower | 4196, 0.795, North |
| L57 | KING PHILIP MILL | 386 KILBURN STREET | MA SHWS, MA RELEASE | Higher | 4377, 0.829, NW |
| 58 | SLADE LAUNDRY INC | 1068 SLADE ST. | MA SHWS, MA UST, MA BROWNFIELDS, MA RELEASE, RCRA... | Lower | 4402, 0.834, NNW |
| L59 | TILLY REALTY ASSOCIA | 358 KILBURN ST | MA SHWS, MA LAST, MA RELEASE | Higher | 4425, 0.838, NNW |
| 60 | NEW ENGLAND ELECTROP | 220 SHOVE ST | MA SHWS, MA RELEASE, MA HW GEN | Higher | 4471, 0.847, WNW |
| 61 | NO LOCATION AID | 109 HOWE ST | MA SHWS, MA INST CONTROL, MA SPILLS, MA RELEASE,... | Higher | 4501, 0.852, WNW |
| 62 | POLE 43 | 903 GLOBE ST | MA SHWS, MA RELEASE | Lower | 4535, 0.859, North |
| 63 | COMMERCIAL PROPERTY | 851 GLOBE STREET | MA SHWS, MA LUST, MA RELEASE, MA HW GEN | Lower | 4645, 0.880, NNW |
| 64 | JENSON MFG CO INC | 126 SHOVE ST | MA SHWS, MA LAST, MA RELEASE | Higher | 4719, 0.894, WNW |
| 65 | NATIONAL GRID CANONI | 421 CANONICUS STREET | RI SHWS | Higher | 4751, 0.900, WSW |
| 66 | MCGOVERNS FALMILY RE | 310 SHOVE ST | MA SHWS, MA RELEASE | Higher | 4760, 0.902, West |
| 67 | PLYMOUTH AVE | FRANCIS ST | MA SHWS, MA RELEASE | Higher | 4761, 0.902, North |
| 68 | SUNOCO SERVICE STA | 2322 SOUTH MAIN ST | MA SHWS, MA LUST, MA RELEASE | Higher | 4876, 0.923, WNW |
| 69 | COMMERCIAL PROPERTY | 2001 & 2031 SOUTH MA | MA SHWS, MA RELEASE | Higher | 4890, 0.926, NW |
| 70 | BOURNE MILLS/DIXIE W | 1 SHOVE STREET | RI SHWS, RI SPILLS | Higher | 4915, 0.931, West |
| 71 | GETTY SERVICE STATIO | 2291 SOUTH MAIN ST | MA SHWS, MA LUST, MA INST CONTROL, MA RELEASE | Higher | 4981, 0.943, WNW |
| 72 | RETAIL TIRE SALES | 714 GLOBE STREET | MA SHWS, MA LUST, MA RELEASE, MA HW GEN | Lower | 5077, 0.962, NNW |
| 73 | GROUND EARTH INC | 232 LAPHAM ST | MA SHWS, MA LAST, MA UST, MA INST CONTROL, MA... | Higher | 5142, 0.974, NNE |
| 74 | CITYWIDE AUTO GLASS | 443 BRAYTON AVE | MA SHWS, MA RELEASE, MA SPILLS | Lower | 5227, 0.990, NE |
| M75 | FORMER HEALY SCHOOL | 726 HICKS STREET | MA SHWS, MA RELEASE, MA ASBESTOS | Higher | 5243, 0.993, NW |
| M76 | VACANT BUILDING / FO | 726 HICKS STREET | MA SHWS, MA LUST, MA RELEASE | Higher | 5243, 0.993, NW |

# EXECUTIVE SUMMARY

## TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

| Site | Database(s) | EPA ID |
|---|---|---|
| BURNS INC<br>350 MARIANO BISHOP B<br>FALL RIVER, MA 02721 | RCRA-VSQG<br>EPA ID:: MAD019348697<br>FINDS<br>Registry ID:: 110003425703<br>ECHO<br>Registry ID: 110003425703<br>RI MANIFEST<br>EPA Id: MAD019348697<br>Manifest Document Number: 000032913UIS | MAD019348697 |
| BURNS INC<br>350 MARIANO BISHOP B<br>FALL RIVER, MA 02721 | MA HW GEN<br>EPA Id: MAD019348697 | N/A |

## SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

## STANDARD ENVIRONMENTAL RECORDS

### *Lists of Federal RCRA generators*

RCRA-VSQG: A review of the RCRA-VSQG list, as provided by EDR, and dated 03/06/2023 has revealed that there are 5 RCRA-VSQG sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| CHIPOTLE 3711<br>EPA ID:: MAR000612895 | 575 NEWTON ST | NNE 0 - 1/8 (0.032 mi.) | B4 | 8 |
| ***TRU-MED WALK IN***<br>EPA ID:: MAV000001463 | ***528 NEWTON ST*** | ***N 0 - 1/8 (0.038 mi.)*** | ***B5*** | ***9*** |
| SALLY BEAUTY SUPPLY | 147 MARIANO BISHOP B | NNE 1/8 - 1/4 (0.238 mi.) | J35 | 17 |

EPA ID:: MAR000519215

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| TJ MAXX T1230<br>EPA ID:: MAR000544775 | 374 WILLIAM SOUTH CA | E 0 - 1/8 (0.123 mi.) | E19 | 12 |
| ***FIRST FORD INC***<br>EPA ID:: MAD099426850 | ***292 WILLIAM SOUTH CA*** | ***ENE 1/8 - 1/4 (0.128 mi.)*** | ***F20*** | ***13*** |

***Lists of state- and tribal hazardous waste facilities***

MA SHWS: A review of the MA SHWS list, as provided by EDR, and dated 01/08/2023 has revealed that there are 48 MA SHWS sites within approximately 1 mile of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***PAPA GINOS***<br>Release Tracking Number: 4-0001174<br>Current Status: RAO | ***340 MARIANO BISHOP B*** | ***NE 0 - 1/8 (0.058 mi.)*** | ***8*** | ***9*** |
| ***STOP & SHOP NO 403***<br>Release Tracking Number: 4-0013455<br>Current Status: RAO | ***333 MARIANO BISHOP B*** | ***N 0 - 1/8 (0.096 mi.)*** | ***D11*** | ***10*** |
| ***STOP & SHOP PARKING***<br>Release Tracking Number: 4-0019364<br>Current Status: RAO | ***333 MARIANNO BISHOP*** | ***N 0 - 1/8 (0.096 mi.)*** | ***D14*** | ***11*** |
| ***FORMER GAS STATION***<br>Release Tracking Number: 4-0025904<br>Current Status: PSNC | ***130 WILLIAM S. CANNI*** | ***NNE 1/8 - 1/4 (0.215 mi.)*** | ***I31*** | ***16*** |
| ***SHELL-BRANDED GAS ST***<br>Release Tracking Number: 4-0020924<br>Release Tracking Number: 4-0021583<br>Current Status: RAO<br>Current Status: RAONR | ***130 WILLIAM SOUTH CA*** | ***NNE 1/8 - 1/4 (0.215 mi.)*** | ***I32*** | ***16*** |
| ***TEXACO***<br>Release Tracking Number: 4-0012838<br>Current Status: RAO | ***130 CHANNING BLVD*** | ***NNE 1/4 - 1/2 (0.261 mi.)*** | ***J37*** | ***18*** |
| ***COMMERCIAL PROPERTY***<br>Release Tracking Number: 4-0029302<br>Current Status: UNCLSS | ***80 WILLIAM S CANNING*** | ***NNE 1/4 - 1/2 (0.272 mi.)*** | ***38*** | ***18*** |
| ***FMR SHELL SERVICE ST***<br>Release Tracking Number: 4-0001062<br>Release Tracking Number: 4-0011592<br>Current Status: PSNC<br>Current Status: RAONR | ***33 MARIANO BISHOP BL*** | ***N 1/4 - 1/2 (0.307 mi.)*** | ***39*** | ***18*** |
| ***INTERSECTION***<br>Release Tracking Number: 4-0017566<br>Current Status: RAO | ***TUCKER AND LAUREL ST*** | ***NNW 1/4 - 1/2 (0.401 mi.)*** | ***42*** | ***20*** |
| ***VACANT LOT*** | ***STAR AND BATES ST*** | ***NNW 1/2 - 1 (0.525 mi.)*** | ***46*** | ***21*** |

| | | | | |
|---|---|---|---|---|
| Release Tracking Number: 4-0019684<br>Current Status: RAO | | | | |
| ***NO LOCATION AID***<br>Release Tracking Number: 4-0019695<br>Current Status: RAO | ***65 TOWER ST*** | ***NNW 1/2 - 1 (0.570 mi.)*** | ***47*** | ***22*** |
| ***STAFFORD RD***<br>Release Tracking Number: 4-0015277<br>Current Status: RAO | ***CHICAGO ST*** | ***NE 1/2 - 1 (0.623 mi.)*** | ***49*** | ***22*** |
| ***7 ELEVEN***<br>Release Tracking Number: 4-0026677<br>Current Status: PSNC | ***1099 WILLIAM S CANNI*** | ***SE 1/2 - 1 (0.628 mi.)*** | ***50*** | ***23*** |
| ***SAINT WILLIAMS RECTO***<br>Release Tracking Number: 4-0021517<br>Current Status: RAO | ***50 CHICAGO ST*** | ***NE 1/2 - 1 (0.640 mi.)*** | ***51*** | ***23*** |
| ***PROPERTY***<br>Release Tracking Number: 4-0021772<br>Current Status: URAM | ***440 STAFFORD RD*** | ***NNE 1/2 - 1 (0.793 mi.)*** | ***55*** | ***25*** |
| ***KING PHILIP MILL***<br>Release Tracking Number: 4-0026507<br>Current Status: TIERII | ***386 KILBURN STREET*** | ***NW 1/2 - 1 (0.829 mi.)*** | ***L57*** | ***26*** |
| ***TILLY REALTY ASSOCIA***<br>Release Tracking Number: 4-0015730<br>Release Tracking Number: 4-0015725<br>Release Tracking Number: 4-0015731<br>Current Status: RAO<br>Current Status: RAONR | ***358 KILBURN ST*** | ***NNW 1/2 - 1 (0.838 mi.)*** | ***L59*** | ***27*** |
| ***NEW ENGLAND ELECTROP***<br>Release Tracking Number: 4-0012382<br>Current Status: RAO | ***220 SHOVE ST*** | ***WNW 1/2 - 1 (0.847 mi.)*** | ***60*** | ***28*** |
| ***NO LOCATION AID***<br>Release Tracking Number: 4-0013573<br>Release Tracking Number: 4-0018547<br>Release Tracking Number: 4-0014540<br>Release Tracking Number: 4-0015886<br>Release Tracking Number: 4-0011375<br>Current Status: RAO<br>Current Status: RAONR<br>Current Status: TIERII | ***109 HOWE ST*** | ***WNW 1/2 - 1 (0.852 mi.)*** | ***61*** | ***28*** |
| ***JENSON MFG CO INC***<br>Release Tracking Number: 4-0011941<br>Current Status: RAO | ***126 SHOVE ST*** | ***WNW 1/2 - 1 (0.894 mi.)*** | ***64*** | ***30*** |
| ***MCGOVERNS FALMILY RE***<br>Release Tracking Number: 4-0018431<br>Current Status: RAO | ***310 SHOVE ST*** | ***W 1/2 - 1 (0.902 mi.)*** | ***66*** | ***30*** |
| ***PLYMOUTH AVE***<br>Release Tracking Number: 4-0018524<br>Current Status: URAM | ***FRANCIS ST*** | ***N 1/2 - 1 (0.902 mi.)*** | ***67*** | ***31*** |
| ***SUNOCO SERVICE STA***<br>Release Tracking Number: 4-0000564<br>Current Status: RAO | ***2322 SOUTH MAIN ST*** | ***WNW 1/2 - 1 (0.923 mi.)*** | ***68*** | ***31*** |
| ***COMMERCIAL PROPERTY*** | ***2001 & 2031 SOUTH MA*** | ***NW 1/2 - 1 (0.926 mi.)*** | ***69*** | ***31*** |

Release Tracking Number: 4-0023940
Current Status: RAO

| | | | | |
|---|---|---|---|---|
| ***GETTY SERVICE STATIO*** | ***2291 SOUTH MAIN ST*** | ***WNW 1/2 - 1 (0.943 mi.)*** | ***71*** | ***32*** |
| Release Tracking Number: 4-0000786<br>Current Status: RAO | | | | |
| ***GROUND EARTH INC*** | ***232 LAPHAM ST*** | ***NNE 1/2 - 1 (0.974 mi.)*** | ***73*** | ***33*** |
| Release Tracking Number: 4-0025064<br>Release Tracking Number: 4-0025518<br>Current Status: PSC<br>Current Status: RAONR | | | | |
| ***FORMER HEALY SCHOOL*** | ***726 HICKS STREET*** | ***NW 1/2 - 1 (0.993 mi.)*** | ***M75*** | ***34*** |
| Release Tracking Number: 4-0027582<br>Current Status: ADQREG | | | | |
| ***VACANT BUILDING / FO*** | ***726 HICKS STREET*** | ***NW 1/2 - 1 (0.993 mi.)*** | ***M76*** | ***34*** |
| Release Tracking Number: 4-0025761<br>Current Status: PSNC | | | | |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***COMMERCIAL PROPERTY*** | ***353 MARIANO BISHOP B*** | ***WNW 0 - 1/8 (0.057 mi.)*** | ***7*** | ***9*** |
| Release Tracking Number: 4-0029317<br>Current Status: PSC | | | | |
| ***FUTURE NEON GAS STAT*** | ***323 WILLIAM S. CANNI*** | ***ENE 0 - 1/8 (0.106 mi.)*** | ***C15*** | ***11*** |
| Release Tracking Number: 4-0029650<br>Current Status: UNCLSS | | | | |
| ***DELKEN DRY CLEANING*** | ***455 WILLIAM S. CANNI*** | ***ESE 1/8 - 1/4 (0.130 mi.)*** | ***G22*** | ***13*** |
| Release Tracking Number: 4-0027088<br>Current Status: PSC | | | | |
| ***SHOPING PLAZA*** | ***416 WILLAM SOUTH CAN*** | ***SE 1/8 - 1/4 (0.195 mi.)*** | ***28*** | ***15*** |
| Release Tracking Number: 4-0000629<br>Current Status: LSPNFA | | | | |
| ***HARBOUR MALL*** | ***WILLIAM CANNING BLVD*** | ***E 1/4 - 1/2 (0.254 mi.)*** | ***36*** | ***17*** |
| Release Tracking Number: 4-0000292<br>Current Status: LSPNFA | | | | |
| ***ADVANCE AUTO PARTS*** | ***234 TUCKER STREET*** | ***N 1/4 - 1/2 (0.376 mi.)*** | ***40*** | ***19*** |
| Release Tracking Number: 4-0022670<br>Release Tracking Number: 4-0022924<br>Release Tracking Number: 4-0028266<br>Current Status: DPS<br>Current Status: RAONR<br>Current Status: TIER1D | | | | |
| ***MOBIL STATION 01 240*** | ***408 RHODE ISLAND AVE*** | ***N 1/4 - 1/2 (0.391 mi.)*** | ***41*** | ***19*** |
| Release Tracking Number: 4-0015806<br>Current Status: RAONR | | | | |
| ***AUTOZONE AUTO PARTS*** | ***355 RHODE ISLAND AVE*** | ***N 1/4 - 1/2 (0.412 mi.)*** | ***43*** | ***20*** |
| Release Tracking Number: 4-0012883<br>Release Tracking Number: 4-0028180<br>Current Status: RAO<br>Current Status: TIERII | | | | |
| ***BETWEEN NEPTUNE AND*** | ***254 CAROLINE ST*** | ***ESE 1/4 - 1/2 (0.465 mi.)*** | ***K44*** | ***21*** |

| | | | | |
|---|---|---|---|---|
| Release Tracking Number: 4-0010429<br>Current Status: PSNC | | | | |
| ***FR WEBBING MILLS FMR***<br>Release Tracking Number: 4-0001279<br>Current Status: RAO | ***272 CAROLINE ST*** | ***ESE 1/4 - 1/2 (0.484 mi.)*** | ***K45*** | ***21*** |
| ***CORNER LARK ST***<br>Release Tracking Number: 4-0017547<br>Current Status: RAO | ***42 ESTES LN*** | ***ESE 1/2 - 1 (0.572 mi.)*** | ***48*** | ***22*** |
| ***FMR GASOLINE STATION***<br>Release Tracking Number: 4-0024738<br>Current Status: PSC | ***1495 PLYMOUTH AVE*** | ***N 1/2 - 1 (0.749 mi.)*** | ***52*** | ***23*** |
| ***LEEMING A H & SONS I***<br>Release Tracking Number: 4-0000330<br>Release Tracking Number: 4-0015253<br>Release Tracking Number: 4-0015297<br>Current Status: DEPNFA<br>Current Status: PSC | ***994 JEFFERSON ST*** | ***E 1/2 - 1 (0.788 mi.)*** | ***53*** | ***24*** |
| ***SOUTH POND ICE & FUE***<br>Release Tracking Number: 4-0026061<br>Current Status: PSNC | ***1139 SLADE ST*** | ***NNW 1/2 - 1 (0.792 mi.)*** | ***54*** | ***24*** |
| ***MIDAS FALL RIVEER***<br>Release Tracking Number: 4-0025526<br>Release Tracking Number: 4-0026144<br>Release Tracking Number: 4-0026000<br>Current Status: PSC<br>Current Status: RAONR | ***1439 PLYMOUTH AVENUE*** | ***N 1/2 - 1 (0.795 mi.)*** | ***56*** | ***25*** |
| ***SLADE LAUNDRY INC***<br>Release Tracking Number: 4-0023498<br>Current Status: TIER1D | ***1068 SLADE ST.*** | ***NNW 1/2 - 1 (0.834 mi.)*** | ***58*** | ***26*** |
| ***POLE 43***<br>Release Tracking Number: 4-0017403<br>Current Status: RAO | ***903 GLOBE ST*** | ***N 1/2 - 1 (0.859 mi.)*** | ***62*** | ***29*** |
| ***COMMERCIAL PROPERTY***<br>Release Tracking Number: 4-0028872<br>Release Tracking Number: 4-0029008<br>Current Status: TIERII<br>Current Status: RAONR | ***851 GLOBE STREET*** | ***NNW 1/2 - 1 (0.880 mi.)*** | ***63*** | ***29*** |
| ***RETAIL TIRE SALES***<br>Release Tracking Number: 4-0025730<br>Current Status: PSNC | ***714 GLOBE STREET*** | ***NNW 1/2 - 1 (0.962 mi.)*** | ***72*** | ***32*** |
| ***CITYWIDE AUTO GLASS***<br>Release Tracking Number: 4-0015200<br>Current Status: RAO | ***443 BRAYTON AVE*** | ***NE 1/2 - 1 (0.990 mi.)*** | ***74*** | ***33*** |

RI SHWS: A review of the RI SHWS list, as provided by EDR, and dated 03/06/2023 has revealed that there are 2 RI SHWS sites within approximately 1 mile of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| NATIONAL GRID CANONI | 421 CANONICUS STREET | WSW 1/2 - 1 (0.900 mi.) | 65 | 30 |

Facility Status: Inactive
Project Code: NECA-HWM
Siterem Site Number: SR-33-0871

***BOURNE MILLS/DIXIE W*** — ***1 SHOVE STREET*** — ***W 1/2 - 1 (0.931 mi.)*** — ***70*** — ***32***
Facility Status: Inactive
Project Code: BORD-HWM
Siterem Site Number: SR-33-0146

***Lists of state and tribal leaking storage tanks***

MA LUST: A review of the MA LUST list, as provided by EDR, and dated 01/08/2023 has revealed that there are 2 MA LUST sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***FORMER GAS STATION*** | ***130 WILLIAM S. CANNI*** | ***NNE 1/8 - 1/4 (0.215 mi.)*** | ***I31*** | ***16*** |
| Release Tracking Number / Current Status: 4-0025904 / PSNC | | | | |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***MOBIL STATION 01 240*** | ***408 RHODE ISLAND AVE*** | ***N 1/4 - 1/2 (0.391 mi.)*** | ***41*** | ***19*** |
| Release Tracking Number / Current Status: 4-0001066 / RAO | | | | |
| Release Tracking Number / Current Status: 4-0011706 / RAONR | | | | |

***Lists of state and tribal registered storage tanks***

MA UST: A review of the MA UST list, as provided by EDR, and dated 01/11/2023 has revealed that there are 4 MA UST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| STOP & SHOP FUEL #47<br>Tank Status: In Use<br>Facility Id: 22080 | 333 MARIANO S BISHOP | N 0 - 1/8 (0.096 mi.) | D13 | 11 |
| EMPIRE CHEVROLET INC<br>Tank Status: Tank Removed<br>Facility Id: 3192 | 245 WILLIAM S CANNIN | NE 1/8 - 1/4 (0.133 mi.) | 24 | 14 |
| ZAYRE DEPT STORE #12<br>Tank Status: Tank Removed<br>Facility Id: 3181 | 181 MARIANO S BISHOP | N 1/8 - 1/4 (0.206 mi.) | H30 | 16 |
| SHELL #85 (SEASONS C<br>Tank Status: Tank Removed<br>Tank Status: In Use<br>Facility Id: 3235 | 130 WILLIAM S CANNIN | NNE 1/8 - 1/4 (0.215 mi.) | I33 | 17 |

MA AST: A review of the MA AST list, as provided by EDR, has revealed that there are 2 MA AST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| STOP & SHOP GAS 473<br>Database: AST, Date of Government Version: 12/16/2022 | 333 MARIANO BISHOP B | N 0 - 1/8 (0.096 mi.) | D12 | 10 |
| SHELL 85<br>Database: AST, Date of Government Version: 12/16/2022 | 130 WILLIAM SOUTH CA | NNE 1/8 - 1/4 (0.215 mi.) | I34 | 17 |

***State and tribal institutional control / engineering control registries***

MA INST CONTROL: A review of the MA INST CONTROL list, as provided by EDR, and dated 01/08/2023 has revealed that there are 3 MA INST CONTROL sites within approximately 0.5 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***DELKEN DRY CLEANING***<br>Release Tracking Number: 4-0027088 | ***455 WILLIAM S. CANNI*** | ***ESE 1/8 - 1/4 (0.130 mi.)*** | ***G22*** | ***13*** |
| ***AUTOZONE AUTO PARTS***<br>Release Tracking Number: 4-0012883 | ***355 RHODE ISLAND AVE*** | ***N 1/4 - 1/2 (0.412 mi.)*** | ***43*** | ***20*** |
| ***BETWEEN NEPTUNE AND***<br>Release Tracking Number: 4-0010429 | ***254 CAROLINE ST*** | ***ESE 1/4 - 1/2 (0.465 mi.)*** | ***K44*** | ***21*** |

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Other Ascertainable Records***

RCRA NonGen / NLR: A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/06/2023 has revealed that there are 6 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| RITE AID 10200<br>EPA ID:: MAC300020724 | 323 WM SOUTH CANNING | ENE 0 - 1/8 (0.089 mi.) | C9 | 10 |
| ***DBA RITE AID 10200***<br>EPA ID:: MAR000501916 | ***323 WILLIAM SOUTH CA*** | ***ENE 0 - 1/8 (0.106 mi.)*** | ***C16*** | ***11*** |
| ***WALMART 3560***<br>EPA ID:: MAR000504175 | ***374 WILLIAM SOUTH CA*** | ***E 0 - 1/8 (0.123 mi.)*** | ***E17*** | ***12*** |
| ***BROOKS 881***<br>EPA ID:: MAR000016428 | ***457 WILLIAM SOUTH CA*** | ***ESE 1/8 - 1/4 (0.131 mi.)*** | ***G23*** | ***14*** |
| SHAWS 7422<br>EPA ID:: MAV000012722 | 485 WILLIAM SOUTH CA | ESE 1/8 - 1/4 (0.144 mi.) | G25 | 14 |
| ***DELKEN DRY CLEANERS*** | ***455 CANNING BLVD*** | ***SE 1/8 - 1/4 (0.158 mi.)*** | ***27*** | ***15*** |

# EXECUTIVE SUMMARY

EPA ID:: MAD985276773

MA HW GEN: A review of the MA HW GEN list, as provided by EDR, and dated 11/18/2022 has revealed that there are 7 MA HW GEN sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| CHIPOTLE 3711<br>EPA Id: MAR000612895 | 575 NEWTON ST | NNE 0 - 1/8 (0.032 mi.) | B3 | 8 |
| TRU-MED WALK IN<br>EPA Id: MAV000001463 | 528 NEWTON ST | N 0 - 1/8 (0.038 mi.) | B6 | 9 |
| ***STOP & SHOP NO 403***<br>State Generator Status: VQG-MA<br>EPA Id: MV5086750391 | ***333 MARIANO BISHOP B*** | ***N 0 - 1/8 (0.096 mi.)*** | ***D11*** | ***10*** |
| ***BURLINGTON COAT FACT***<br>EPA Id: MV5086750829 | ***181 MARIANO BISHOP B*** | ***N 1/8 - 1/4 (0.206 mi.)*** | ***H29*** | ***15*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***TJ MAXX T1230***<br>EPA Id: MAR000544775 | ***374 WILLIAM SOUTH CA*** | ***E 0 - 1/8 (0.123 mi.)*** | ***E18*** | ***12*** |
| FIRST FORD INC<br>State Generator Status: LQG-MA<br>EPA Id: MAD099426850 | 292 WILLIAM SOUTH CA | ENE 1/8 - 1/4 (0.128 mi.) | F21 | 13 |
| SHAWS 7422<br>State Generator Status: VQG-MA<br>EPA Id: MAV000012722 | 485 WILLIAM SOUTH CA | ESE 1/8 - 1/4 (0.144 mi.) | G26 | 14 |

RI MANIFEST: A review of the RI MANIFEST list, as provided by EDR, and dated 12/31/2020 has revealed that there are 5 RI MANIFEST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***TRU-MED WALK IN***<br>EPA Id: MAV000001463<br>Manifest Document Number: MAF324024 | ***528 NEWTON ST*** | ***N 0 - 1/8 (0.038 mi.)*** | ***B5*** | ***9*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***DBA RITE AID 10200***<br>EPA Id: MAR000501916<br>Manifest Document Number: RIS0123087 | ***323 WILLIAM SOUTH CA*** | ***ENE 0 - 1/8 (0.106 mi.)*** | ***C16*** | ***11*** |
| ***WALMART 3560***<br>EPA Id: MAR000504175<br>Manifest Document Number: 005434520JJK | ***374 WILLIAM SOUTH CA*** | ***E 0 - 1/8 (0.123 mi.)*** | ***E17*** | ***12*** |
| ***FIRST FORD INC***<br>EPA Id: MAD099426850<br>Manifest Document Number: RIG0278738 | ***292 WILLIAM SOUTH CA*** | ***ENE 1/8 - 1/4 (0.128 mi.)*** | ***F20*** | ***13*** |
| ***DELKEN DRY CLEANERS*** | ***455 CANNING BLVD*** | ***SE 1/8 - 1/4 (0.158 mi.)*** | ***27*** | ***15*** |

# EXECUTIVE SUMMARY

EPA Id: MAD985276773
Manifest Document Number: RIG0246968

**EDR HIGH RISK HISTORICAL RECORDS**

***EDR Exclusive Records***

EDR Hist Cleaner: A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there is 1 EDR Hist Cleaner site within approximately 0.125 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| DELKEN PROFESSIONAL | 455 WM S CANNING BLV | SSE 0 - 1/8 (0.092 mi.) | 10 | 10 |

Count: 10 records. ORPHAN SUMMARY

| City | EDR ID | Site Name | Site Address | Zip | Database(s) |
|---|---|---|---|---|---|
| FALL RIVER | S118643433 | MAP H17 LOT 19 | BIRCH STREET | 02724 | MA SHWS, MA RELEASE |
| FALL RIVER | S106030224 | PG&E POWER STA | BRAYTON PT | | MA SHWS, MA RELEASE |
| FALL RIVER | S107678353 | PROPOSED KUSS SCHOOL | GLOBE MILLS AVE | | MA SHWS, MA BROWNFIELDS, MA RELEASE |
| FALL RIVER | S129186129 | WATER MAIN BREAK | IVO 601 BRAYTON AVE | | MA SHWS, MA RELEASE |
| FALL RIVER | S109330204 | FALL RIVER DEMOLITION LANDFILL | LAUREL STREET MESSON ST | 02721 | MA SWF/LF |
| FALL RIVER | S108640764 | PAD #3 | OFF OF MITCHELL ST | 02724 | MA SHWS, MA RELEASE |
| FALL RIVER | S105200653 | GLOBE & SLADE ST | STAFFORD RD | | MA SHWS, MA RELEASE |
| FALL RIVER | S123244536 | TAUNTON RIVER | STATE LINE PIER | | MA SHWS, MA RELEASE |
| FALL RIVER | S108117176 | ATLATIC FROST | STATE PIER | | MA SHWS, MA RELEASE |
| FALL RIVER | S126985115 | VARIOUS ROADWAYS | VIC 149 TOWER STREET | 02724 | MA SHWS, MA RELEASE |

# OVERVIEW MAP - 7334882.2S


- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Critical Environmental Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

| | |
|---|---|
| SITE NAME: 350 Marino Bishop Blvd | CLIENT: Geological Field Services |
| ADDRESS: 350 Marino Bishop Blvd<br>Fall River MA 02721 | CONTACT: Luke Fabbri |
| LAT/LONG: 41.672651 / 71.163381 | INQUIRY #: 7334882.2s<br>DATE: May 11, 2023 5:36 pm |

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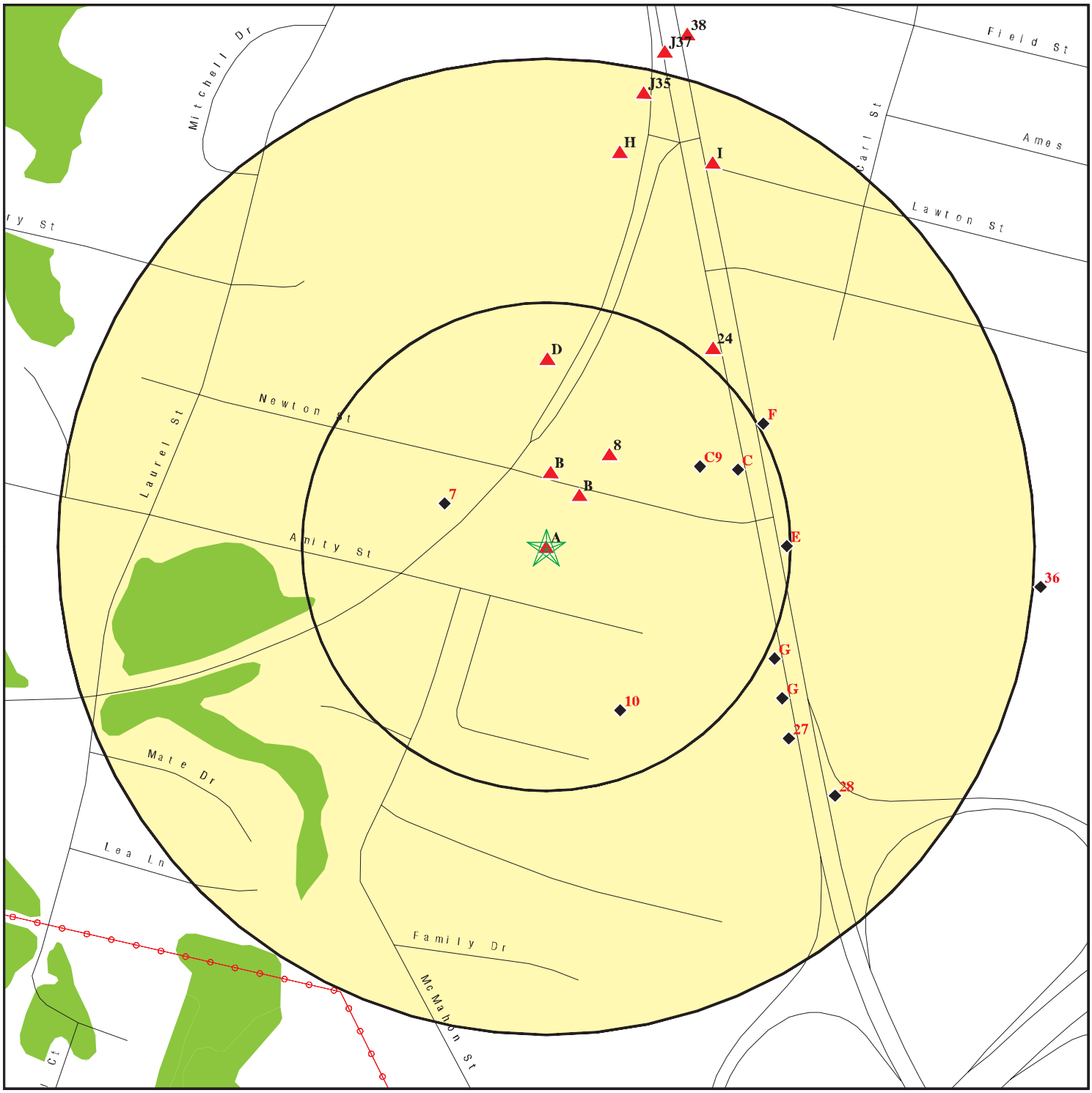
# DETAIL MAP - 7334882.2S




0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Critical Environmental Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

| | | | |
|---|---|---|---|
| SITE NAME: | 350 Marino Bishop Blvd | CLIENT: | Geological Field Services |
| ADDRESS: | 350 Marino Bishop Blvd<br>Fall River MA 02721 | CONTACT: | Luke Fabbri |
| LAT/LONG: | 41.672651 / 71.163381 | INQUIRY #: | 7334882.2s |
| | | DATE: | May 11, 2023 5:37 pm |

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# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| **STANDARD ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Lists of Federal NPL (Superfund) sites*** | | | | | | | | |
| NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| Proposed NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| NPL LIENS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Lists of Federal Delisted NPL sites*** | | | | | | | | |
| Delisted NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Lists of Federal sites subject to CERCLA removals and CERCLA orders*** | | | | | | | | |
| FEDERAL FACILITY | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| SEMS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Lists of Federal CERCLA sites with NFRAP*** | | | | | | | | |
| SEMS-ARCHIVE | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Lists of Federal RCRA facilities undergoing Corrective Action*** | | | | | | | | |
| CORRACTS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Lists of Federal RCRA TSD facilities*** | | | | | | | | |
| RCRA-TSDF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Lists of Federal RCRA generators*** | | | | | | | | |
| RCRA-LQG | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| RCRA-SQG | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| RCRA-VSQG | 0.250 | 1 | 3 | 2 | NR | NR | NR | 6 |
| ***Federal institutional controls / engineering controls registries*** | | | | | | | | |
| LUCIS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US ENG CONTROLS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US INST CONTROLS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal ERNS list*** | | | | | | | | |
| ERNS | TP | | NR | NR | NR | NR | NR | 0 |
| ***Lists of state- and tribal hazardous waste facilities*** | | | | | | | | |
| MA SHWS | 1.000 | | 5 | 4 | 10 | 29 | NR | 48 |
| RI SHWS | 1.000 | | 0 | 0 | 0 | 2 | NR | 2 |
| ***Lists of state and tribal landfills and solid waste disposal facilities*** | | | | | | | | |
| MA SWF/LF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| RI SWF/LF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Lists of state and tribal leaking storage tanks*** | | | | | | | | |
| MA LUST | 0.500 | | 0 | 1 | 1 | NR | NR | 2 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| MA LAST | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| RI LUST | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| INDIAN LUST | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Lists of state and tribal registered storage tanks*** | | | | | | | | |
| FEMA UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| MA UST | 0.250 | | 1 | 3 | NR | NR | NR | 4 |
| RI UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| MA AST | 0.250 | | 1 | 1 | NR | NR | NR | 2 |
| RI AST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| INDIAN UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ***State and tribal institutional control / engineering control registries*** | | | | | | | | |
| MA INST CONTROL | 0.500 | | 0 | 1 | 2 | NR | NR | 3 |
| ***Lists of state and tribal voluntary cleanup sites*** | | | | | | | | |
| INDIAN VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Lists of state and tribal brownfield sites*** | | | | | | | | |
| MA BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| RI BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| **ADDITIONAL ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Local Brownfield lists*** | | | | | | | | |
| US BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Landfill / Solid Waste Disposal Sites*** | | | | | | | | |
| INDIAN ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| DEBRIS REGION 9 | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| IHS OPEN DUMPS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Hazardous waste / Contaminated Sites*** | | | | | | | | |
| US HIST CDL | TP | | NR | NR | NR | NR | NR | 0 |
| US CDL | TP | | NR | NR | NR | NR | NR | 0 |
| ***Local Land Records*** | | | | | | | | |
| MA LIENS | TP | | NR | NR | NR | NR | NR | 0 |
| LIENS 2 | TP | | NR | NR | NR | NR | NR | 0 |
| ***Records of Emergency Release Reports*** | | | | | | | | |
| HMIRS | TP | | NR | NR | NR | NR | NR | 0 |
| MA RELEASE | TP | | NR | NR | NR | NR | NR | 0 |
| MA SPILLS | TP | | NR | NR | NR | NR | NR | 0 |
| RI SPILLS | TP | | NR | NR | NR | NR | NR | 0 |
| MA SPILLS 90 | TP | | NR | NR | NR | NR | NR | 0 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| RI SPILLS 90 | TP | | NR | NR | NR | NR | NR | 0 |
| MA SPILLS 80 | TP | | NR | NR | NR | NR | NR | 0 |
| ***Other Ascertainable Records*** | | | | | | | | |
| RCRA NonGen / NLR | 0.250 | | 3 | 3 | NR | NR | NR | 6 |
| FUDS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| DOD | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| SCRD DRYCLEANERS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US FIN ASSUR | TP | | NR | NR | NR | NR | NR | 0 |
| EPA WATCH LIST | TP | | NR | NR | NR | NR | NR | 0 |
| 2020 COR ACTION | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| TSCA | TP | | NR | NR | NR | NR | NR | 0 |
| TRIS | TP | | NR | NR | NR | NR | NR | 0 |
| SSTS | TP | | NR | NR | NR | NR | NR | 0 |
| ROD | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| RMP | TP | | NR | NR | NR | NR | NR | 0 |
| RAATS | TP | | NR | NR | NR | NR | NR | 0 |
| PRP | TP | | NR | NR | NR | NR | NR | 0 |
| PADS | TP | | NR | NR | NR | NR | NR | 0 |
| ICIS | TP | | NR | NR | NR | NR | NR | 0 |
| FTTS | TP | | NR | NR | NR | NR | NR | 0 |
| MLTS | TP | | NR | NR | NR | NR | NR | 0 |
| COAL ASH DOE | TP | | NR | NR | NR | NR | NR | 0 |
| COAL ASH EPA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| PCB TRANSFORMER | TP | | NR | NR | NR | NR | NR | 0 |
| RADINFO | TP | | NR | NR | NR | NR | NR | 0 |
| HIST FTTS | TP | | NR | NR | NR | NR | NR | 0 |
| DOT OPS | TP | | NR | NR | NR | NR | NR | 0 |
| CONSENT | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| INDIAN RESERV | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| FUSRAP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| UMTRA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| LEAD SMELTERS | TP | | NR | NR | NR | NR | NR | 0 |
| US AIRS | TP | | NR | NR | NR | NR | NR | 0 |
| US MINES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ABANDONED MINES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| FINDS | TP | 1 | NR | NR | NR | NR | NR | 1 |
| DOCKET HWC | TP | | NR | NR | NR | NR | NR | 0 |
| ECHO | TP | 1 | NR | NR | NR | NR | NR | 1 |
| UXO | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| FUELS PROGRAM | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS NPL | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS FEDERAL SITES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS TSCA | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS RCRA MANIFEST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS ATSDR | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS WQP | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS NPDES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS ECHO | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS ECHO FIRE TRAINING | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS PART 139 AIRPORT | 0.250 | | 0 | 0 | NR | NR | NR | 0 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| AQUEOUS FOAM NRC | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| MA PFAS | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| RI PFAS | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| MA AIRS | TP | | NR | NR | NR | NR | NR | 0 |
| RI AIRS | TP | | NR | NR | NR | NR | NR | 0 |
| MA ASBESTOS | TP | | NR | NR | NR | NR | NR | 0 |
| RI ASBESTOS | TP | | NR | NR | NR | NR | NR | 0 |
| MA DRYCLEANERS | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| RI DRYCLEANERS | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| MA ENF | TP | | NR | NR | NR | NR | NR | 0 |
| RI Financial Assurance | TP | | NR | NR | NR | NR | NR | 0 |
| MA Financial Assurance | TP | | NR | NR | NR | NR | NR | 0 |
| MA GWDP | TP | | NR | NR | NR | NR | NR | 0 |
| MA HW GEN | 0.250 | 1 | 4 | 3 | NR | NR | NR | 8 |
| RI MANIFEST | 0.250 | 1 | 3 | 2 | NR | NR | NR | 6 |
| MA MERCURY | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| MA NPDES | TP | | NR | NR | NR | NR | NR | 0 |
| RI NPDES | TP | | NR | NR | NR | NR | NR | 0 |
| MA TIER 2 | TP | | NR | NR | NR | NR | NR | 0 |
| MA TSD | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| MA UIC | TP | | NR | NR | NR | NR | NR | 0 |
| PFAS TRIS | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| MINES MRDS | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| **EDR HIGH RISK HISTORICAL RECORDS** | | | | | | | | |
| ***EDR Exclusive Records*** | | | | | | | | |
| EDR MGP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| EDR Hist Auto | 0.125 | | 0 | NR | NR | NR | NR | 0 |
| EDR Hist Cleaner | 0.125 | | 1 | NR | NR | NR | NR | 1 |
| **EDR RECOVERED GOVERNMENT ARCHIVES** | | | | | | | | |
| ***Exclusive Recovered Govt. Archives*** | | | | | | | | |
| MA RGA HWS | TP | | NR | NR | NR | NR | NR | 0 |
| RI RGA HWS | TP | | NR | NR | NR | NR | NR | 0 |
| MA RGA LUST | TP | | NR | NR | NR | NR | NR | 0 |
| RI RGA LUST | TP | | NR | NR | NR | NR | NR | 0 |
| - Totals -- | | 5 | 21 | 20 | 13 | 31 | 0 | 90 |

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

**A1**
**Target**
**Property**

**BURNS INC**
**350 MARIANO BISHOP BLVD**
**FALL RIVER, MA 02721**

**RCRA-VSQG**
**FINDS**
**ECHO**
**RI MANIFEST**

**1004715441**
**MAD019348697**

**Actual:**
**183 ft.**

Click here for full text details

**RCRA-VSQG**
EPA Id MAD019348697

**FINDS**
Registry ID: 110003425703

**ECHO**
Registry ID 110003425703

**RI MANIFEST**
EPA Id MAD019348697
Manifest Document Number 000032913UIS

---

**A2**
**Target**
**Property**

**BURNS INC**
**350 MARIANO BISHOP BLVD**
**FALL RIVER, MA 02721**

**MA HW GEN**

**S112550978**
**N/A**

**Actual:**
**183 ft.**

Click here for full text details

**MA HW GEN**
EPA Id MAD019348697

---

**B3**
**NNE**
**< 1/8**
**0.032 mi.**
**167 ft.**

**Relative:**
**Higher**

**CHIPOTLE 3711**
**575 NEWTON ST**
**FALL RIVER, MA 02721**

**MA HW GEN**

**S128976990**
**N/A**

Click here for full text details

**MA HW GEN**
EPA Id MAR000612895

---

**B4**
**NNE**
**< 1/8**
**0.032 mi.**
**167 ft.**

**Relative:**
**Higher**

**CHIPOTLE 3711**
**575 NEWTON ST**
**FALL RIVER, MA 02721**

**RCRA-VSQG**

**1027471866**
**MAR000612895**

Click here for full text details

**RCRA-VSQG**
EPA Id MAR000612895

**B5**
**North**
**< 1/8**
**0.038 mi.**
**202 ft.**

**Relative:**
**Higher**

**TRU-MED WALK IN**
**528 NEWTON ST**
**FALL RIVER, MA 02723**

**RCRA-VSQG**
**RI MANIFEST**

**1024884733**
**MAV000001463**

Click here for full text details

**RCRA-VSQG**
EPA Id MAV000001463

**RI MANIFEST**
EPA Id MAV000001463
Manifest Document Number MAF324024

---

**B6**
**North**
**< 1/8**
**0.038 mi.**
**202 ft.**

**Relative:**
**Higher**

**TRU-MED WALK IN**
**528 NEWTON ST**
**FALL RIVER, MA 02723**

**MA HW GEN**

**S112554600**
**N/A**

Click here for full text details

**MA HW GEN**
EPA Id MAV000001463

---

**7**
**WNW**
**< 1/8**
**0.057 mi.**
**299 ft.**

**Relative:**
**Lower**

**COMMERCIAL PROPERTY**
**353 MARIANO BISHOP BOULEVARD**
**FALL RIVER, MA 02721**

**MA SHWS**
**MA RELEASE**

**S128621501**
**N/A**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0029317
Current Status PSC

**MA RELEASE**
Release Tracking Number / Current Status 4-0029317 / PSC

Click here to access the MA DEP site for this facility

---

**8**
**NE**
**< 1/8**
**0.058 mi.**
**304 ft.**

**Relative:**
**Higher**

**PAPA GINOS**
**340 MARIANO BISHOP BLVD**
**FALL RIVER, MA 02720**

**MA SHWS**
**MA RELEASE**

**S106513073**
**N/A**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0001174
Current Status RAO

**MA RELEASE**
Release Tracking Number / Current Status 4-0001174 / RAO

**PAPA GINOS (Continued)** **S106513073**

Click here to access the MA DEP site for this facility

---

**C9**
**ENE**
**< 1/8**
**0.089 mi.**
**469 ft.**

**Relative:**
**Lower**

**RITE AID 10200**
**323 WM SOUTH CANNING BLVD**
**FALL RIVER, MA 02721**

**RCRA NonGen / NLR** **1015743325**
**MAC300020724**

**Click here for full text details**

**RCRA NonGen / NLR**
EPA Id MAC300020724

---

**10**
**SSE**
**< 1/8**
**0.092 mi.**
**486 ft.**

**Relative:**
**Lower**

**DELKEN PROFESSIONAL DRY CLRS**
**455 WM S CANNING BLVD**
**FALL RIVER, MA 02721**

**EDR Hist Cleaner** **1019970976**
**N/A**

**Click here for full text details**

---

**D11**
**North**
**< 1/8**
**0.096 mi.**
**509 ft.**

**Relative:**
**Higher**

**STOP & SHOP NO 403**
**333 MARIANO BISHOP BLVD**
**FALL RIVER, MA 02721**

**MA SHWS** **S103043623**
**MA RELEASE** **N/A**
**MA ASBESTOS**
**MA HW GEN**

**Click here for full text details**

**MA SHWS**
Release Tracking Number 4-0013455
Current Status RAO

**MA RELEASE**
Release Tracking Number / Current Status 4-0013455 / RAO

Click here to access the MA DEP site for this facility

**MA HW GEN**
State Generator Status VQG-MA
EPA Id MV5086750391

---

**D12**
**North**
**< 1/8**
**0.096 mi.**
**509 ft.**

**Relative:**
**Higher**

**STOP & SHOP GAS 473**
**333 MARIANO BISHOP BLVD**
**FALL RIVER, MA 02721**

**MA AST** **A100463670**
**N/A**

**Click here for full text details**

**D13**
**North**
**< 1/8**
**0.096 mi.**
**509 ft.**

**Relative:**
**Higher**

**STOP & SHOP FUEL #473**
**333 MARIANO S BISHOP BLVD**
**FALL RIVER, MA 02720**

**MA UST** **U003800322**
**N/A**

Click here for full text details

**MA UST**
Facility Id 22080
Tank Status In Use

---

**D14**
**North**
**< 1/8**
**0.096 mi.**
**509 ft.**

**Relative:**
**Higher**

**STOP & SHOP PARKING LOT**
**333 MARIANNO BISHOP BLVD**
**FALL RIVER, MA**

**MA SHWS** **S107517361**
**MA RELEASE** **N/A**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0019364
Current Status RAO

**MA RELEASE**
Release Tracking Number / Current Status 4-0019364 / RAO

Click here to access the MA DEP site for this facility

---

**C15**
**ENE**
**< 1/8**
**0.106 mi.**
**559 ft.**

**Relative:**
**Lower**

**FUTURE NEON GAS STATION**
**323 WILLIAM S. CANNING BLVD.**
**FALL RIVER, MA**

**MA SHWS** **S129186170**
**MA RELEASE** **N/A**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0029650
Current Status UNCLSS

**MA RELEASE**
Release Tracking Number / Current Status 4-0029650 / UNCLSS

Click here to access the MA DEP site for this facility

---

**C16**
**ENE**
**< 1/8**
**0.106 mi.**
**559 ft.**

**Relative:**
**Lower**

**DBA RITE AID 10200**
**323 WILLIAM SOUTH CANNING BLVD**
**FALL RIVER, MA 02721**

**RCRA NonGen / NLR** **1004718585**
**FINDS** **MAR000501916**
**ECHO**
**RI MANIFEST**

Click here for full text details

**RCRA NonGen / NLR**
EPA Id MAR000501916

**FINDS**

**DBA RITE AID 10200 (Continued)** **1004718585**

Registry ID: 110012239906

**ECHO**
Registry ID 110012239906

**RI MANIFEST**
EPA Id MAR000501916
Manifest Document Number RIS0123087

---

**E17**
**East**
**< 1/8**
**0.123 mi.**
**650 ft.**

**Relative:**
**Lower**

**WALMART 3560** **RCRA NonGen / NLR** **1005443686**
**374 WILLIAM SOUTH CANNING BLVD** **RI MANIFEST** **MAR000504175**
**FALL RIVER, MA 02721**

Click here for full text details

**RCRA NonGen / NLR**
EPA Id MAR000504175

**RI MANIFEST**
EPA Id MAR000504175
Manifest Document Number 005434520JJK

---

**E18**
**East**
**< 1/8**
**0.123 mi.**
**650 ft.**

**Relative:**
**Lower**

**TJ MAXX T1230** **MA ASBESTOS** **S119955885**
**374 WILLIAM SOUTH CANNING BLVD** **MA HW GEN** **N/A**
**FALL RIVER, MA 02721**

Click here for full text details

**MA HW GEN**
EPA Id MAR000544775

---

**E19**
**East**
**< 1/8**
**0.123 mi.**
**650 ft.**

**Relative:**
**Lower**

**TJ MAXX T1230** **RCRA-VSQG** **1024884026**
**374 WILLIAM SOUTH CANNING BLVD** **MAR000544775**
**FALL RIVER, MA 02721**

Click here for full text details

**RCRA-VSQG**
EPA Id MAR000544775

**F20**
**ENE**
**1/8-1/4**
**0.128 mi.**
**675 ft.**

**Relative:**
**Lower**

**FIRST FORD INC**
**292 WILLIAM SOUTH CANNING BLVD**
**FALL RIVER, MA 02720**

**RCRA-VSQG**
**FINDS**
**ECHO**
**RI MANIFEST**

**1000164547**
**MAD099426850**

Click here for full text details

**RCRA-VSQG**
EPA Id MAD099426850

**FINDS**
Registry ID: 110003449331

**ECHO**
Registry ID 110003449331

**RI MANIFEST**
EPA Id MAD099426850
Manifest Document Number RIG0278738

---

**F21**
**ENE**
**1/8-1/4**
**0.128 mi.**
**675 ft.**

**Relative:**
**Lower**

**FIRST FORD INC**
**292 WILLIAM SOUTH CANNING BLVD**
**FALL RIVER, MA 02720**

**MA HW GEN**

**S113409715**
**N/A**

Click here for full text details

**MA HW GEN**
State Generator Status LQG-MA
EPA Id MAD099426850

---

**G22**
**ESE**
**1/8-1/4**
**0.130 mi.**
**688 ft.**

**Relative:**
**Lower**

**DELKEN DRY CLEANING & COIN LAUNDRY**
**455 WILLIAM S. CANNING BLVD.**
**FALL RIVER, MA 02720**

**MA SHWS**
**MA INST CONTROL**
**MA RELEASE**

**S121826659**
**N/A**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0027088
Current Status PSC

**MA INST CONTROL**
Release Tracking Number 4-0027088

**MA RELEASE**
Release Tracking Number / Current Status 4-0027088 / PSC

Click here to access the MA DEP site for this facility

**G23**
**ESE**
**1/8-1/4**
**0.131 mi.**
**691 ft.**

**Relative:**
**Lower**

**BROOKS 881**
**457 WILLIAM SOUTH CANNING BLVD**
**FALL RIVER, MA 02721**

**RCRA NonGen / NLR FINDS ECHO**

**1004718361**
**MAR000016428**

Click here for full text details

**RCRA NonGen / NLR**
EPA Id MAR000016428

**FINDS**
Registry ID: 110003501210

**ECHO**
Registry ID 110003501210

---

**24**
**NE**
**1/8-1/4**
**0.133 mi.**
**702 ft.**

**Relative:**
**Higher**

**EMPIRE CHEVROLET INC**
**245 WILLIAM S CANNING BLVD**
**FALL RIVER, MA 02721**

**MA UST**

**1000261131**
**N/A**

Click here for full text details

**MA UST**
Facility Id 3192
Tank Status Tank Removed

---

**G25**
**ESE**
**1/8-1/4**
**0.144 mi.**
**758 ft.**

**Relative:**
**Lower**

**SHAWS 7422**
**485 WILLIAM SOUTH CANNING BLVD**
**FALL RIVER, MA 02722**

**RCRA NonGen / NLR**

**1024885165**
**MAV000012722**

Click here for full text details

**RCRA NonGen / NLR**
EPA Id MAV000012722

---

**G26**
**ESE**
**1/8-1/4**
**0.144 mi.**
**758 ft.**

**Relative:**
**Lower**

**SHAWS 7422**
**485 WILLIAM SOUTH CANNING BLVD**
**FALL RIVER, MA 02722**

**MA HW GEN**

**S113410108**
**N/A**

Click here for full text details

**MA HW GEN**
State Generator Status VQG-MA
EPA Id MAV000012722

**27**
**SE**
**1/8-1/4**
**0.158 mi.**
**836 ft.**

**Relative:**
**Lower**

**DELKEN DRY CLEANERS**
**455 CANNING BLVD**
**FALL RIVER, MA 02721**

**RCRA NonGen / NLR**
**FINDS**
**ECHO**
**RI MANIFEST**

**1000268643**
**MAD985276773**

Click here for full text details

**RCRA NonGen / NLR**
EPA Id MAD985276773

**FINDS**
Registry ID: 110003489387

**ECHO**
Registry ID 110003489387

**RI MANIFEST**
EPA Id MAD985276773
Manifest Document Number RIG0246968

---

**28**
**SE**
**1/8-1/4**
**0.195 mi.**
**1030 ft.**

**Relative:**
**Lower**

**SHOPING PLAZA**
**416 WILLAM SOUTH CANNING BLVD**
**FALL RIVER, MA 02720**

**MA SHWS**
**MA RELEASE**

**S101856606**
**N/A**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0000629
Current Status LSPNFA

**MA RELEASE**
Release Tracking Number / Current Status 4-0000629 / LSPNFA

Click here to access the MA DEP site for this facility

---

**H29**
**North**
**1/8-1/4**
**0.206 mi.**
**1087 ft.**

**Relative:**
**Higher**

**BURLINGTON COAT FACTORY 752**
**181 MARIANO BISHOP BLVD**
**FALL RIVER, MA 02721**

**MA ASBESTOS**
**MA HW GEN**

**S118947625**
**N/A**

Click here for full text details

**MA HW GEN**
EPA Id MV5086750829

**H30**
**North**
**1/8-1/4**
**0.206 mi.**
**1087 ft.**

**Relative:**
**Higher**

**ZAYRE DEPT STORE #122**
**181 MARIANO S BISHOP BLVD**
**FALL RIVER, MA 02721**

**MA UST** **U003654326**
**N/A**

Click here for full text details

**MA UST**
Facility Id 3181
Tank Status Tank Removed

---

**I31**
**NNE**
**1/8-1/4**
**0.215 mi.**
**1133 ft.**

**Relative:**
**Higher**

**FORMER GAS STATION**
**130 WILLIAM S. CANNING BLVD**
**FALL RIVER, MA**

**MA SHWS** **S118421895**
**MA LUST** **N/A**
**MA RELEASE**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0025904
Current Status PSNC

**MA LUST**
Release Tracking Number / Current Status 4-0025904 / PSNC

Click here to access the MA DEP site for this facility

**MA RELEASE**
Release Tracking Number / Current Status 4-0025904 / PSNC

Click here to access the MA DEP site for this facility

---

**I32**
**NNE**
**1/8-1/4**
**0.215 mi.**
**1133 ft.**

**Relative:**
**Higher**

**SHELL-BRANDED GAS STATION**
**130 WILLIAM SOUTH CANNING BLVD**
**FALL RIVER, MA 02721**

**MA SHWS** **S108962922**
**MA RELEASE** **N/A**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0020924
Release Tracking Number 4-0021583
Current Status RAO
Current Status RAONR

**MA RELEASE**
Release Tracking Number / Current Status 4-0020924 / RAO
Release Tracking Number / Current Status 4-0021583 / RAONR

Click here to access the MA DEP site for this facility

**I33**
**NNE**
**1/8-1/4**
**0.215 mi.**
**1133 ft.**

**Relative:**
**Higher**

**SHELL #85 (SEASONS CORNER MARKET #85)**
**130 WILLIAM S CANNING BLVD**
**FALL RIVER, MA 02721**

**MA UST** **U003654336**
**N/A**

Click here for full text details

**MA UST**
Facility Id 3235
Tank Status Tank Removed
Tank Status In Use

---

**I34**
**NNE**
**1/8-1/4**
**0.215 mi.**
**1133 ft.**

**Relative:**
**Higher**

**SHELL 85**
**130 WILLIAM SOUTH CANNING BLVD**
**FALL RIVER, MA 02721**

**MA AST** **A100464543**
**N/A**

Click here for full text details

---

**J35**
**NNE**
**1/8-1/4**
**0.238 mi.**
**1256 ft.**

**Relative:**
**Higher**

**SALLY BEAUTY SUPPLY 10394**
**147 MARIANO BISHOP BLVD**
**FALL RIVER, MA 02721**

**RCRA-VSQG** **1024881534**
**MAR000519215**

Click here for full text details

**RCRA-VSQG**
EPA Id MAR000519215

---

**36**
**East**
**1/4-1/2**
**0.254 mi.**
**1341 ft.**

**Relative:**
**Lower**

**HARBOUR MALL**
**WILLIAM CANNING BLVD**
**FALL RIVER, MA 02720**

**MA SHWS** **S100828721**
**MA RELEASE** **N/A**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0000292
Current Status LSPNFA

**MA RELEASE**
Release Tracking Number / Current Status 4-0000292 / LSPNFA

Click here to access the MA DEP site for this facility

**J37**
**NNE**
**1/4-1/2**
**0.261 mi.**
**1377 ft.**

**Relative:**
**Higher**

**TEXACO** — **MA SHWS** **S102618631**
**130 CHANNING BLVD** — **MA RELEASE** **N/A**
**FALL RIVER, MA**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0012838
Current Status RAO

**MA RELEASE**
Release Tracking Number / Current Status 4-0012838 / RAO

Click here to access the MA DEP site for this facility

---

**38**
**NNE**
**1/4-1/2**
**0.272 mi.**
**1438 ft.**

**Relative:**
**Higher**

**COMMERCIAL PROPERTY** — **MA SHWS** **S128621493**
**80 WILLIAM S CANNING BOULEVARD** — **MA RELEASE** **N/A**
**FALL RIVER, MA 02721**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0029302
Current Status UNCLSS

**MA RELEASE**
Release Tracking Number / Current Status 4-0029302 / UNCLSS

Click here to access the MA DEP site for this facility

---

**39**
**North**
**1/4-1/2**
**0.307 mi.**
**1619 ft.**

**Relative:**
**Higher**

**FMR SHELL SERVICE STATION** — **MA SHWS** **S102088487**
**33 MARIANO BISHOP BLVD** — **MA RELEASE** **N/A**
**FALL RIVER, MA 02720**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0001062
Release Tracking Number 4-0011592
Current Status PSNC
Current Status RAONR

**MA RELEASE**
Release Tracking Number / Current Status 4-0001062 / PSNC
Release Tracking Number / Current Status 4-0011592 / RAONR

Click here to access the MA DEP site for this facility

**40**
**North**
**1/4-1/2**
**0.376 mi.**
**1985 ft.**

**Relative:**
**Lower**

**ADVANCE AUTO PARTS**
**234 TUCKER STREET**
**FALL RIVER, MA 02721**

**MA SHWS** **S110360938**
**MA RELEASE** **N/A**
**MA ASBESTOS**
**MA ENF**
**MA HW GEN**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0022670
Release Tracking Number 4-0022924
Release Tracking Number 4-0028266
Current Status DPS
Current Status RAONR
Current Status TIER1D

**MA RELEASE**
Release Tracking Number / Current Status 4-0022670 / DPS
Release Tracking Number / Current Status 4-0022924 / RAONR
Release Tracking Number / Current Status 4-0028266 / TIER1D

Click here to access the MA DEP site for this facility

**MA ENF**
Program Id 4-0022670

**MA HW GEN**
State Generator Status SQG-MA
EPA Id MAC300010857

---

**41**
**North**
**1/4-1/2**
**0.391 mi.**
**2064 ft.**

**Relative:**
**Lower**

**MOBIL STATION 01 240**
**408 RHODE ISLAND AVE**
**FALL RIVER, MA 02720**

**MA SHWS** **S101037755**
**MA LUST** **N/A**
**MA RELEASE**
**MA SPILLS**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0015806
Current Status RAONR

**MA LUST**
Release Tracking Number / Current Status 4-0001066 / RAO
Release Tracking Number / Current Status 4-0011706 / RAONR

Click here to access the MA DEP site for this facility

**MA RELEASE**
Release Tracking Number / Current Status 4-0001066 / RAO
Release Tracking Number / Current Status 4-0011706 / RAONR
Release Tracking Number / Current Status 4-0015806 / RAONR

Click here to access the MA DEP site for this facility

**MA SPILLS**

**MOBIL STATION 01 240 (Continued)** **S101037755**

Facility Id 0000
Case Closed YES
Spill ID S93-0414
Spill ID S92-0412
Spill ID S91-0297

---

**42**
**NNW**
**1/4-1/2**
**0.401 mi.**
**2115 ft.**

**Relative:**
**Higher**

**INTERSECTION** **MA SHWS** **S105810863**
**TUCKER AND LAUREL ST** **MA RELEASE** **N/A**
**FALL RIVER, MA**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0017566
Current Status RAO

**MA RELEASE**
Release Tracking Number / Current Status 4-0017566 / RAO

Click here to access the MA DEP site for this facility

---

**43**
**North**
**1/4-1/2**
**0.412 mi.**
**2174 ft.**

**Relative:**
**Lower**

**AUTOZONE AUTO PARTS** **MA SHWS** **S102618651**
**355 RHODE ISLAND AVENUE** **MA INST CONTROL** **N/A**
**FALL RIVER, MA 02720** **MA RELEASE**
**MA HW GEN**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0012883
Release Tracking Number 4-0028180
Current Status RAO
Current Status TIERII

**MA INST CONTROL**
Release Tracking Number 4-0012883

**MA RELEASE**
Release Tracking Number / Current Status 4-0012883 / RAO
Release Tracking Number / Current Status 4-0028180 / TIERII

Click here to access the MA DEP site for this facility

**MA HW GEN**
State Generator Status LQG-MA
EPA Id MAR000008078

**K44**
**ESE**
**1/4-1/2**
**0.465 mi.**
**2456 ft.**

**Relative:**
**Lower**

**BETWEEN NEPTUNE AND CAROLINE**
**254 CAROLINE ST**
**FALL RIVER, MA**

**MA SHWS** **S102087976**
**MA INST CONTROL** **N/A**
**MA RELEASE**
**MA ENF**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0010429
Current Status PSNC

**MA INST CONTROL**
Release Tracking Number 4-0010429

**MA RELEASE**
Release Tracking Number / Current Status 4-0010429 / PSNC

Click here to access the MA DEP site for this facility

**MA ENF**
Program Id 4-0010429

---

**K45**
**ESE**
**1/4-1/2**
**0.484 mi.**
**2555 ft.**

**Relative:**
**Lower**

**FR WEBBING MILLS FMR**
**272 CAROLINE ST**
**FALL RIVER, MA 02720**

**MA SHWS** **S105200491**
**MA RELEASE** **N/A**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0001279
Current Status RAO

**MA RELEASE**
Release Tracking Number / Current Status 4-0001279 / RAO

Click here to access the MA DEP site for this facility

---

**46**
**NNW**
**1/2-1**
**0.525 mi.**
**2773 ft.**

**Relative:**
**Higher**

**VACANT LOT**
**STAR AND BATES ST**
**FALL RIVER, MA**

**MA SHWS** **S107678441**
**MA RELEASE** **N/A**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0019684
Current Status RAO

**MA RELEASE**
Release Tracking Number / Current Status 4-0019684 / RAO

Click here to access the MA DEP site for this facility

**47**
**NNW**
**1/2-1**
**0.570 mi.**
**3012 ft.**

**Relative:**
**Higher**

**NO LOCATION AID**
**65 TOWER ST**
**FALL RIVER, MA**

**MA SHWS** **S107678277**
**MA LAST** **N/A**
**MA RELEASE**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0019695
Current Status RAO

**MA LAST**
Release Tracking Number / Current Status 4-0019903 / RAO

**MA RELEASE**
Release Tracking Number / Current Status 4-0019695 / RAO
Release Tracking Number / Current Status 4-0019903 / RAO

Click here to access the MA DEP site for this facility

---

**48**
**ESE**
**1/2-1**
**0.572 mi.**
**3020 ft.**

**Relative:**
**Lower**

**CORNER LARK ST**
**42 ESTES LN**
**FALL RIVER, MA**

**MA SHWS** **S105736008**
**MA RELEASE** **N/A**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0017547
Current Status RAO

**MA RELEASE**
Release Tracking Number / Current Status 4-0017547 / RAO

Click here to access the MA DEP site for this facility

---

**49**
**NE**
**1/2-1**
**0.623 mi.**
**3289 ft.**

**Relative:**
**Higher**

**STAFFORD RD**
**CHICAGO ST**
**FALL RIVER, MA**

**MA SHWS** **S104482756**
**MA RELEASE** **N/A**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0015277
Current Status RAO

**MA RELEASE**
Release Tracking Number / Current Status 4-0015277 / RAO

Click here to access the MA DEP site for this facility

**50**
**SE**
**1/2-1**
**0.628 mi.**
**3316 ft.**

**Relative:**
**Higher**

**7 ELEVEN**
**1099 WILLIAM S CANNING BLVD**
**FALL RIVER, MA 02721**

**MA SHWS** **S120630498**
**MA RELEASE** **N/A**
**MA HW GEN**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0026677
Current Status PSNC

**MA RELEASE**
Release Tracking Number / Current Status 4-0026677 / PSNC

Click here to access the MA DEP site for this facility

**MA HW GEN**
EPA Id MAR000616037

---

**51**
**NE**
**1/2-1**
**0.640 mi.**
**3381 ft.**

**Relative:**
**Higher**

**SAINT WILLIAMS RECTORY**
**50 CHICAGO ST**
**FALL RIVER, MA**

**MA SHWS** **S109489838**
**MA RELEASE** **N/A**
**MA ASBESTOS**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0021517
Current Status RAO

**MA RELEASE**
Release Tracking Number / Current Status 4-0021517 / RAO

Click here to access the MA DEP site for this facility

---

**52**
**North**
**1/2-1**
**0.749 mi.**
**3955 ft.**

**Relative:**
**Lower**

**FMR GASOLINE STATION**
**1495 PLYMOUTH AVE**
**FALL RIVER, MA**

**MA SHWS** **S114004862**
**MA LUST** **N/A**
**MA INST CONTROL**
**MA RELEASE**
**MA ASBESTOS**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0024738
Current Status PSC

**MA LUST**
Release Tracking Number / Current Status 4-0024738 / PSC

Click here to access the MA DEP site for this facility

**MA INST CONTROL**
Release Tracking Number 4-0024738

**FMR GASOLINE STATION (Continued)** **S114004862**

**MA RELEASE**
Release Tracking Number / Current Status 4-0024738 / PSC

Click here to access the MA DEP site for this facility

---

**53**
**East**
**1/2-1**
**0.788 mi.**
**4160 ft.**

**Relative:**
**Lower**

**LEEMING A H & SONS INC**
**994 JEFFERSON ST**
**FALL RIVER, MA 02721**

**MA SHWS** **S101020397**
**MA RELEASE** **N/A**
**MA SPILLS**
**MA HW GEN**

**Click here for full text details**

**MA SHWS**
Release Tracking Number 4-0000330
Release Tracking Number 4-0015253
Release Tracking Number 4-0015297
Current Status DEPNFA
Current Status PSC

**MA RELEASE**
Release Tracking Number / Current Status 4-0000330 / DEPNFA
Release Tracking Number / Current Status 4-0015253 / PSC
Release Tracking Number / Current Status 4-0015297 / PSC

Click here to access the MA DEP site for this facility

**MA SPILLS**
Facility Id 0000
Case Closed YES
Spill ID S87-0438
Spill ID S90-0558

**MA HW GEN**
EPA Id MAD982196230

---

**54**
**NNW**
**1/2-1**
**0.792 mi.**
**4181 ft.**

**Relative:**
**Lower**

**SOUTH POND ICE & FUEL COMPANY**
**1139 SLADE ST**
**FALL RIVER, MA 02724**

**MA SHWS** **U003654330**
**MA LUST** **N/A**
**MA UST**
**MA RELEASE**

**Click here for full text details**

**MA SHWS**
Release Tracking Number 4-0026061
Current Status PSNC

**MA LUST**
Release Tracking Number / Current Status 4-0026061 / PSNC

Click here to access the MA DEP site for this facility

**SOUTH POND ICE & FUEL COMPANY (Continued)** **U003654330**

**MA UST**
Facility Id 3212
Tank Status Tank Removed

**MA RELEASE**
Release Tracking Number / Current Status 4-0026061 / PSNC

Click here to access the MA DEP site for this facility

---

**55**
**NNE**
**1/2-1**
**0.793 mi.**
**4186 ft.**

**Relative:**
**Higher**

**PROPERTY** **MA SHWS** **S109546234**
**440 STAFFORD RD** **MA RELEASE** **N/A**
**FALL RIVER, MA 02721** **MA HW GEN**

**Click here for full text details**

**MA SHWS**
Release Tracking Number 4-0021772
Current Status URAM

**MA RELEASE**
Release Tracking Number / Current Status 4-0021772 / URAM

Click here to access the MA DEP site for this facility

**MA HW GEN**
EPA Id MV5083249466

---

**56**
**North**
**1/2-1**
**0.795 mi.**
**4196 ft.**

**Relative:**
**Lower**

**MIDAS FALL RIVEER** **MA SHWS** **S112551695**
**1439 PLYMOUTH AVENUE** **MA INST CONTROL** **N/A**
**FALL RIVER, MA 02722** **MA RELEASE**
**MA HW GEN**

**Click here for full text details**

**MA SHWS**
Release Tracking Number 4-0025526
Release Tracking Number 4-0026144
Release Tracking Number 4-0026000
Current Status PSC
Current Status RAONR

**MA INST CONTROL**
Release Tracking Number 4-0025526
Release Tracking Number 4-0026000
Release Tracking Number 4-0026144

**MA RELEASE**
Release Tracking Number / Current Status 4-0025526 / PSC

**MIDAS FALL RIVEER (Continued)** **S112551695**

Release Tracking Number / Current Status 4-0026000 / RAONR
Release Tracking Number / Current Status 4-0026144 / RAONR

Click here to access the MA DEP site for this facility

**MA HW GEN**
State Generator Status VQG-MA
State Generator Status SQG-MA
EPA Id MAR000575290
EPA Id MAD080818933

---

**L57**
**NW**
**1/2-1**
**0.829 mi.**
**4377 ft.**

**Relative: Higher**

**KING PHILIP MILL** **MA SHWS** **S117405726**
**386 KILBURN STREET** **MA RELEASE** **N/A**
**FALL RIVER, MA 02724**

**Click here for full text details**

**MA SHWS**
Release Tracking Number 4-0026507
Current Status TIERII

**MA RELEASE**
Release Tracking Number / Current Status 4-0026507 / TIERII

Click here to access the MA DEP site for this facility

---

**58**
**NNW**
**1/2-1**
**0.834 mi.**
**4402 ft.**

**Relative: Lower**

**SLADE LAUNDRY INC** **MA SHWS** **1000185585**
**1068 SLADE ST.** **MA UST** **MAD019357573**
**FALL RIVER, MA 02724** **MA BROWNFIELDS**
**MA RELEASE**
**RCRA NonGen / NLR**
**US AIRS**
**FINDS**
**ECHO**
**MA ASBESTOS**
**MA ENF**
**RI MANIFEST**

**Click here for full text details**

**MA SHWS**
Release Tracking Number 4-0023498
Current Status TIER1D

**MA UST**
Facility Id 3178
Tank Status Tank Removed

**MA BROWNFIELDS**
MCP Status TIER1D
RTN 4-0023498

**MA RELEASE**

**SLADE LAUNDRY INC (Continued)** **1000185585**

Release Tracking Number / Current Status 4-0023498 / TIER1D

Click here to access the MA DEP site for this facility

**RCRA NonGen / NLR**
EPA Id MAD019357573

**US AIRS**
EPA plant ID: 110001944273

**FINDS**
Registry ID: 110001944273

**ECHO**
Registry ID 110001944273

**MA ENF**
Program Id 4-0023498

**RI MANIFEST**
EPA Id MAD019357573
Manifest Document Number RIG0202057

---

**L59** **TILLY REALTY ASSOCIATES PROPERTY** **MA SHWS** **S104774411**
**NNW** **358 KILBURN ST** **MA LAST** **N/A**
**1/2-1** **FALL RIVER, MA** **MA RELEASE**
**0.838 mi.**
**4425 ft.**

**Relative:**
**Higher**

**Click here for full text details**

**MA SHWS**
Release Tracking Number 4-0015730
Release Tracking Number 4-0015725
Release Tracking Number 4-0015731
Current Status RAO
Current Status RAONR

**MA LAST**
Release Tracking Number / Current Status 4-0015731 / RAONR

**MA RELEASE**
Release Tracking Number / Current Status 4-0015725 / RAO
Release Tracking Number / Current Status 4-0015730 / RAO
Release Tracking Number / Current Status 4-0015731 / RAONR

Click here to access the MA DEP site for this facility

**60**
**WNW**
**1/2-1**
**0.847 mi.**
**4471 ft.**

**Relative:**
**Higher**

**NEW ENGLAND ELECTROPOLISHING CO INC**
**220 SHOVE ST**
**FALL RIVER, MA 02724**

**MA SHWS** **S102404071**
**MA RELEASE** **N/A**
**MA HW GEN**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0012382
Current Status RAO

**MA RELEASE**
Release Tracking Number / Current Status 4-0012382 / RAO

Click here to access the MA DEP site for this facility

**MA HW GEN**
State Generator Status LQG-MA
EPA Id MAR000509083

---

**61**
**WNW**
**1/2-1**
**0.852 mi.**
**4501 ft.**

**Relative:**
**Higher**

**NO LOCATION AID**
**109 HOWE ST**
**FALL RIVER, MA 02724**

**MA SHWS** **S101027061**
**MA INST CONTROL** **N/A**
**MA SPILLS**
**MA RELEASE**
**MA AIRS**
**MA ASBESTOS**
**MA HW GEN**
**MA UIC**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0013573
Release Tracking Number 4-0018547
Release Tracking Number 4-0014540
Release Tracking Number 4-0015886
Release Tracking Number 4-0011375
Current Status RAO
Current Status RAONR
Current Status TIERII

**MA INST CONTROL**
Release Tracking Number 4-0013573

**MA SPILLS**
Facility Id 0000
Case Closed YES
Spill ID S87-0103

**MA RELEASE**
Release Tracking Number / Current Status 4-0011375 / TIERII
Release Tracking Number / Current Status 4-0013573 / RAO
Release Tracking Number / Current Status 4-0014540 / RAONR
Release Tracking Number / Current Status 4-0015886 / RAONR
Release Tracking Number / Current Status 4-0018547 / RAONR

**NO LOCATION AID (Continued)** **S101027061**

Click here to access the MA DEP site for this facility

**MA HW GEN**
State Generator Status SQG-MA
EPA Id MAD055178339

---

**62**
**North**
**1/2-1**
**0.859 mi.**
**4535 ft.**

**Relative:**
**Lower**

**POLE 43** **MA SHWS** **S105735798**
**903 GLOBE ST** **MA RELEASE** **N/A**
**FALL RIVER, MA**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0017403
Current Status RAO

**MA RELEASE**
Release Tracking Number / Current Status 4-0017403 / RAO

Click here to access the MA DEP site for this facility

---

**63**
**NNW**
**1/2-1**
**0.880 mi.**
**4645 ft.**

**Relative:**
**Lower**

**COMMERCIAL PROPERTY** **MA SHWS** **S112552762**
**851 GLOBE STREET** **MA LUST** **N/A**
**FALL RIVER, MA 02724** **MA RELEASE**
**MA HW GEN**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0028872
Release Tracking Number 4-0029008
Current Status TIERII
Current Status RAONR

**MA LUST**
Release Tracking Number / Current Status 4-0029008 / RAONR
Release Tracking Number / Current Status 4-0028872 / TIERII

Click here to access the MA DEP site for this facility

**MA RELEASE**
Release Tracking Number / Current Status 4-0028872 / TIERII
Release Tracking Number / Current Status 4-0029008 / RAONR

Click here to access the MA DEP site for this facility

**MA HW GEN**
State Generator Status VQG-MA
EPA Id MAD981892318

**64**
**WNW**
**1/2-1**
**0.894 mi.**
**4719 ft.**

**Relative:**
**Higher**

**JENSON MFG CO INC**
**126 SHOVE ST**
**FALL RIVER, MA 02724**

**MA SHWS**
**MA LAST**
**MA RELEASE**

**S102088669**
**N/A**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0011941
Current Status RAO

**MA LAST**
Release Tracking Number / Current Status 4-0011941 / RAO

**MA RELEASE**
Release Tracking Number / Current Status 4-0011941 / RAO

Click here to access the MA DEP site for this facility

---

**65**
**WSW**
**1/2-1**
**0.900 mi.**
**4751 ft.**

**Relative:**
**Higher**

**NATIONAL GRID CANONICUS STREET SUBSTATION**
**421 CANONICUS STREET**
**TIVERTON, RI**

**RI SHWS**

**S109362935**
**N/A**

Click here for full text details

**RI SHWS**
Facility Status Inactive
Project Code NECA-HWM
Siterem Site Number SR-33-0871

---

**66**
**West**
**1/2-1**
**0.902 mi.**
**4760 ft.**

**Relative:**
**Higher**

**MCGOVERNS FALMILY RESTURANT**
**310 SHOVE ST**
**FALL RIVER, MA**

**MA SHWS**
**MA RELEASE**

**S106513508**
**N/A**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0018431
Current Status RAO

**MA RELEASE**
Release Tracking Number / Current Status 4-0018431 / RAO

Click here to access the MA DEP site for this facility

**67**
**North**
**1/2-1**
**0.902 mi.**
**4761 ft.**

**Relative:**
**Higher**

**PLYMOUTH AVE**
**FRANCIS ST**
**FALL RIVER, MA**

**MA SHWS** **S106617664**
**MA RELEASE** **N/A**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0018524
Current Status URAM

**MA RELEASE**
Release Tracking Number / Current Status 4-0018524 / URAM

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---

**68**
**WNW**
**1/2-1**
**0.923 mi.**
**4876 ft.**

**Relative:**
**Higher**

**SUNOCO SERVICE STA**
**2322 SOUTH MAIN ST**
**FALL RIVER, MA 02720**

**MA SHWS** **S104000682**
**MA LUST** **N/A**
**MA RELEASE**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0000564
Current Status RAO

**MA LUST**
Release Tracking Number / Current Status 4-0014702 / RAO

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**MA RELEASE**
Release Tracking Number / Current Status 4-0000564 / RAO
Release Tracking Number / Current Status 4-0014702 / RAO

Click here to access the MA DEP site for this facility

---

**69**
**NW**
**1/2-1**
**0.926 mi.**
**4890 ft.**

**Relative:**
**Higher**

**COMMERCIAL PROPERTY**
**2001 & 2031 SOUTH MAIN STREET**
**FALL RIVER, MA 02724**

**MA SHWS** **S111989512**
**MA RELEASE** **N/A**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0023940
Current Status RAO

**MA RELEASE**
Release Tracking Number / Current Status 4-0023940 / RAO

Click here to access the MA DEP site for this facility

**70**
**West**
**1/2-1**
**0.931 mi.**
**4915 ft.**

**Relative:**
**Higher**

**BOURNE MILLS/DIXIE WAREHOUSE**
**1 SHOVE STREET**
**TIVERTON, RI**

**RI SHWS** **S105857083**
**RI SPILLS** **N/A**

Click here for full text details

**RI SHWS**
Facility Status Inactive
Project Code BORD-HWM
Siterem Site Number SR-33-0146

**RI SPILLS**
Report Number 177

---

**71**
**WNW**
**1/2-1**
**0.943 mi.**
**4981 ft.**

**Relative:**
**Higher**

**GETTY SERVICE STATION**
**2291 SOUTH MAIN ST**
**FALL RIVER, MA**

**MA SHWS** **S101856622**
**MA LUST** **N/A**
**MA INST CONTROL**
**MA RELEASE**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0000786
Current Status RAO

**MA LUST**
Release Tracking Number / Current Status 4-0000786 / TIERII

Click here to access the MA DEP site for this facility

**MA INST CONTROL**
Release Tracking Number 4-0000786

**MA RELEASE**
Release Tracking Number / Current Status 4-0000786 / RAO

Click here to access the MA DEP site for this facility

---

**72**
**NNW**
**1/2-1**
**0.962 mi.**
**5077 ft.**

**Relative:**
**Lower**

**RETAIL TIRE SALES**
**714 GLOBE STREET**
**FALL RIVER, MA 02724**

**MA SHWS** **S112554772**
**MA LUST** **N/A**
**MA RELEASE**
**MA HW GEN**

Click here for full text details

**MA SHWS**
Release Tracking Number 4-0025730
Current Status PSNC

**MA LUST**
Release Tracking Number / Current Status 4-0025730 / PSNC

**RETAIL TIRE SALES (Continued)** **S112554772**

Click here to access the MA DEP site for this facility

**MA RELEASE**
Release Tracking Number / Current Status 4-0025730 / PSNC

Click here to access the MA DEP site for this facility

**MA HW GEN**
EPA Id MAV000005532

---

**73**
**NNE**
**1/2-1**
**0.974 mi.**
**5142 ft.**

**Relative: Higher**

**GROUND EARTH INC** **MA SHWS** **U000230651**
**232 LAPHAM ST** **MA LAST** **N/A**
**FALL RIVER, MA 02720** **MA UST**
**MA INST CONTROL**
**MA RELEASE**
**MA Financial Assurance**

**Click here for full text details**

**MA SHWS**
Release Tracking Number 4-0025064
Release Tracking Number 4-0025518
Current Status PSC
Current Status RAONR

**MA LAST**
Release Tracking Number / Current Status 4-0025064 / PSC

**MA UST**
Facility Id 3194
Tank Status Tank Removed

**MA INST CONTROL**
Release Tracking Number 4-0025064

**MA RELEASE**
Release Tracking Number / Current Status 4-0025064 / PSC
Release Tracking Number / Current Status 4-0025518 / RAONR

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**74**
**NE**
**1/2-1**
**0.990 mi.**
**5227 ft.**

**Relative: Lower**

**CITYWIDE AUTO GLASS** **MA SHWS** **S101023096**
**443 BRAYTON AVE** **MA RELEASE** **N/A**
**FALL RIVER, MA 02721** **MA SPILLS**

**Click here for full text details**

**MA SHWS**
Release Tracking Number 4-0015200

**CITYWIDE AUTO GLASS (Continued)** **S101023096**

Current Status RAO

**MA RELEASE**
Release Tracking Number / Current Status 4-0015200 / RAO

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**MA SPILLS**
Facility Id 0000
Case Closed YES
Spill ID S89-0277

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**M75** **FORMER HEALY SCHOOL** **MA SHWS** **S122955963**
**NW** **726 HICKS STREET** **MA RELEASE** **N/A**
**1/2-1** **FALL RIVER, MA** **MA ASBESTOS**
**0.993 mi.**
**5243 ft.**

**Relative: Higher**

**Click here for full text details**

**MA SHWS**
Release Tracking Number 4-0027582
Current Status ADQREG

**MA RELEASE**
Release Tracking Number / Current Status 4-0027582 / ADQREG

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**M76** **VACANT BUILDING / FORMER SCHOOL** **MA SHWS** **S118337425**
**NW** **726 HICKS STREET** **MA LUST** **N/A**
**1/2-1** **FALL RIVER, MA 02721** **MA RELEASE**
**0.993 mi.**
**5243 ft.**

**Relative: Higher**

**Click here for full text details**

**MA SHWS**
Release Tracking Number 4-0025761
Current Status PSNC

**MA LUST**
Release Tracking Number / Current Status 4-0025761 / PSNC

Click here to access the MA DEP site for this facility

**MA RELEASE**
Release Tracking Number / Current Status 4-0025761 / PSNC

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# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

| St | Acronym | Full Name | Government Agency | Gov Date | Arvl. Date | Active Date |
|---|---|---|---|---|---|---|
| MA | AIRS | Permitted Facilities Listing | Department of Environmental Protection | 01/12/2023 | 01/13/2023 | 03/30/2023 |
| MA | ASBESTOS | Asbestos Notification Listing | Department of Environmental Protection | 11/16/2022 | 11/17/2022 | 02/13/2023 |
| MA | AST | Aboveground Storage Tank Database | Department of Public Safety | 12/16/2022 | 01/10/2023 | 03/06/2023 |
| MA | AST 2 | Aboveground Storage Tanks | Department of Fire Services | 01/09/2023 | 01/12/2023 | 03/30/2023 |
| MA | BROWNFIELDS | Completed Brownfields Covenants Listing | Office of the Attorney General | 04/05/2017 | 08/03/2017 | 10/10/2017 |
| MA | BROWNFIELDS 2 | Potential Brownfields Listing | Department of Environmental Protection | 12/03/2019 | 01/29/2021 | 04/21/2021 |
| MA | DRYCLEANERS | Regulated Drycleaning Facilities | Department of Environmental Protection | 12/07/2022 | 12/13/2022 | 01/12/2023 |
| MA | ENFORCEMENT | Enforcement Action Cases | Department of Environmental Quality | 01/09/2023 | 01/10/2023 | 01/12/2023 |
| MA | Financial Assurance 1 | Financial Assurance Information Listing | Department of Environmental Protection | 12/01/2010 | 12/23/2010 | 02/03/2011 |
| MA | Financial Assurance 2 | Financial Assurance Information Listing | Office of State Fire Marshal | 01/11/2023 | 01/12/2023 | 03/06/2023 |
| MA | Financial Assurance 3 | Financial Assurance Information listing | Department of Environmental Protection | 10/24/2022 | 01/12/2023 | 03/07/2023 |
| MA | GWDP | Ground Water Discharge Permits | MassGIS | 11/03/2022 | 01/24/2023 | 04/12/2023 |
| MA | HW GEN | List of Massachusetts Hazardous Waste Generators | Department of Environmental Protection | 11/18/2022 | 12/14/2022 | 03/06/2023 |
| MA | INST CONTROL | Sites With Activity and Use Limitation | Department of Environmental Protection | 01/08/2023 | 01/19/2023 | 03/21/2023 |
| MA | LAST | Leaking Aboveground Storage Tank Sites | Department of Environmental Protection | 01/08/2023 | 01/19/2023 | 03/21/2023 |
| MA | LF PROFILES | Landfill Profiles Listing | Department of Environmental Protection | 07/01/2015 | 10/27/2015 | 12/14/2015 |
| MA | LIENS | Liens Information Listing | Department of Environmental Protection | 03/07/2018 | 03/09/2018 | 06/21/2018 |
| MA | LUST | Leaking Underground Storage Tank Listing | Department of Environmental Protection | 01/08/2023 | 01/19/2023 | 03/21/2023 |
| MA | MA SPILLS | Historical Spill List | Department of Environmental Protection | 09/30/1993 | 12/03/2003 | 12/31/2003 |
| MA | MERCURY | Mercury Product Recyling Drop-Off Locations Listing | Department of Environmental Protection | 09/26/2022 | 09/26/2022 | 12/09/2022 |
| MA | NPDES | NPDES Permit Listing | Department of Environmental Protection | 12/16/2022 | 02/07/2023 | 02/14/2023 |
| MA | PFAS | PFAS Contaminated Sites Listing | Department of Environmental Protection | 12/09/2022 | 12/12/2022 | 03/06/2023 |
| MA | RELEASE | Reportable Releases | Department of Environmental Protection | 01/08/2023 | 01/19/2023 | 03/21/2023 |
| MA | RGA HWS | Recovered Government Archive State Hazardous Waste Facilitie | Department of Environmental Protection | | 07/01/2013 | 12/24/2013 |
| MA | RGA LUST | Recovered Government Archive Leaking Underground Storage Tan | Department of Environmental Protection | | 07/01/2013 | 12/24/2013 |
| MA | SHWS | Site Transition List | Department of Environmental Protection | 01/08/2023 | 01/19/2023 | 03/21/2023 |
| MA | SPILLS 80 | SPILLS80 data from FirstSearch | FirstSearch | 03/10/1998 | 01/03/2013 | 03/05/2013 |
| MA | SPILLS 90 | SPILLS90 data from FirstSearch | FirstSearch | 12/11/2012 | 01/03/2013 | 02/08/2013 |
| MA | SWF/LF | Solid Waste Facility Database/Transfer Stations | Department of Environmental Protection | 05/02/2022 | 05/03/2022 | 07/22/2022 |
| MA | TIER 2 | Tier 2 Information Listing | Massachusetts Emergency Management Agency | 12/31/2019 | 07/19/2021 | 08/17/2021 |
| MA | TSD | TSD Facility | Department of Environmental Protection | 11/18/2022 | 12/14/2022 | 03/06/2023 |
| MA | UIC | Underground Injection Control Listing | Department of Environmental Protection | 03/10/2022 | 03/15/2022 | 06/10/2022 |
| MA | UST | Summary Listing of all the Tanks Registered in the State of | Department of Fire Services, Office of the Pu | 01/11/2023 | 01/12/2023 | 03/06/2023 |
| US | 2020 COR ACTION | 2020 Corrective Action Program List | Environmental Protection Agency | 09/30/2017 | 05/08/2018 | 07/20/2018 |
| US | ABANDONED MINES | Abandoned Mines | Department of Interior | 12/20/2022 | 12/20/2022 | 03/10/2023 |
| RI | AIRS | Air Emissions Listing | Department of Environmental Management | 12/31/2021 | 07/14/2022 | 10/06/2022 |
| RI | AQUEOUS FOAM | Firefighting foam listed as the material released, as report | Department of Environmental Management | 10/31/2022 | 01/31/2023 | 04/21/2023 |
| US | AQUEOUS FOAM NRC | Aqueous Foam Related Incidents Listing | Environmental Protection Agency | 04/27/2023 | 04/27/2023 | 05/02/2023 |
| RI | ASBESTOS | Asbestos Notification Listing | Department of Health | 01/17/2023 | 01/18/2023 | 01/25/2023 |
| RI | AST | Aboveground Storage Tanks | Department of Environmental Management | 07/08/2022 | 08/02/2022 | 10/20/2022 |
| RI | BROWNFIELDS | Brownfields Site List | Department of Environmental Management | 03/06/2023 | 04/05/2023 | 05/02/2023 |
| US | BRS | Biennial Reporting System | EPA/NTIS | 12/31/2021 | 03/09/2023 | 03/20/2023 |
| US | COAL ASH DOE | Steam-Electric Plant Operation Data | Department of Energy | 12/31/2020 | 11/30/2021 | 02/22/2022 |
| US | COAL ASH EPA | Coal Combustion Residues Surface Impoundments List | Environmental Protection Agency | 01/12/2017 | 03/05/2019 | 11/11/2019 |
| US | CONSENT | Superfund (CERCLA) Consent Decrees | Department of Justice, Consent Decree Library | 12/31/2022 | 01/12/2023 | 04/07/2023 |
| US | CORRACTS | Corrective Action Report | EPA | 03/06/2023 | 03/09/2023 | 03/20/2023 |
| US | DEBRIS REGION 9 | Torres Martinez Reservation Illegal Dump Site Locations | EPA, Region 9 | 01/12/2009 | 05/07/2009 | 09/21/2009 |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

| St | Acronym | Full Name | Government Agency | Gov Date | Arvl. Date | Active Date |
|---|---|---|---|---|---|---|
| US | DOCKET HWC | Hazardous Waste Compliance Docket Listing | Environmental Protection Agency | 05/06/2021 | 05/21/2021 | 08/11/2021 |
| US | DOD | Department of Defense Sites | USGS | 06/07/2021 | 07/13/2021 | 03/09/2022 |
| US | DOT OPS | Incident and Accident Data | Department of Transporation, Office of Pipeli | 01/02/2020 | 01/28/2020 | 04/17/2020 |
| RI | DRYCLEANERS | Drycleaner Facility Listing | Department of Environmental Management | 12/31/2021 | 04/19/2022 | 07/14/2022 |
| US | Delisted NPL | National Priority List Deletions | EPA | 01/25/2023 | 02/02/2023 | 02/28/2023 |
| US | ECHO | Enforcement & Compliance History Information | Environmental Protection Agency | 01/01/2023 | 01/04/2023 | 04/03/2023 |
| US | EDR Hist Auto | EDR Exclusive Historical Auto Stations | EDR, Inc. | | | |
| US | EDR Hist Cleaner | EDR Exclusive Historical Cleaners | EDR, Inc. | | | |
| US | EDR MGP | EDR Proprietary Manufactured Gas Plants | EDR, Inc. | | | |
| US | EPA WATCH LIST | EPA WATCH LIST | Environmental Protection Agency | 08/30/2013 | 03/21/2014 | 06/17/2014 |
| US | ERNS | Emergency Response Notification System | National Response Center, United States Coast | 12/12/2022 | 12/14/2022 | 12/19/2022 |
| US | FEDERAL FACILITY | Federal Facility Site Information listing | Environmental Protection Agency | 12/20/2022 | 12/21/2022 | 03/10/2023 |
| US | FEDLAND | Federal and Indian Lands | U.S. Geological Survey | 04/02/2018 | 04/11/2018 | 11/06/2019 |
| US | FEMA UST | Underground Storage Tank Listing | FEMA | 10/14/2021 | 11/05/2021 | 02/01/2022 |
| US | FINDS | Facility Index System/Facility Registry System | EPA | 02/02/2023 | 02/28/2023 | 03/24/2023 |
| US | FTTS | FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu | EPA/Office of Prevention, Pesticides and Toxi | 04/09/2009 | 04/16/2009 | 05/11/2009 |
| US | FTTS INSP | FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu | EPA | 04/09/2009 | 04/16/2009 | 05/11/2009 |
| US | FUDS | Formerly Used Defense Sites | U.S. Army Corps of Engineers | 02/01/2023 | 02/14/2023 | 05/02/2023 |
| US | FUELS PROGRAM | EPA Fuels Program Registered Listing | EPA | 02/13/2023 | 02/14/2023 | 04/19/2023 |
| US | FUSRAP | Formerly Utilized Sites Remedial Action Program | Department of Energy | 07/26/2021 | 07/27/2021 | 10/22/2021 |
| RI | Financial Assurance | Financial Assurance Information | Department of Environmental Management | 05/19/2014 | 05/20/2014 | 06/24/2014 |
| US | HIST FTTS | FIFRA/TSCA Tracking System Administrative Case Listing | Environmental Protection Agency | 10/19/2006 | 03/01/2007 | 04/10/2007 |
| US | HIST FTTS INSP | FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis | Environmental Protection Agency | 10/19/2006 | 03/01/2007 | 04/10/2007 |
| US | HMIRS | Hazardous Materials Information Reporting System | U.S. Department of Transportation | 12/13/2022 | 12/14/2022 | 03/10/2023 |
| US | ICIS | Integrated Compliance Information System | Environmental Protection Agency | 11/18/2016 | 11/23/2016 | 02/10/2017 |
| US | IHS OPEN DUMPS | Open Dumps on Indian Land | Department of Health & Human Serivces, Indian | 04/01/2014 | 08/06/2014 | 01/29/2015 |
| US | INDIAN LUST R1 | Leaking Underground Storage Tanks on Indian Land | EPA Region 1 | 10/19/2022 | 12/06/2022 | 03/03/2023 |
| US | INDIAN LUST R10 | Leaking Underground Storage Tanks on Indian Land | EPA Region 10 | 11/23/2022 | 12/06/2022 | 04/19/2023 |
| US | INDIAN LUST R4 | Leaking Underground Storage Tanks on Indian Land | EPA Region 4 | 11/26/2022 | 12/06/2022 | 03/03/2023 |
| US | INDIAN LUST R5 | Leaking Underground Storage Tanks on Indian Land | EPA, Region 5 | 10/14/2022 | 12/06/2022 | 03/03/2023 |
| US | INDIAN LUST R6 | Leaking Underground Storage Tanks on Indian Land | EPA Region 6 | 11/23/2022 | 12/06/2022 | 03/03/2023 |
| US | INDIAN LUST R7 | Leaking Underground Storage Tanks on Indian Land | EPA Region 7 | 10/14/2022 | 12/06/2022 | 03/03/2023 |
| US | INDIAN LUST R8 | Leaking Underground Storage Tanks on Indian Land | EPA Region 8 | 11/23/2022 | 12/06/2022 | 03/03/2023 |
| US | INDIAN LUST R9 | Leaking Underground Storage Tanks on Indian Land | Environmental Protection Agency | 11/23/2022 | 12/06/2022 | 03/03/2023 |
| US | INDIAN ODI | Report on the Status of Open Dumps on Indian Lands | Environmental Protection Agency | 12/31/1998 | 12/03/2007 | 01/24/2008 |
| US | INDIAN RESERV | Indian Reservations | USGS | 12/31/2014 | 07/14/2015 | 01/10/2017 |
| US | INDIAN UST R1 | Underground Storage Tanks on Indian Land | EPA, Region 1 | 10/19/2022 | 12/06/2022 | 03/03/2023 |
| US | INDIAN UST R10 | Underground Storage Tanks on Indian Land | EPA Region 10 | 11/23/2022 | 12/06/2022 | 04/19/2023 |
| US | INDIAN UST R4 | Underground Storage Tanks on Indian Land | EPA Region 4 | 11/23/2022 | 12/06/2022 | 03/03/2023 |
| US | INDIAN UST R5 | Underground Storage Tanks on Indian Land | EPA Region 5 | 10/14/2022 | 12/06/2022 | 03/03/2023 |
| US | INDIAN UST R6 | Underground Storage Tanks on Indian Land | EPA Region 6 | 11/23/2022 | 12/06/2022 | 03/03/2023 |
| US | INDIAN UST R7 | Underground Storage Tanks on Indian Land | EPA Region 7 | 10/14/2022 | 12/06/2022 | 03/03/2023 |
| US | INDIAN UST R8 | Underground Storage Tanks on Indian Land | EPA Region 8 | 11/23/2022 | 12/06/2022 | 03/03/2023 |
| US | INDIAN UST R9 | Underground Storage Tanks on Indian Land | EPA Region 9 | 11/23/2022 | 12/06/2022 | 03/03/2023 |
| US | INDIAN VCP R1 | Voluntary Cleanup Priority Listing | EPA, Region 1 | 07/27/2015 | 09/29/2015 | 02/18/2016 |
| US | INDIAN VCP R7 | Voluntary Cleanup Priority Lisitng | EPA, Region 7 | 03/20/2008 | 04/22/2008 | 05/19/2008 |
| US | LEAD SMELTER 1 | Lead Smelter Sites | Environmental Protection Agency | 01/25/2023 | 02/02/2023 | 02/28/2023 |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

| St | Acronym | Full Name | Government Agency | Gov Date | Arvl. Date | Active Date |
|---|---|---|---|---|---|---|
| US | LEAD SMELTER 2 | Lead Smelter Sites | American Journal of Public Health | 04/05/2001 | 10/27/2010 | 12/02/2010 |
| US | LIENS 2 | CERCLA Lien Information | Environmental Protection Agency | 01/25/2023 | 02/02/2023 | 02/28/2023 |
| US | LUCIS | Land Use Control Information System | Department of the Navy | 02/08/2023 | 02/09/2023 | 05/02/2023 |
| RI | LUST | LUST Case List | Department of Environmental Management | 12/01/2022 | 01/04/2023 | 03/23/2023 |
| US | MINES MRDS | Mineral Resources Data System | USGS | 08/23/2022 | 11/22/2022 | 02/28/2023 |
| US | MINES VIOLATIONS | MSHA Violation Assessment Data | DOL, Mine Safety & Health Admi | 02/27/2023 | 03/01/2023 | 03/24/2023 |
| US | MLTS | Material Licensing Tracking System | Nuclear Regulatory Commission | 10/26/2022 | 11/22/2022 | 12/05/2022 |
| RI | NPDES | Permit and Facility Data | Department of Environmental Management | 11/18/2022 | 11/21/2022 | 02/10/2023 |
| US | NPL | National Priority List | EPA | 01/25/2023 | 02/03/2023 | 02/28/2023 |
| US | NPL LIENS | Federal Superfund Liens | EPA | 10/15/1991 | 02/02/1994 | 03/30/1994 |
| US | ODI | Open Dump Inventory | Environmental Protection Agency | 06/30/1985 | 08/09/2004 | 09/17/2004 |
| US | PADS | PCB Activity Database System | EPA | 11/03/2022 | 01/04/2023 | 04/03/2023 |
| US | PCB TRANSFORMER | PCB Transformer Registration Database | Environmental Protection Agency | 09/13/2019 | 11/06/2019 | 02/10/2020 |
| US | PCS | Permit Compliance System | EPA, Office of Water | 07/14/2011 | 08/05/2011 | 09/29/2011 |
| US | PCS ENF | Enforcement data | EPA | 12/31/2014 | 02/05/2015 | 03/06/2015 |
| RI | PFAS | Sites With Known PFAS Contamination | Department of Health | 09/02/2022 | 09/07/2022 | 11/30/2022 |
| US | PFAS ATSDR | PFAS Contamination Site Location Listing | Department of Health & Human Services | 06/24/2020 | 03/17/2021 | 11/08/2022 |
| US | PFAS ECHO | Facilities in Industries that May Be Handling PFAS Listing | Environmental Protection Agency | 03/30/2023 | 03/30/2023 | 04/03/2023 |
| US | PFAS ECHO FIRE TRAINING | Facilities in Industries that May Be Handling PFAS Listing | Environmental Protection Agency | 03/30/2023 | 03/30/2023 | 04/03/2023 |
| US | PFAS FEDERAL SITES | Federal Sites PFAS Information | Environmental Protection Agency | 03/30/2023 | 03/30/2023 | 04/07/2023 |
| US | PFAS NPDES | Clean Water Act Discharge Monitoring Information | Environmental Protection Agency | 03/30/2023 | 03/30/2023 | 04/07/2023 |
| US | PFAS NPL | Superfund Sites with PFAS Detections Information | Environmental Protection Agency | 02/23/2022 | 07/08/2022 | 11/08/2022 |
| US | PFAS PART 139 AIRPORT | All Certified Part 139 Airports PFAS Information Listing | Environmental Protection Agency | 03/30/2023 | 03/30/2023 | 04/03/2023 |
| US | PFAS RCRA MANIFEST | PFAS Transfers Identified In the RCRA Database Listing | Environmental Protection Agency | 03/30/2023 | 03/30/2023 | 05/02/2023 |
| US | PFAS TRIS | List of PFAS Added to the TRI | Environmental Protection Agency | 03/07/2023 | 03/07/2023 | 03/24/2023 |
| US | PFAS TSCA | PFAS Manufacture and Imports Information | Environmental Protection Agency | 01/03/2022 | 03/31/2022 | 11/08/2022 |
| US | PFAS WQP | Ambient Environmental Sampling for PFAS | Environmental Protection Agency | 03/30/2023 | 03/30/2023 | 05/02/2023 |
| US | PRP | Potentially Responsible Parties | EPA | 10/27/2022 | 11/01/2022 | 11/15/2022 |
| US | Proposed NPL | Proposed National Priority List Sites | EPA | 01/25/2023 | 02/02/2023 | 02/28/2023 |
| US | RAATS | RCRA Administrative Action Tracking System | EPA | 04/17/1995 | 07/03/1995 | 08/07/1995 |
| US | RADINFO | Radiation Information Database | Environmental Protection Agency | 07/01/2019 | 07/01/2019 | 09/23/2019 |
| US | RCRA NonGen / NLR | RCRA - Non Generators / No Longer Regulated | Environmental Protection Agency | 03/06/2023 | 03/09/2023 | 03/20/2023 |
| US | RCRA-LQG | RCRA - Large Quantity Generators | Environmental Protection Agency | 03/06/2023 | 03/09/2023 | 03/20/2023 |
| US | RCRA-SQG | RCRA - Small Quantity Generators | Environmental Protection Agency | 03/06/2023 | 03/09/2023 | 03/20/2023 |
| US | RCRA-TSDF | RCRA - Treatment, Storage and Disposal | Environmental Protection Agency | 03/06/2023 | 03/09/2023 | 03/20/2023 |
| US | RCRA-VSQG | RCRA - Very Small Quantity Generators (Formerly Conditionall | Environmental Protection Agency | 03/06/2023 | 03/09/2023 | 03/20/2023 |
| RI | RGA HWS | Recovered Government Archive State Hazardous Waste Facilitie | Department of Environmental Management | | 07/01/2013 | 01/08/2014 |
| RI | RGA LUST | Recovered Government Archive Leaking Underground Storage Tan | Department of Environmental Management | | 07/01/2013 | 01/03/2014 |
| RI | RI MANIFEST | Manifest information | Department of Environmental Management | 12/31/2020 | 11/30/2021 | 02/18/2022 |
| US | RMP | Risk Management Plans | Environmental Protection Agency | 04/27/2022 | 05/04/2022 | 05/10/2022 |
| US | ROD | Records Of Decision | EPA | 01/25/2023 | 02/02/2023 | 02/28/2023 |
| US | SCRD DRYCLEANERS | State Coalition for Remediation of Drycleaners Listing | Environmental Protection Agency | 07/30/2021 | 02/03/2023 | 02/10/2023 |
| US | SEMS | Superfund Enterprise Management System | EPA | 01/25/2023 | 02/02/2023 | 02/28/2023 |
| US | SEMS-ARCHIVE | Superfund Enterprise Management System Archive | EPA | 01/25/2023 | 02/02/2023 | 02/28/2023 |
| RI | SHWS | List of CERCLIS and State Sites in RI | Department of Environmental Management | 03/06/2023 | 04/05/2023 | 05/02/2023 |
| RI | SPILLS | Oil & Hazardous Material Response Log/Spill Report | Dept. of Environmental Management | 11/15/2004 | 02/04/2005 | 03/24/2005 |
| RI | SPILLS 90 | SPILLS90 data from FirstSearch | FirstSearch | 01/04/2001 | 01/03/2013 | 02/27/2013 |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

| St | Acronym | Full Name | Government Agency | Gov Date | Arvl. Date | Active Date |
|---|---|---|---|---|---|---|
| US | SSTS | Section 7 Tracking Systems | EPA | 01/17/2023 | 01/18/2023 | 04/19/2023 |
| RI | SWF/LF | Solid Waste Management Facilities | Department of Environmental Management | 03/06/2023 | 04/06/2023 | 05/02/2023 |
| US | TRIS | Toxic Chemical Release Inventory System | EPA | 12/31/2021 | 02/16/2023 | 05/02/2023 |
| US | TSCA | Toxic Substances Control Act | EPA | 12/31/2020 | 06/14/2022 | 03/24/2023 |
| US | UMTRA | Uranium Mill Tailings Sites | Department of Energy | 08/30/2019 | 11/15/2019 | 01/28/2020 |
| US | US AIRS (AFS) | Aerometric Information Retrieval System Facility Subsystem ( | EPA | 10/12/2016 | 10/26/2016 | 02/03/2017 |
| US | US AIRS MINOR | Air Facility System Data | EPA | 10/12/2016 | 10/26/2016 | 02/03/2017 |
| US | US BROWNFIELDS | A Listing of Brownfields Sites | Environmental Protection Agency | 04/06/2023 | 04/13/2023 | 04/19/2023 |
| US | US CDL | Clandestine Drug Labs | Drug Enforcement Administration | 01/06/2023 | 02/02/2023 | 02/10/2023 |
| US | US ENG CONTROLS | Engineering Controls Sites List | Environmental Protection Agency | 02/20/2023 | 02/21/2023 | 05/02/2023 |
| US | US FIN ASSUR | Financial Assurance Information | Environmental Protection Agency | 12/13/2022 | 12/14/2022 | 03/10/2023 |
| US | US HIST CDL | National Clandestine Laboratory Register | Drug Enforcement Administration | 01/06/2023 | 02/02/2023 | 02/10/2023 |
| US | US INST CONTROLS | Institutional Controls Sites List | Environmental Protection Agency | 02/20/2023 | 02/21/2023 | 05/02/2023 |
| US | US MINES | Mines Master Index File | Department of Labor, Mine Safety and Health A | 11/07/2022 | 11/17/2022 | 02/10/2023 |
| US | US MINES 2 | Ferrous and Nonferrous Metal Mines Database Listing | USGS | 05/06/2020 | 05/27/2020 | 08/13/2020 |
| US | US MINES 3 | Active Mines & Mineral Plants Database Listing | USGS | 04/14/2011 | 06/08/2011 | 09/13/2011 |
| RI | UST | UST Master List | Department of Environmental Management | 12/01/2022 | 01/04/2023 | 03/23/2023 |
| US | UXO | Unexploded Ordnance Sites | Department of Defense | 11/09/2021 | 10/20/2022 | 01/10/2023 |
| CT | CT MANIFEST | Hazardous Waste Manifest Data | Department of Energy & Environmental Protecti | 11/16/2022 | 11/16/2022 | 02/06/2023 |
| NJ | NJ MANIFEST | Manifest Information | Department of Environmental Protection | 12/31/2018 | 04/10/2019 | 05/16/2019 |
| NY | NY MANIFEST | Facility and Manifest Data | Department of Environmental Conservation | 01/01/2019 | 10/29/2021 | 01/19/2022 |
| PA | PA MANIFEST | Manifest Information | Department of Environmental Protection | 06/30/2018 | 07/19/2019 | 09/10/2019 |
| RI | RI MANIFEST | Manifest information | Department of Environmental Management | 12/31/2020 | 11/30/2021 | 02/18/2022 |
| VT | VT MANIFEST | Hazardous Waste Manifest Data | Department of Environmental Conservation | 10/28/2019 | 10/29/2019 | 01/09/2020 |
| WI | WI MANIFEST | Manifest Information | Department of Natural Resources | 05/31/2018 | 06/19/2019 | 09/03/2019 |
| US | AHA Hospitals | Sensitive Receptor: AHA Hospitals | American Hospital Association, Inc. | | | |
| US | Medical Centers | Sensitive Receptor: Medical Centers | Centers for Medicare & Medicaid Services | | | |
| US | Nursing Homes | Sensitive Receptor: Nursing Homes | National Institutes of Health | | | |
| US | Public Schools | Sensitive Receptor: Public Schools | National Center for Education Statistics | | | |
| US | Private Schools | Sensitive Receptor: Private Schools | National Center for Education Statistics | | | |
| US | Flood Zones | 100-year and 500-year flood zones | Emergency Management Agency (FEMA) | | | |
| US | NWI | National Wetlands Inventory | U.S. Fish and Wildlife Service | | | |
| MA | State Wetlands | Wetland Inventory | MassDEP | | | |
| US | Topographic Map | | U.S. Geological Survey | | | |
| US | Oil/Gas Pipelines | | Endeavor Business Media | | | |
| US | Electric Power Transmission Line Data | | Endeavor Business Media | | | |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

| St | Acronym | Full Name | Government Agency | Gov Date | Arvl. Date | Active Date |
|---|---|---|---|---|---|---|

**STREET AND ADDRESS INFORMATION**

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# GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

**TARGET PROPERTY ADDRESS**

350 MARINO BISHOP BLVD
350 MARINO BISHOP BLVD
FALL RIVER, MA 02721

**TARGET PROPERTY COORDINATES**

| | |
|---|---|
| Latitude (North): | 41.672651 - 41° 40' 21.54'' |
| Longitude (West): | 71.163381 - 71° 9' 48.17'' |
| Universal Tranverse Mercator: | Zone 19 |
| UTM X (Meters): | 319908.7 |
| UTM Y (Meters): | 4615480.0 |
| Elevation: | 183 ft. above sea level |

**USGS TOPOGRAPHIC MAP**

| | |
|---|---|
| Target Property Map: | 11747657 FALL RIVER, MA |
| Version Date: | 2018 |

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**GROUNDWATER FLOW DIRECTION INFORMATION**

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

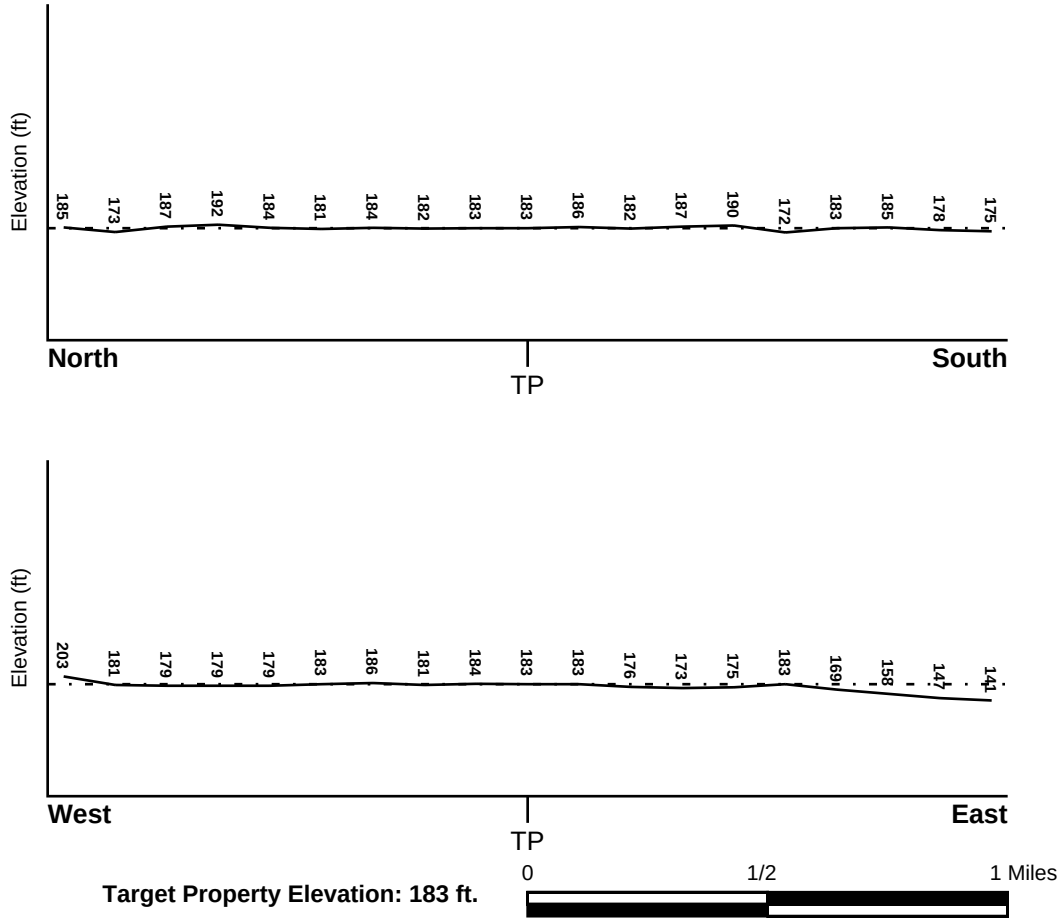
**TOPOGRAPHIC INFORMATION**

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

**TARGET PROPERTY TOPOGRAPHY**

General Topographic Gradient: General East

**SURROUNDING TOPOGRAPHY: ELEVATION PROFILES**




Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**HYDROLOGIC INFORMATION**

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

**FEMA FLOOD ZONE**

| Flood Plain Panel at Target Property | FEMA Source Type |
|---|---|
| 25005C0341G | FEMA FIRM Flood data |

| Additional Panels in search area: | FEMA Source Type |
|---|---|
| 25005C0342F | FEMA FIRM Flood data |

**NATIONAL WETLAND INVENTORY**

| NWI Quad at Target Property | NWI Electronic Data Coverage |
|---|---|
| FALL RIVER | YES - refer to the Overview Map and Detail Map |

**HYDROGEOLOGIC INFORMATION**

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

**AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

| MAP ID | LOCATION FROM TP | GENERAL DIRECTION GROUNDWATER FLOW |
|---|---|---|
| A7 | 1/4 - 1/2 Mile North | WSW |
| D15 | 1/2 - 1 Mile North | SE |
| 1G | 1/2 - 1 Mile North | SE |
| 2G | 1/4 - 1/2 Mile North | WSW |

For additional site information, refer to Physical Setting Source Map Findings.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

**GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

**ROCK STRATIGRAPHIC UNIT**

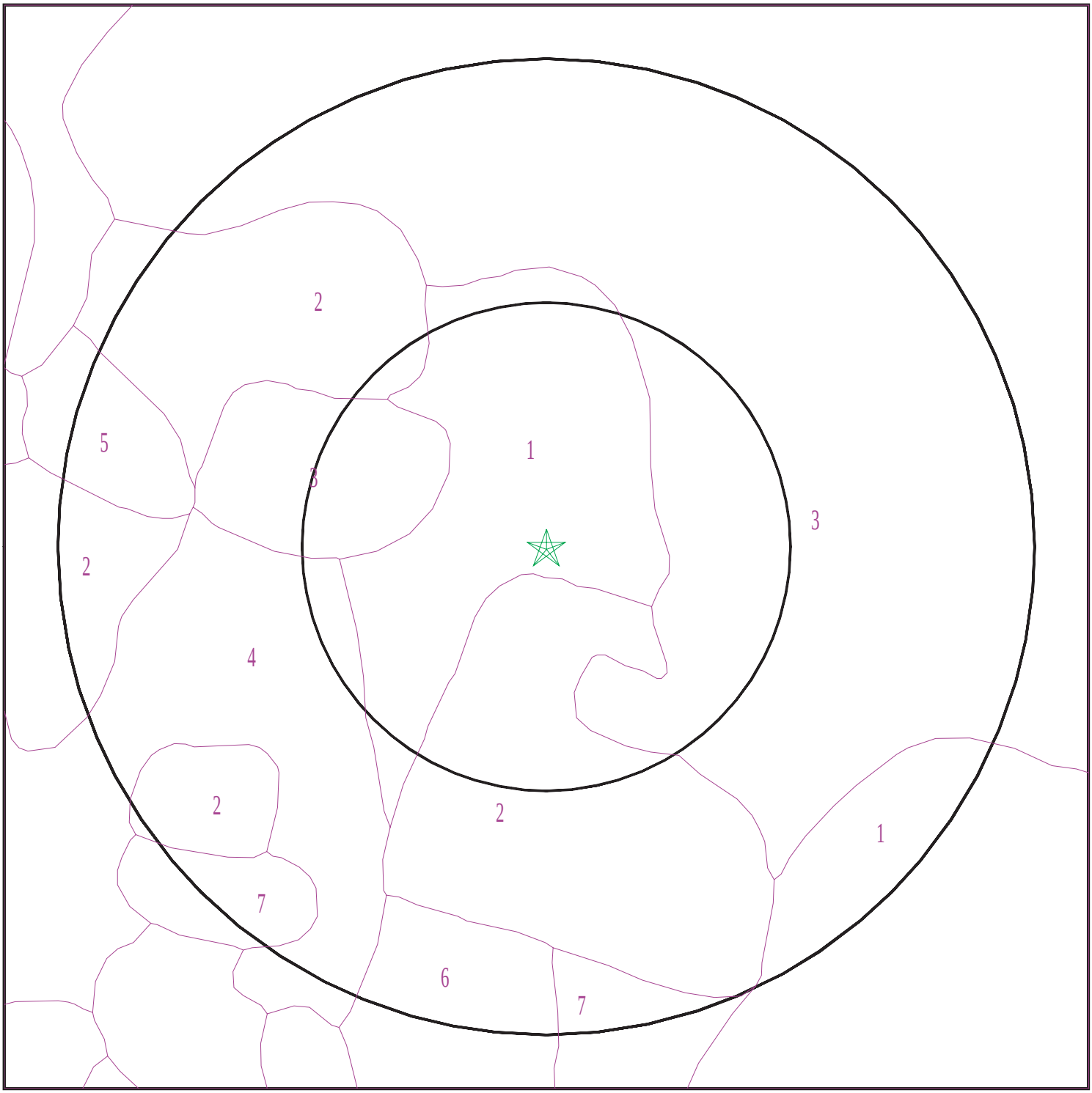
| | |
|---|---|
| Era: | Precambrian |
| System: | Precambrian |
| Series: | Z ganitic rocks |
| Code: | Zg *(decoded above as Era, System & Series)* |

**GEOLOGIC AGE IDENTIFICATION**

Category: Plutonic and Intrusive Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 7334882.2s




| | | | |
|---|---|---|---|
| SITE NAME: | 350 Marino Bishop Blvd | CLIENT: | Geological Field Services |
| ADDRESS: | 350 Marino Bishop Blvd<br>Fall River MA 02721 | CONTACT: | Luke Fabbri |
| LAT/LONG: | 41.672651 / 71.163381 | INQUIRY #: | 7334882.2s |
| | | DATE: | May 11, 2023 5:37 pm |

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# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY**

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

---

**Soil Map ID: 1**

| | |
|---|---|
| Soil Component Name: | Udorthents |
| Soil Surface Texture: | |
| Hydrologic Group: | Not reported |
| Soil Drainage Class: | |
| Hydric Status: Unknown | |
| Corrosion Potential - Uncoated Steel: | Not Reported |
| Depth to Bedrock Min: | > 0 inches |
| Depth to Watertable Min: | > 0 inches |

No Layer Information available.

---

**Soil Map ID: 2**

| | |
|---|---|
| Soil Component Name: | Newport |
| Soil Surface Texture: | loam |
| Hydrologic Group: | Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures. |
| Soil Drainage Class: | Well drained |
| Hydric Status: Partially hydric | |
| Corrosion Potential - Uncoated Steel: | Low |
| Depth to Bedrock Min: | > 0 inches |
| Depth to Watertable Min: | > 61 inches |

| Soil Layer Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 9 inches | loam | Not reported | Not reported | Max: 1.41 Min: 0 | Max: 6 Min: 4.5 |
| 2 | 9 inches | 27 inches | channery loam | Not reported | Not reported | Max: 1.41 Min: 0 | Max: 6 Min: 4.5 |
| 3 | 27 inches | 59 inches | channery loam | Not reported | Not reported | Max: 1.41 Min: 0 | Max: 6 Min: 4.5 |

---

**Soil Map ID: 3**

Soil Component Name: Urban land

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

---

**Soil Map ID: 4**

Soil Component Name: Whitman

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Very poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

| Soil Layer Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 5 inches | fine sandy loam | Not reported | Not reported | Max: 1.41<br>Min: 0 | Max: 6.5<br>Min: 4.5 |
| 2 | 5 inches | 14 inches | gravelly fine sandy loam | Not reported | Not reported | Max: 1.41<br>Min: 0 | Max: 6.5<br>Min: 4.5 |
| 3 | 14 inches | 59 inches | gravelly fine sandy loam | Not reported | Not reported | Max: 1.41<br>Min: 0 | Max: 6.5<br>Min: 4.5 |

---

**Soil Map ID: 5**

Soil Component Name: Pittstown

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 69 inches

| Soil Layer Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 9 inches | loam | Not reported | Not reported | Max: 4.23<br>Min: 0.42 | Max: 6 Min: 4.5 |
| 2 | 9 inches | 29 inches | channery loam | Not reported | Not reported | Max: 4.23<br>Min: 0.42 | Max: 6 Min: 4.5 |
| 3 | 29 inches | 59 inches | channery loam | Not reported | Not reported | Max: 4.23<br>Min: 0.42 | Max: 6 Min: 4.5 |

**Soil Map ID: 6**

Soil Component Name: Charlton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

| Soil Layer Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 1 inches | fine sandy loam | Not reported | Not reported | Max: 42.34 Min: 4.23 | Max: 6 Min: 4.5 |
| 2 | 1 inches | 22 inches | fine sandy loam | Not reported | Not reported | Max: 42.34 Min: 4.23 | Max: 6 Min: 4.5 |
| 3 | 22 inches | 59 inches | fine sandy loam | Not reported | Not reported | Max: 42.34 Min: 4.23 | Max: 6 Min: 4.5 |

**Soil Map ID: 7**

Soil Component Name: Udorthents

Soil Surface Texture: variable

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

| Soil Layer Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 5 inches | variable | Not reported | Not reported | Max: 141.14<br>Min: 0.42 | Max: Min: |
| 2 | 5 inches | 59 inches | variable | Not reported | Not reported | Max: 141.14<br>Min: 0.42 | Max: Min: |

**LOCAL / REGIONAL WATER AGENCY RECORDS**

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

**WELL SEARCH DISTANCE INFORMATION**

| DATABASE | SEARCH DISTANCE (miles) |
|---|---|
| Federal USGS | 1.000 |
| Federal FRDS PWS | Nearest PWS within 1 mile |
| State Database | 1.000 |

**FEDERAL USGS WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| 3 | USGS40000457767 | 1/8 - 1/4 Mile South |
| 4 | USGS40000457768 | 1/8 - 1/4 Mile SW |
| 5 | USGS40000457717 | 1/4 - 1/2 Mile SSE |
| B10 | USGS40000457686 | 1/4 - 1/2 Mile SE |
| B11 | USGS40000457681 | 1/4 - 1/2 Mile SE |
| C12 | USGS40000457783 | 1/2 - 1 Mile ESE |
| C13 | USGS40000457819 | 1/2 - 1 Mile East |
| 17 | USGS40000458181 | 1/2 - 1 Mile North |
| 19 | USGS40000457840 | 1/2 - 1 Mile East |
| 22 | USGS40000458210 | 1/2 - 1 Mile NNW |
| 23 | USGS40000457848 | 1/2 - 1 Mile East |
| 24 | USGS40001049412 | 1/2 - 1 Mile SW |

**FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| No PWS System Found | | |

Note: PWS System location is not always the same as well location.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**STATE DATABASE WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| 1 | MA9000000003950 | 0 - 1/8 Mile NNE |
| 2 | MA9000000005167 | 1/8 - 1/4 Mile ENE |
| 6 | MA9000000004280 | 1/4 - 1/2 Mile East |
| A8 | MA9000000005781 | 1/4 - 1/2 Mile North |
| A9 | MA9000000005172 | 1/4 - 1/2 Mile North |
| D14 | MA9000000005421 | 1/2 - 1 Mile North |
| 16 | MA9000000004794 | 1/2 - 1 Mile NW |
| 18 | MA9000000004687 | 1/2 - 1 Mile WNW |
| 20 | MA9000000005455 | 1/2 - 1 Mile WNW |
| 21 | MA9000000005107 | 1/2 - 1 Mile NNW |

# PHYSICAL SETTING SOURCE MAP - 7334882.2s


- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location

- Potentially Productive Aquifers
- Not Potentially Productive Aquifers
- DEP Approved Zone IIs
- EPA Designated Sole Src. Aq.

| | | | |
|---|---|---|---|
| SITE NAME: | 350 Marino Bishop Blvd | CLIENT: | Geological Field Services |
| ADDRESS: | 350 Marino Bishop Blvd<br>Fall River MA 02721 | CONTACT: | Luke Fabbri |
| LAT/LONG: | 41.672651 / 71.163381 | INQUIRY #: | 7334882.2s |
| | | DATE: | May 11, 2023 5:37 pm |

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# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| Map ID<br>Direction<br>Distance<br>Elevation | | Database | EDR ID Number |
|---|---|---|---|
| **1**<br>**NNE**<br>**0 - 1/8 Mile**<br>**Lower** | Click here for full text details | **MA WELLS** | **MA9000000003950** |
| **2**<br>**ENE**<br>**1/8 - 1/4 Mile**<br>**Lower** | Click here for full text details | **MA WELLS** | **MA9000000005167** |
| **3**<br>**South**<br>**1/8 - 1/4 Mile**<br>**Higher** | Click here for full text details | **FED USGS** | **USGS40000457767** |
| **4**<br>**SW**<br>**1/8 - 1/4 Mile**<br>**Lower** | Click here for full text details | **FED USGS** | **USGS40000457768** |
| **5**<br>**SSE**<br>**1/4 - 1/2 Mile**<br>**Lower** | Click here for full text details | **FED USGS** | **USGS40000457717** |
| **6**<br>**East**<br>**1/4 - 1/2 Mile**<br>**Lower** | Click here for full text details | **MA WELLS** | **MA9000000004280** |
| **A7**<br>**North**<br>**1/4 - 1/2 Mile**<br>**Lower** | Click here for full text details | **AQUIFLOW** | **5278** |
| **A8**<br>**North**<br>**1/4 - 1/2 Mile**<br>**Lower** | Click here for full text details | **MA WELLS** | **MA9000000005781** |
| **A9**<br>**North**<br>**1/4 - 1/2 Mile**<br>**Lower** | Click here for full text details | **MA WELLS** | **MA9000000005172** |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| Map ID<br>Direction<br>Distance<br>Elevation | | Database | EDR ID Number |
|---|---|---|---|
| **B10**<br>**SE**<br>**1/4 - 1/2 Mile**<br>**Lower** | Click here for full text details | **FED USGS** | **USGS40000457686** |
| **B11**<br>**SE**<br>**1/4 - 1/2 Mile**<br>**Lower** | Click here for full text details | **FED USGS** | **USGS40000457681** |
| **C12**<br>**ESE**<br>**1/2 - 1 Mile**<br>**Higher** | Click here for full text details | **FED USGS** | **USGS40000457783** |
| **C13**<br>**East**<br>**1/2 - 1 Mile**<br>**Lower** | Click here for full text details | **FED USGS** | **USGS40000457819** |
| **D14**<br>**North**<br>**1/2 - 1 Mile**<br>**Higher** | Click here for full text details | **MA WELLS** | **MA9000000005421** |
| **D15**<br>**North**<br>**1/2 - 1 Mile**<br>**Higher** | Click here for full text details | **AQUIFLOW** | **5274** |
| **16**<br>**NW**<br>**1/2 - 1 Mile**<br>**Higher** | Click here for full text details | **MA WELLS** | **MA9000000004794** |
| **17**<br>**North**<br>**1/2 - 1 Mile**<br>**Lower** | Click here for full text details | **FED USGS** | **USGS40000458181** |
| **18**<br>**WNW**<br>**1/2 - 1 Mile**<br>**Higher** | Click here for full text details | **MA WELLS** | **MA9000000004687** |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| Map ID<br>Direction<br>Distance<br>Elevation | | Database | EDR ID Number |
|---|---|---|---|
| **19**<br>**East**<br>**1/2 - 1 Mile**<br>**Lower** | Click here for full text details | **FED USGS** | **USGS40000457840** |
| **20**<br>**WNW**<br>**1/2 - 1 Mile**<br>**Higher** | Click here for full text details | **MA WELLS** | **MA9000000005455** |
| **21**<br>**NNW**<br>**1/2 - 1 Mile**<br>**Higher** | Click here for full text details | **MA WELLS** | **MA9000000005107** |
| **22**<br>**NNW**<br>**1/2 - 1 Mile**<br>**Lower** | Click here for full text details | **FED USGS** | **USGS40000458210** |
| **23**<br>**East**<br>**1/2 - 1 Mile**<br>**Lower** | Click here for full text details | **FED USGS** | **USGS40000457848** |
| **24**<br>**SW**<br>**1/2 - 1 Mile**<br>**Lower** | Click here for full text details | **FED USGS** | **USGS40001049412** |
| **1G**<br>**North**<br>**1/2 - 1 Mile**<br>**Lower** | Click here for full text details | **AQUIFLOW** | **5274** |
| **2G**<br>**North**<br>**1/4 - 1/2 Mile**<br>**Lower** | Click here for full text details | **AQUIFLOW** | **5278** |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
# RADON

**AREA RADON INFORMATION**

State Database: MA Radon

Radon Test Results

| County | % of sites>4 pCi/L | Median |
|---|---|---|
| BRISTOL | 23 | 1.8 |

Federal EPA Radon Zone for BRISTOL County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

---

Federal Area Radon Information for Zip Code: 02721

Number of sites tested: 3

| Area | Average Activity | % <4 pCi/L | % 4-20 pCi/L | % >20 pCi/L |
|---|---|---|---|---|
| Living Area - 1st Floor | Not Reported | Not Reported | Not Reported | Not Reported |
| Living Area - 2nd Floor | Not Reported | Not Reported | Not Reported | Not Reported |
| Basement | 3.933 pCi/L | 67% | 33% | 0% |

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: MassDEP
Telephone: 617-292-5907

## HYDROGEOLOGIC INFORMATION

AQUIFLOW$^{R}$ Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Massachusetts Geographic Information System (MassGIS) Datalayers
Source: Executive Office of Environmental Affairs
Telephone:

Public Water Supply Database

Telephone:
The Public Water Supply datalayer contains the locations of public community surface and groundwater supply sources and public non-community supply sources as defined in 310 CMR 22.00.

Areas of Critical Environmental Concern

Telephone:
The Areas of Critical Environmental Concern (ACEC) datalayer shows the location of areas that have been designated ACECs by the Secretary of Environmental Affairs. ACEC designation requires greater environmental review of certain kinds of proposed development under state jurisdiction within the ACEC boundaries. The ACEC Program is administered by the Department of Environmental Management (DEM) on behalf of the Secretary of Environmental Affairs. The Massachusetts Coastal Zone Management (MCZM) Office managed the original Coastal ACEC Program from 1978 to 1993, and continues to play a key role in monitoring coastal ACECs. Procedures for ACEC designation and the general policies governing the effects of designation are contained in the ACEC regulations (301 CMR 12.00). The ACEC datalayer has been compiled by MCZM and DEM and includes both coastal and inland areas.

EPA Designated Sole Source Aquifers

Telephone:
The Sole Source Aquifer datalayer was compiled by the Department of Environmental Protection (DEP) Division of Water Supply (DWS). Seven Sole Source Aquifers have been designated by the US Environmental Protection Agency (EPA) for Massachusetts. A Sole Source Aquifer (SSA) is an aquifer designated by US EPA as the sole or principal source of drinking water for a given aquifer service area; that is, an aquifer which is needed to supply 50% or more of the drinking water for that area and for which there are no reasonably available alternative sources should that aquifer become contaminated. The aquifers were defined by an EPA hydrogeologist.

Aquifers

Telephone:
MassGIS produced an aquifer datalayer composed of 20 individual panels, generally based on the boundaries of the major drainage basins. Areas of high and medium yield were mapped. This datalayer includes polygon attribute coding to help in the identification of areas in which cleanup of hazardous waste sites must meet drinking water standards, as defined in the Massachusetts Contingency Plan (MCP) (310 CMR 40.00000).

Non-Potential Drinking Water Source Areas

Telephone:
Non-Potential Drinking Water Source Areas (NPDWSA) are regulatory in nature representing one of many considerations used in determining the standards to which ground water must be cleaned in the event of a release of oil or hazardous material. NPDWSAs are not based on existing water quality and do not indicate poor ambient conditions.

DEP Approved Zone IIs

Telephone:
The Department of Environmental Protection (DEP) approved Zone IIs datalayer was compiled by the DEP Division of Water Supply (DWS). The database contains 281 approved Zone IIs statewide. As stated in 310 CMR 22.02, a Zone II is 'that area of an aquifer which contributes water to a well under the most severe pumping and recharge conditions that can be realistically anticipated (180 days of pumping at safe yield, with no recharge from precipitation.) It is bounded by the groundwater divides which result from pumping the well and by the contact of the aquifer with less permeable materials such as till or bedrock. In some cases, streams or lakes may act as recharge boundaries. In all cases, Zone IIs shall extend up gradient to its point of intersection with prevailing hydrogeologic boundaries (a groundwater flow divide, a contact with till or bedrock, or a recharge boundary).' These data are used in association with the Public Water Supplies datalayer. The following describes certain unique features of this association.\n - Any proposed new well which will pump at least 100,000 gallons per day must have a Zone II delineation completed and approved by DEP prior to the well coming on line. \n- Additionally, a new source may not be on-line yet, but other, older wells may fall within its Zone II boundary.\n - Further, existing wells must have a Zone II delineated as a condition of receiving a water withdrawal permit under the Water Management Act.

**OTHER STATE DATABASE INFORMATION**

RADON

State Database: MA Radon
Source: Department of Health
Telephone: 413-586-7525
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

**STREET AND ADDRESS INFORMATION**

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350 Marino Bishop Blvd

350 Marino Bishop Blvd

Fall River, MA 02721

Inquiry Number: 7334882.3

May 15, 2023

# Certified Sanborn® Map Report

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

# Certified Sanborn® Map Report

05/15/23

**Site Name:**

350 Marino Bishop Blvd
350 Marino Bishop Blvd
Fall River, MA 02721
EDR Inquiry # 7334882.3

**Client Name:**

Geological Field Services
14 Hubon Street
Salem, MA 01970
Contact: Luke Fabbri

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Geological Field Services were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

## *Certified Sanborn Results:*

**Certification #** 1DF5-4879-BD48

**PO #** NA

**Project** NA

**Maps Provided:**

1976
1950
1933

Sanborn® Library search results

Certification #: 1DF5-4879-BD48

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

*The Sanborn Library LLC Since 1866™*

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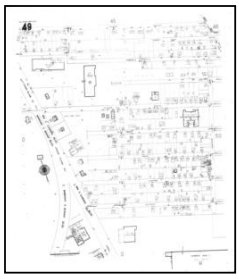
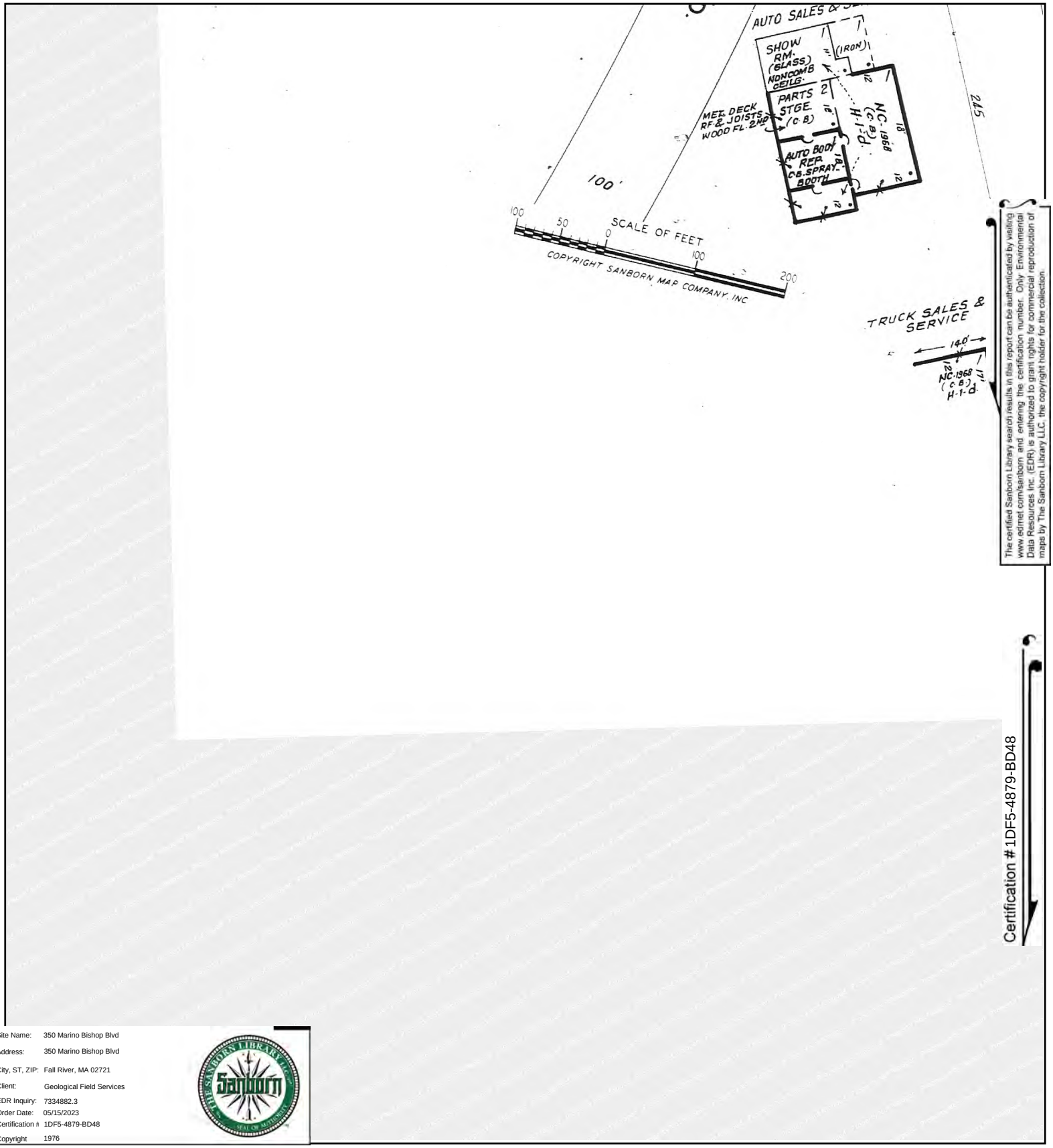
## *Sanborn Sheet Key*

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

### 1976 Source Sheets



Volume 1, Sheet 49
1976

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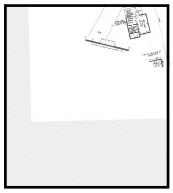
Certification # 1DF5-4879-BD48

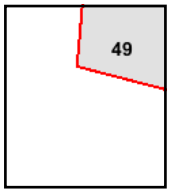
| | |
|---|---|
| Site Name: | 350 Marino Bishop Blvd |
| Address: | 350 Marino Bishop Blvd |
| City, ST, ZIP: | Fall River, MA 02721 |
| Client: | Geological Field Services |
| EDR Inquiry: | 7334882.3 |
| Order Date: | 05/15/2023 |
| Certification # | 1DF5-4879-BD48 |
| Copyright | 1976 |

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

0 Feet 150 300 600

Volume 1, Sheet 49



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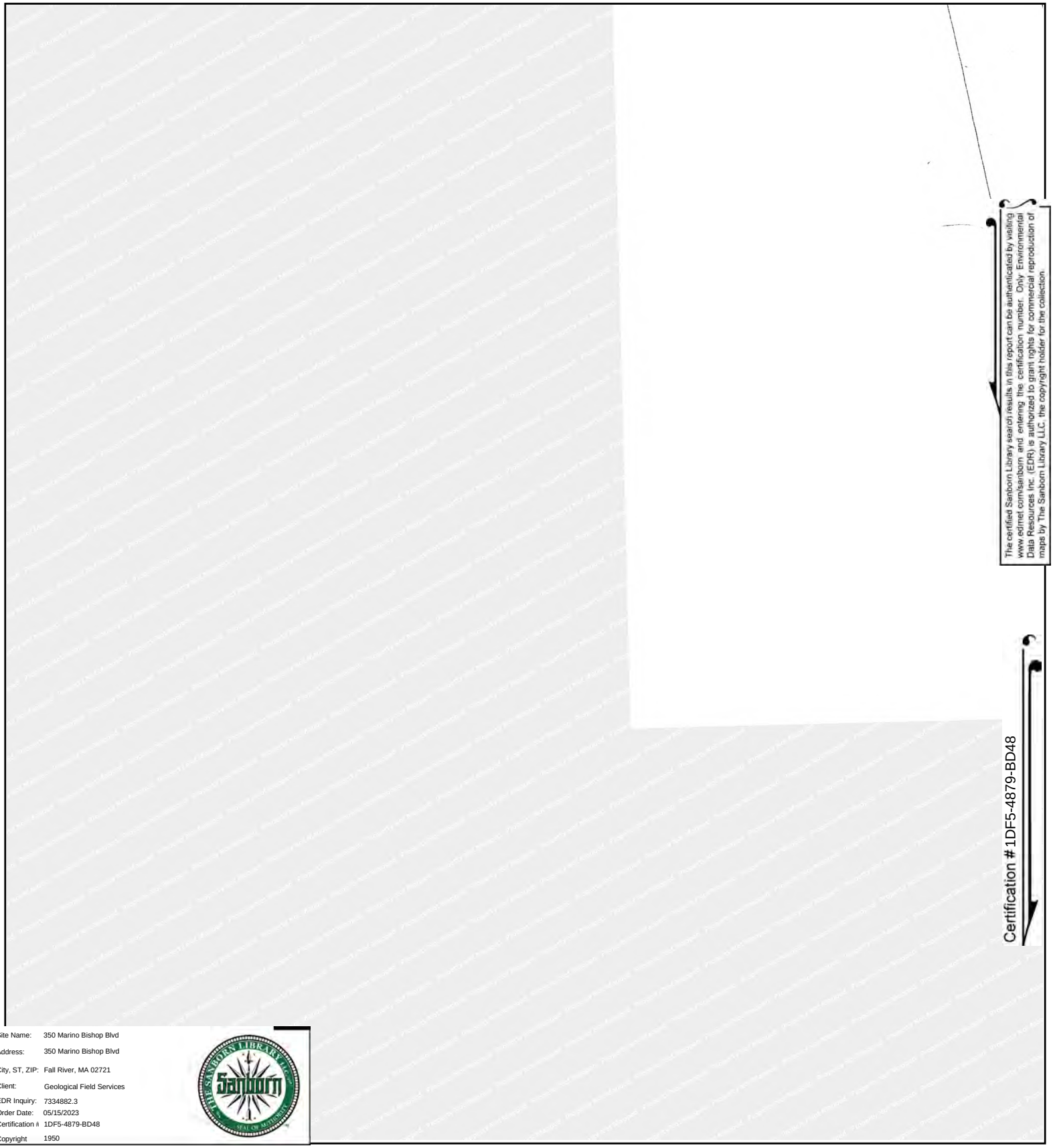

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Certification # 1DF5-4879-BD48

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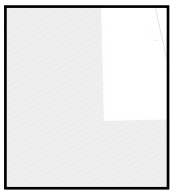
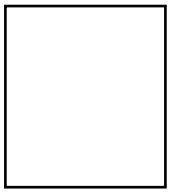
| Site Name: | 350 Marino Bishop Blvd |
| Address: | 350 Marino Bishop Blvd |
| City, ST, ZIP: | Fall River, MA 02721 |
| Client: | Geological Field Services |
| EDR Inquiry: | 7334882.3 |
| Order Date: | 05/15/2023 |
| Certification # | 1DF5-4879-BD48 |
| Copyright | 1950 |

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





0 Feet 150 300 600

N

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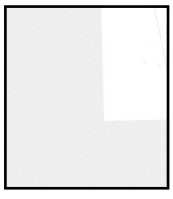
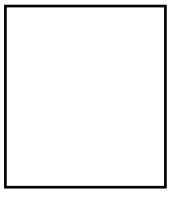
Certification # 1DF5-4879-BD48

| | |
|---|---|
| Site Name: | 350 Marino Bishop Blvd |
| Address: | 350 Marino Bishop Blvd |
| City, ST, ZIP: | Fall River, MA 02721 |
| Client: | Geological Field Services |
| EDR Inquiry: | 7334882.3 |
| Order Date: | 05/15/2023 |
| Certification # | 1DF5-4879-BD48 |
| Copyright | 1933 |

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





0 Feet 150 300 600

N

350 Marino Bishop Blvd

350 Marino Bishop Blvd

Fall River, MA 02721

Inquiry Number: 7334882.4

May 11, 2023

# EDR Historical Topo Map Report

## with QuadMatch™

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

# EDR Historical Topo Map Report

05/11/23

**Site Name:**

350 Marino Bishop Blvd
350 Marino Bishop Blvd
Fall River, MA 02721
EDR Inquiry # 7334882.4

**Client Name:**

Geological Field Services
14 Hubon Street
Salem, MA 01970
Contact: Luke Fabbri

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

***Search Results:***

**P.O.#** NA
**Project:** NA

***Coordinates:***

| | |
|---|---|
| **Latitude:** | 41.672651 41° 40' 22" North |
| **Longitude:** | -71.163381 -71° 9' 48" West |
| **UTM Zone:** | Zone 19 North |
| **UTM X Meters:** | 319913.57 |
| **UTM Y Meters:** | 4615693.13 |
| **Elevation:** | 183.00' above sea level |

**Maps Provided:**

| | |
|---|---|
| 2018 | 1944 |
| 2015 | 1893 |
| 2012 | 1888 |
| 1985 | |
| 1979 | |
| 1977 | |
| 1967 | |
| 1949 | |

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## *Topo Sheet Key*

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

### 2018 Source Sheets

Fall River
2018
7.5-minute, 24000

### 2015 Source Sheets

Fall River
2015
7.5-minute, 24000

### 2012 Source Sheets

Fall River
2012
7.5-minute, 24000

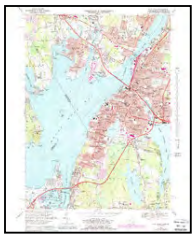
### 1985 Source Sheets

Fall River
1985
7.5-minute, 25000
Aerial Photo Revised 1980

## *Topo Sheet Key*

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

### 1979 Source Sheets



Fall River
1979
7.5-minute, 24000
Aerial Photo Revised 1977

### 1977 Source Sheets

Fall River
1977
7.5-minute, 25000
Aerial Photo Revised 1977

### 1967 Source Sheets

Fall River
1967
7.5-minute, 24000
Aerial Photo Revised 1966

### 1949 Source Sheets

Fall River
1949
7.5-minute, 24000

## *Topo Sheet Key*

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

### 1944 Source Sheets

FALL RIVER
1944
7.5-minute, 25000

### 1893 Source Sheets

Fall River
1893
15-minute, 62500

### 1888 Source Sheets

Fall River
1888
15-minute, 62500

# Historical Topo Map

2018


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

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Fall River, 2018, 7.5-minute

SITE NAME: 350 Marino Bishop Blvd
ADDRESS: 350 Marino Bishop Blvd
Fall River, MA 02721
CLIENT: Geological Field Services

N


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

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Fall River, 2015, 7.5-minute

SITE NAME: 350 Marino Bishop Blvd
ADDRESS: 350 Marino Bishop Blvd
Fall River, MA 02721
CLIENT: Geological Field Services

N

# Historical Topo Map

2012


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

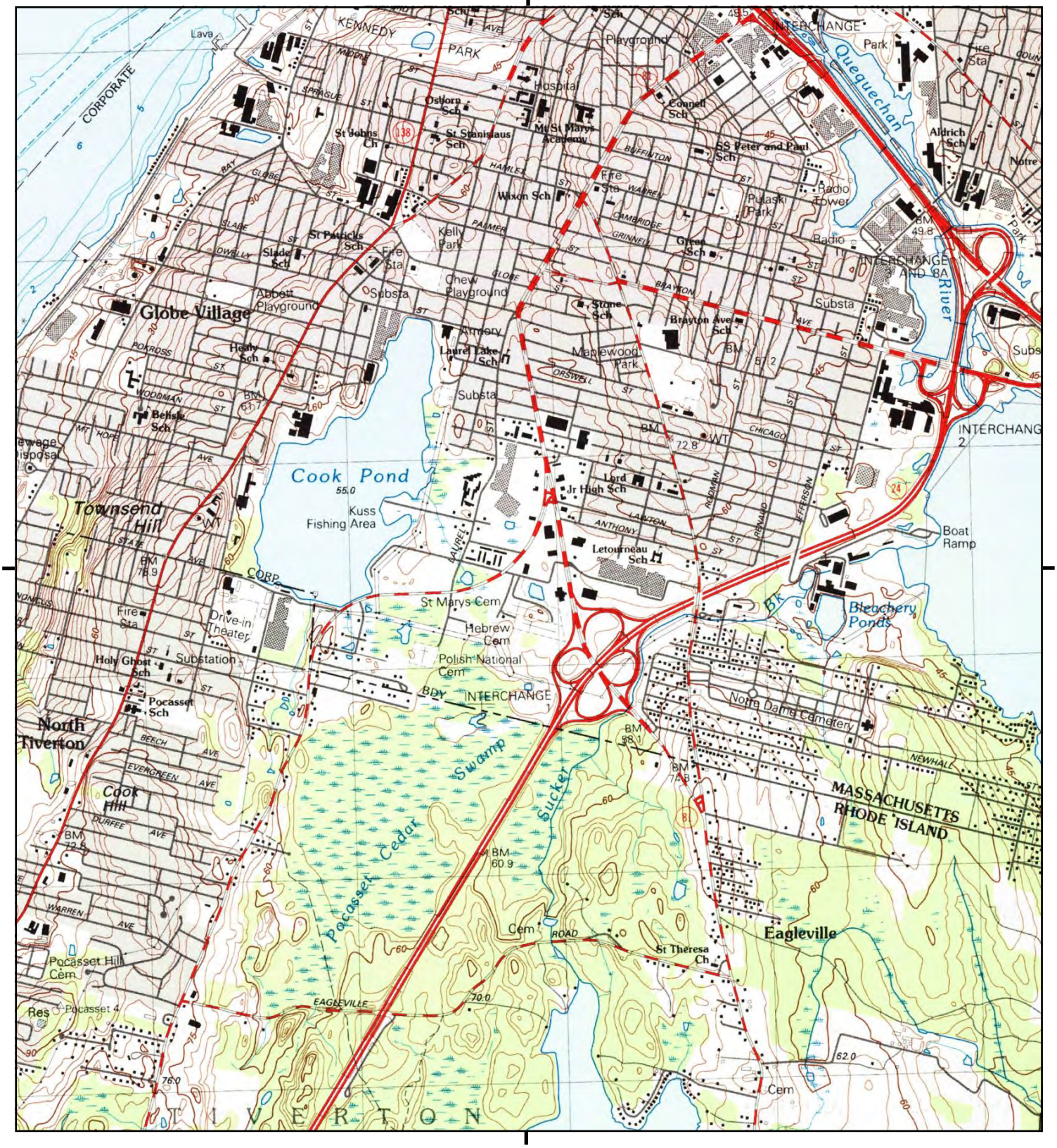
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Fall River, 2012, 7.5-minute

SITE NAME: 350 Marino Bishop Blvd
ADDRESS: 350 Marino Bishop Blvd
Fall River, MA 02721
CLIENT: Geological Field Services

N




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

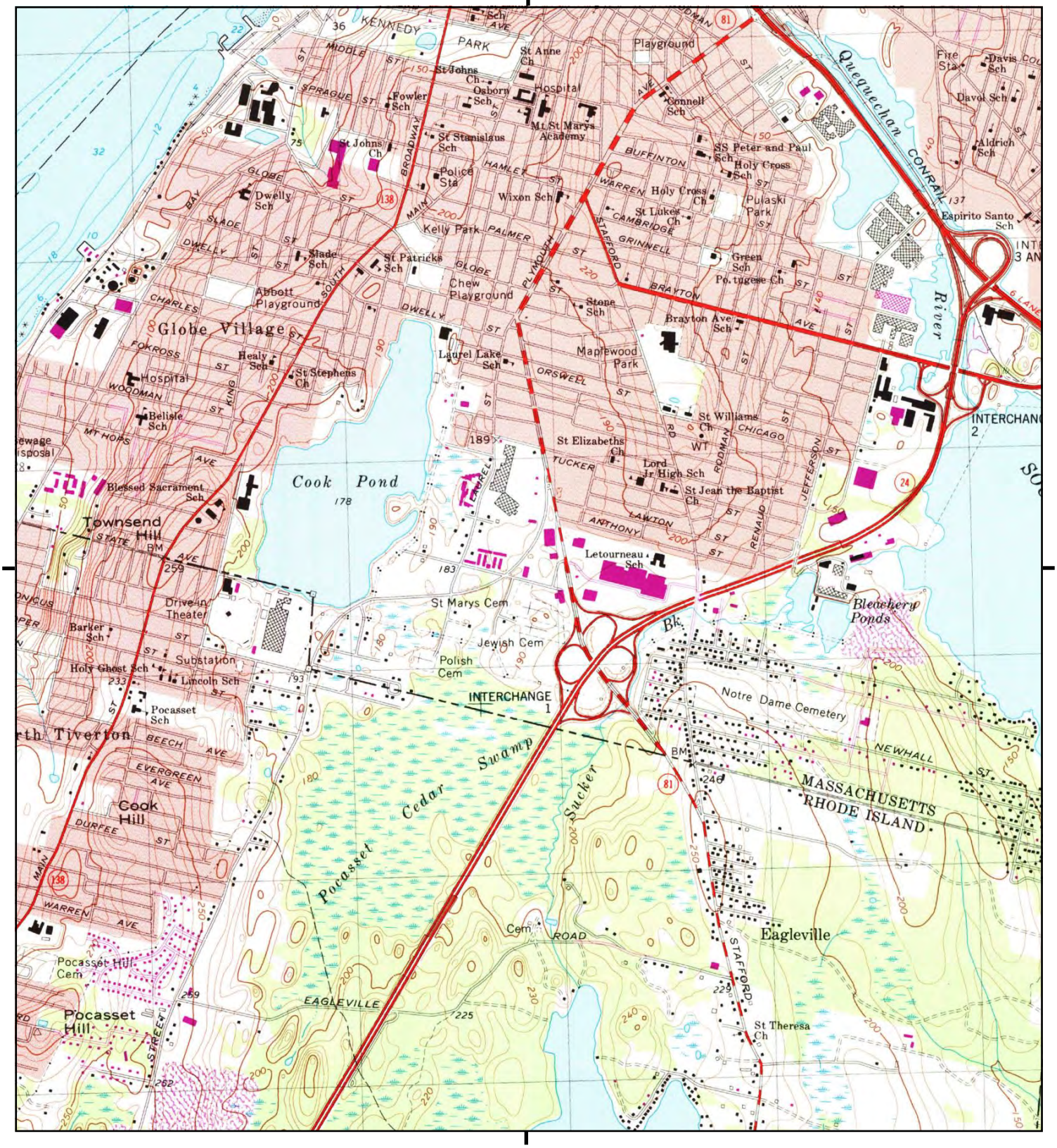
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Fall River, 1985, 7.5-minute

SITE NAME: 350 Marino Bishop Blvd
ADDRESS: 350 Marino Bishop Blvd
Fall River, MA 02721
CLIENT: Geological Field Services

N




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

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Fall River, 1979, 7.5-minute

SITE NAME: 350 Marino Bishop Blvd
ADDRESS: 350 Marino Bishop Blvd
Fall River, MA 02721
CLIENT: Geological Field Services

N


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

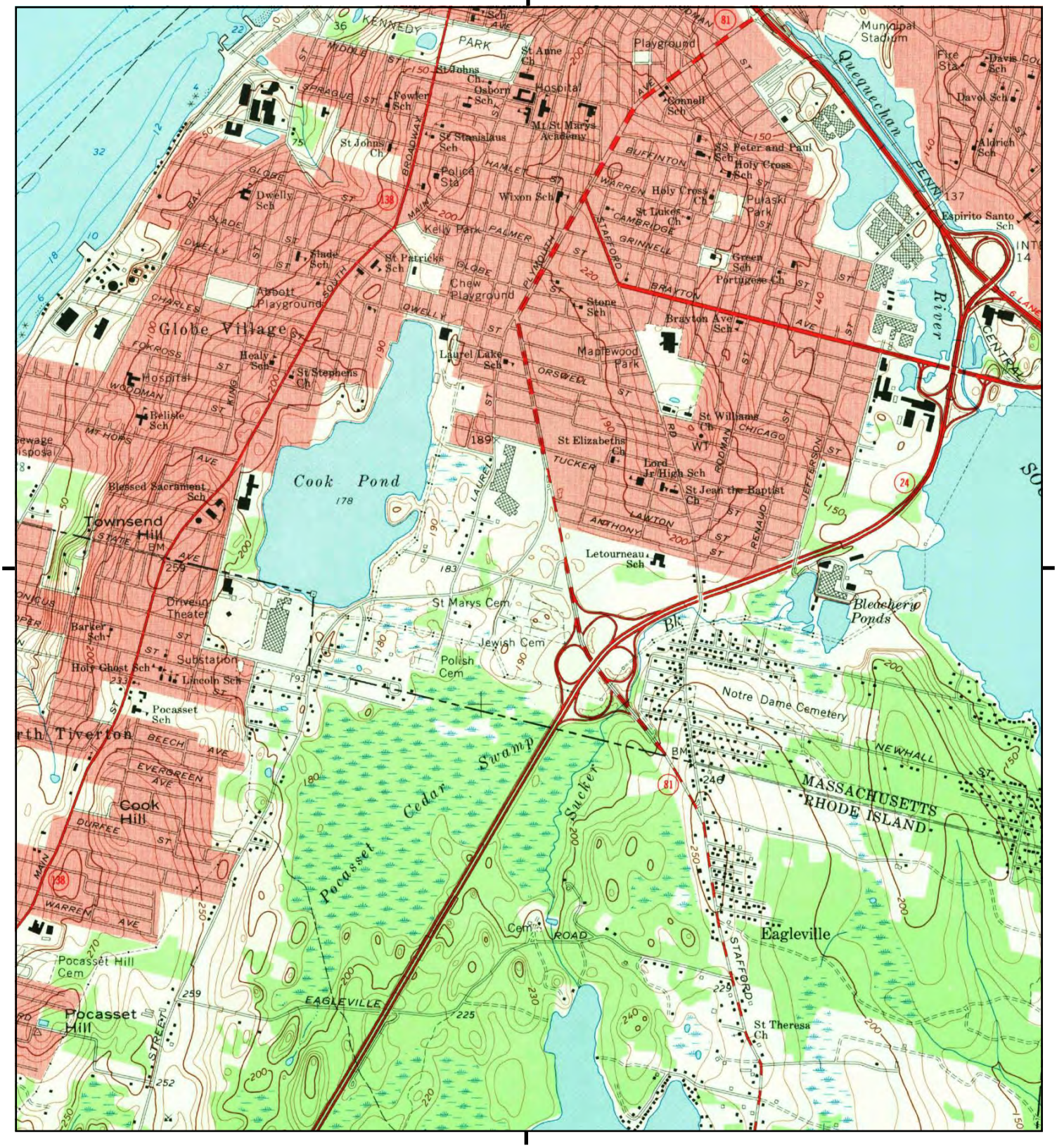
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Fall River, 1977, 7.5-minute

SITE NAME: 350 Marino Bishop Blvd
ADDRESS: 350 Marino Bishop Blvd
Fall River, MA 02721
CLIENT: Geological Field Services

N




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

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Fall River, 1967, 7.5-minute

SITE NAME: 350 Marino Bishop Blvd
ADDRESS: 350 Marino Bishop Blvd
Fall River, MA 02721
CLIENT: Geological Field Services

N


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

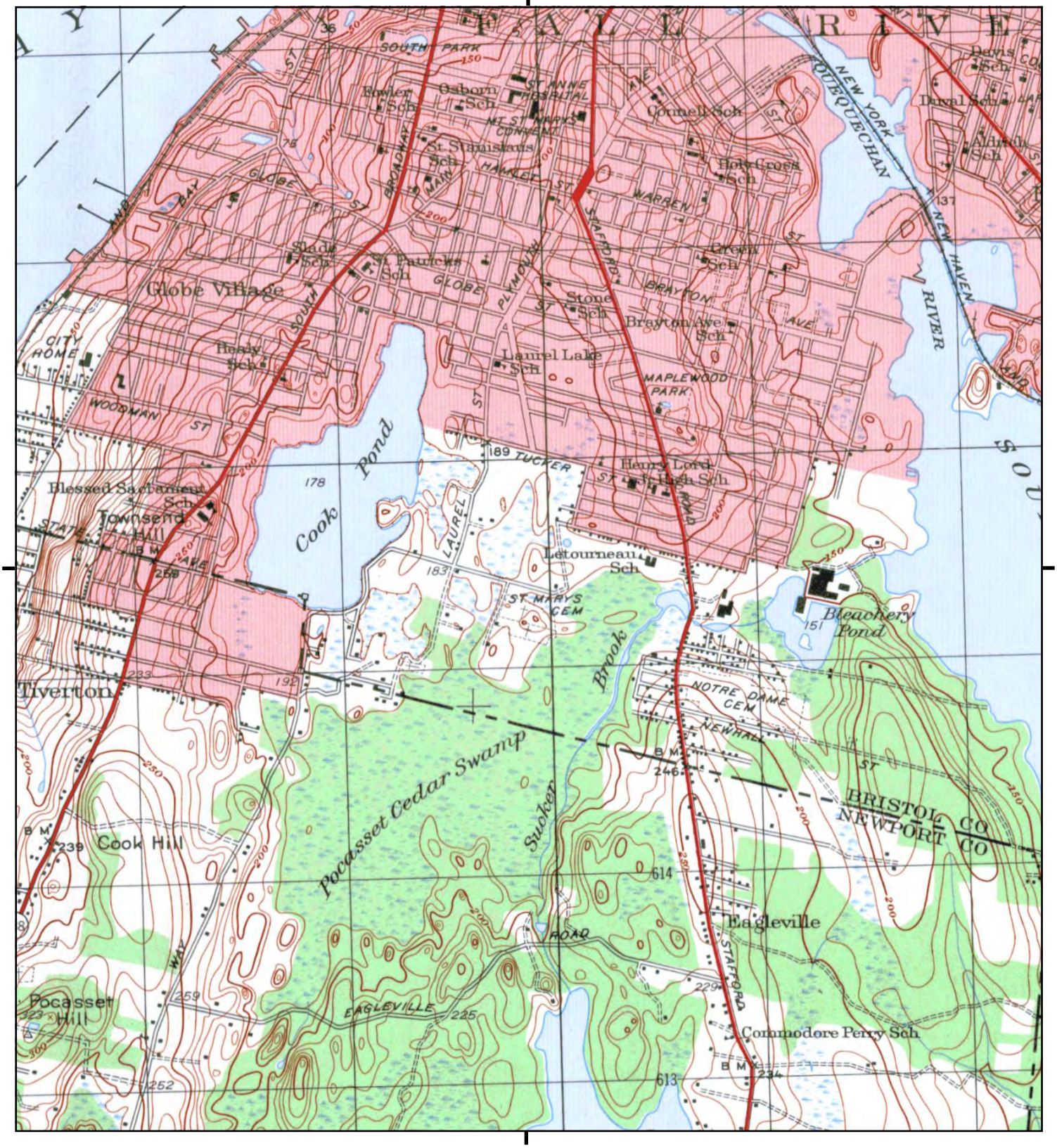
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Fall River, 1949, 7.5-minute

SITE NAME: 350 Marino Bishop Blvd
ADDRESS: 350 Marino Bishop Blvd
Fall River, MA 02721
CLIENT: Geological Field Services

N




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

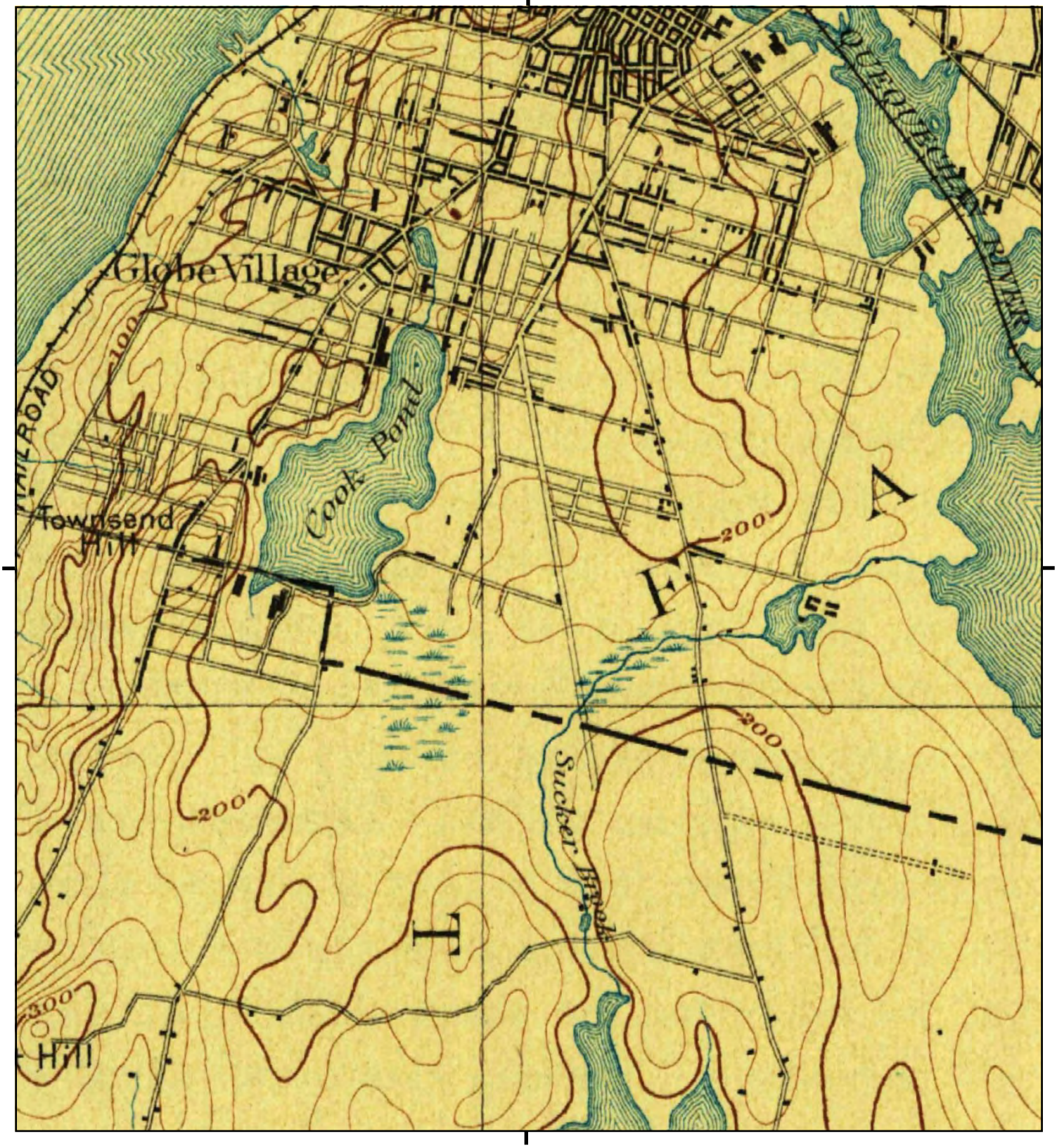
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, FALL RIVER, 1944, 7.5-minute

SITE NAME: 350 Marino Bishop Blvd
ADDRESS: 350 Marino Bishop Blvd
Fall River, MA 02721
CLIENT: Geological Field Services

N




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

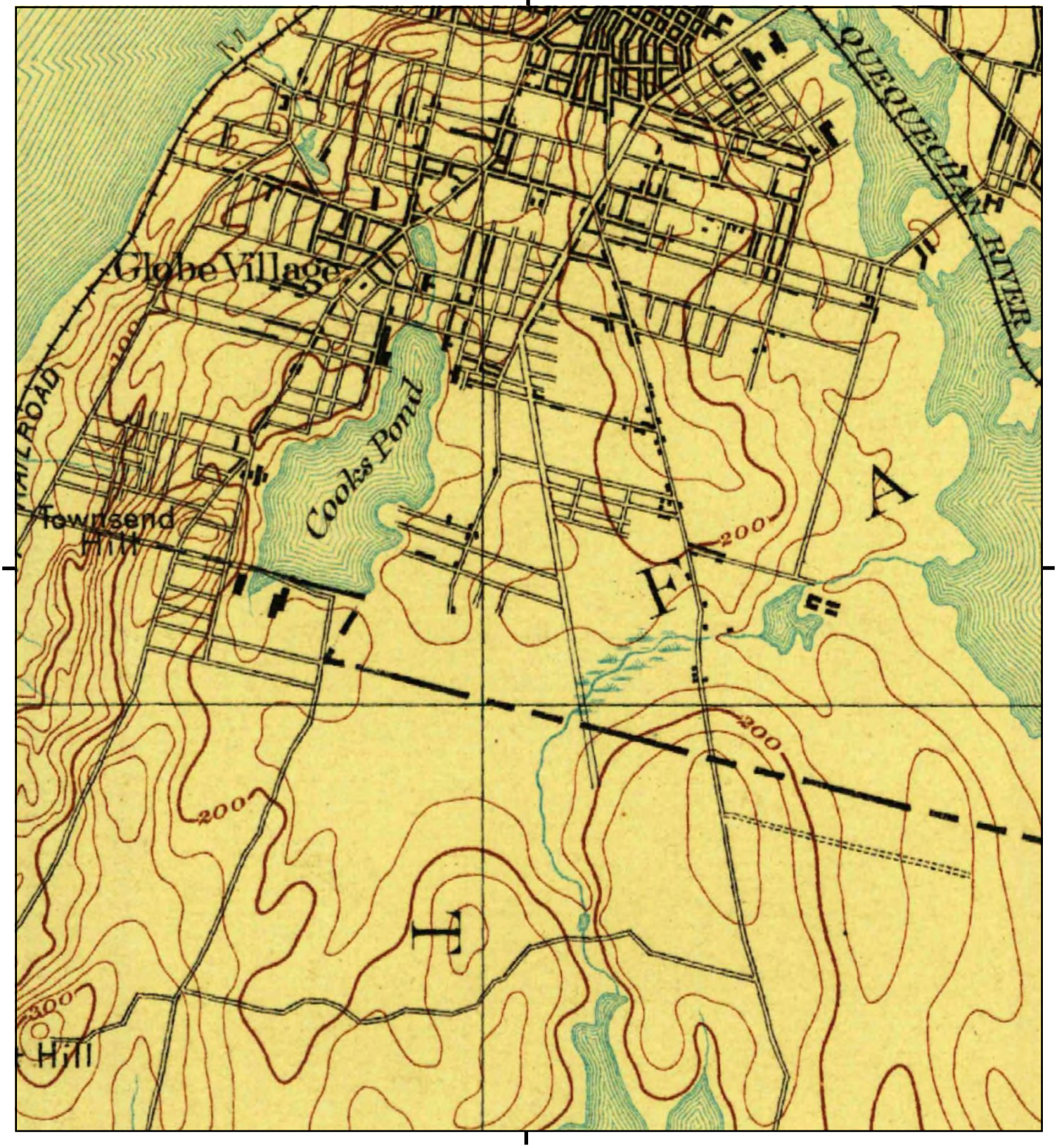
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Fall River, 1893, 15-minute

SITE NAME: 350 Marino Bishop Blvd
ADDRESS: 350 Marino Bishop Blvd
Fall River, MA 02721
CLIENT: Geological Field Services

N




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

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Fall River, 1888, 15-minute

SITE NAME: 350 Marino Bishop Blvd
ADDRESS: 350 Marino Bishop Blvd
Fall River, MA 02721
CLIENT: Geological Field Services

N

**350 Marino Bishop Blvd**

350 Marino Bishop Blvd

Fall River, MA 02721

Inquiry Number: 7334882.8

May 11, 2023

# The EDR Aerial Photo Decade Package

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

# EDR Aerial Photo Decade Package

05/11/23

**Site Name:**

350 Marino Bishop Blvd
350 Marino Bishop Blvd
Fall River, MA 02721
EDR Inquiry # 7334882.8

**Client Name:**

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Salem, MA 01970
Contact: Luke Fabbri

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

***Search Results:***

| *Year* | *Scale* | *Details* | *Source* |
|---|---|---|---|
| 2018 | 1"=500' | Flight Year: 2018 | USDA/NAIP |
| 2014 | 1"=500' | Flight Year: 2014 | USDA/NAIP |
| 2010 | 1"=500' | Flight Year: 2010 | USDA/NAIP |
| 2006 | 1"=500' | Flight Year: 2006 | USDA/NAIP |
| 1995 | 1"=500' | Acquisition Date: March 29, 1995 | USGS/DOQQ |
| 1975 | 1"=500' | Flight Date: April 30, 1975 | USGS |
| 1970 | 1"=500' | Flight Date: October 06, 1970 | USDA |
| 1966 | 1"=500' | Flight Date: February 22, 1966 | USGS |
| 1962 | 1"=500' | Flight Date: April 27, 1962 | RIGIS |
| 1952 | 1"=500' | Flight Date: October 12, 1952 | USDA |
| 1939 | 1"=500' | Flight Date: May 10, 1939 | RIGIS |

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INQUIRY #: 7334882.8
YEAR: 2018
= 500'
N
EDR


INQUIRY #: 7334882.8
YEAR: 2014
= 500'
N
EDR


INQUIRY #: 7334882.8
YEAR: 2010
= 500'
N
EDR


INQUIRY #: 7334882.8
YEAR: 2006
= 500'
N
EDR


INQUIRY #: 7334882.8
YEAR: 1995
= 500'
N
EDR
Subject boundary not shown because it exceeds image extent or image is not georeferenced.


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= 500'
N
EDR

INQUIRY #: 7334882.8

YEAR: 1970

= 500'

N

EDR


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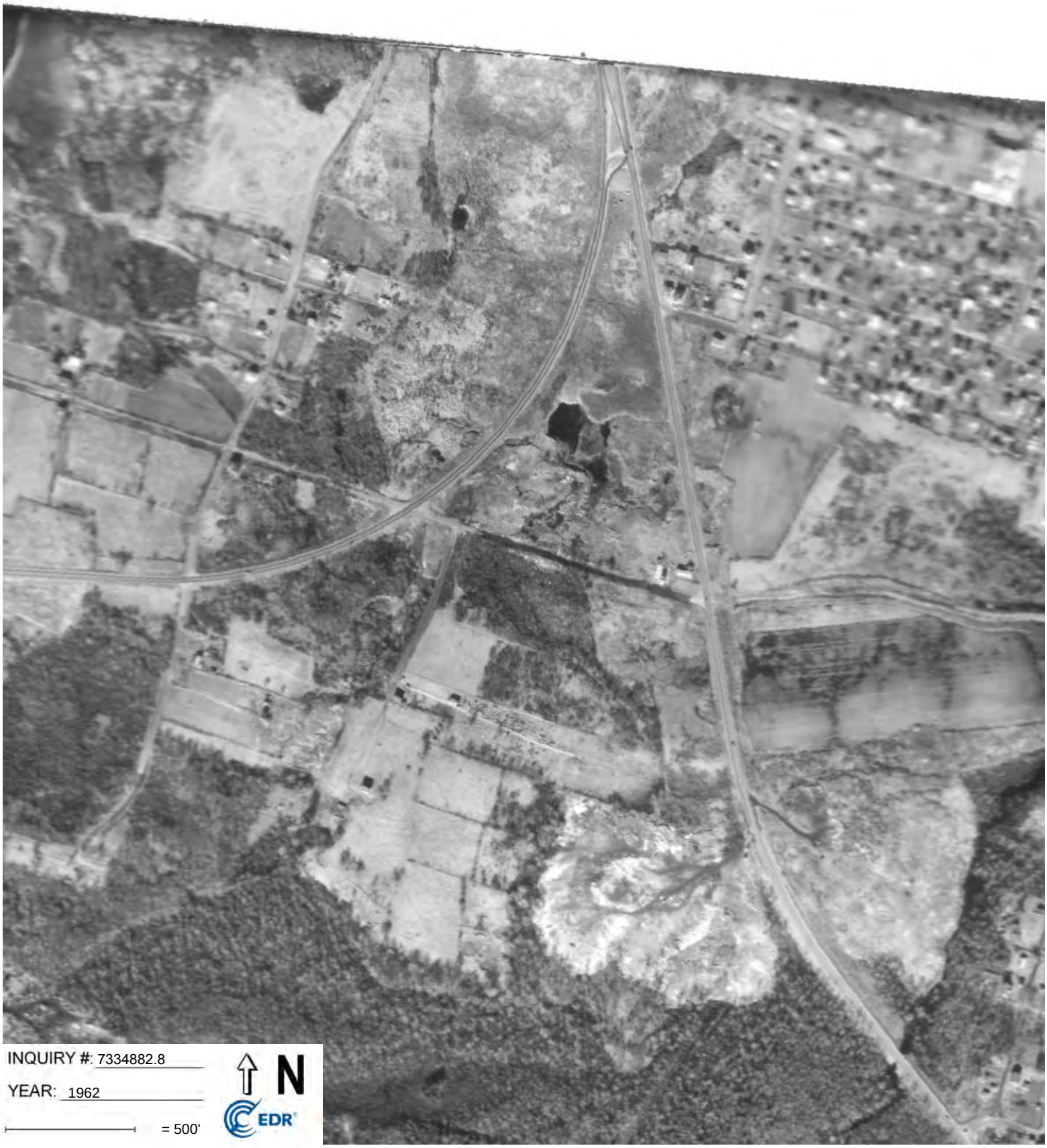
YEAR: 1966
= 500'
N
EDR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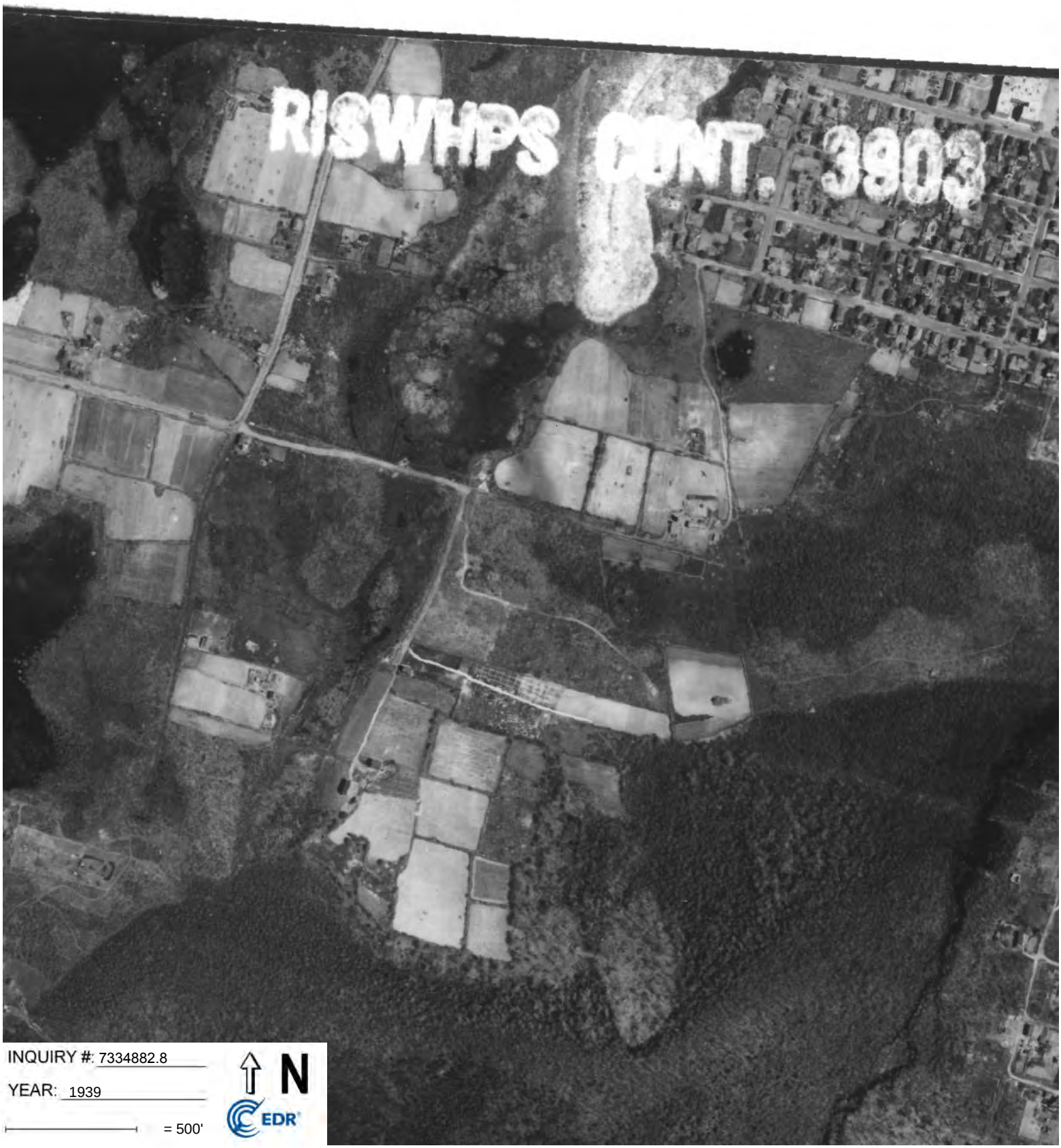
YEAR: 1962
= 500'
N
EDR


INQUIRY #: 7334882.8
YEAR: 1952
= 500'
N
EDR




INQUIRY #: 7334882.8

YEAR: 1939

= 500'

N

EDR

**350 Marino Bishop Blvd**
350 Mariano Bishop Blvd
Fall River, MA 02721

Inquiry Number: 7334882.5
May 16, 2023

# The EDR-City Directory Image Report

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

# TABLE OF CONTENTS

## SECTION



***Thank you for your business.***
Please contact EDR at 1-800-352-0050
with any questions or comments.

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, LLC. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. This Report is provided on an "AS IS", "AS AVAILABLE" basis. **NO WARRANTY EXPRESS OR IMPLIED IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, LLC AND ITS SUBSIDIARIES, AFFILIATES AND THIRD PARTY SUPPLIERS DISCLAIM ALL WARRANTIES, OF ANY KIND OR NATURE, EXPRESS OR IMPLIED, ARISING OUT OF OR RELATED TO THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES REGARDING ACCURACY, QUALITY, CORRECTNESS, COMPLETENESS, COMPREHENSIVENESS, SUITABILITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, NON-INFRINGEMENT, MISAPPROPRIATION, OR OTHERWISE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, LLC OR ITS SUBSIDIARIES, AFFILIATES OR THIRD PARTY SUPPLIERS BE LIABLE TO ANYONE FOR ANY DIRECT, INCIDENTAL, INDIRECT, SPECIAL, CONSEQUENTIAL OR OTHER DAMAGES OF ANY TYPE OR KIND (INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, LOSS OF USE, OR LOSS OF DATA), ARISING OUT OF OR IN ANY WAY CONNECTED WITH THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT.** Any analyses, estimates, ratings, environmental risk levels, or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only an assessment performed by a qualified environmental professional can provide findings, opinions or conclusions regarding the environmental risk or conditions in, on or at any property.

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# EXECUTIVE SUMMARY

## DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available business directory data at approximately five year intervals.

## RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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## RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

| *Year* | *Target Street* | *Cross Street* | *Source* |
|---|---|---|---|
| 2020 | ☑ | ☐ | EDR Digital Archive |
| 2017 | ☑ | ☐ | Cole Information |
| 2014 | ☑ | ☐ | Cole Information |
| 2010 | ☑ | ☐ | Cole Information |
| 2005 | ☑ | ☐ | Cole Information |
| 2000 | ☑ | ☐ | Cole Information |
| 1995 | ☑ | ☐ | Cole Information |
| 1992 | ☑ | ☐ | Cole Information |
| 1990 | ☑ | ☐ | POLK DIRECTORY CO |
| 1985 | ☑ | ☐ | POLK DIRECTORY CO |
| 1980 | ☑ | ☐ | POLK DIRECTORY CO |
| 1975 | ☑ | ☐ | POLK DIRECTORY CO |
| 1970 | ☑ | ☐ | POLK DIRECTORY CO |
| 1965 | ☑ | ☐ | POLK DIRECTORY CO |
| 1963 | ☑ | ☐ | POLK DIRECTORY CO |
| 1950 | ☐ | ☐ | POLK DIRECTORY CO |
| 1947 | ☐ | ☐ | POLK DIRECTORY CO |
| 1940 | ☐ | ☐ | POLK DIRECTORY CO |
| 1938 | ☐ | ☐ | Sampson-Murdock City Directory |

# FINDINGS

## TARGET PROPERTY STREET

350 Mariano Bishop Blvd
Fall River, MA 02721

| *Year* | *CD Image* | *Source* | |
|---|---|---|---|

## MARIANO BISHOP BLVD

| | | | |
|---|---|---|---|
| 2020 | pg A1 | EDR Digital Archive | |
| 2017 | pg A2 | Cole Information | |
| 2014 | pg A3 | Cole Information | |
| 2010 | pg A4 | Cole Information | |
| 2005 | pg A5 | Cole Information | |
| 2000 | pg A6 | Cole Information | |
| 1995 | pg A7 | Cole Information | |
| 1992 | pg A8 | Cole Information | |
| 1990 | pg A10 | POLK DIRECTORY CO | |
| 1990 | pg A9 | POLK DIRECTORY CO | |
| 1985 | pg A11 | POLK DIRECTORY CO | |
| 1985 | pg A12 | POLK DIRECTORY CO | |
| 1980 | pg A13 | POLK DIRECTORY CO | |
| 1975 | pg A14 | POLK DIRECTORY CO | |
| 1975 | pg A15 | POLK DIRECTORY CO | |
| 1970 | pg A16 | POLK DIRECTORY CO | |
| 1965 | pg A17 | POLK DIRECTORY CO | |
| 1965 | pg A18 | POLK DIRECTORY CO | |
| 1963 | pg A19 | POLK DIRECTORY CO | |
| 1950 | - | POLK DIRECTORY CO | Street not listed in Source |
| 1947 | - | POLK DIRECTORY CO | Street not listed in Source |
| 1940 | - | POLK DIRECTORY CO | Street not listed in Source |
| 1938 | - | Sampson-Murdock City Directory | Street not listed in Source |

# FINDINGS

## CROSS STREETS

No Cross Streets Identified

# City Directory Images

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | EDR Digital Archive |

# MARIANO BISHOP BLVD 2020

| | |
|---|---|
| 333 | ATM |
| | BLUE RHINO |
| | CITIZENS BANK |
| | COINSTAR |
| | REDBOX |
| | STOP & SHOP FLORIST |
| | STOP & SHOP PHARMACY |
| | STOP & SHOP SUPERMARKET |
| | UPS ACCESS POINT LOCKER |
| | WESTERN UNION AGENT LOCATION |
| 340 | PAPA GINO'S |
| 350 | BURNS POWER TOOLS |
| | BURNS TOOLS |
| 356 | SUBWAY |
| 358 | COMPLIMENTS |
| 366 | COZY KETTLE |
| 422 | Deborah Moses-Sylvia |
| | FOLLOW THE LIGHT INC |
| | Gregory Sylvain |
| | MOSES DEBORAH A DDS |
| | SIOGROS-PEPI JOYCE DMD |
| 440 | Homero Rosa |
| | Joshua Rosa |
| | Maria Rosa |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Cole Information |

# MARIANO BISHOP BLVD 2017

| | |
|---|---|
| 195 | TACO BELL |
| 211 | SLEEPYS |
| 213 | STOP & SHOP FLORIST |
| 333 | CITIZENS BANK |
| | CRICKET |
| | STOP & SHOP |
| 340 | PAPA GINOS PIZZERIA |
| 350 | BURNS POWER TOOLS |
| 353 | CORNER SLEEP SHOP |
| 356 | SUBWAY |
| 358 | COMPLIMENTS |
| 366 | COZY KETTLE |
| | JOES FAMILY RESTAURANT |
| 422 | DEBORAH A MOSES DDS |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Cole Information |

# MARIANO BISHOP BLVD 2014

| | |
|---|---|
| 213 | STOP & SHOP |
| 333 | CITIZENS BANK |
| | OCCUPANT UNKNOWN, |
| | STOP & SHOP FLORIST |
| 340 | PAPA GINOS |
| 350 | BURNS POWER TOOLS |
| 353 | CORNER SLEEP SHOP |
| 356 | SUBWAY SANDWICHES |
| 358 | COMPLIMENTS |
| 366 | JOES FAMILY RESTAURANT |
| 422 | MOSES DEBORAH A DDS |
| | NUTRITION EDUCATION PROGRAM UMASS EX |
| | UMASS EXTENSION |
| 440 | ROSA, HOMERO |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Cole Information |

# MARIANO BISHOP BLVD 2010

| | |
|---|---|
| 195 | TACO BELL |
| 211 | SLEEPYS THE MATTRESS PROS |
| 213 | STOP & SHOP SUPERMARKET |
| | SUPER STOP & SHOP FLORIST |
| 333 | CITIZENS BANK |
| | DUNKIN DONUTS |
| | SUPER STOP & SHOP |
| 340 | PAPA GINOS |
| 350 | BURNS POWER TOOLS |
| 353 | CORNER SLEEP SHOP |
| 356 | SUBWAY |
| 358 | COMPLIMENTS |
| 366 | JOES FAMILY RESTAURANT |
| 422 | MOSES DEBORAH DDS |
| | U MASS EXTENSION NUTRITION |
| 440 | ROSA, HOMERO |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Cole Information |

# MARIANO BISHOP BLVD 2005

| | |
|---|---|
| 90 | FURTADO, MIKE J |
| 109 | NATIONAL WHOLESALE LIQUIDATORS |
| | SAVERS |
| 133 | SEARS OUTLET |
| 135 | FRIENDLY ICE CREAM CORP |
| 145 | CUTTING EDGE |
| 147 | DOLLAR VALUE |
| 153 | L T NAIL |
| 159 | RENT A CENTER INC |
| | RENT RITE |
| 181 | INC NWL |
| | NATIONAL ONE HOUR PHOTO |
| | NATIONAL WHOLESALE LIQIDATORS |
| 195 | FALL RIVER TACO INC |
| | TACO BELL |
| 211 | BICKFORDS FAMILY RESTAURANT |
| 333 | CITIZENS BANK |
| | SUPER STOP & SHOP |
| 353 | FRANCIS RB INC |
| 356 | SUBWAY RESTAURANT |
| | SUBWAY SANDWICHES |
| 358 | COMPLAINTS HAIR SALON INC |
| 366 | JOES FAMILY RESTAURANT |
| 422 | CENTURY 21 HOLDEN STEEN RE |
| | HOLDING STEEN REAL ESTATE INC |
| | MOSES DEBORAH |
| | WELL BUILT HOMES INC |
| 440 | ROSA, HOMERO |
| 515 | CVS PHARMACY # 20 |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Cole Information |

## MARIANO BISHOP BLVD 2000

| | |
|---|---|
| 211 | BICKFORDS FAMILY RESTAURANT |
| 356 | SUBWAY SANDWICHES |
| 366 | JOES FAMILY RESTAURANT |
| 422 | CENTURY 21 HOLDING STEEN REAL ESTATE |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Cole Information |

# MARIANO BISHOP BLVD 1995

| | |
|---|---|
| 211 | BICKFORDS FAMILY RESTAURANT |
| 213 | STOP & SHOP FLORIST |
| | STOP & SHOP SUPERMARKET |
| 340 | PAPA GINO'S-FALL RIVER |
| 350 | BURNS POWER TOOLS |
| | BURNS POWER TOOLS-SERVICE DEPT |
| 353 | CORNER SLEEP SHOP |
| 356 | SUBWAY SANDWICHES |
| 366 | JOE'S FAMILY RESTAURANT |

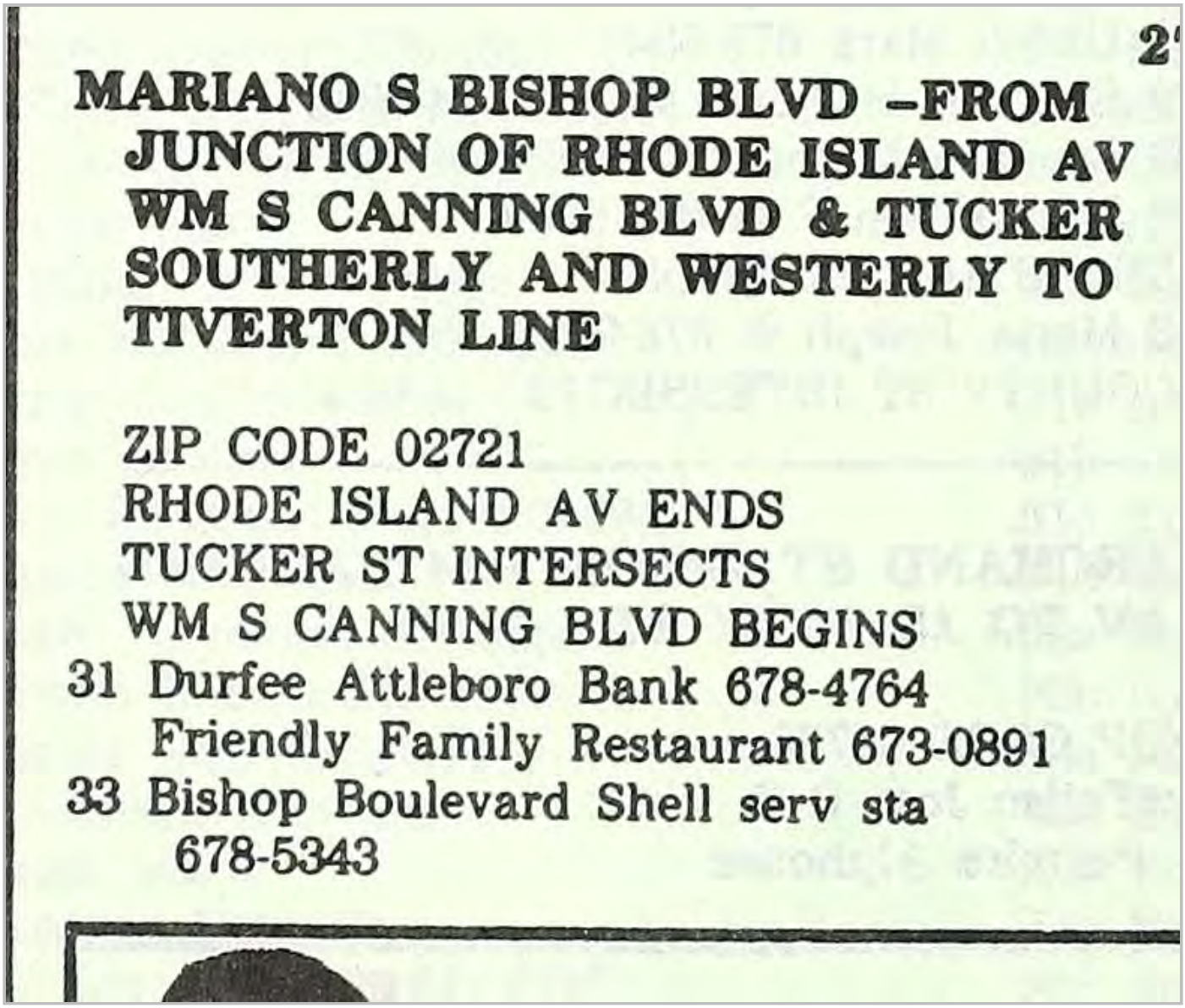
| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Cole Information |

# MARIANO BISHOP BLVD 1992

| | |
|---|---|
| 150 | PENNEY, J C CATALOG SALES CENTER |
| 153 | COLOR TYME TV RENTALS |
| 155 | TACO BELL |
| 181 | FRIENDLY ICE CREAM SHOPS |
| | ZAYRE DEPT STORE |
| 211 | BICKFORDS FAMILY RESTAURANT |
| 213 | STOP & SHOP SUPERMARKET |
| 340 | PAPA GINO'S-FALL RIVER |
| 350 | BURNS POWER TOOLS |
| | BURNS POWER TOOLS-SERVICE DEPT |
| 358 | CAJUN JOE'S |
| 366 | LEO'S RESTAURANT |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | POLK DIRECTORY CO |

## MARIANO BISHOP BLVD 1990



MARIANO S BISHOP BLVD –FROM JUNCTION OF RHODE ISLAND AV WM S CANNING BLVD & TUCKER SOUTHERLY AND WESTERLY TO TIVERTON LINE

ZIP CODE 02721
RHODE ISLAND AV ENDS
TUCKER ST INTERSECTS
WM S CANNING BLVD BEGINS

31 Durfee Attleboro Bank 678-4764
Friendly Family Restaurant 673-0891
33 Bishop Boulevard Shell serv sta
678-5343

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | POLK DIRECTORY CO |

## MARIANO BISHOP BLVD 1990

Wendy's Old Fashioned Hamburgers fast food restr 674-1740
35 Fall River Shopping Center 676-8246
51 C V S Pharmacy health & beauty aids 678-9031
Chuck E Cheese's food & entertainment 675-4800
53 Toy Works genl mdse 677-1801
67 Hamel Waxler Allen & Collins P C lwyr 679-3800
67a Norrell Health Care hlth care conslts 677-1844
75 Delken Coin Laundromat 672-9484
83 Mc Crory's dept store 678-4191
109 Sears Outlet ret 677-4640
145 Fanny Farmer Candy Shops Inc 679-4459
147 Price Appeal wns apparel 677-3823
153 Color Tyme elec 678-1900
159 Sears (Addl Sp)
181 Ames dept store 678-7621
195 Taco Bell Co Inc mexican food 677-0929
211 Bickfords Family Fare 677-0255
333 Super Stop & Shop gro 675-0391
340 Papa Gino's restr 675-1100
AMITY ST INTERSECTS
LAUREL ST INTERSECTS
350 Burns Power Tools power tools 675-0381
353 Corner Sleep Shop beds ret 674-0440
FREDERICK ST BEGINS
WHITEFIELD ST BEGINS
5 1130★Alves Arthur ◎ 676-6132
1144 Picard Ronald W ◎ 678-3086
LYNWOOD ST BEGINS

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | POLK DIRECTORY CO |

## MARIANO BISHOP BLVD 1985

27

MARIANO S BISHOP BLVD —FROM JUNCTION OF RHODE ISLAND AV WM S CANNING BLVD & TUCKER SOUTHERLY AND WESTERLY TO TIVERTON LINE

ZIP CODE 02721
RHODE ISLAND AV ENDS
TUCKER ST INTERSECTS
WM S CANNING BLVD BEGINS

31 Durfee Attleboro Bank 678-4764
Friendly Family Restaurant 673-0891
33 Bishop Boulevard Shell serv sta 678-5343
Wendy's Old Fashioned Hamburgers fast food restr 674-1740
35 Fall River Shopping Center 676-8246

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | POLK DIRECTORY CO |

**MARIANO BISHOP BLVD 1985**

51 C V S Pharmacy health & beauty aids 678-9031
Chuck E Cheese's food & entertainment 675-4800
53 Odd Lot genl mdse 674-1015
67 Fall River Vision Center 673-2370
67a Posner Douglas optn 673-2370
75 Egan's Coin Laundromat 672-9484
83 Mc Crory's dept store 678-4191
109 Edgar's Inc dept store 678-9004
145 Fanny Farmer Candy Shops Inc 679-4459
147 Simply Sportswear women's clo ret 675-1823
153 E-Z Rental (Venture Cap Invesment Corp) hsehold appliance rental 675-8880
159 Thom Mc An Family Shoe Store 672-9430
181 Zayre's dept store 678-7621
211 Rustler Steak House 678-4422
333 Super Stop & Shop gro 675-0391
340 Papa Gino's restr 675-1100
AMITY ST INTERSECTS
LAUREL ST INTERSECTS
350 Burns Power Tools retail power tools 675-0381
353 Off Track Bedding beds ret 674-0440
FREDERICK ST BEGINS
WHITEFIELD ST BEGINS
1130 Andrews Joseph M ◎ 674-5489
1144 Picard Ronald W ◎ 678-3086
LYNWOOD ST BEGINS

28

MARIER ST —FROM DEAD END

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | POLK DIRECTORY CO |

## MARIANO BISHOP BLVD 1980

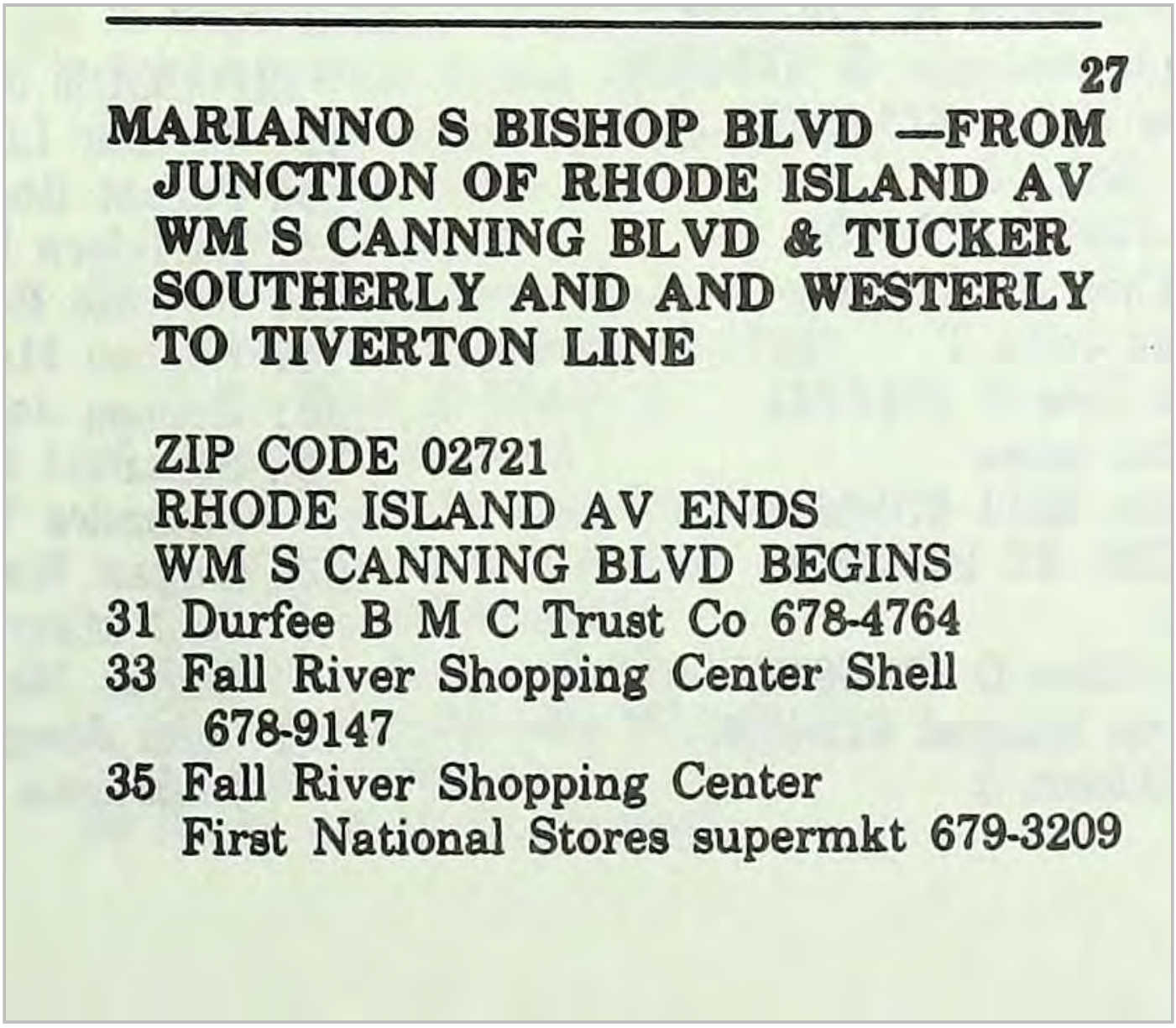


**MARIANO S BISHOP BLVD —FROM JUNCTION OF RHODE ISLAND AV WM S CANNING BLVD & TUCKER SOUTHERLY AND WESTERLY TO TIVERTON LINE**

ZIP CODE 02721
RHODE ISLAND AV ENDS
TUCKER ST INTERSECTS
WM S CANNING BLVD BEGINS
31 Durfee Trust Co 678-4764
Friendly Family Restaurant 673-0891
33 Fall River Shopping Center Shell serv sta 672-9308
35 Fall River Shopping Center 676-8246
Underground Photo 678-6626
35 Edwards Warehouse supermkt 679-3209
51 C V S Pharmacy health & beauty aids 678-9032
67 Pearle Vision Center 674-4676
67a Posner Douglas optn 673-3270
75 Eagan's Coin-O-Matic Launderette & Dry Clng Cntr 672-9484
83 Mc Crory's dept store 678-4191
109 Edgar's Inc dept store 678-9004
145 Fanny Farmer Candy Shops Inc 679-4459
147 Simply Sportswear women's clo ret 675-1823
153 Zale's Jewelers (Br) 674-8429
159 Thom Mc An Family Shoe Store 672-9430
181 Zayre's dept store 678-7621
211 Rustler Steak House 678-4422
AMITY ST INTERSECTS
LAUREL ST INTERSECTS
FREDERICK ST BEGINS
WHITEFIELD ST BEGINS
1130 Andrews Joseph M ◎ 674-5489
1144★Picard Ronald W ◎ 678-3086
LYNWOOD ST BEGINS

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | POLK DIRECTORY CO |

## MARIANO BISHOP BLVD 1975



27

MARIANNO S BISHOP BLVD —FROM
JUNCTION OF RHODE ISLAND AV
WM S CANNING BLVD & TUCKER
SOUTHERLY AND AND WESTERLY
TO TIVERTON LINE

ZIP CODE 02721
RHODE ISLAND AV ENDS
WM S CANNING BLVD BEGINS
31 Durfee B M C Trust Co 678-4764
33 Fall River Shopping Center Shell
678-9147
35 Fall River Shopping Center
First National Stores supermkt 679-3209

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | POLK DIRECTORY CO |

**MARIANO BISHOP BLVD 1975**

51 Consumer Value Store health & beauty aids 672-9423
55 Sean's Restr Inc 672-9584
59 Camara Enterprises photog equip & sup ret 678-6626
61 Bluebird Shops lingerie & sportswear ret 678-4261
67 Vacant
75 Eagan's Coin-O-Matic Launderette & Dry Clng Cntr 672-9484
83 Mc Crory's dept store 678-4191
109 Edgar's Inc dept store 678-9004
145 Fanny Farmer Candy Shops Inc ret sls
147 Simply Sportswear women's clo ret 675-1823
153 Zale's Jewelers (Br) 674-8429
159 Thom Mc An Family Shoe Store 672-9430
181 Zayre's dept store 678-7621
2111 Rustler Steak House 675-1626
AMITY ST INTERSECTS
LAUREL ST INTERSECTS
FREDERICK ST BEGINS
WHITEFIELD ST BEGINS
1130 Andrews Joseph ◎ 674-5489
1144 Paul Normand ◎ 673-3160
LYNWOOD ST BEGINS

28

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | POLK DIRECTORY CO |

**MARIANO BISHOP BLVD 1970**



**MARIANNO S BISHOP BLVD —FROM JUNCTION OF RHODE ISLAND AV & TUCKER SOUTHERLY AND WESTERLY TO TIVERTON LINE**

ZIP CODE 02721

16 Jerry's Atlantic gas sta 678-9830
WM S CANNING BLVD BEGINS
31 Durfee B M C Trust Co 678-4764
33 John's Shell Ranch 673-3239
35 Fall River Shopping Center
First National Stores gro & meat retail 678-9872
51 Eagle Wine Co Inc liquors retail 677-9881
55 Earnshaw's Coffee Shop 678-4041
59 Kennedy & Co Inc butter & eggs 672-9161
61 Bluebird Shops lingerie 678-4261
67 Mister Slacks 674-3692
71 Boulevard Coin-O-Matic Lndry 672-9484
75 Consumer Value Store cosmetics
83 Mc Crory's dept store 678-4191
109 Edgar's Inc dept store 678-9004
145 Fanny Farmer candy 674-2260
147 Blair's Card & Gift Shop 675-7610
153 Zale's Jewelers (Br) 674-8429
159 Mc An Thom Family Shoe Store 672-9430
181 Zayre's dept store 678-7621
AMITY ST INTERSECTS
LAUREL ST INTERSECTS
FREDERICK ST BEGINS
WHITFIELD ST BEGINS
1130 Andrews Joseph M ◎ 674-5489
1144 Paul Normand ◎
LYNWOOD ST BEGINS

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | POLK DIRECTORY CO |

## MARIANO BISHOP BLVD 1965

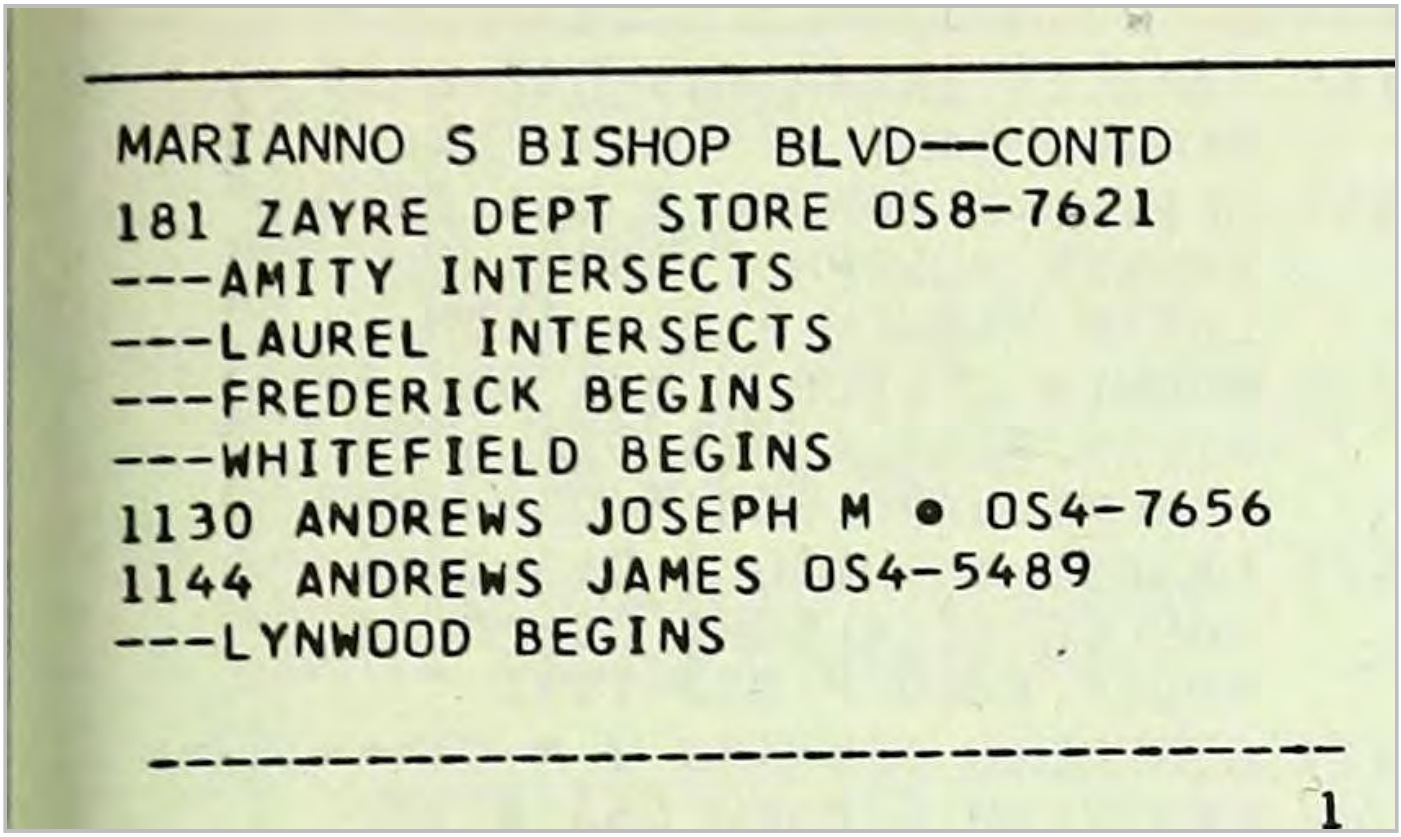


MARIANNO S BISHOP BLVD -FROM
JUNCTION OF RHODE ISLAND AV &
TUCKER SOUTHERLY AND WESTERLY
TO TIVERTON LINE

16 JERRY'S ATLANTIC GAS STA
OS8-9830
---WM S CANNING BLVD BEGINS
35 FALL RIVER SHOPPING CENTER
FIRST NATIONAL STORES GRO &
MEAT RETAIL OS8-9872
51 EAGLE WINE CO INC LIQUORS
RETAIL 677-9881
55 EARNSHAW'S COFFEE SHOP RESTR
678-4041
59 KENNEDY & CO INC BUTTER & EGGS
672-9161
61 BLUEBIRD SHOPS LINGERIE
678-4261
65 VACANT
67 VACANT
71 BOULEVARD COIN-O-MATIC LNDRY
672-9484
75 ATAMAN'S FLOWERS PHOTOG DRESS
CLOTHES 674-4334
83 MC CRORY'S DEPT STORE 678-4191
109 EDGAR'S INC DEPT STORE
678-9004
145 FANNY FARMER CANDY
147 BLAIR'S CARD & GIFT SHOP
675-7610
153 ZALE'S JEWELERS (BR) 674-8429
159 THOM MC AN FAMILY SHOE STORE
SHOES RETAIL

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | POLK DIRECTORY CO |

## MARIANO BISHOP BLVD 1965

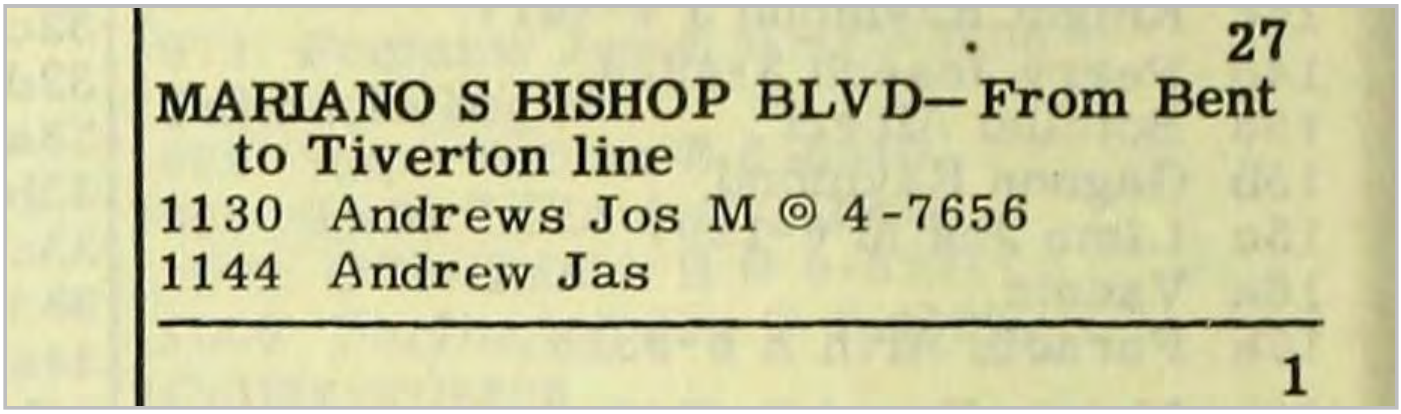


MARIANNO S BISHOP BLVD--CONTD
181 ZAYRE DEPT STORE OS8-7621
---AMITY INTERSECTS
---LAUREL INTERSECTS
---FREDERICK BEGINS
---WHITEFIELD BEGINS
1130 ANDREWS JOSEPH M • OS4-7656
1144 ANDREWS JAMES OS4-5489
---LYNWOOD BEGINS

1

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | POLK DIRECTORY CO |

## MARIANO BISHOP BLVD 1963



27

MARIANO S BISHOP BLVD—From Bent to Tiverton line

1130 Andrews Jos M © 4-7656

1144 Andrew Jas

1

# APPENDIX B

| GEOLOGICAL FIELD SERVICES<br>14 Hubon Street<br>Salem, MA 01970<br>(781) 662-9800 | Client: The Stonewood Co. | BORING |
|---|---|---|
| | Project: 23144 | NUMBER:GFS-1 |
| | Location: Fall River<br>350 Mariano Bishop Blvd. | Sheet No: 1<br>of: 1 |

| Inspector: Ryan Macka | Date Start: 6/2/23 | Elevation: |
|---|---|---|
| Driller: Hayes | Date Finish:6/2/23 | Water Elev: |
| Company: NE Geotech | Field Eq: RAE mini | Cal Gas:100 ppm ISO |

Drill Method: GeoProbe  Sample: 5' x 2.125" Marco w/acetate liners

| Sample | | | Strata | Classification and Remarks |
|---|---|---|---|---|
| Depth (Feet) | Number | Recovery (Inches | Change | |
| 0 | S-1 | 41 | 0-10" | 2" Asphalt and 8" road base. |
| | | | 10-41" | Gray , fine SAND, dense, some foam and rubber |
| 1 | | | | |
| | | | | 0.7 ppm OVM. |
| 2 | | | | |
| | | | | |
| 3 | | | | |
| | | | | |
| 4 | | | | |
| | | | | |
| 5 | S-2 | 25 | 0-19" | Gray , fine SAND, dense, some foam and rubber |
| | | | | |
| 6 | | | 19-25" | Black, fine SAND fill with wood and rubber. |
| | | | | |
| 7 | | | | |
| | | | | |
| 8 | | | | 1.9 ppm OVM. |
| | | | | |
| 9 | | | | |
| | | | | |
| 10 | S-3 | 46 | 0-4" | Cave in |
| | | | 4-20" | Black fine to medium SAND with rubber |
| 11 | | | | and foam, fill. |
| | | | 20-46" | Gray to black, Fine SAND well sorted |
| | | | | native material. |
| 12 | | | | |
| | | | | 1.8 ppm OVM. |
| 13 | | | | |
| | | | | |
| 14 | | | | |
| | | | | |
| 15 | S-4 | 60 | | Gray to black, fine SAND, well sorted |
| | | | | Saturated. |
| 16 | | | | 0.8 PPM OVM. |
| | | | | |
| 17 | | | | |
| | | | | |
| 18 | | | | |
| | | | | |
| 19 | | | | |
| | | | | |
| 20 | | | | EOB at 20 feet collected composite sample |
| | | | | from TP-1. Set well GFS-1. |

| GEOLOGICAL FIELD SERVICES<br>14 Hubon Street<br>Salem, MA 01970<br>(781) 662-9800 | Client: The Stonewood Co.<br>Project: 23144<br>Location: Fall River<br>350 Mariano Bishop Blvd. | BORING<br>NUMBER:GFS-2<br>Sheet No: 1<br>of: 1 |
|---|---|---|

| Inspector: Ryan Macka | Date Start: 6/2/23 | Elevation: |
|---|---|---|
| Driller: Hayes | Date Finish:6/2/23 | Water Elev: |
| Company: NE Geotech | Field Eq: RAE mini | Cal Gas:100 ppm ISO |

Drill Method: GeoProbe  Sample: 5' x 2.125" Marco w/acetate liners

| Sample | | | | |
|---|---|---|---|---|
| Depth (Feet) | Number | Recovery (Inches | Strata Change | Classification and Remarks |
| 0 | S-1 | 22 | 0-2" | 2" Asphalt |
| | | | 2-22" | Brown, poorly sorted medium to fine SAND |
| 1 | | | | and Gravel. |
| | | | | |
| 2 | | | | 0.2 ppm OVM. |
| | | | | |
| 3 | | | | |
| | | | | |
| 4 | | | | |
| | | | | |
| 5 | S-2 | 30 | 0-18" | Black poorly sorted, medium to fine SAND, |
| | | | | some rubber and wood fill. |
| 6 | | | 18-30" | Dense, fine SAND, trace Gravel, wet. |
| | | | | |
| 7 | | | | 2.1 ppm OVM. |
| | | | | |
| 8 | | | | |
| | | | | |
| 9 | | | | |
| | | | | |
| 10 | S-3 | 48 | | Dense, fine SAND, trace Gravel, saturated. |
| | | | | |
| 11 | | | | 0.8 ppm OVM. |
| | | | | |
| | | | | |
| 12 | | | | Lab sample 5-10 feet set well GFS-2 |
| | | | | |
| 13 | | | | |
| | | | | |
| 14 | | | | |
| | | | | |
| 15 | | | | |
| | | | | |
| 16 | | | | |
| | | | | |
| 17 | | | | |
| | | | | |
| 18 | | | | |
| | | | | |
| 19 | | | | |
| | | | | |
| 20 | | | | |
| | | | | |

| GEOLOGICAL FIELD SERVICES<br>14 Hubon Street<br>Salem, MA 01970<br>(781) 662-9800 | Client: The Stonewood Co.<br>Project: 23144<br>Location: Fall River<br>350 Mariano Bishop Blvd. | BORING<br>NUMBER:GFS-3<br>Sheet No: 1<br>of: 1 |
|---|---|---|

| Inspector: Ryan Macka | Date Start: 6/2/23 | Elevation: |
|---|---|---|
| Driller: Hayes | Date Finish:6/2/23 | Water Elev: |
| Company: NE Geotech | Field Eq: RAE mini | Cal Gas:100 ppm ISO |

Drill Method: GeoProbe  Sample: 5' x 2.125" Marco w/acetate liners

| Sample | | | | |
|---|---|---|---|---|
| Depth (Feet) | Number | Recovery (Inches | Strata Change | Classification and Remarks |
| 0 | S-1 | 48 | 0-10" | 2" Asphalt and 8" road base. |
| | | | 10-48" | Dense, poorly sorted fine to medium |
| 1 | | | | SAND, trace gravel. |
| | | | | |
| 2 | | | | 0.0 ppm OVM. |
| | | | | |
| 3 | | | | |
| | | | | |
| 4 | | | | |
| | | | | |
| 5 | S-2 | 24 | 0-4" | Dense, poorly sorted fine to medium |
| | | | | SAND, trace gravel. |
| 6 | | | 4-24" | Black fine sand with rubber tires and |
| | | | | automotive hose material, saturated. |
| 7 | | | | |
| | | | | 2.6 ppm OVM. |
| 8 | | | | |
| | | | | |
| 9 | | | | |
| | | | | |
| 10 | S-3 | 60 | 0-18" | Black fine sand with rubber tires and |
| | | | | automotive hose material, saturated. |
| 11 | | | 18-60" | Well sorted, gray to black, fine SAND. |
| | | | | |
| | | | | 0.0 ppm OVM. |
| 12 | | | | |
| | | | | |
| 13 | | | | |
| | | | | |
| 14 | | | | |
| | | | | |
| 15 | | | | Eob at 15' lab sample 5-12' set well |
| | | | | GFS-3. |
| 16 | | | | |
| | | | | |
| 17 | | | | |
| | | | | |
| 18 | | | | |
| | | | | |
| 19 | | | | |
| | | | | |
| 20 | | | | |
| | | | | |

| GEOLOGICAL FIELD SERVICES<br>14 Hubon Street<br>Salem, MA 01970<br>(781) 662-9800 | Client: The Stonewood Co.<br>Project: 23144<br>Location: Fall River<br>350 Mariano Bishop Blvd. | BORING<br>NUMBER:GFS-4<br>Sheet No: 1<br>of: 1 |
|---|---|---|

| Inspector: Ryan Macka | Date Start: 6/2/23 | Elevation: |
|---|---|---|
| Driller: Hayes | Date F: Project: 23144 | Water Elev: |
| Company: NE Geotech | Field Eq: RAE mini | Cal Gas:100 ppm ISO |

Drill Method: GeoProbe  Sample: 5' x 2.125" Marco w/acetate liners

| Sample Depth (Feet) | Sample Number | Sample Recovery (Inches | Strata Change | Classification and Remarks |
|---|---|---|---|---|
| 0 | S-1 | 42 | 0-8" | 2" Asphalt and 6" road base. |
| | | | 8-42" | Black fine SAND, trace organic material |
| 1 | | | | 0.8 ppm OVM. |
| | | | | |
| 2 | | | | |
| | | | | |
| 3 | | | | |
| | | | | |
| 4 | | | | |
| | | | | |
| 5 | S-2 | 38 | 0-6" | Black fine SAND, trace organic material |
| | | | 6-38" | Brown, poorly sorted, medium to fine SAND |
| 6 | | | | trace gravel. |
| | | | | |
| 7 | | | | 0.0 ppm OVM. |
| | | | | |
| 8 | | | | |
| | | | | |
| 9 | | | | |
| | | | | |
| 10 | S-3 | 60 | | Gray to black, coarse SAND, saturated |
| | | | | |
| 11 | | | | |
| | | | | |
| | | | | Lab sample 5-10 feet set well GFS-4. |
| 12 | | | | |
| | | | | |
| 13 | | | | |
| | | | | |
| 14 | | | | |
| | | | | |
| 15 | | | | |
| | | | | |
| 16 | | | | |
| | | | | |
| 17 | | | | |
| | | | | |
| 18 | | | | |
| | | | | |
| 19 | | | | |
| | | | | |
| 20 | | | | |
| | | | | |

| GEOLOGICAL FIELD SERVICES<br>14 Hubon Street<br>Salem, MA 01970<br>(781) 662-9800 | Client: The Stonewood Co.<br>Project: 23144<br>Location: Fall River<br>350 Mariano Bishop Blvd. | BORING<br>NUMBER:GFS-5<br>Sheet No: 1<br>of: 1 |
|---|---|---|

| Inspector: Ryan Macka | Date Start: 6/2/23 | Elevation: |
|---|---|---|
| Driller: Hayes | Date Finish:6/2/23 | Water Elev: |
| Company: NE Geotech | Field Eq: RAE mini | Cal Gas:100 ppm ISO |

Drill Method: GeoProbe  Sample: 5' x 2.125" Marco w/acetate liners

| Sample | | | | |
|---|---|---|---|---|
| Depth (Feet) | Number | Recovery (Inches | Strata Change | Classification and Remarks |
| 0 | S-1 | 22 | 0-2" | Topsoil. |
| | | | 2-22" | Gray, dense, fine SAND and black rubber fill. |
| 1 | | | | |
| | | | | 1.8 ppm OVM. |
| 2 | | | | |
| | | | | |
| 3 | | | | |
| | | | | |
| 4 | | | | |
| | | | | |
| 5 | S-2 | 25 | | Gray, dense, fine SAND and black rubber fill. |
| | | | | |
| 6 | | | | |
| | | | | |
| 7 | | | | 12. ppm OVM. |
| | | | | |
| 8 | | | | |
| | | | | |
| 9 | | | | |
| | | | | |
| 10 | S-3 | 30 | 0-18" | Cave in. |
| | | | 18-30" | Brown, grading fine to coarse SAND. |
| 11 | | | | |
| | | | | |
| | | | | 10.6 ppm OVM |
| 12 | | | | |
| | | | | Lab sample collected form TP-2 5-10 feet |
| 13 | | | | EOB at 15 feet set well GFS-5 |
| | | | | |
| 14 | | | | |
| | | | | |
| 15 | S-4 | | | |
| | | | | |
| 16 | | | | |
| | | | | |
| 17 | | | | |
| | | | | |
| 18 | | | | |
| | | | | |
| 19 | | | | |
| | | | | |
| 20 | | | | |
| | | | | |

| GEOLOGICAL FIELD SERVICES<br>14 Hubon Street<br>Salem, MA 01970<br>(781) 662-9800 | Client: The Stonewood Co. | BORING |
|---|---|---|
| | Project: 23144 | NUMBER:GFS-6 |
| | Location: Fall River<br>350 Mariano Bishop Blvd. | Sheet No: 1<br>of: 1 |

| Inspector: Ryan Macka | Date Start: 6/2/23 | Elevation: |
|---|---|---|
| Driller: Hayes | Date Finish:6/2/23 | Water Elev: |
| Company: NE Geotech | Field Eq: RAE mini | Cal Gas:100 ppm ISO |

Drill Method: GeoProbe  Sample: 5' x 2.125" Marco w/acetate liners

| Sample | | | Strata | Classification and Remarks |
|---|---|---|---|---|
| Depth (Feet) | Number | Recovery (Inches | Change | |
| 0 | S-1 | 30 | 0-10" | 2" Asphalt and 8" road base. |
| | | | 10-30" | Gray, dense, fine SAND and black rubber fill. |
| 5 | S-2 | 34 | 0-10" | Gray, dense, fine SAND and black rubber fill. |
| | | | 10-30" | Brown dense PEAT. |
| 10 | S-3 | 60 | 0-10" | Cave in. |
| | | | 10-20" | Brown soft PEAT. |
| 11 | | | 20-30" | Gray, dense fine to medium SAND. |
| 15 | | | | EOB at 15 feet backfilled with native material |

# APPENDIX C

New England Testing Laboratory, Inc.
(401) 353-3420

# REPORT OF ANALYTICAL RESULTS

## NETLAB Work Order Number: 3F05022
## Client Project: 23144 - 350 Mariano Bishop BLVD, Fall River

Report Date: 14-June-2023

Prepared for:

Luke Fabbri
Geological Field Services, Inc
14 Hubon Street
Salem, MA 01970

Richard Warila, Laboratory Director
New England Testing Laboratory, Inc.
59 Greenhill Street
West Warwick, RI 02893
rich.warila@newenglandtesting.com

## *Samples Submitted :*

The samples listed below were submitted to New England Testing Laboratory on 06/05/23. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provided to us by the client which are indicated on the custody record. The case number for this sample submission is 3F05022. Custody records are included in this report.

| Lab ID | Sample | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| 3F05022-01 | TP-1 | Soil | 06/02/2023 | 06/05/2023 |
| 3F05022-02 | TP-2 | Soil | 06/02/2023 | 06/05/2023 |
| 3F05022-03 | GFS-2 | Soil | 06/02/2023 | 06/05/2023 |
| 3F05022-04 | GFS-3 | Soil | 06/02/2023 | 06/05/2023 |
| 3F05022-05 | GFS-4 | Soil | 06/02/2023 | 06/05/2023 |
| 3F05022-06 | GFS-5 | Soil | 06/02/2023 | 06/05/2023 |
| 3F05022-07 | TP-3 | Soil | 06/02/2023 | 06/05/2023 |
| 3F05022-08 | TP-6 | Soil | 06/02/2023 | 06/05/2023 |
| 3F05022-09 | TP-9 | Soil | 06/02/2023 | 06/05/2023 |

# *Request for Analysis*

At the client's request, the analyses presented in the following table were performed on the samples submitted.

### GFS-2 (Lab Number: 3F05022-03)

| Analysis | Method |
|---|---|
| Antimony | EPA 6010C |
| Arsenic | EPA 6010C |
| Asbestos Subcontracted | By Subcontract |
| Barium | EPA 6010C |
| Beryllium | EPA 6010C |
| Cadmium | EPA 6010C |
| Chromium | EPA 6010C |
| Lead | EPA 6010C |
| MADEP EPH | MADEP EPH |
| Mercury | EPA 7471B |
| Nickel | EPA 6010C |
| PCBs | EPA 8082A |
| Selenium | EPA 6010C |
| Silver | EPA 6010C |
| Thallium | EPA 6010C |
| Vanadium | EPA 6010C |
| Volatile Organic Compounds | EPA 8260C |
| Zinc | EPA 6010C |

### GFS-3 (Lab Number: 3F05022-04)

| Analysis | Method |
|---|---|
| Antimony | EPA 6010C |
| Arsenic | EPA 6010C |
| Asbestos Subcontracted | By Subcontract |
| Barium | EPA 6010C |
| Beryllium | EPA 6010C |
| Cadmium | EPA 6010C |
| Chromium | EPA 6010C |
| Lead | EPA 6010C |
| MADEP EPH | MADEP EPH |
| Mercury | EPA 7471B |
| Nickel | EPA 6010C |
| PCBs | EPA 8082A |
| Selenium | EPA 6010C |
| Silver | EPA 6010C |
| Thallium | EPA 6010C |
| Vanadium | EPA 6010C |
| Volatile Organic Compounds | EPA 8260C |
| Zinc | EPA 6010C |

### GFS-4 (Lab Number: 3F05022-05)

| Analysis | Method |
|---|---|
| Antimony | EPA 6010C |
| Arsenic | EPA 6010C |
| Asbestos Subcontracted | By Subcontract |
| Barium | EPA 6010C |
| Beryllium | EPA 6010C |
| Cadmium | EPA 6010C |
| Chromium | EPA 6010C |

# *Request for Analysis (continued)*

## GFS-4 (Lab Number: 3F05022-05) (continued)

| Analysis | Method |
|---|---|
| Lead | EPA 6010C |
| MADEP EPH | MADEP EPH |
| Mercury | EPA 7471B |
| Nickel | EPA 6010C |
| PCBs | EPA 8082A |
| Selenium | EPA 6010C |
| Silver | EPA 6010C |
| Thallium | EPA 6010C |
| Vanadium | EPA 6010C |
| Volatile Organic Compounds | EPA 8260C |
| Zinc | EPA 6010C |

## GFS-5 (Lab Number: 3F05022-06)

| Analysis | Method |
|---|---|
| Antimony | EPA 6010C |
| Arsenic | EPA 6010C |
| Asbestos Subcontracted | By Subcontract |
| Barium | EPA 6010C |
| Beryllium | EPA 6010C |
| Cadmium | EPA 6010C |
| Chromium | EPA 6010C |
| Lead | EPA 6010C |
| MADEP EPH | MADEP EPH |
| Mercury | EPA 7471B |
| Nickel | EPA 6010C |
| PCBs | EPA 8082A |
| Selenium | EPA 6010C |
| Silver | EPA 6010C |
| Thallium | EPA 6010C |
| Vanadium | EPA 6010C |
| Volatile Organic Compounds | EPA 8260C |
| Zinc | EPA 6010C |

## TP-1 (Lab Number: 3F05022-01)

| Analysis | Method |
|---|---|
| Antimony | EPA 6010C |
| Arsenic | EPA 6010C |
| Asbestos Subcontracted | By Subcontract |
| Barium | EPA 6010C |
| Beryllium | EPA 6010C |
| Cadmium | EPA 6010C |
| Chromium | EPA 6010C |
| Lead | EPA 6010C |
| MADEP EPH | MADEP EPH |
| Mercury | EPA 7471B |
| Nickel | EPA 6010C |
| PCBs | EPA 8082A |
| Selenium | EPA 6010C |
| Silver | EPA 6010C |
| Thallium | EPA 6010C |
| Vanadium | EPA 6010C |
| Volatile Organic Compounds | EPA 8260C |
| Zinc | EPA 6010C |

# *Request for Analysis (continued)*

## TP-2 (Lab Number: 3F05022-02)

| Analysis | Method |
|---|---|
| Antimony | EPA 6010C |
| Arsenic | EPA 6010C |
| Asbestos Subcontracted | By Subcontract |
| Barium | EPA 6010C |
| Beryllium | EPA 6010C |
| Cadmium | EPA 6010C |
| Chromium | EPA 6010C |
| Lead | EPA 6010C |
| MADEP EPH | MADEP EPH |
| Mercury | EPA 7471B |
| Nickel | EPA 6010C |
| PCBs | EPA 8082A |
| Selenium | EPA 6010C |
| Silver | EPA 6010C |
| Thallium | EPA 6010C |
| Vanadium | EPA 6010C |
| Volatile Organic Compounds | EPA 8260C |
| Zinc | EPA 6010C |

## TP-3 (Lab Number: 3F05022-07)

| Analysis | Method |
|---|---|
| Antimony | EPA 6010C |
| Arsenic | EPA 6010C |
| Asbestos Subcontracted | By Subcontract |
| Barium | EPA 6010C |
| Beryllium | EPA 6010C |
| Cadmium | EPA 6010C |
| Chromium | EPA 6010C |
| Lead | EPA 6010C |
| MADEP EPH | MADEP EPH |
| Mercury | EPA 7471B |
| Nickel | EPA 6010C |
| PCBs | EPA 8082A |
| Selenium | EPA 6010C |
| Silver | EPA 6010C |
| Thallium | EPA 6010C |
| Vanadium | EPA 6010C |
| Volatile Organic Compounds | EPA 8260C |
| Zinc | EPA 6010C |

## *Request for Analysis (continued)*

### TP-6 (Lab Number: 3F05022-08)

| Analysis | Method |
|---|---|
| Antimony | EPA 6010C |
| Arsenic | EPA 6010C |
| Asbestos Subcontracted | By Subcontract |
| Barium | EPA 6010C |
| Beryllium | EPA 6010C |
| Cadmium | EPA 6010C |
| Chromium | EPA 6010C |
| Lead | EPA 6010C |
| MADEP EPH | MADEP EPH |
| Mercury | EPA 7471B |
| Nickel | EPA 6010C |
| PCBs | EPA 8082A |
| Selenium | EPA 6010C |
| Silver | EPA 6010C |
| Thallium | EPA 6010C |
| Vanadium | EPA 6010C |
| Volatile Organic Compounds | EPA 8260C |
| Zinc | EPA 6010C |

### TP-9 (Lab Number: 3F05022-09)

| Analysis | Method |
|---|---|
| Antimony | EPA 6010C |
| Arsenic | EPA 6010C |
| Asbestos Subcontracted | By Subcontract |
| Barium | EPA 6010C |
| Beryllium | EPA 6010C |
| Cadmium | EPA 6010C |
| Chromium | EPA 6010C |
| Lead | EPA 6010C |
| MADEP EPH | MADEP EPH |
| Mercury | EPA 7471B |
| Nickel | EPA 6010C |
| PCBs | EPA 8082A |
| Selenium | EPA 6010C |
| Silver | EPA 6010C |
| Thallium | EPA 6010C |
| Vanadium | EPA 6010C |
| Volatile Organic Compounds | EPA 8260C |
| Zinc | EPA 6010C |

## *Method References*

*Method for the Determination of Extractable Petroleum Hydrocarbons, Rev. 2.1*, Massachusetts Department of Environmental Protection, 2004

*Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846*, USEPA

**Case Narrative**

## Sample Receipt:

The samples associated with this work order were received in appropriately cooled and preserved containers. The chain of custody was adequately completed and corresponded to the samples submitted.

Exceptions: None

## Analysis:

All samples were prepared and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control requirements and allowances. Results for all soil samples, unless otherwise indicated, are reported on a dry weight basis.

Exceptions:

8260 VOC: Samples "GFS-2" and "GFS-4" were analyzed using the methanol-preserved vial provided by the client due to matrix interference.

EPH: Due to matrix interference sample "TP-2" was reported with surrogate recoveries outside quality control limits.

8082: The sample "GFS-3" was reported with only a single surrogate due to matrix pattern interference.

# Results: Total Metals

## Sample: TP-1

**Lab Number: 3F05022-01 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| **Antimony** | **3.45** | | 0.88 | mg/kg | 06/06/23 | 06/08/23 |
| **Arsenic** | **4.69** | | 1.33 | mg/kg | 06/06/23 | 06/08/23 |
| **Barium** | **92.3** | | 0.44 | mg/kg | 06/06/23 | 06/08/23 |
| Beryllium | ND | | 0.44 | mg/kg | 06/06/23 | 06/08/23 |
| Cadmium | ND | | 0.67 | mg/kg | 06/06/23 | 06/08/23 |
| **Chromium** | **12.2** | | 0.67 | mg/kg | 06/06/23 | 06/08/23 |
| **Lead** | **345** | | 0.67 | mg/kg | 06/06/23 | 06/08/23 |
| **Mercury** | **0.290** | | 0.157 | mg/kg | 06/06/23 | 06/06/23 |
| **Nickel** | **14.1** | | 0.67 | mg/kg | 06/06/23 | 06/08/23 |
| Selenium | ND | | 1.33 | mg/kg | 06/06/23 | 06/08/23 |
| Silver | ND | | 1.33 | mg/kg | 06/06/23 | 06/08/23 |
| **Vanadium** | **12.2** | | 0.44 | mg/kg | 06/06/23 | 06/08/23 |
| **Zinc** | **768** | | 2.7 | mg/kg | 06/06/23 | 06/08/23 |
| Thallium | ND | | 0.44 | mg/kg | 06/06/23 | 06/08/23 |

# Results: Total Metals

## Sample: TP-2

**Lab Number: 3F05022-02 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| **Antimony** | **13.6** | | 0.92 | mg/kg | 06/06/23 | 06/08/23 |
| **Arsenic** | **14.3** | | 1.40 | mg/kg | 06/06/23 | 06/08/23 |
| **Barium** | **651** | | 0.46 | mg/kg | 06/06/23 | 06/08/23 |
| Beryllium | ND | | 0.46 | mg/kg | 06/06/23 | 06/08/23 |
| **Cadmium** | **4.11** | | 0.70 | mg/kg | 06/06/23 | 06/08/23 |
| **Chromium** | **23.3** | | 0.70 | mg/kg | 06/06/23 | 06/08/23 |
| **Lead** | **177** | | 0.70 | mg/kg | 06/06/23 | 06/08/23 |
| **Mercury** | **0.752** | | 0.156 | mg/kg | 06/06/23 | 06/06/23 |
| **Nickel** | **27.5** | | 0.70 | mg/kg | 06/06/23 | 06/08/23 |
| Selenium | ND | | 1.40 | mg/kg | 06/06/23 | 06/08/23 |
| Silver | ND | | 1.40 | mg/kg | 06/06/23 | 06/08/23 |
| **Vanadium** | **12.5** | | 0.46 | mg/kg | 06/06/23 | 06/08/23 |
| **Zinc** | **2370** | | 2.8 | mg/kg | 06/06/23 | 06/08/23 |
| Thallium | ND | | 0.46 | mg/kg | 06/06/23 | 06/08/23 |

# Results: Total Metals

## Sample: GFS-2

**Lab Number: 3F05022-03 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| **Antimony** | **0.95** | | 0.88 | mg/kg | 06/06/23 | 06/08/23 |
| **Arsenic** | **2.07** | | 1.33 | mg/kg | 06/06/23 | 06/08/23 |
| **Barium** | **184** | | 0.44 | mg/kg | 06/06/23 | 06/08/23 |
| Beryllium | ND | | 0.44 | mg/kg | 06/06/23 | 06/08/23 |
| Cadmium | ND | | 0.67 | mg/kg | 06/06/23 | 06/08/23 |
| **Chromium** | **20.9** | | 0.67 | mg/kg | 06/06/23 | 06/08/23 |
| **Lead** | **96.2** | | 0.67 | mg/kg | 06/06/23 | 06/08/23 |
| Mercury | ND | | 0.157 | mg/kg | 06/06/23 | 06/06/23 |
| **Nickel** | **24.7** | | 0.67 | mg/kg | 06/06/23 | 06/08/23 |
| Selenium | ND | | 1.33 | mg/kg | 06/06/23 | 06/08/23 |
| Silver | ND | | 1.33 | mg/kg | 06/06/23 | 06/08/23 |
| **Vanadium** | **15.5** | | 0.44 | mg/kg | 06/06/23 | 06/08/23 |
| **Zinc** | **1210** | | 2.7 | mg/kg | 06/06/23 | 06/08/23 |
| Thallium | ND | | 0.44 | mg/kg | 06/06/23 | 06/08/23 |

# Results: Total Metals

## Sample: GFS-3

**Lab Number: 3F05022-04 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Antimony | ND | | 1.00 | mg/kg | 06/06/23 | 06/08/23 |
| **Arsenic** | **3.23** | | 1.51 | mg/kg | 06/06/23 | 06/08/23 |
| **Barium** | **59.9** | | 0.50 | mg/kg | 06/06/23 | 06/08/23 |
| Beryllium | ND | | 0.50 | mg/kg | 06/06/23 | 06/08/23 |
| Cadmium | ND | | 0.75 | mg/kg | 06/06/23 | 06/08/23 |
| **Chromium** | **6.88** | | 0.75 | mg/kg | 06/06/23 | 06/08/23 |
| **Lead** | **14.7** | | 0.75 | mg/kg | 06/06/23 | 06/08/23 |
| Mercury | ND | | 0.155 | mg/kg | 06/06/23 | 06/06/23 |
| **Nickel** | **8.52** | | 0.75 | mg/kg | 06/06/23 | 06/08/23 |
| Selenium | ND | | 1.51 | mg/kg | 06/06/23 | 06/08/23 |
| Silver | ND | | 1.51 | mg/kg | 06/06/23 | 06/08/23 |
| **Vanadium** | **6.44** | | 0.50 | mg/kg | 06/06/23 | 06/08/23 |
| **Zinc** | **1810** | | 3.0 | mg/kg | 06/06/23 | 06/08/23 |
| Thallium | ND | | 0.50 | mg/kg | 06/06/23 | 06/08/23 |

# Results: Total Metals

## Sample: GFS-4

**Lab Number: 3F05022-05 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| **Antimony** | **4.51** | | 0.84 | mg/kg | 06/06/23 | 06/08/23 |
| **Arsenic** | **20.4** | | 1.27 | mg/kg | 06/06/23 | 06/08/23 |
| **Barium** | **828** | | 0.42 | mg/kg | 06/06/23 | 06/08/23 |
| Beryllium | ND | | 0.42 | mg/kg | 06/06/23 | 06/08/23 |
| Cadmium | ND | | 0.64 | mg/kg | 06/06/23 | 06/08/23 |
| **Chromium** | **31.6** | | 0.64 | mg/kg | 06/06/23 | 06/08/23 |
| **Lead** | **640** | | 0.64 | mg/kg | 06/06/23 | 06/08/23 |
| Mercury | ND | | 0.164 | mg/kg | 06/06/23 | 06/06/23 |
| **Nickel** | **38.7** | | 0.64 | mg/kg | 06/06/23 | 06/08/23 |
| Selenium | ND | | 1.27 | mg/kg | 06/06/23 | 06/08/23 |
| Silver | ND | | 1.27 | mg/kg | 06/06/23 | 06/08/23 |
| **Vanadium** | **37.1** | | 0.42 | mg/kg | 06/06/23 | 06/08/23 |
| **Zinc** | **2650** | | 2.5 | mg/kg | 06/06/23 | 06/08/23 |
| Thallium | ND | | 0.42 | mg/kg | 06/06/23 | 06/08/23 |

# Results: Total Metals

## Sample: GFS-5

**Lab Number: 3F05022-06 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Antimony | ND | | 0.83 | mg/kg | 06/06/23 | 06/08/23 |
| **Arsenic** | **2.11** | | 1.26 | mg/kg | 06/06/23 | 06/08/23 |
| **Barium** | **31.5** | | 0.42 | mg/kg | 06/06/23 | 06/08/23 |
| Beryllium | ND | | 0.42 | mg/kg | 06/06/23 | 06/08/23 |
| Cadmium | ND | | 0.63 | mg/kg | 06/06/23 | 06/08/23 |
| **Chromium** | **6.85** | | 0.63 | mg/kg | 06/06/23 | 06/08/23 |
| **Lead** | **43.7** | | 0.63 | mg/kg | 06/06/23 | 06/08/23 |
| Mercury | ND | | 0.155 | mg/kg | 06/06/23 | 06/06/23 |
| **Nickel** | **7.38** | | 0.63 | mg/kg | 06/06/23 | 06/08/23 |
| Selenium | ND | | 1.26 | mg/kg | 06/06/23 | 06/08/23 |
| Silver | ND | | 1.26 | mg/kg | 06/06/23 | 06/08/23 |
| **Vanadium** | **7.48** | | 0.42 | mg/kg | 06/06/23 | 06/08/23 |
| **Zinc** | **180** | | 2.5 | mg/kg | 06/06/23 | 06/08/23 |
| Thallium | ND | | 0.42 | mg/kg | 06/06/23 | 06/08/23 |

# Results: Total Metals

## Sample: TP-3

**Lab Number: 3F05022-07 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Antimony | ND | | 0.80 | mg/kg | 06/06/23 | 06/08/23 |
| **Arsenic** | **2.49** | | 1.21 | mg/kg | 06/06/23 | 06/08/23 |
| **Barium** | **34.0** | | 0.40 | mg/kg | 06/06/23 | 06/08/23 |
| Beryllium | ND | | 0.40 | mg/kg | 06/06/23 | 06/08/23 |
| Cadmium | ND | | 0.61 | mg/kg | 06/06/23 | 06/08/23 |
| **Chromium** | **7.73** | | 0.61 | mg/kg | 06/06/23 | 06/08/23 |
| **Lead** | **76.2** | | 0.61 | mg/kg | 06/06/23 | 06/08/23 |
| Mercury | ND | | 0.139 | mg/kg | 06/06/23 | 06/06/23 |
| **Nickel** | **11.2** | | 0.61 | mg/kg | 06/06/23 | 06/08/23 |
| Selenium | ND | | 1.21 | mg/kg | 06/06/23 | 06/08/23 |
| Silver | ND | | 1.21 | mg/kg | 06/06/23 | 06/08/23 |
| **Vanadium** | **9.37** | | 0.40 | mg/kg | 06/06/23 | 06/08/23 |
| **Zinc** | **190** | | 2.4 | mg/kg | 06/06/23 | 06/08/23 |
| Thallium | ND | | 0.40 | mg/kg | 06/06/23 | 06/08/23 |

# Results: Total Metals

## Sample: TP-6

**Lab Number: 3F05022-08 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| **Antimony** | **1.42** | | 0.86 | mg/kg | 06/06/23 | 06/08/23 |
| **Arsenic** | **2.12** | | 1.30 | mg/kg | 06/06/23 | 06/08/23 |
| **Barium** | **68.4** | | 0.43 | mg/kg | 06/06/23 | 06/08/23 |
| Beryllium | ND | | 0.43 | mg/kg | 06/06/23 | 06/08/23 |
| Cadmium | ND | | 0.65 | mg/kg | 06/06/23 | 06/08/23 |
| **Chromium** | **12.3** | | 0.65 | mg/kg | 06/06/23 | 06/08/23 |
| **Lead** | **13.1** | | 0.65 | mg/kg | 06/06/23 | 06/08/23 |
| Mercury | ND | | 0.170 | mg/kg | 06/06/23 | 06/06/23 |
| **Nickel** | **11.9** | | 0.65 | mg/kg | 06/06/23 | 06/08/23 |
| Selenium | ND | | 1.30 | mg/kg | 06/06/23 | 06/08/23 |
| Silver | ND | | 1.30 | mg/kg | 06/06/23 | 06/08/23 |
| **Vanadium** | **8.81** | | 0.43 | mg/kg | 06/06/23 | 06/08/23 |
| **Zinc** | **4000** | | 2.6 | mg/kg | 06/06/23 | 06/08/23 |
| Thallium | ND | | 0.43 | mg/kg | 06/06/23 | 06/08/23 |

# Results: Total Metals

## Sample: TP-9

**Lab Number: 3F05022-09 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| **Antimony** | **1.76** | | 0.81 | mg/kg | 06/06/23 | 06/08/23 |
| **Arsenic** | **5.46** | | 1.22 | mg/kg | 06/06/23 | 06/08/23 |
| **Barium** | **114** | | 0.40 | mg/kg | 06/06/23 | 06/08/23 |
| Beryllium | ND | | 0.40 | mg/kg | 06/06/23 | 06/08/23 |
| Cadmium | ND | | 0.61 | mg/kg | 06/06/23 | 06/08/23 |
| **Chromium** | **15.7** | | 0.61 | mg/kg | 06/06/23 | 06/08/23 |
| **Lead** | **148** | | 0.61 | mg/kg | 06/06/23 | 06/08/23 |
| Mercury | ND | | 0.150 | mg/kg | 06/06/23 | 06/06/23 |
| **Nickel** | **17.9** | | 0.61 | mg/kg | 06/06/23 | 06/08/23 |
| Selenium | ND | | 1.22 | mg/kg | 06/06/23 | 06/08/23 |
| Silver | ND | | 1.22 | mg/kg | 06/06/23 | 06/08/23 |
| **Vanadium** | **11.8** | | 0.40 | mg/kg | 06/06/23 | 06/08/23 |
| **Zinc** | **1210** | | 2.4 | mg/kg | 06/06/23 | 06/08/23 |
| Thallium | ND | | 0.40 | mg/kg | 06/06/23 | 06/08/23 |

# Results: Volatile Organic Compounds

## Sample: TP-1

**Lab Number: 3F05022-01 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Acetone | ND | | 91 | ug/kg | 06/06/23 | 06/06/23 |
| Benzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Bromobenzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Bromochloromethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Bromodichloromethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Bromoform | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Bromomethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 2-Butanone | ND | | 22 | ug/kg | 06/06/23 | 06/06/23 |
| tert-Butyl alcohol | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| sec-Butylbenzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| n-Butylbenzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| tert-Butylbenzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Methyl t-butyl ether (MTBE) | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Carbon Disulfide | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Carbon Tetrachloride | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Chlorobenzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Chloroethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Chloroform | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Chloromethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 4-Chlorotoluene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 2-Chlorotoluene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Dibromochloromethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2-Dibromoethane (EDB) | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Dibromomethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2-Dichlorobenzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,3-Dichlorobenzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,4-Dichlorobenzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1-Dichloroethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2-Dichloroethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| trans-1,2-Dichloroethene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| cis-1,2-Dichloroethene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1-Dichloroethene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2-Dichloropropane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 2,2-Dichloropropane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| cis-1,3-Dichloropropene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| trans-1,3-Dichloropropene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1-Dichloropropene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,3-Dichloropropene (cis + trans) | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Diethyl ether | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,4-Dioxane | ND | | 116 | ug/kg | 06/06/23 | 06/06/23 |
| Ethylbenzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Hexachlorobutadiene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 2-Hexanone | ND | | 23 | ug/kg | 06/06/23 | 06/06/23 |
| Isopropylbenzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| p-Isopropyltoluene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Methylene Chloride | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 4-Methyl-2-pentanone | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |

# Results: Volatile Organic Compounds (Continued)

## Sample: TP-1 (Continued)

**Lab Number: 3F05022-01 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Naphthalene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| n-Propylbenzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Styrene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1,1,2-Tetrachloroethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Tetrachloroethene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Tetrahydrofuran | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Toluene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2,4-Trichlorobenzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2,3-Trichlorobenzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1,2-Trichloroethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1,1-Trichloroethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Trichloroethene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2,3-Trichloropropane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,3,5-Trimethylbenzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2,4-Trimethylbenzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Vinyl Chloride | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| o-Xylene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| m&p-Xylene | ND | | 12 | ug/kg | 06/06/23 | 06/06/23 |
| Total xylenes | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1,2,2-Tetrachloroethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| tert-Amyl methyl ether | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,3-Dichloropropane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Ethyl tert-butyl ether | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Diisopropyl ether | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Trichlorofluoromethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Dichlorodifluoromethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |

| Surrogate(s) | Recovery% | Limits | | |
|---|---|---|---|---|
| *4-Bromofluorobenzene* | *99.5%* | *70-130* | 06/06/23 | 06/06/23 |
| *1,2-Dichloroethane-d4* | *122%* | *70-130* | 06/06/23 | 06/06/23 |
| *Toluene-d8* | *102%* | *70-130* | 06/06/23 | 06/06/23 |

# Results: Volatile Organic Compounds

## Sample: TP-2

**Lab Number: 3F05022-02 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Acetone | ND | | 121 | ug/kg | 06/06/23 | 06/06/23 |
| Benzene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Bromobenzene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Bromochloromethane | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Bromodichloromethane | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Bromoform | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Bromomethane | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 2-Butanone | ND | | 29 | ug/kg | 06/06/23 | 06/06/23 |
| tert-Butyl alcohol | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| sec-Butylbenzene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| n-Butylbenzene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| tert-Butylbenzene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Methyl t-butyl ether (MTBE) | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Carbon Disulfide | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Carbon Tetrachloride | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Chlorobenzene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Chloroethane | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Chloroform | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Chloromethane | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 4-Chlorotoluene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 2-Chlorotoluene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Dibromochloromethane | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2-Dibromoethane (EDB) | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Dibromomethane | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2-Dichlorobenzene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 1,3-Dichlorobenzene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 1,4-Dichlorobenzene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1-Dichloroethane | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2-Dichloroethane | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| trans-1,2-Dichloroethene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| cis-1,2-Dichloroethene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1-Dichloroethene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2-Dichloropropane | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 2,2-Dichloropropane | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| cis-1,3-Dichloropropene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| trans-1,3-Dichloropropene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1-Dichloropropene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 1,3-Dichloropropene (cis + trans) | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Diethyl ether | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 1,4-Dioxane | ND | | 153 | ug/kg | 06/06/23 | 06/06/23 |
| Ethylbenzene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Hexachlorobutadiene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 2-Hexanone | ND | | 31 | ug/kg | 06/06/23 | 06/06/23 |
| Isopropylbenzene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| p-Isopropyltoluene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Methylene Chloride | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 4-Methyl-2-pentanone | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |

# Results: Volatile Organic Compounds (Continued)

## Sample: TP-2 (Continued)

**Lab Number: 3F05022-02 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Naphthalene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| n-Propylbenzene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Styrene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1,1,2-Tetrachloroethane | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Tetrachloroethene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Tetrahydrofuran | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Toluene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2,4-Trichlorobenzene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2,3-Trichlorobenzene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1,2-Trichloroethane | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1,1-Trichloroethane | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Trichloroethene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2,3-Trichloropropane | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 1,3,5-Trimethylbenzene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2,4-Trimethylbenzene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Vinyl Chloride | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| o-Xylene | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| m&p-Xylene | ND | | 15 | ug/kg | 06/06/23 | 06/06/23 |
| Total xylenes | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1,2,2-Tetrachloroethane | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| tert-Amyl methyl ether | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| 1,3-Dichloropropane | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Ethyl tert-butyl ether | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Diisopropyl ether | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Trichlorofluoromethane | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |
| Dichlorodifluoromethane | ND | | 8 | ug/kg | 06/06/23 | 06/06/23 |

| Surrogate(s) | Recovery% | Limits | | |
|---|---|---|---|---|
| *4-Bromofluorobenzene* | *98.9%* | *70-130* | 06/06/23 | 06/06/23 |
| *1,2-Dichloroethane-d4* | *119%* | *70-130* | 06/06/23 | 06/06/23 |
| *Toluene-d8* | *102%* | *70-130* | 06/06/23 | 06/06/23 |

# Results: Volatile Organic Compounds

## Sample: GFS-2

**Lab Number: 3F05022-03 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Acetone | ND | | 353 | ug/kg | 06/08/23 | 06/08/23 |
| Benzene | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| Bromobenzene | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| Bromochloromethane | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| Bromodichloromethane | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| Bromoform | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| Bromomethane | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| 2-Butanone | ND | | 353 | ug/kg | 06/08/23 | 06/08/23 |
| tert-Butyl alcohol | ND | | 353 | ug/kg | 06/08/23 | 06/08/23 |
| sec-Butylbenzene | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| n-Butylbenzene | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| tert-Butylbenzene | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| Methyl t-butyl ether (MTBE) | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| **Carbon Disulfide** | **125** | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| Carbon Tetrachloride | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| Chlorobenzene | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| Chloroethane | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| Chloroform | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| Chloromethane | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| 4-Chlorotoluene | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| 2-Chlorotoluene | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| Dibromochloromethane | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| 1,2-Dibromoethane (EDB) | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| Dibromomethane | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| 1,2-Dichlorobenzene | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| 1,3-Dichlorobenzene | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| 1,4-Dichlorobenzene | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| 1,1-Dichloroethane | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| 1,2-Dichloroethane | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| trans-1,2-Dichloroethene | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| cis-1,2-Dichloroethene | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| 1,1-Dichloroethene | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| 1,2-Dichloropropane | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| 2,2-Dichloropropane | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| cis-1,3-Dichloropropene | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| trans-1,3-Dichloropropene | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| 1,1-Dichloropropene | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| 1,3-Dichloropropene (cis + trans) | ND | | 141 | ug/kg | 06/08/23 | 06/08/23 |
| Diethyl ether | ND | | 353 | ug/kg | 06/08/23 | 06/08/23 |
| 1,4-Dioxane | ND | | 7060 | ug/kg | 06/08/23 | 06/08/23 |
| **Ethylbenzene** | **76** | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| Hexachlorobutadiene | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| 2-Hexanone | ND | | 353 | ug/kg | 06/08/23 | 06/08/23 |
| **Isopropylbenzene** | **471** | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| **p-Isopropyltoluene** | **121** | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| Methylene Chloride | ND | | 141 | ug/kg | 06/08/23 | 06/08/23 |
| 4-Methyl-2-pentanone | ND | | 353 | ug/kg | 06/08/23 | 06/08/23 |

## Sample: GFS-2 (Continued)

**Lab Number: 3F05022-03 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| **Naphthalene** | **861** | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| **n-Propylbenzene** | **100** | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| Styrene | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| 1,1,1,2-Tetrachloroethane | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| Tetrachloroethene | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| Tetrahydrofuran | ND | | 353 | ug/kg | 06/08/23 | 06/08/23 |
| Toluene | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| 1,2,4-Trichlorobenzene | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| 1,2,3-Trichlorobenzene | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| 1,1,2-Trichloroethane | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| 1,1,1-Trichloroethane | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| Trichloroethene | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| 1,2,3-Trichloropropane | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| 1,3,5-Trimethylbenzene | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| **1,2,4-Trimethylbenzene** | **140** | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| Vinyl Chloride | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| **o-Xylene** | **258** | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| **m&p-Xylene** | **285** | | 141 | ug/kg | 06/08/23 | 06/08/23 |
| **Total xylenes** | **542** | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| 1,1,2,2-Tetrachloroethane | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| tert-Amyl methyl ether | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| 1,3-Dichloropropane | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| Ethyl tert-butyl ether | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| Diisopropyl ether | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| Trichlorofluoromethane | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |
| Dichlorodifluoromethane | ND | | 71 | ug/kg | 06/08/23 | 06/08/23 |

| Surrogate(s) | Recovery% | Limits | | |
|---|---|---|---|---|
| *4-Bromofluorobenzene* | *97.1%* | *70-130* | 06/08/23 | 06/08/23 |
| *1,2-Dichloroethane-d4* | *96.8%* | *70-130* | 06/08/23 | 06/08/23 |
| *Toluene-d8* | *101%* | *70-130* | 06/08/23 | 06/08/23 |

# Results: Volatile Organic Compounds

## Sample: GFS-3

**Lab Number: 3F05022-04 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Acetone | ND | | 84 | ug/kg | 06/06/23 | 06/06/23 |
| Benzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Bromobenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Bromochloromethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Bromodichloromethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Bromoform | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Bromomethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 2-Butanone | ND | | 20 | ug/kg | 06/06/23 | 06/06/23 |
| tert-Butyl alcohol | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| sec-Butylbenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| n-Butylbenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| tert-Butylbenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Methyl t-butyl ether (MTBE) | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Carbon Disulfide | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Carbon Tetrachloride | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Chlorobenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Chloroethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Chloroform | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Chloromethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 4-Chlorotoluene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 2-Chlorotoluene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Dibromochloromethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2-Dibromoethane (EDB) | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Dibromomethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2-Dichlorobenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,3-Dichlorobenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,4-Dichlorobenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1-Dichloroethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2-Dichloroethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| trans-1,2-Dichloroethene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| cis-1,2-Dichloroethene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1-Dichloroethene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2-Dichloropropane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 2,2-Dichloropropane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| cis-1,3-Dichloropropene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| trans-1,3-Dichloropropene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1-Dichloropropene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,3-Dichloropropene (cis + trans) | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Diethyl ether | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,4-Dioxane | ND | | 106 | ug/kg | 06/06/23 | 06/06/23 |
| Ethylbenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Hexachlorobutadiene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 2-Hexanone | ND | | 21 | ug/kg | 06/06/23 | 06/06/23 |
| Isopropylbenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| p-Isopropyltoluene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Methylene Chloride | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 4-Methyl-2-pentanone | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |

## Sample: GFS-3 (Continued)

**Lab Number: 3F05022-04 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Naphthalene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| n-Propylbenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Styrene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1,1,2-Tetrachloroethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Tetrachloroethene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Tetrahydrofuran | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Toluene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2,4-Trichlorobenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2,3-Trichlorobenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1,2-Trichloroethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1,1-Trichloroethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Trichloroethene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2,3-Trichloropropane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,3,5-Trimethylbenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2,4-Trimethylbenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Vinyl Chloride | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| o-Xylene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| m&p-Xylene | ND | | 11 | ug/kg | 06/06/23 | 06/06/23 |
| Total xylenes | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1,2,2-Tetrachloroethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| tert-Amyl methyl ether | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,3-Dichloropropane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Ethyl tert-butyl ether | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Diisopropyl ether | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Trichlorofluoromethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Dichlorodifluoromethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |

| Surrogate(s) | Recovery% | Limits | | |
|---|---|---|---|---|
| *4-Bromofluorobenzene* | *89.1%* | *70-130* | 06/06/23 | 06/06/23 |
| *1,2-Dichloroethane-d4* | *110%* | *70-130* | 06/06/23 | 06/06/23 |
| *Toluene-d8* | *97.4%* | *70-130* | 06/06/23 | 06/06/23 |

# Results: Volatile Organic Compounds

## Sample: GFS-4

**Lab Number: 3F05022-05 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Acetone | ND | | 325 | ug/kg | 06/08/23 | 06/08/23 |
| Benzene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| Bromobenzene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| Bromochloromethane | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| Bromodichloromethane | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| Bromoform | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| Bromomethane | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| 2-Butanone | ND | | 325 | ug/kg | 06/08/23 | 06/08/23 |
| tert-Butyl alcohol | ND | | 325 | ug/kg | 06/08/23 | 06/08/23 |
| sec-Butylbenzene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| n-Butylbenzene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| tert-Butylbenzene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| Methyl t-butyl ether (MTBE) | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| Carbon Disulfide | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| Carbon Tetrachloride | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| Chlorobenzene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| Chloroethane | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| Chloroform | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| Chloromethane | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| 4-Chlorotoluene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| 2-Chlorotoluene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| Dibromochloromethane | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| 1,2-Dibromoethane (EDB) | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| Dibromomethane | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| 1,2-Dichlorobenzene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| 1,3-Dichlorobenzene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| 1,4-Dichlorobenzene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| 1,1-Dichloroethane | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| 1,2-Dichloroethane | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| trans-1,2-Dichloroethene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| cis-1,2-Dichloroethene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| 1,1-Dichloroethene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| 1,2-Dichloropropane | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| 2,2-Dichloropropane | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| cis-1,3-Dichloropropene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| trans-1,3-Dichloropropene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| 1,1-Dichloropropene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| 1,3-Dichloropropene (cis + trans) | ND | | 130 | ug/kg | 06/08/23 | 06/08/23 |
| Diethyl ether | ND | | 325 | ug/kg | 06/08/23 | 06/08/23 |
| 1,4-Dioxane | ND | | 6500 | ug/kg | 06/08/23 | 06/08/23 |
| **Ethylbenzene** | **79** | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| Hexachlorobutadiene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| 2-Hexanone | ND | | 325 | ug/kg | 06/08/23 | 06/08/23 |
| Isopropylbenzene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| p-Isopropyltoluene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| Methylene Chloride | ND | | 130 | ug/kg | 06/08/23 | 06/08/23 |
| 4-Methyl-2-pentanone | ND | | 325 | ug/kg | 06/08/23 | 06/08/23 |

# Results: Volatile Organic Compounds (Continued)

## Sample: GFS-4 (Continued)

**Lab Number: 3F05022-05 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| **Naphthalene** | **185** | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| n-Propylbenzene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| Styrene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| 1,1,1,2-Tetrachloroethane | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| Tetrachloroethene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| Tetrahydrofuran | ND | | 325 | ug/kg | 06/08/23 | 06/08/23 |
| Toluene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| 1,2,4-Trichlorobenzene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| 1,2,3-Trichlorobenzene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| 1,1,2-Trichloroethane | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| 1,1,1-Trichloroethane | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| Trichloroethene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| 1,2,3-Trichloropropane | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| 1,3,5-Trimethylbenzene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| 1,2,4-Trimethylbenzene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| Vinyl Chloride | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| o-Xylene | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| m&p-Xylene | ND | | 130 | ug/kg | 06/08/23 | 06/08/23 |
| Total xylenes | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| 1,1,2,2-Tetrachloroethane | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| tert-Amyl methyl ether | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| 1,3-Dichloropropane | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| Ethyl tert-butyl ether | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| Diisopropyl ether | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| Trichlorofluoromethane | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |
| Dichlorodifluoromethane | ND | | 65 | ug/kg | 06/08/23 | 06/08/23 |

| Surrogate(s) | Recovery% | Limits | | |
|---|---|---|---|---|
| *4-Bromofluorobenzene* | *98.0%* | *70-130* | 06/08/23 | 06/08/23 |
| *1,2-Dichloroethane-d4* | *104%* | *70-130* | 06/08/23 | 06/08/23 |
| *Toluene-d8* | *100%* | *70-130* | 06/08/23 | 06/08/23 |

# Results: Volatile Organic Compounds

## Sample: GFS-5

**Lab Number: 3F05022-06 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Acetone | ND | | 78 | ug/kg | 06/07/23 | 06/07/23 |
| Benzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Bromobenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Bromochloromethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Bromodichloromethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Bromoform | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Bromomethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 2-Butanone | ND | | 15 | ug/kg | 06/07/23 | 06/07/23 |
| tert-Butyl alcohol | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| sec-Butylbenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| n-Butylbenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| tert-Butylbenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Methyl t-butyl ether (MTBE) | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Carbon Disulfide | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Carbon Tetrachloride | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Chlorobenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Chloroethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Chloroform | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Chloromethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 4-Chlorotoluene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 2-Chlorotoluene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Dibromochloromethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,2-Dibromoethane (EDB) | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Dibromomethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,2-Dichlorobenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,3-Dichlorobenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,4-Dichlorobenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,1-Dichloroethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,2-Dichloroethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| trans-1,2-Dichloroethene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| cis-1,2-Dichloroethene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,1-Dichloroethene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,2-Dichloropropane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 2,2-Dichloropropane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| cis-1,3-Dichloropropene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| trans-1,3-Dichloropropene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,1-Dichloropropene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,3-Dichloropropene (cis + trans) | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Diethyl ether | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,4-Dioxane | ND | | 107 | ug/kg | 06/07/23 | 06/07/23 |
| Ethylbenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Hexachlorobutadiene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 2-Hexanone | ND | | 21 | ug/kg | 06/07/23 | 06/07/23 |
| Isopropylbenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| p-Isopropyltoluene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Methylene Chloride | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 4-Methyl-2-pentanone | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |

# Results: Volatile Organic Compounds (Continued)

## Sample: GFS-5 (Continued)

**Lab Number: 3F05022-06 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| **Naphthalene** | **14** | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| n-Propylbenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Styrene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,1,1,2-Tetrachloroethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Tetrachloroethene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Tetrahydrofuran | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Toluene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,2,4-Trichlorobenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,2,3-Trichlorobenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,1,2-Trichloroethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,1,1-Trichloroethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Trichloroethene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,2,3-Trichloropropane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,3,5-Trimethylbenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,2,4-Trimethylbenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Vinyl Chloride | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| o-Xylene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| m&p-Xylene | ND | | 11 | ug/kg | 06/07/23 | 06/07/23 |
| Total xylenes | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,1,2,2-Tetrachloroethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| tert-Amyl methyl ether | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,3-Dichloropropane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Ethyl tert-butyl ether | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Diisopropyl ether | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Trichlorofluoromethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Dichlorodifluoromethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |

| Surrogate(s) | Recovery% | Limits | | |
|---|---|---|---|---|
| *4-Bromofluorobenzene* | *96.6%* | *70-130* | 06/07/23 | 06/07/23 |
| *1,2-Dichloroethane-d4* | *109%* | *70-130* | 06/07/23 | 06/07/23 |
| *Toluene-d8* | *103%* | *70-130* | 06/07/23 | 06/07/23 |

# Results: Volatile Organic Compounds

## Sample: TP-3

**Lab Number: 3F05022-07 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Acetone | ND | | 77 | ug/kg | 06/06/23 | 06/06/23 |
| Benzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Bromobenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Bromochloromethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Bromodichloromethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Bromoform | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Bromomethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 2-Butanone | ND | | 19 | ug/kg | 06/06/23 | 06/06/23 |
| tert-Butyl alcohol | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| sec-Butylbenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| n-Butylbenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| tert-Butylbenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Methyl t-butyl ether (MTBE) | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Carbon Disulfide | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Carbon Tetrachloride | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Chlorobenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Chloroethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Chloroform | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Chloromethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 4-Chlorotoluene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 2-Chlorotoluene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Dibromochloromethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2-Dibromoethane (EDB) | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Dibromomethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2-Dichlorobenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,3-Dichlorobenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,4-Dichlorobenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1-Dichloroethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2-Dichloroethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| trans-1,2-Dichloroethene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| cis-1,2-Dichloroethene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1-Dichloroethene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2-Dichloropropane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 2,2-Dichloropropane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| cis-1,3-Dichloropropene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| trans-1,3-Dichloropropene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1-Dichloropropene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,3-Dichloropropene (cis + trans) | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Diethyl ether | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,4-Dioxane | ND | | 97 | ug/kg | 06/06/23 | 06/06/23 |
| Ethylbenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Hexachlorobutadiene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 2-Hexanone | ND | | 19 | ug/kg | 06/06/23 | 06/06/23 |
| Isopropylbenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| p-Isopropyltoluene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Methylene Chloride | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 4-Methyl-2-pentanone | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |

## Sample: TP-3 (Continued)

**Lab Number: 3F05022-07 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Naphthalene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| n-Propylbenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Styrene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1,1,2-Tetrachloroethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Tetrachloroethene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Tetrahydrofuran | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Toluene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2,4-Trichlorobenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2,3-Trichlorobenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1,2-Trichloroethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1,1-Trichloroethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Trichloroethene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2,3-Trichloropropane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,3,5-Trimethylbenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2,4-Trimethylbenzene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Vinyl Chloride | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| o-Xylene | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| m&p-Xylene | ND | | 10 | ug/kg | 06/06/23 | 06/06/23 |
| Total xylenes | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1,2,2-Tetrachloroethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| tert-Amyl methyl ether | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| 1,3-Dichloropropane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Ethyl tert-butyl ether | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Diisopropyl ether | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Trichlorofluoromethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |
| Dichlorodifluoromethane | ND | | 5 | ug/kg | 06/06/23 | 06/06/23 |

| Surrogate(s) | Recovery% | Limits | | |
|---|---|---|---|---|
| *4-Bromofluorobenzene* | *98.4%* | *70-130* | 06/06/23 | 06/06/23 |
| *1,2-Dichloroethane-d4* | *107%* | *70-130* | 06/06/23 | 06/06/23 |
| *Toluene-d8* | *102%* | *70-130* | 06/06/23 | 06/06/23 |

# Results: Volatile Organic Compounds

## Sample: TP-6

**Lab Number: 3F05022-08 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Acetone | ND | | 90 | ug/kg | 06/06/23 | 06/06/23 |
| Benzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Bromobenzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Bromochloromethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Bromodichloromethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Bromoform | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Bromomethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 2-Butanone | ND | | 22 | ug/kg | 06/06/23 | 06/06/23 |
| tert-Butyl alcohol | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| sec-Butylbenzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| n-Butylbenzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| tert-Butylbenzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Methyl t-butyl ether (MTBE) | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Carbon Disulfide | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Carbon Tetrachloride | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Chlorobenzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Chloroethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Chloroform | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Chloromethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 4-Chlorotoluene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 2-Chlorotoluene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Dibromochloromethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2-Dibromoethane (EDB) | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Dibromomethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2-Dichlorobenzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,3-Dichlorobenzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,4-Dichlorobenzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1-Dichloroethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2-Dichloroethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| trans-1,2-Dichloroethene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| cis-1,2-Dichloroethene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1-Dichloroethene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2-Dichloropropane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 2,2-Dichloropropane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| cis-1,3-Dichloropropene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| trans-1,3-Dichloropropene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1-Dichloropropene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,3-Dichloropropene (cis + trans) | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Diethyl ether | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,4-Dioxane | ND | | 113 | ug/kg | 06/06/23 | 06/06/23 |
| **Ethylbenzene** | **195** | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Hexachlorobutadiene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 2-Hexanone | ND | | 23 | ug/kg | 06/06/23 | 06/06/23 |
| **Isopropylbenzene** | **37** | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| **p-Isopropyltoluene** | **14** | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Methylene Chloride | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 4-Methyl-2-pentanone | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |

# Results: Volatile Organic Compounds (Continued)

## Sample: TP-6 (Continued)

**Lab Number: 3F05022-08 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| **Naphthalene** | **65** | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| **n-Propylbenzene** | **7** | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Styrene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1,1,2-Tetrachloroethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Tetrachloroethene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Tetrahydrofuran | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| **Toluene** | **7** | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2,4-Trichlorobenzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2,3-Trichlorobenzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1,2-Trichloroethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1,1-Trichloroethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Trichloroethene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,2,3-Trichloropropane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,3,5-Trimethylbenzene | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| **1,2,4-Trimethylbenzene** | **12** | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Vinyl Chloride | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| **o-Xylene** | **17** | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| **m&p-Xylene** | **54** | | 11 | ug/kg | 06/06/23 | 06/06/23 |
| **Total xylenes** | **72** | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,1,2,2-Tetrachloroethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| tert-Amyl methyl ether | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| 1,3-Dichloropropane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Ethyl tert-butyl ether | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Diisopropyl ether | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Trichlorofluoromethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |
| Dichlorodifluoromethane | ND | | 6 | ug/kg | 06/06/23 | 06/06/23 |

| Surrogate(s) | Recovery% | Limits | | |
|---|---|---|---|---|
| *4-Bromofluorobenzene* | *107%* | *70-130* | 06/06/23 | 06/06/23 |
| *1,2-Dichloroethane-d4* | *103%* | *70-130* | 06/06/23 | 06/06/23 |
| *Toluene-d8* | *105%* | *70-130* | 06/06/23 | 06/06/23 |

# Results: Volatile Organic Compounds

## Sample: TP-9

**Lab Number: 3F05022-09 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Acetone | ND | | 76 | ug/kg | 06/07/23 | 06/07/23 |
| Benzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Bromobenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Bromochloromethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Bromodichloromethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Bromoform | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Bromomethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 2-Butanone | ND | | 15 | ug/kg | 06/07/23 | 06/07/23 |
| tert-Butyl alcohol | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| sec-Butylbenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| n-Butylbenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| tert-Butylbenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Methyl t-butyl ether (MTBE) | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Carbon Disulfide | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Carbon Tetrachloride | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Chlorobenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Chloroethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Chloroform | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Chloromethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 4-Chlorotoluene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 2-Chlorotoluene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Dibromochloromethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,2-Dibromoethane (EDB) | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Dibromomethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,2-Dichlorobenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,3-Dichlorobenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,4-Dichlorobenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,1-Dichloroethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,2-Dichloroethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| trans-1,2-Dichloroethene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| cis-1,2-Dichloroethene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,1-Dichloroethene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,2-Dichloropropane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 2,2-Dichloropropane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| cis-1,3-Dichloropropene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| trans-1,3-Dichloropropene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,1-Dichloropropene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,3-Dichloropropene (cis + trans) | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Diethyl ether | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,4-Dioxane | ND | | 104 | ug/kg | 06/07/23 | 06/07/23 |
| Ethylbenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Hexachlorobutadiene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 2-Hexanone | ND | | 21 | ug/kg | 06/07/23 | 06/07/23 |
| Isopropylbenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| p-Isopropyltoluene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Methylene Chloride | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 4-Methyl-2-pentanone | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |

# Results: Volatile Organic Compounds (Continued)

## Sample: TP-9 (Continued)

**Lab Number: 3F05022-09 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Naphthalene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| n-Propylbenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Styrene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,1,1,2-Tetrachloroethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Tetrachloroethene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Tetrahydrofuran | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Toluene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,2,4-Trichlorobenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,2,3-Trichlorobenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,1,2-Trichloroethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,1,1-Trichloroethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Trichloroethene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,2,3-Trichloropropane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,3,5-Trimethylbenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,2,4-Trimethylbenzene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Vinyl Chloride | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| o-Xylene | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| m&p-Xylene | ND | | 10 | ug/kg | 06/07/23 | 06/07/23 |
| Total xylenes | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,1,2,2-Tetrachloroethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| tert-Amyl methyl ether | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| 1,3-Dichloropropane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Ethyl tert-butyl ether | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Diisopropyl ether | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Trichlorofluoromethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |
| Dichlorodifluoromethane | ND | | 5 | ug/kg | 06/07/23 | 06/07/23 |

| Surrogate(s) | Recovery% | Limits | | |
|---|---|---|---|---|
| *4-Bromofluorobenzene* | *95.6%* | *70-130* | 06/07/23 | 06/07/23 |
| *1,2-Dichloroethane-d4* | *105%* | *70-130* | 06/07/23 | 06/07/23 |
| *Toluene-d8* | *102%* | *70-130* | 06/07/23 | 06/07/23 |

# Results: Polychlorinated Biphenyls (PCBs)

## Sample: TP-1

**Lab Number: 3F05022-01 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 73 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1221 | ND | | 73 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1232 | ND | | 73 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1242 | ND | | 73 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1248 | ND | | 73 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1254 | ND | | 73 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1260 | ND | | 73 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1262 | ND | | 73 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1268 | ND | | 73 | ug/kg | 06/09/23 | 06/13/23 |
| PCBs (Total) | ND | | 73 | ug/kg | 06/09/23 | 06/13/23 |

| Surrogate(s) | Recovery% | Limits | | |
|---|---|---|---|---|
| *2,4,5,6-Tetrachloro-m-xylene (TCMX )* | *74.2%* | *36.2-130* | 06/09/23 | 06/13/23 |
| *Decachlorobiphenyl (DCBP)* | *91.9%* | *43.3-130* | 06/09/23 | 06/13/23 |

# Results: Polychlorinated Biphenyls (PCBs)

## Sample: TP-2

**Lab Number: 3F05022-02 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 84 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1221 | ND | | 84 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1232 | ND | | 84 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1242 | ND | | 84 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1248 | ND | | 84 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1254 | ND | | 84 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1260 | ND | | 84 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1262 | ND | | 84 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1268 | ND | | 84 | ug/kg | 06/09/23 | 06/13/23 |
| PCBs (Total) | ND | | 84 | ug/kg | 06/09/23 | 06/13/23 |

| Surrogate(s) | Recovery% | Limits | | |
|---|---|---|---|---|
| *2,4,5,6-Tetrachloro-m-xylene (TCMX )* | *72.9%* | *36.2-130* | 06/09/23 | 06/13/23 |
| *Decachlorobiphenyl (DCBP)* | *78.2%* | *43.3-130* | 06/09/23 | 06/13/23 |

# Results: Polychlorinated Biphenyls (PCBs)

## Sample: GFS-2

**Lab Number: 3F05022-03 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 83 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1221 | ND | | 83 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1232 | ND | | 83 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1242 | ND | | 83 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1248 | ND | | 83 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1254 | ND | | 83 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1260 | ND | | 83 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1262 | ND | | 83 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1268 | ND | | 83 | ug/kg | 06/09/23 | 06/13/23 |
| PCBs (Total) | ND | | 83 | ug/kg | 06/09/23 | 06/13/23 |

| Surrogate(s) | Recovery% | Limits | | |
|---|---|---|---|---|
| *2,4,5,6-Tetrachloro-m-xylene (TCMX )* | *82.0%* | *36.2-130* | 06/09/23 | 06/13/23 |
| *Decachlorobiphenyl (DCBP)* | *102%* | *43.3-130* | 06/09/23 | 06/13/23 |

# Results: Polychlorinated Biphenyls (PCBs)

## Sample: GFS-3

**Lab Number: 3F05022-04 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 78 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1221 | ND | | 78 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1232 | ND | | 78 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1242 | ND | | 78 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1248 | ND | | 78 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1254 | ND | | 78 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1260 | ND | | 78 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1262 | ND | | 78 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1268 | ND | | 78 | ug/kg | 06/09/23 | 06/13/23 |
| PCBs (Total) | ND | | 78 | ug/kg | 06/09/23 | 06/13/23 |

| Surrogate(s) | Recovery% | Limits | | |
|---|---|---|---|---|
| *2,4,5,6-Tetrachloro-m-xylene (TCMX )* | *91.1%* | *36.2-130* | 06/09/23 | 06/13/23 |
| *Decachlorobiphenyl (DCBP)* | *%* | *43.3-130* | 06/09/23 | 06/13/23 |

# Results: Polychlorinated Biphenyls (PCBs)

## Sample: GFS-4

**Lab Number: 3F05022-05 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 78 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1221 | ND | | 78 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1232 | ND | | 78 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1242 | ND | | 78 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1248 | ND | | 78 | ug/kg | 06/09/23 | 06/13/23 |
| **Aroclor-1254** | **314** | | 78 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1260 | ND | | 78 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1262 | ND | | 78 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1268 | ND | | 78 | ug/kg | 06/09/23 | 06/13/23 |
| **PCBs (Total)** | **314** | | 78 | ug/kg | 06/09/23 | 06/13/23 |

| Surrogate(s) | Recovery% | Limits | | |
|---|---|---|---|---|
| *2,4,5,6-Tetrachloro-m-xylene (TCMX )* | *88.1%* | *36.2-130* | 06/09/23 | 06/13/23 |
| *Decachlorobiphenyl (DCBP)* | *89.9%* | *43.3-130* | 06/09/23 | 06/13/23 |

# Results: Polychlorinated Biphenyls (PCBs)

## Sample: GFS-5

**Lab Number: 3F05022-06 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 76 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1221 | ND | | 76 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1232 | ND | | 76 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1242 | ND | | 76 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1248 | ND | | 76 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1254 | ND | | 76 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1260 | ND | | 76 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1262 | ND | | 76 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1268 | ND | | 76 | ug/kg | 06/09/23 | 06/13/23 |
| PCBs (Total) | ND | | 76 | ug/kg | 06/09/23 | 06/13/23 |

| Surrogate(s) | Recovery% | Limits | | |
|---|---|---|---|---|
| *2,4,5,6-Tetrachloro-m-xylene (TCMX )* | *54.1%* | *36.2-130* | 06/09/23 | 06/13/23 |
| *Decachlorobiphenyl (DCBP)* | *64.5%* | *43.3-130* | 06/09/23 | 06/13/23 |

# Results: Polychlorinated Biphenyls (PCBs)

## Sample: TP-3

**Lab Number: 3F05022-07 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 72 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1221 | ND | | 72 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1232 | ND | | 72 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1242 | ND | | 72 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1248 | ND | | 72 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1254 | ND | | 72 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1260 | ND | | 72 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1262 | ND | | 72 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1268 | ND | | 72 | ug/kg | 06/09/23 | 06/13/23 |
| PCBs (Total) | ND | | 72 | ug/kg | 06/09/23 | 06/13/23 |

| Surrogate(s) | Recovery% | Limits | | |
|---|---|---|---|---|
| *2,4,5,6-Tetrachloro-m-xylene (TCMX )* | *57.6%* | *36.2-130* | 06/09/23 | 06/13/23 |
| *Decachlorobiphenyl (DCBP)* | *56.9%* | *43.3-130* | 06/09/23 | 06/13/23 |

# Results: Polychlorinated Biphenyls (PCBs)

## Sample: TP-6

**Lab Number: 3F05022-08 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 83 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1221 | ND | | 83 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1232 | ND | | 83 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1242 | ND | | 83 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1248 | ND | | 83 | ug/kg | 06/09/23 | 06/13/23 |
| **Aroclor-1254** | **431** | | 83 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1260 | ND | | 83 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1262 | ND | | 83 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1268 | ND | | 83 | ug/kg | 06/09/23 | 06/13/23 |
| **PCBs (Total)** | **431** | | 83 | ug/kg | 06/09/23 | 06/13/23 |

| Surrogate(s) | Recovery% | Limits | | |
|---|---|---|---|---|
| *2,4,5,6-Tetrachloro-m-xylene (TCMX )* | *74.2%* | *36.2-130* | 06/09/23 | 06/13/23 |
| *Decachlorobiphenyl (DCBP)* | *69.8%* | *43.3-130* | 06/09/23 | 06/13/23 |

# Results: Polychlorinated Biphenyls (PCBs)

## Sample: TP-9

**Lab Number: 3F05022-09 (Soil)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Aroclor-1016 | ND | | 73 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1221 | ND | | 73 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1232 | ND | | 73 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1242 | ND | | 73 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1248 | ND | | 73 | ug/kg | 06/09/23 | 06/13/23 |
| **Aroclor-1254** | **135** | | 73 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1260 | ND | | 73 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1262 | ND | | 73 | ug/kg | 06/09/23 | 06/13/23 |
| Aroclor-1268 | ND | | 73 | ug/kg | 06/09/23 | 06/13/23 |
| **PCBs (Total)** | **135** | | 73 | ug/kg | 06/09/23 | 06/13/23 |

| Surrogate(s) | Recovery% | Limits | | |
|---|---|---|---|---|
| *2,4,5,6-Tetrachloro-m-xylene (TCMX )* | *89.7%* | *36.2-130* | 06/09/23 | 06/13/23 |
| *Decachlorobiphenyl (DCBP)* | *91.6%* | *43.3-130* | 06/09/23 | 06/13/23 |

# Extractable Petroleum Hydrocarbons
# Sample: TP-1 (3F05022-01)

**SAMPLE INFORMATION**

| | |
|---|---|
| Matrix | Soil |
| Containers | Satisfactory |
| Aqueous Preservatives | NA |
| Temperature | Received on Ice Received at: 4+/-2 C° |
| Extraction Method | EPA Method 3546 |

**EPH ANALYTICAL RESULTS**

| | | | | | | |
|---|---|---|---|---|---|---|
| Method for Ranges: MADEP EPH 4-1.1 | | | | Client ID | TP-1 | |
| Method for Target Analytes: MADEP EPH 4-1.1 | | | | Lab ID | 3F05022-01 | |
| EPH Surrogate Standards:<br>Aliphatic: Chlorooctadecane<br>Aromatic: o-Terphenyl | | | | Date Collected | 06/02/23 | |
| | | | | Date Received | 06/05/23 | |
| | | | | Date Thawed | NA | |
| | | | | Date Extracted | 06/06/23 | |
| EPH Fractionation Surrogates:<br>(1) 2-Fluorobiphenyl<br>(2) 2-Bromonaphthalene | | | | Percent Moisture | 13.40 | |
| **RANGE/TARGET ANALYTE** | | **Dilution** | **RL** | **Units** | **Result** | **Analyzed** |
| Unadjusted C11-C22 Aromatic Hydrocarbons [1] | | 1X | 7.65 | mg/kg | **71.3** | 06/09/23 03:23 |
| Diesel PAH Analytes | Naphthalene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 03:23 |
| | 2-Methylnaphthalene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 03:23 |
| | Phenanthrene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 03:23 |
| | Acenaphthene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 03:23 |
| Other Target PAH Analytes | Acenaphthylene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 03:23 |
| | Fluorene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 03:23 |
| | Anthracene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 03:23 |
| | Fluoranthene | 1X | 0.38 | mg/kg | **0.68** | 06/09/23 03:23 |
| | Pyrene | 1X | 0.38 | mg/kg | **0.64** | 06/09/23 03:23 |
| | Benzo(a)anthracene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 03:23 |
| | Chrysene | 1X | 0.38 | mg/kg | **0.43** | 06/09/23 03:23 |
| | Benzo(b)fluoranthene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 03:23 |
| | Benzo(k)fluoranthene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 03:23 |
| | Benzo(a)pyrene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 03:23 |
| | Indeno(1,2,3-cd)pyrene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 03:23 |
| | Dibenz(a,h)anthracene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 03:23 |
| | Benzo(g,h,i)perylene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 03:23 |
| C9-C18 Aliphatic Hydrocarbons [1] | | 1X | 15.3 | mg/kg | <15.3 | 06/09/23 03:59 |
| C19-C36 Aliphatic Hydrocarbons [1] | | 1X | 15.3 | mg/kg | **125** | 06/09/23 03:59 |
| C11-C22 Aromatic Hydrocarbons [1,2] | | 1X | 7.65 | mg/kg | **69.6** | 06/09/23 03:23 |
| Chlorooctadecane (Sample Surrogate) | | | | % | 62.4 | 06/09/23 03:59 |
| o-Terphenyl (Sample Surrogate) | | | | % | 73.7 | 06/09/23 03:23 |
| 2-Fluorobiphenyl (Fractionation Surrogate) | | | | % | 103 | 06/09/23 03:23 |
| 2-Bromonaphthalene (Fractionation Surrogate) | | | | % | 93.8 | 06/09/23 03:23 |
| Surrogate Acceptance Range [3] | | | | % | 40 - 140 | |

[1] Hydrocarbon range data excludes area counts of any surrogate(s) and/or internal standards eluting in that range.
[2] C11-C22 Aromatic Hydrocarbons excludes the concentration of Target PAH Analytes.
[3] See the case narrative in cases where a dash (-) is entered in the surrogate recovery block.

# Extractable Petroleum Hydrocarbons
# Sample: TP-2 (3F05022-02)

**SAMPLE INFORMATION**

| | |
|---|---|
| Matrix | Soil |
| Containers | Satisfactory |
| Aqueous Preservatives | NA |
| Temperature | Received on Ice Received at: 4+/-2 C° |
| Extraction Method | EPA Method 3546 |

**EPH ANALYTICAL RESULTS**

| | | | | | | |
|---|---|---|---|---|---|---|
| Method for Ranges: MADEP EPH 4-1.1 | | | | Client ID | TP-2 | |
| Method for Target Analytes: MADEP EPH 4-1.1 | | | | Lab ID | 3F05022-02 | |
| EPH Surrogate Standards:<br>Aliphatic: Chlorooctadecane<br>Aromatic: o-Terphenyl | | | | Date Collected | 06/02/23 | |
| | | | | Date Received | 06/05/23 | |
| | | | | Date Thawed | NA | |
| | | | | Date Extracted | 06/06/23 | |
| EPH Fractionation Surrogates:<br>(1) 2-Fluorobiphenyl<br>(2) 2-Bromonaphthalene | | | | Percent Moisture | 22.40 | |
| **RANGE/TARGET ANALYTE** | | **Dilution** | **RL** | **Units** | **Result** | **Analyzed** |
| Unadjusted C11-C22 Aromatic Hydrocarbons [1] | | 1X | 8.54 | mg/kg | **121** | 06/09/23 04:19 |
| Diesel PAH Analytes | Naphthalene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 04:19 |
| | 2-Methylnaphthalene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 04:19 |
| | Phenanthrene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 04:19 |
| | Acenaphthene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 04:19 |
| Other Target PAH Analytes | Acenaphthylene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 04:19 |
| | Fluorene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 04:19 |
| | Anthracene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 04:19 |
| | Fluoranthene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 04:19 |
| | Pyrene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 04:19 |
| | Benzo(a)anthracene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 04:19 |
| | Chrysene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 04:19 |
| | Benzo(b)fluoranthene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 04:19 |
| | Benzo(k)fluoranthene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 04:19 |
| | Benzo(a)pyrene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 04:19 |
| | Indeno(1,2,3-cd)pyrene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 04:19 |
| | Dibenz(a,h)anthracene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 04:19 |
| | Benzo(g,h,i)perylene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 04:19 |
| C9-C18 Aliphatic Hydrocarbons [1] | | 1X | 17.0 | mg/kg | **34.7** | 06/09/23 04:24 |
| C19-C36 Aliphatic Hydrocarbons [1] | | 1X | 17.0 | mg/kg | **405** | 06/09/23 04:24 |
| C11-C22 Aromatic Hydrocarbons [1,2] | | 1X | 8.54 | mg/kg | **121** | 06/09/23 04:19 |
| Chlorooctadecane (Sample Surrogate) | | | | % | 28.6 | 06/09/23 04:24 |
| o-Terphenyl (Sample Surrogate) | | | | % | 26.5 | 06/09/23 04:19 |
| 2-Fluorobiphenyl (Fractionation Surrogate) | | | | % | 88.3 | 06/09/23 04:19 |
| 2-Bromonaphthalene (Fractionation Surrogate) | | | | % | 76.6 | 06/09/23 04:19 |
| Surrogate Acceptance Range [3] | | | | % | 40 - 140 | |

[1] Hydrocarbon range data excludes area counts of any surrogate(s) and/or internal standards eluting in that range.
[2] C11-C22 Aromatic Hydrocarbons excludes the concentration of Target PAH Analytes.
[3] See the case narrative in cases where a dash (-) is entered in the surrogate recovery block.

# Extractable Petroleum Hydrocarbons
# Sample: GFS-2 (3F05022-03)

**SAMPLE INFORMATION**

| | |
|---|---|
| Matrix | Soil |
| Containers | Satisfactory |
| Aqueous Preservatives | NA |
| Temperature | Received on Ice Received at: 4+/-2 C° |
| Extraction Method | EPA Method 3546 |

**EPH ANALYTICAL RESULTS**

| | | | | | | |
|---|---|---|---|---|---|---|
| Method for Ranges: MADEP EPH 4-1.1 | | | | Client ID | GFS-2 | |
| Method for Target Analytes: MADEP EPH 4-1.1 | | | | Lab ID | 3F05022-03 | |
| EPH Surrogate Standards:<br>Aliphatic: Chlorooctadecane<br>Aromatic: o-Terphenyl | | | | Date Collected | 06/02/23 | |
| | | | | Date Received | 06/05/23 | |
| | | | | Date Thawed | NA | |
| | | | | Date Extracted | 06/06/23 | |
| EPH Fractionation Surrogates:<br>(1) 2-Fluorobiphenyl<br>(2) 2-Bromonaphthalene | | | | Percent Moisture | 24.70 | |
| **RANGE/TARGET ANALYTE** | | **Dilution** | **RL** | **Units** | **Result** | **Analyzed** |
| Unadjusted C11-C22 Aromatic Hydrocarbons [1] | | 1X | 8.80 | mg/kg | **599** | 06/09/23 19:52 |
| Diesel PAH Analytes | Naphthalene | 1X | 0.44 | mg/kg | **0.73** | 06/09/23 19:52 |
| | 2-Methylnaphthalene | 1X | 0.44 | mg/kg | **1.08** | 06/09/23 19:52 |
| | Phenanthrene | 1X | 0.44 | mg/kg | **4.13** | 06/09/23 19:52 |
| | Acenaphthene | 1X | 0.44 | mg/kg | **0.65** | 06/09/23 19:52 |
| Other Target PAH Analytes | Acenaphthylene | 1X | 0.44 | mg/kg | <0.44 | 06/09/23 19:52 |
| | Fluorene | 1X | 0.44 | mg/kg | **0.81** | 06/09/23 19:52 |
| | Anthracene | 1X | 0.44 | mg/kg | **0.55** | 06/09/23 19:52 |
| | Fluoranthene | 1X | 0.44 | mg/kg | **0.94** | 06/09/23 19:52 |
| | Pyrene | 1X | 0.44 | mg/kg | **1.34** | 06/09/23 19:52 |
| | Benzo(a)anthracene | 1X | 0.44 | mg/kg | **0.83** | 06/09/23 19:52 |
| | Chrysene | 1X | 0.44 | mg/kg | **1.01** | 06/09/23 19:52 |
| | Benzo(b)fluoranthene | 1X | 0.44 | mg/kg | <0.44 | 06/09/23 19:52 |
| | Benzo(k)fluoranthene | 1X | 0.44 | mg/kg | <0.44 | 06/09/23 19:52 |
| | Benzo(a)pyrene | 1X | 0.44 | mg/kg | <0.44 | 06/09/23 19:52 |
| | Indeno(1,2,3-cd)pyrene | 1X | 0.44 | mg/kg | <0.44 | 06/09/23 19:52 |
| | Dibenz(a,h)anthracene | 1X | 0.44 | mg/kg | <0.44 | 06/09/23 19:52 |
| | Benzo(g,h,i)perylene | 1X | 0.44 | mg/kg | <0.44 | 06/09/23 19:52 |
| C9-C18 Aliphatic Hydrocarbons [1] | | 1X | 17.6 | mg/kg | **90.8** | 06/09/23 17:28 |
| C19-C36 Aliphatic Hydrocarbons [1] | | 1X | 17.6 | mg/kg | **555** | 06/09/23 17:28 |
| C11-C22 Aromatic Hydrocarbons [1,2] | | 1X | 8.80 | mg/kg | **587** | 06/09/23 19:52 |
| Chlorooctadecane (Sample Surrogate) | | | | % | 53.5 | 06/09/23 17:28 |
| o-Terphenyl (Sample Surrogate) | | | | % | 64.5 | 06/09/23 19:52 |
| 2-Fluorobiphenyl (Fractionation Surrogate) | | | | % | 100 | 06/09/23 19:52 |
| 2-Bromonaphthalene (Fractionation Surrogate) | | | | % | 94.0 | 06/09/23 19:52 |
| Surrogate Acceptance Range [3] | | | | % | 40 - 140 | |

[1] Hydrocarbon range data excludes area counts of any surrogate(s) and/or internal standards eluting in that range.
[2] C11-C22 Aromatic Hydrocarbons excludes the concentration of Target PAH Analytes.
[3] See the case narrative in cases where a dash (-) is entered in the surrogate recovery block.

# Extractable Petroleum Hydrocarbons
# Sample: GFS-3 (3F05022-04)

**SAMPLE INFORMATION**

| | |
|---|---|
| Matrix | Soil |
| Containers | Satisfactory |
| Aqueous Preservatives | NA |
| Temperature | Received on Ice Received at: 4+/-2 C° |
| Extraction Method | EPA Method 3546 |

**EPH ANALYTICAL RESULTS**

| | | | | | | |
|---|---|---|---|---|---|---|
| Method for Ranges: MADEP EPH 4-1.1 | | | | Client ID | GFS-3 | |
| Method for Target Analytes: MADEP EPH 4-1.1 | | | | Lab ID | 3F05022-04 | |
| EPH Surrogate Standards:<br>Aliphatic: Chlorooctadecane<br>Aromatic: o-Terphenyl | | | | Date Collected | 06/02/23 | |
| | | | | Date Received | 06/05/23 | |
| | | | | Date Thawed | NA | |
| | | | | Date Extracted | 06/06/23 | |
| EPH Fractionation Surrogates:<br>(1) 2-Fluorobiphenyl<br>(2) 2-Bromonaphthalene | | | | Percent Moisture | 18.60 | |
| **RANGE/TARGET ANALYTE** | | **Dilution** | **RL** | **Units** | **Result** | **Analyzed** |
| Unadjusted C11-C22 Aromatic Hydrocarbons [1] | | 1X | 8.14 | mg/kg | **148** | 06/09/23 18:01 |
| Diesel PAH Analytes | Naphthalene | 1X | 0.40 | mg/kg | <0.40 | 06/09/23 18:01 |
| | 2-Methylnaphthalene | 1X | 0.40 | mg/kg | <0.40 | 06/09/23 18:01 |
| | Phenanthrene | 1X | 0.40 | mg/kg | **0.71** | 06/09/23 18:01 |
| | Acenaphthene | 1X | 0.40 | mg/kg | <0.40 | 06/09/23 18:01 |
| Other Target PAH Analytes | Acenaphthylene | 1X | 0.40 | mg/kg | <0.40 | 06/09/23 18:01 |
| | Fluorene | 1X | 0.40 | mg/kg | <0.40 | 06/09/23 18:01 |
| | Anthracene | 1X | 0.40 | mg/kg | <0.40 | 06/09/23 18:01 |
| | Fluoranthene | 1X | 0.40 | mg/kg | **0.43** | 06/09/23 18:01 |
| | Pyrene | 1X | 0.40 | mg/kg | **0.73** | 06/09/23 18:01 |
| | Benzo(a)anthracene | 1X | 0.40 | mg/kg | <0.40 | 06/09/23 18:01 |
| | Chrysene | 1X | 0.40 | mg/kg | **0.56** | 06/09/23 18:01 |
| | Benzo(b)fluoranthene | 1X | 0.40 | mg/kg | <0.40 | 06/09/23 18:01 |
| | Benzo(k)fluoranthene | 1X | 0.40 | mg/kg | <0.40 | 06/09/23 18:01 |
| | Benzo(a)pyrene | 1X | 0.40 | mg/kg | <0.40 | 06/09/23 18:01 |
| | Indeno(1,2,3-cd)pyrene | 1X | 0.40 | mg/kg | <0.40 | 06/09/23 18:01 |
| | Dibenz(a,h)anthracene | 1X | 0.40 | mg/kg | <0.40 | 06/09/23 18:01 |
| | Benzo(g,h,i)perylene | 1X | 0.40 | mg/kg | <0.40 | 06/09/23 18:01 |
| C9-C18 Aliphatic Hydrocarbons [1] | | 1X | 16.2 | mg/kg | <16.2 | 06/09/23 17:52 |
| C19-C36 Aliphatic Hydrocarbons [1] | | 1X | 16.2 | mg/kg | **169** | 06/09/23 17:52 |
| C11-C22 Aromatic Hydrocarbons [1,2] | | 1X | 8.14 | mg/kg | **146** | 06/09/23 18:01 |
| Chlorooctadecane (Sample Surrogate) | | | | % | 67.9 | 06/09/23 17:52 |
| o-Terphenyl (Sample Surrogate) | | | | % | 66.1 | 06/09/23 18:01 |
| 2-Fluorobiphenyl (Fractionation Surrogate) | | | | % | 70.9 | 06/09/23 18:01 |
| 2-Bromonaphthalene (Fractionation Surrogate) | | | | % | 62.5 | 06/09/23 18:01 |
| Surrogate Acceptance Range [3] | | | | % | 40 - 140 | |

[1] Hydrocarbon range data excludes area counts of any surrogate(s) and/or internal standards eluting in that range.
[2] C11-C22 Aromatic Hydrocarbons excludes the concentration of Target PAH Analytes.
[3] See the case narrative in cases where a dash (-) is entered in the surrogate recovery block.

# Extractable Petroleum Hydrocarbons
# Sample: GFS-4 (3F05022-05)

**SAMPLE INFORMATION**

| | |
|---|---|
| Matrix | Soil |
| Containers | Satisfactory |
| Aqueous Preservatives | NA |
| Temperature | Received on Ice Received at: 4+/-2 C° |
| Extraction Method | EPA Method 3546 |

**EPH ANALYTICAL RESULTS**

| | | | | | | |
|---|---|---|---|---|---|---|
| Method for Ranges: MADEP EPH 4-1.1 | | | | Client ID | GFS-4 | |
| Method for Target Analytes: MADEP EPH 4-1.1 | | | | Lab ID | 3F05022-05 | |
| EPH Surrogate Standards:<br>Aliphatic: Chlorooctadecane<br>Aromatic: o-Terphenyl | | | | Date Collected | 06/02/23 | |
| | | | | Date Received | 06/05/23 | |
| | | | | Date Thawed | NA | |
| | | | | Date Extracted | 06/06/23 | |
| EPH Fractionation Surrogates:<br>(1) 2-Fluorobiphenyl<br>(2) 2-Bromonaphthalene | | | | Percent Moisture | 19.40 | |
| **RANGE/TARGET ANALYTE** | | **Dilution** | **RL** | **Units** | **Result** | **Analyzed** |
| Unadjusted C11-C22 Aromatic Hydrocarbons [1] | | 1X | 8.22 | mg/kg | **61.3** | 06/09/23 19:25 |
| Diesel PAH Analytes | Naphthalene | 1X | 0.41 | mg/kg | <0.41 | 06/09/23 19:25 |
| | 2-Methylnaphthalene | 1X | 0.41 | mg/kg | <0.41 | 06/09/23 19:25 |
| | Phenanthrene | 1X | 0.41 | mg/kg | <0.41 | 06/09/23 19:25 |
| | Acenaphthene | 1X | 0.41 | mg/kg | <0.41 | 06/09/23 19:25 |
| Other Target PAH Analytes | Acenaphthylene | 1X | 0.41 | mg/kg | <0.41 | 06/09/23 19:25 |
| | Fluorene | 1X | 0.41 | mg/kg | <0.41 | 06/09/23 19:25 |
| | Anthracene | 1X | 0.41 | mg/kg | <0.41 | 06/09/23 19:25 |
| | Fluoranthene | 1X | 0.41 | mg/kg | <0.41 | 06/09/23 19:25 |
| | Pyrene | 1X | 0.41 | mg/kg | <0.41 | 06/09/23 19:25 |
| | Benzo(a)anthracene | 1X | 0.41 | mg/kg | <0.41 | 06/09/23 19:25 |
| | Chrysene | 1X | 0.41 | mg/kg | <0.41 | 06/09/23 19:25 |
| | Benzo(b)fluoranthene | 1X | 0.41 | mg/kg | <0.41 | 06/09/23 19:25 |
| | Benzo(k)fluoranthene | 1X | 0.41 | mg/kg | <0.41 | 06/09/23 19:25 |
| | Benzo(a)pyrene | 1X | 0.41 | mg/kg | <0.41 | 06/09/23 19:25 |
| | Indeno(1,2,3-cd)pyrene | 1X | 0.41 | mg/kg | <0.41 | 06/09/23 19:25 |
| | Dibenz(a,h)anthracene | 1X | 0.41 | mg/kg | <0.41 | 06/09/23 19:25 |
| | Benzo(g,h,i)perylene | 1X | 0.41 | mg/kg | <0.41 | 06/09/23 19:25 |
| C9-C18 Aliphatic Hydrocarbons [1] | | 1X | 16.4 | mg/kg | <16.4 | 06/09/23 18:17 |
| C19-C36 Aliphatic Hydrocarbons [1] | | 1X | 16.4 | mg/kg | **67.0** | 06/09/23 18:17 |
| C11-C22 Aromatic Hydrocarbons [1,2] | | 1X | 8.22 | mg/kg | **61.3** | 06/09/23 19:25 |
| Chlorooctadecane (Sample Surrogate) | | | | % | 67.5 | 06/09/23 18:17 |
| o-Terphenyl (Sample Surrogate) | | | | % | 85.6 | 06/09/23 19:25 |
| 2-Fluorobiphenyl (Fractionation Surrogate) | | | | % | 103 | 06/09/23 19:25 |
| 2-Bromonaphthalene (Fractionation Surrogate) | | | | % | 97.8 | 06/09/23 19:25 |
| Surrogate Acceptance Range [3] | | | | % | 40 - 140 | |

[1] Hydrocarbon range data excludes area counts of any surrogate(s) and/or internal standards eluting in that range.
[2] C11-C22 Aromatic Hydrocarbons excludes the concentration of Target PAH Analytes.
[3] See the case narrative in cases where a dash (-) is entered in the surrogate recovery block.

# Extractable Petroleum Hydrocarbons
# Sample: GFS-5 (3F05022-06)

**SAMPLE INFORMATION**

| | |
|---|---|
| Matrix | Soil |
| Containers | Satisfactory |
| Aqueous Preservatives | NA |
| Temperature | Received on Ice Received at: 4+/-2 C° |
| Extraction Method | EPA Method 3546 |

**EPH ANALYTICAL RESULTS**

| | | | | | | |
|---|---|---|---|---|---|---|
| Method for Ranges: MADEP EPH 4-1.1 | | | | Client ID | GFS-5 | |
| Method for Target Analytes: MADEP EPH 4-1.1 | | | | Lab ID | 3F05022-06 | |
| EPH Surrogate Standards:<br>Aliphatic: Chlorooctadecane<br>Aromatic: o-Terphenyl | | | | Date Collected | 06/02/23 | |
| | | | | Date Received | 06/05/23 | |
| | | | | Date Thawed | NA | |
| | | | | Date Extracted | 06/06/23 | |
| EPH Fractionation Surrogates:<br>(1) 2-Fluorobiphenyl<br>(2) 2-Bromonaphthalene | | | | Percent Moisture | 14.70 | |
| **RANGE/TARGET ANALYTE** | | **Dilution** | **RL** | **Units** | **Result** | **Analyzed** |
| Unadjusted C11-C22 Aromatic Hydrocarbons [1] | | 1X | 7.77 | mg/kg | **831** | 06/09/23 20:48 |
| Diesel PAH Analytes | Naphthalene | 1X | 0.38 | mg/kg | **1.24** | 06/09/23 20:48 |
| | 2-Methylnaphthalene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:48 |
| | Phenanthrene | 1X | 0.38 | mg/kg | **1.65** | 06/09/23 20:48 |
| | Acenaphthene | 1X | 0.38 | mg/kg | **0.45** | 06/09/23 20:48 |
| Other Target PAH Analytes | Acenaphthylene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:48 |
| | Fluorene | 1X | 0.38 | mg/kg | **0.42** | 06/09/23 20:48 |
| | Anthracene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:48 |
| | Fluoranthene | 1X | 0.38 | mg/kg | **0.55** | 06/09/23 20:48 |
| | Pyrene | 1X | 0.38 | mg/kg | **0.60** | 06/09/23 20:48 |
| | Benzo(a)anthracene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:48 |
| | Chrysene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:48 |
| | Benzo(b)fluoranthene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:48 |
| | Benzo(k)fluoranthene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:48 |
| | Benzo(a)pyrene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:48 |
| | Indeno(1,2,3-cd)pyrene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:48 |
| | Dibenz(a,h)anthracene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:48 |
| | Benzo(g,h,i)perylene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:48 |
| C9-C18 Aliphatic Hydrocarbons [1] | | 5X | 77.4 | mg/kg | **333** | 06/12/23 13:49 |
| C19-C36 Aliphatic Hydrocarbons [1] | | 5X | 77.4 | mg/kg | **5180** | 06/12/23 13:49 |
| C11-C22 Aromatic Hydrocarbons [1,2] | | 1X | 7.77 | mg/kg | **826** | 06/09/23 20:48 |
| Chlorooctadecane (Sample Surrogate) | | | | % | 58.3 | 06/12/23 13:49 |
| o-Terphenyl (Sample Surrogate) | | | | % | 62.0 | 06/09/23 20:48 |
| 2-Fluorobiphenyl (Fractionation Surrogate) | | | | % | 87.3 | 06/09/23 20:48 |
| 2-Bromonaphthalene (Fractionation Surrogate) | | | | % | 89.9 | 06/09/23 20:48 |
| Surrogate Acceptance Range [3] | | | | % | 40 - 140 | |

[1] Hydrocarbon range data excludes area counts of any surrogate(s) and/or internal standards eluting in that range.
[2] C11-C22 Aromatic Hydrocarbons excludes the concentration of Target PAH Analytes.
[3] See the case narrative in cases where a dash (-) is entered in the surrogate recovery block.

# Extractable Petroleum Hydrocarbons
# Sample: TP-3 (3F05022-07)

**SAMPLE INFORMATION**

| | |
|---|---|
| Matrix | Soil |
| Containers | Satisfactory |
| Aqueous Preservatives | NA |
| Temperature | Received on Ice Received at: 4+/-2 C° |
| Extraction Method | EPA Method 3546 |

**EPH ANALYTICAL RESULTS**

| | | | | | | |
|---|---|---|---|---|---|---|
| Method for Ranges: MADEP EPH 4-1.1 | | | | Client ID | TP-3 | |
| Method for Target Analytes: MADEP EPH 4-1.1 | | | | Lab ID | 3F05022-07 | |
| EPH Surrogate Standards:<br>Aliphatic: Chlorooctadecane<br>Aromatic: o-Terphenyl | | | | Date Collected | 06/02/23 | |
| | | | | Date Received | 06/05/23 | |
| | | | | Date Thawed | NA | |
| | | | | Date Extracted | 06/06/23 | |
| EPH Fractionation Surrogates:<br>(1) 2-Fluorobiphenyl<br>(2) 2-Bromonaphthalene | | | | Percent Moisture | 12.90 | |
| **RANGE/TARGET ANALYTE** | | **Dilution** | **RL** | **Units** | **Result** | **Analyzed** |
| Unadjusted C11-C22 Aromatic Hydrocarbons [1] | | 1X | 7.61 | mg/kg | **71.3** | 06/09/23 20:20 |
| Diesel PAH Analytes | Naphthalene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:20 |
| | 2-Methylnaphthalene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:20 |
| | Phenanthrene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:20 |
| | Acenaphthene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:20 |
| Other Target PAH Analytes | Acenaphthylene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:20 |
| | Fluorene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:20 |
| | Anthracene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:20 |
| | Fluoranthene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:20 |
| | Pyrene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:20 |
| | Benzo(a)anthracene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:20 |
| | Chrysene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:20 |
| | Benzo(b)fluoranthene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:20 |
| | Benzo(k)fluoranthene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:20 |
| | Benzo(a)pyrene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:20 |
| | Indeno(1,2,3-cd)pyrene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:20 |
| | Dibenz(a,h)anthracene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:20 |
| | Benzo(g,h,i)perylene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 20:20 |
| C9-C18 Aliphatic Hydrocarbons [1] | | 1X | 15.2 | mg/kg | <15.2 | 06/09/23 18:42 |
| C19-C36 Aliphatic Hydrocarbons [1] | | 1X | 15.2 | mg/kg | **182** | 06/09/23 18:42 |
| C11-C22 Aromatic Hydrocarbons [1,2] | | 1X | 7.61 | mg/kg | **71.3** | 06/09/23 20:20 |
| Chlorooctadecane (Sample Surrogate) | | | | % | 63.5 | 06/09/23 18:42 |
| o-Terphenyl (Sample Surrogate) | | | | % | 85.6 | 06/09/23 20:20 |
| 2-Fluorobiphenyl (Fractionation Surrogate) | | | | % | 104 | 06/09/23 20:20 |
| 2-Bromonaphthalene (Fractionation Surrogate) | | | | % | 103 | 06/09/23 20:20 |
| Surrogate Acceptance Range [3] | | | | % | 40 - 140 | |

[1] Hydrocarbon range data excludes area counts of any surrogate(s) and/or internal standards eluting in that range.
[2] C11-C22 Aromatic Hydrocarbons excludes the concentration of Target PAH Analytes.
[3] See the case narrative in cases where a dash (-) is entered in the surrogate recovery block.

# Extractable Petroleum Hydrocarbons
# Sample: TP-6 (3F05022-08)

**SAMPLE INFORMATION**

| | |
|---|---|
| Matrix | Soil |
| Containers | Satisfactory |
| Aqueous Preservatives | NA |
| Temperature | Received on Ice Received at: 4+/-2 C° |
| Extraction Method | EPA Method 3546 |

**EPH ANALYTICAL RESULTS**

| | | | | | | |
|---|---|---|---|---|---|---|
| Method for Ranges: MADEP EPH 4-1.1 | | | | Client ID | TP-6 | |
| Method for Target Analytes: MADEP EPH 4-1.1 | | | | Lab ID | 3F05022-08 | |
| EPH Surrogate Standards:<br>Aliphatic: Chlorooctadecane<br>Aromatic: o-Terphenyl | | | | Date Collected | 06/02/23 | |
| | | | | Date Received | 06/05/23 | |
| | | | | Date Thawed | NA | |
| | | | | Date Extracted | 06/06/23 | |
| EPH Fractionation Surrogates:<br>(1) 2-Fluorobiphenyl<br>(2) 2-Bromonaphthalene | | | | Percent Moisture | 22.20 | |
| **RANGE/TARGET ANALYTE** | | **Dilution** | **RL** | **Units** | **Result** | **Analyzed** |
| Unadjusted C11-C22 Aromatic Hydrocarbons [1] | | 1X | 8.51 | mg/kg | **196** | 06/09/23 18:57 |
| Diesel PAH Analytes | Naphthalene | 1X | 0.42 | mg/kg | **0.91** | 06/09/23 18:57 |
| | 2-Methylnaphthalene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 18:57 |
| | Phenanthrene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 18:57 |
| | Acenaphthene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 18:57 |
| Other Target PAH Analytes | Acenaphthylene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 18:57 |
| | Fluorene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 18:57 |
| | Anthracene | 1X | 0.42 | mg/kg | **0.80** | 06/09/23 18:57 |
| | Fluoranthene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 18:57 |
| | Pyrene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 18:57 |
| | Benzo(a)anthracene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 18:57 |
| | Chrysene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 18:57 |
| | Benzo(b)fluoranthene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 18:57 |
| | Benzo(k)fluoranthene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 18:57 |
| | Benzo(a)pyrene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 18:57 |
| | Indeno(1,2,3-cd)pyrene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 18:57 |
| | Dibenz(a,h)anthracene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 18:57 |
| | Benzo(g,h,i)perylene | 1X | 0.42 | mg/kg | <0.42 | 06/09/23 18:57 |
| C9-C18 Aliphatic Hydrocarbons [1] | | 1X | 17.0 | mg/kg | **40.3** | 06/09/23 19:31 |
| C19-C36 Aliphatic Hydrocarbons [1] | | 1X | 17.0 | mg/kg | **357** | 06/09/23 19:31 |
| C11-C22 Aromatic Hydrocarbons [1,2] | | 1X | 8.51 | mg/kg | **195** | 06/09/23 18:57 |
| Chlorooctadecane (Sample Surrogate) | | | | % | 55.1 | 06/09/23 19:31 |
| o-Terphenyl (Sample Surrogate) | | | | % | 61.7 | 06/09/23 18:57 |
| 2-Fluorobiphenyl (Fractionation Surrogate) | | | | % | 82.8 | 06/09/23 18:57 |
| 2-Bromonaphthalene (Fractionation Surrogate) | | | | % | 61.5 | 06/09/23 18:57 |
| Surrogate Acceptance Range [3] | | | | % | 40 - 140 | |

[1] Hydrocarbon range data excludes area counts of any surrogate(s) and/or internal standards eluting in that range.
[2] C11-C22 Aromatic Hydrocarbons excludes the concentration of Target PAH Analytes.
[3] See the case narrative in cases where a dash (-) is entered in the surrogate recovery block.

# Extractable Petroleum Hydrocarbons
# Sample: TP-9 (3F05022-09)

**SAMPLE INFORMATION**

| | |
|---|---|
| Matrix | Soil |
| Containers | Satisfactory |
| Aqueous Preservatives | NA |
| Temperature | Received on Ice Received at: 4+/-2 C° |
| Extraction Method | EPA Method 3546 |

**EPH ANALYTICAL RESULTS**

| | | | | | | |
|---|---|---|---|---|---|---|
| Method for Ranges: MADEP EPH 4-1.1 | | | | Client ID | TP-9 | |
| Method for Target Analytes: MADEP EPH 4-1.1 | | | | Lab ID | 3F05022-09 | |
| EPH Surrogate Standards:<br>Aliphatic: Chlorooctadecane<br>Aromatic: o-Terphenyl | | | | Date Collected | 06/02/23 | |
| | | | | Date Received | 06/05/23 | |
| | | | | Date Thawed | NA | |
| | | | | Date Extracted | 06/06/23 | |
| EPH Fractionation Surrogates:<br>(1) 2-Fluorobiphenyl<br>(2) 2-Bromonaphthalene | | | | Percent Moisture | 13.20 | |
| **RANGE/TARGET ANALYTE** | | **Dilution** | **RL** | **Units** | **Result** | **Analyzed** |
| Unadjusted C11-C22 Aromatic Hydrocarbons [1] | | 1X | 7.63 | mg/kg | **39.7** | 06/09/23 18:29 |
| Diesel PAH Analytes | Naphthalene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 18:29 |
| | 2-Methylnaphthalene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 18:29 |
| | Phenanthrene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 18:29 |
| | Acenaphthene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 18:29 |
| Other Target PAH Analytes | Acenaphthylene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 18:29 |
| | Fluorene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 18:29 |
| | Anthracene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 18:29 |
| | Fluoranthene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 18:29 |
| | Pyrene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 18:29 |
| | Benzo(a)anthracene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 18:29 |
| | Chrysene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 18:29 |
| | Benzo(b)fluoranthene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 18:29 |
| | Benzo(k)fluoranthene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 18:29 |
| | Benzo(a)pyrene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 18:29 |
| | Indeno(1,2,3-cd)pyrene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 18:29 |
| | Dibenz(a,h)anthracene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 18:29 |
| | Benzo(g,h,i)perylene | 1X | 0.38 | mg/kg | <0.38 | 06/09/23 18:29 |
| C9-C18 Aliphatic Hydrocarbons [1] | | 1X | 15.2 | mg/kg | <15.2 | 06/09/23 19:06 |
| C19-C36 Aliphatic Hydrocarbons [1] | | 1X | 15.2 | mg/kg | **79.3** | 06/09/23 19:06 |
| C11-C22 Aromatic Hydrocarbons [1,2] | | 1X | 7.63 | mg/kg | **39.7** | 06/09/23 18:29 |
| Chlorooctadecane (Sample Surrogate) | | | | % | 65.5 | 06/09/23 19:06 |
| o-Terphenyl (Sample Surrogate) | | | | % | 68.0 | 06/09/23 18:29 |
| 2-Fluorobiphenyl (Fractionation Surrogate) | | | | % | 82.1 | 06/09/23 18:29 |
| 2-Bromonaphthalene (Fractionation Surrogate) | | | | % | 70.4 | 06/09/23 18:29 |
| Surrogate Acceptance Range [3] | | | | % | 40 - 140 | |

[1] Hydrocarbon range data excludes area counts of any surrogate(s) and/or internal standards eluting in that range.
[2] C11-C22 Aromatic Hydrocarbons excludes the concentration of Target PAH Analytes.
[3] See the case narrative in cases where a dash (-) is entered in the surrogate recovery block.

**EMSL Analytical, Inc.**
**5 Constitution Way, Unit A, Woburn, MA 01801**
Phone/Fax: (781) 933-8411 / (781) 933-8412
http://www.EMSL.com bostonlab@emsl.com

| | |
|---|---|
| EMSL Order: | 132303567 |
| CustomerID: | NETL78 |
| CustomerPO: | |
| ProjectID: | |

Attn: **Gretchen Dryfuse**
**New England Testing Laboratory, Inc.**
**59 Greenhill Street**
**West Warwick, RI 02893**

| | |
|---|---|
| Phone: | (401) 353-3420 |
| Fax: | (401) 354-8951 |
| Received: | 6/7/2023 12:55 PM |
| Analysis Date: | 6/14/2023 |
| Collected: | 6/2/2023 |

Project: **3F05022**

# Test Report: Qualitative Asbestos Analysis of Soils via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

| Sample | Description | Appearance | Result | Notes |
|---|---|---|---|---|
| 3F05022-01<br>*132303567-0001* | | Gray<br>Non-Fibrous<br>Homogeneous | **None Detected** | |
| 3F05022-02<br>*132303567-0002* | | Gray<br>Fibrous<br>Homogeneous | **None Detected** | |
| 3F05022-03<br>*132303567-0003* | | Gray<br>Fibrous<br>Homogeneous | **None Detected** | |
| 3F05022-04<br>*132303567-0004* | | Gray/Black<br>Fibrous<br>Homogeneous | **None Detected** | |
| 3F05022-05<br>*132303567-0005* | | Brown/Gray<br>Fibrous<br>Homogeneous | **Chrysotile** | |
| 3F05022-06<br>*132303567-0006* | | Gray/Black<br>Fibrous<br>Homogeneous | **Chrysotile** | |
| 3F05022-07<br>*132303567-0007* | | Gray<br>Fibrous<br>Homogeneous | **None Detected** | |
| 3F05022-08<br>*132303567-0008* | | Gray<br>Fibrous<br>Homogeneous | **None Detected** | |

Analyst(s)

*Ramon Buenaventura (9)*

Steve Grise, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. This method is designed for relatively homogenous bulk building materials not soil. There is a distinct chance for false negatives. EMSL recommends other, more specialized methods for these types of samples.
Samples analyzed by EMSL Analytical, Inc. Woburn, MA

Initial report from 06/14/2023 08:31:59

**EMSL Analytical, Inc.**
**5 Constitution Way, Unit A, Woburn, MA 01801**
Phone/Fax: (781) 933-8411 / (781) 933-8412
http://www.EMSL.com bostonlab@emsl.com

| | |
|---|---|
| EMSL Order: | 132303567 |
| CustomerID: | NETL78 |
| CustomerPO: | |
| ProjectID: | |

Attn: **Gretchen Dryfuse**
**New England Testing Laboratory, Inc.**
**59 Greenhill Street**
**West Warwick, RI 02893**

| | |
|---|---|
| Phone: | (401) 353-3420 |
| Fax: | (401) 354-8951 |
| Received: | 6/7/2023 12:55 PM |
| Analysis Date: | 6/14/2023 |
| Collected: | 6/2/2023 |

Project: **3F05022**

# Test Report: Qualitative Asbestos Analysis of Soils via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

| Sample | Description | Appearance | Result | Notes |
|---|---|---|---|---|
| 3F05022-09<br>*132303567-0009* | | Gray<br>Fibrous<br>Homogeneous | **None Detected** | |

Analyst(s)

*Ramon Buenaventura (9)*

Steve Grise, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. This method is designed for relatively homogenous bulk building materials not soil. There is a distinct chance for false negatives. EMSL recommends other, more specialized methods for these types of samples.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA

Initial report from 06/14/2023 08:31:59

132303567

SUB: EMSL

**New England Testing Laboratory**
59 Greenhill Street
West Warwick, RI 02893
1-888-863-8522

# Chain of Custody Record

**Project No.** | **Project Name/Location:** 3F05022

**Client:** NETLab
**Email Report to:** gdryfuse@newenglandtesting.com

**Report To:** Gretchen Dryfuse

**Invoice To:** accounting@newenglandtesting.com

| Date | Time | Comp | Grab | Sample I.D. | Matrix: Aqueous | Matrix: Soil | Matrix: Other | No. of Containers | Preservative | Tests**: | Tests**: Asbestos | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06/02/20223 | 09:30 | x | | 3F05022-01 | | x | | 1 | | | x | | | | | | | | |
| 06/02/20223 | 10:40 | x | | 3F05022-02 | | x | | 1 | | | x | | | | | | | | |
| 06/02/20223 | 10:45 | x | | 3F05022-03 | | x | | 1 | | | x | | | | | | | | |
| 06/02/20223 | 11:35 | x | | 3F05022-04 | | x | | 1 | | | x | | | | | | | | |
| 06/02/20223 | 12:24 | x | | 3F05022-05 | | x | | 1 | | | x | | | | | | | | |
| 06/02/20223 | 14:00 | x | | 3F05022-06 | | x | | 1 | | | x | | | | | | | | |
| 06/02/20223 | 11:30 | x | | 3F05022-07 | | x | | 1 | | | x | | | | | | | | |
| 06/02/20223 | 12:40 | x | | 3F05022-08 | | x | | 1 | | | x | | | | | | | | |
| 06/02/20223 | 14:20 | x | | 3F05022-09 | | x | | 1 | | | x | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| Relinquished By: | Date/Time | Received By: | Date/Time | Laboratory Remarks: | Special Instructions: |
|---|---|---|---|---|---|
| [signature] | 6-7-23 13:00 | | | | State of MA<br>Email Report |
| Relinquished By: | Date/Time | Received By: | Date/Time | Temp. Received:_____ | |
| | | | | | Turnaround Time [Business Days]: 5 Days |

REC'D EMSL-BOSTON JUN 07 2023
8M 1255
walk in

OrderID: 132303567

## Quality Control

### Total Metals

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0239 - Metals Digestion Soils*** | | | | | | | | | | |
| **Blank (B3F0239-BLK1)** | | | | | Prepared: 06/06/23 Analyzed: 06/07/23 | | | | | |
| Chromium | ND | | 0.50 | mg/kg | | | | | | |
| Silver | ND | | 1.00 | mg/kg | | | | | | |
| Arsenic | ND | | 1.00 | mg/kg | | | | | | |
| Barium | ND | | 0.33 | mg/kg | | | | | | |
| Beryllium | ND | | 0.33 | mg/kg | | | | | | |
| Cadmium | ND | | 0.50 | mg/kg | | | | | | |
| Nickel | ND | | 0.50 | mg/kg | | | | | | |
| Lead | ND | | 0.50 | mg/kg | | | | | | |
| Antimony | ND | | 0.66 | mg/kg | | | | | | |
| Selenium | ND | | 1.00 | mg/kg | | | | | | |
| Vanadium | ND | | 0.33 | mg/kg | | | | | | |
| Zinc | ND | | 2.0 | mg/kg | | | | | | |
| Thallium | ND | | 0.33 | mg/kg | | | | | | |
| **LCS (B3F0239-BS1)** | | | | | Prepared & Analyzed: 06/06/23 | | | | | |
| Arsenic | 19.5 | | 1.00 | mg/kg | 20.0 | | 97.3 | 85-115 | | |
| Silver | 43.1 | | 1.00 | mg/kg | 40.0 | | 108 | 85-115 | | |
| Cadmium | 89.5 | | 0.50 | mg/kg | 100 | | 89.5 | 85-115 | | |
| Zinc | 88.8 | | 2.0 | mg/kg | 100 | | 88.8 | 85-115 | | |
| Vanadium | 98.8 | | 0.33 | mg/kg | 100 | | 98.8 | 85-115 | | |
| Barium | 91.9 | | 0.33 | mg/kg | 100 | | 91.9 | 85-115 | | |
| Beryllium | 18.7 | | 0.33 | mg/kg | 20.0 | | 93.7 | 85-115 | | |
| Selenium | 18.1 | | 1.00 | mg/kg | 20.0 | | 90.4 | 85-115 | | |
| Chromium | 95.8 | | 0.50 | mg/kg | 100 | | 95.8 | 85-115 | | |
| Antimony | 99.0 | | 0.66 | mg/kg | 100 | | 99.0 | 85-115 | | |
| Nickel | 91.8 | | 0.50 | mg/kg | 100 | | 91.8 | 85-112 | | |
| Lead | 93.8 | | 0.50 | mg/kg | 100 | | 93.8 | 85-115 | | |
| Thallium | 87.3 | | 0.33 | mg/kg | 100 | | 87.3 | 85-115 | | |

## Quality Control
**(Continued)**

### Total Metals (Continued)

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0246 - Metals Cold-Vapor Mercury*** | | | | | | | | | | |
| **Blank (B3F0246-BLK1)** | | | | | Prepared & Analyzed: 06/06/23 | | | | | |
| Mercury | ND | | 0.140 | mg/kg | | | | | | |
| **LCS (B3F0246-BS1)** | | | | | Prepared & Analyzed: 06/06/23 | | | | | |
| Mercury | 0.504 | | 0.140 | mg/kg | 0.500 | | 101 | 93-114 | | |
| **LCS Dup (B3F0246-BSD1)** | | | | | Prepared & Analyzed: 06/06/23 | | | | | |
| Mercury | 0.499 | | 0.140 | mg/kg | 0.500 | | 99.7 | 93-114 | 0.991 | 200 |

### Volatile Organic Compounds

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0288 - EPA 5035*** | | | | | | | | | | |
| **Blank (B3F0288-BLK1)** | | | | | Prepared & Analyzed: 06/06/23 | | | | | |
| Acetone | ND | | 79 | ug/kg | | | | | | |
| Benzene | ND | | 5 | ug/kg | | | | | | |
| Bromobenzene | ND | | 5 | ug/kg | | | | | | |
| Bromochloromethane | ND | | 5 | ug/kg | | | | | | |
| Bromodichloromethane | ND | | 5 | ug/kg | | | | | | |
| Bromoform | ND | | 5 | ug/kg | | | | | | |
| Bromomethane | ND | | 5 | ug/kg | | | | | | |
| 2-Butanone | ND | | 19 | ug/kg | | | | | | |
| tert-Butyl alcohol | ND | | 5 | ug/kg | | | | | | |
| sec-Butylbenzene | ND | | 5 | ug/kg | | | | | | |
| n-Butylbenzene | ND | | 5 | ug/kg | | | | | | |
| tert-Butylbenzene | ND | | 5 | ug/kg | | | | | | |
| Methyl t-butyl ether (MTBE) | ND | | 5 | ug/kg | | | | | | |
| Carbon Disulfide | ND | | 5 | ug/kg | | | | | | |
| Carbon Tetrachloride | ND | | 5 | ug/kg | | | | | | |
| Chlorobenzene | ND | | 5 | ug/kg | | | | | | |
| Chloroethane | ND | | 5 | ug/kg | | | | | | |
| Chloroform | ND | | 5 | ug/kg | | | | | | |
| Chloromethane | ND | | 5 | ug/kg | | | | | | |
| 4-Chlorotoluene | ND | | 5 | ug/kg | | | | | | |
| 2-Chlorotoluene | ND | | 5 | ug/kg | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | | 5 | ug/kg | | | | | | |
| Dibromochloromethane | ND | | 5 | ug/kg | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | | 5 | ug/kg | | | | | | |
| Dibromomethane | ND | | 5 | ug/kg | | | | | | |
| 1,2-Dichlorobenzene | ND | | 5 | ug/kg | | | | | | |
| 1,3-Dichlorobenzene | ND | | 5 | ug/kg | | | | | | |
| 1,4-Dichlorobenzene | ND | | 5 | ug/kg | | | | | | |
| 1,1-Dichloroethane | ND | | 5 | ug/kg | | | | | | |
| 1,2-Dichloroethane | ND | | 5 | ug/kg | | | | | | |
| trans-1,2-Dichloroethene | ND | | 5 | ug/kg | | | | | | |
| cis-1,2-Dichloroethene | ND | | 5 | ug/kg | | | | | | |
| 1,1-Dichloroethene | ND | | 5 | ug/kg | | | | | | |
| 1,2-Dichloropropane | ND | | 5 | ug/kg | | | | | | |
| 2,2-Dichloropropane | ND | | 5 | ug/kg | | | | | | |
| cis-1,3-Dichloropropene | ND | | 5 | ug/kg | | | | | | |
| trans-1,3-Dichloropropene | ND | | 5 | ug/kg | | | | | | |
| 1,1-Dichloropropene | ND | | 5 | ug/kg | | | | | | |
| 1,3-Dichloropropene (cis + trans) | ND | | 5 | ug/kg | | | | | | |
| Diethyl ether | ND | | 5 | ug/kg | | | | | | |
| 1,4-Dioxane | ND | | 100 | ug/kg | | | | | | |
| Ethylbenzene | ND | | 5 | ug/kg | | | | | | |
| Hexachlorobutadiene | ND | | 5 | ug/kg | | | | | | |
| 2-Hexanone | ND | | 20 | ug/kg | | | | | | |
| Isopropylbenzene | ND | | 5 | ug/kg | | | | | | |
| p-Isopropyltoluene | ND | | 5 | ug/kg | | | | | | |
| Methylene Chloride | ND | | 5 | ug/kg | | | | | | |
| 4-Methyl-2-pentanone | ND | | 5 | ug/kg | | | | | | |
| Naphthalene | ND | | 5 | ug/kg | | | | | | |
| n-Propylbenzene | ND | | 5 | ug/kg | | | | | | |
| Styrene | ND | | 5 | ug/kg | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | | 5 | ug/kg | | | | | | |
| Tetrachloroethene | ND | | 5 | ug/kg | | | | | | |
| Tetrahydrofuran | ND | | 5 | ug/kg | | | | | | |
| Toluene | ND | | 5 | ug/kg | | | | | | |
| 1,2,4-Trichlorobenzene | ND | | 5 | ug/kg | | | | | | |
| 1,2,3-Trichlorobenzene | ND | | 5 | ug/kg | | | | | | |

### Volatile Organic Compounds (Continued)

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0288 - EPA 5035 (Continued)*** | | | | | | | | | | |
| **Blank (B3F0288-BLK1)** | | | | | Prepared & Analyzed: 06/06/23 | | | | | |
| 1,1,2-Trichloroethane | ND | | 5 | ug/kg | | | | | | |
| 1,1,1-Trichloroethane | ND | | 5 | ug/kg | | | | | | |
| Trichloroethene | ND | | 5 | ug/kg | | | | | | |
| 1,2,3-Trichloropropane | ND | | 5 | ug/kg | | | | | | |
| 1,3,5-Trimethylbenzene | ND | | 5 | ug/kg | | | | | | |
| 1,2,4-Trimethylbenzene | ND | | 5 | ug/kg | | | | | | |
| Vinyl Chloride | ND | | 5 | ug/kg | | | | | | |
| o-Xylene | ND | | 5 | ug/kg | | | | | | |
| m&p-Xylene | ND | | 10 | ug/kg | | | | | | |
| Total xylenes | ND | | 5 | ug/kg | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | | 5 | ug/kg | | | | | | |
| tert-Amyl methyl ether | ND | | 5 | ug/kg | | | | | | |
| 1,3-Dichloropropane | ND | | 5 | ug/kg | | | | | | |
| Ethyl tert-butyl ether | ND | | 5 | ug/kg | | | | | | |
| Diisopropyl ether | ND | | 5 | ug/kg | | | | | | |
| Trichlorofluoromethane | ND | | 5 | ug/kg | | | | | | |
| Dichlorodifluoromethane | ND | | 5 | ug/kg | | | | | | |
| *Surrogate: 4-Bromofluorobenzene* | | | *51.4* | ug/kg | *50.0* | | *103* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | | | *50.1* | ug/kg | *50.0* | | *100* | *70-130* | | |
| *Surrogate: Toluene-d8* | | | *51.2* | ug/kg | *50.0* | | *102* | *70-130* | | |
| **LCS (B3F0288-BS1)** | | | | | Prepared & Analyzed: 06/06/23 | | | | | |
| Acetone | 58 | | 20 | ug/kg | 50.0 | | 117 | 50-150 | | |
| Benzene | 50 | | 5 | ug/kg | 50.0 | | 100 | 70-130 | | |
| Bromobenzene | 57 | | 5 | ug/kg | 50.0 | | 113 | 70-130 | | |
| Bromochloromethane | 56 | | 5 | ug/kg | 50.0 | | 113 | 70-130 | | |
| Bromodichloromethane | 60 | | 5 | ug/kg | 50.0 | | 120 | 70-130 | | |
| Bromoform | 59 | | 5 | ug/kg | 50.0 | | 118 | 70-130 | | |
| Bromomethane | 52 | | 5 | ug/kg | 50.0 | | 105 | 50-150 | | |
| 2-Butanone | 50 | | 20 | ug/kg | 50.0 | | 99.8 | 50-150 | | |
| tert-Butyl alcohol | 64 | | 5 | ug/kg | 50.0 | | 127 | 70-130 | | |
| sec-Butylbenzene | 53 | | 5 | ug/kg | 50.0 | | 105 | 70-130 | | |
| n-Butylbenzene | 53 | | 5 | ug/kg | 50.0 | | 105 | 70-130 | | |
| tert-Butylbenzene | 53 | | 5 | ug/kg | 50.0 | | 107 | 70-130 | | |
| Methyl t-butyl ether (MTBE) | 54 | | 5 | ug/kg | 50.0 | | 109 | 70-130 | | |
| Carbon Disulfide | 55 | | 5 | ug/kg | 50.0 | | 111 | 50-150 | | |
| Carbon Tetrachloride | 61 | | 5 | ug/kg | 50.0 | | 122 | 70-130 | | |
| Chlorobenzene | 48 | | 5 | ug/kg | 50.0 | | 95.2 | 70-130 | | |
| Chloroethane | 53 | | 5 | ug/kg | 50.0 | | 105 | 50-150 | | |
| Chloroform | 57 | | 5 | ug/kg | 50.0 | | 115 | 70-130 | | |
| Chloromethane | 45 | | 5 | ug/kg | 50.0 | | 90.1 | 50-150 | | |
| 4-Chlorotoluene | 52 | | 5 | ug/kg | 50.0 | | 103 | 70-130 | | |
| 2-Chlorotoluene | 51 | | 5 | ug/kg | 50.0 | | 103 | 70-130 | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 53 | | 5 | ug/kg | 50.0 | | 105 | 70-130 | | |
| Dibromochloromethane | 61 | | 5 | ug/kg | 50.0 | | 123 | 70-130 | | |
| 1,2-Dibromoethane (EDB) | 56 | | 5 | ug/kg | 50.0 | | 113 | 70-130 | | |
| Dibromomethane | 55 | | 5 | ug/kg | 50.0 | | 110 | 60-140 | | |
| 1,2-Dichlorobenzene | 51 | | 5 | ug/kg | 50.0 | | 101 | 70-130 | | |
| 1,3-Dichlorobenzene | 54 | | 5 | ug/kg | 50.0 | | 108 | 70-130 | | |
| 1,4-Dichlorobenzene | 50 | | 5 | ug/kg | 50.0 | | 101 | 70-130 | | |
| 1,1-Dichloroethane | 52 | | 5 | ug/kg | 50.0 | | 104 | 70-130 | | |
| 1,2-Dichloroethane | 59 | | 5 | ug/kg | 50.0 | | 119 | 70-130 | | |
| trans-1,2-Dichloroethene | 53 | | 5 | ug/kg | 50.0 | | 107 | 70-130 | | |
| cis-1,2-Dichloroethene | 52 | | 5 | ug/kg | 50.0 | | 105 | 70-130 | | |
| 1,1-Dichloroethene | 62 | | 5 | ug/kg | 50.0 | | 123 | 70-130 | | |
| 1,2-Dichloropropane | 48 | | 5 | ug/kg | 50.0 | | 96.9 | 70-130 | | |
| 2,2-Dichloropropane | 61 | | 5 | ug/kg | 50.0 | | 122 | 70-130 | | |

## Volatile Organic Compounds (Continued)

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0288 - EPA 5035 (Continued)*** | | | | | | | | | | |
| **LCS (B3F0288-BS1)** | | | | | Prepared & Analyzed: 06/06/23 | | | | | |
| cis-1,3-Dichloropropene | 54 | | 5 | ug/kg | 50.0 | | 109 | 70-130 | | |
| trans-1,3-Dichloropropene | 58 | | 5 | ug/kg | 50.0 | | 116 | 70-130 | | |
| 1,1-Dichloropropene | 52 | | 5 | ug/kg | 50.0 | | 104 | 70-130 | | |
| Diethyl ether | 59 | | 5 | ug/kg | 50.0 | | 118 | 60-140 | | |
| 1,4-Dioxane | 196 | | 100 | ug/kg | 250 | | 78.4 | 0-200 | | |
| Ethylbenzene | 52 | | 5 | ug/kg | 50.0 | | 104 | 70-130 | | |
| Hexachlorobutadiene | 60 | | 5 | ug/kg | 50.0 | | 119 | 70-130 | | |
| 2-Hexanone | 48 | | 20 | ug/kg | 50.0 | | 96.0 | 50-150 | | |
| Isopropylbenzene | 53 | | 5 | ug/kg | 50.0 | | 106 | 70-130 | | |
| p-Isopropyltoluene | 55 | | 5 | ug/kg | 50.0 | | 111 | 70-130 | | |
| Methylene Chloride | 47 | | 5 | ug/kg | 50.0 | | 93.7 | 60-140 | | |
| 4-Methyl-2-pentanone | 46 | | 5 | ug/kg | 50.0 | | 92.8 | 50-150 | | |
| Naphthalene | 52 | | 5 | ug/kg | 50.0 | | 104 | 70-130 | | |
| n-Propylbenzene | 52 | | 5 | ug/kg | 50.0 | | 105 | 70-130 | | |
| Styrene | 53 | | 5 | ug/kg | 50.0 | | 106 | 70-130 | | |
| 1,1,1,2-Tetrachloroethane | 56 | | 5 | ug/kg | 50.0 | | 111 | 70-130 | | |
| Tetrachloroethene | 59 | | 5 | ug/kg | 50.0 | | 117 | 70-130 | | |
| Tetrahydrofuran | 46 | | 5 | ug/kg | 50.0 | | 92.6 | 50-150 | | |
| Toluene | 53 | | 5 | ug/kg | 50.0 | | 107 | 70-130 | | |
| 1,2,4-Trichlorobenzene | 58 | | 5 | ug/kg | 50.0 | | 116 | 70-130 | | |
| 1,2,3-Trichlorobenzene | 56 | | 5 | ug/kg | 50.0 | | 112 | 70-130 | | |
| 1,1,2-Trichloroethane | 51 | | 5 | ug/kg | 50.0 | | 103 | 70-130 | | |
| 1,1,1-Trichloroethane | 62 | | 5 | ug/kg | 50.0 | | 124 | 70-130 | | |
| Trichloroethene | 53 | | 5 | ug/kg | 50.0 | | 107 | 70-130 | | |
| 1,2,3-Trichloropropane | 47 | | 5 | ug/kg | 50.0 | | 93.6 | 70-130 | | |
| 1,3,5-Trimethylbenzene | 56 | | 5 | ug/kg | 50.0 | | 111 | 70-130 | | |
| 1,2,4-Trimethylbenzene | 56 | | 5 | ug/kg | 50.0 | | 112 | 70-130 | | |
| Vinyl Chloride | 48 | | 5 | ug/kg | 50.0 | | 95.9 | 50-150 | | |
| o-Xylene | 50 | | 5 | ug/kg | 50.0 | | 101 | 70-130 | | |
| m&p-Xylene | 101 | | 10 | ug/kg | 100 | | 101 | 70-130 | | |
| 1,1,2,2-Tetrachloroethane | 49 | | 5 | ug/kg | 50.0 | | 98.2 | 70-130 | | |
| tert-Amyl methyl ether | 53 | | 5 | ug/kg | 50.0 | | 106 | 70-130 | | |
| 1,3-Dichloropropane | 51 | | 5 | ug/kg | 50.0 | | 102 | 70-130 | | |
| Ethyl tert-butyl ether | 53 | | 5 | ug/kg | 50.0 | | 106 | 70-130 | | |
| Trichlorofluoromethane | 60 | | 5 | ug/kg | 50.0 | | 121 | 50-150 | | |
| Dichlorodifluoromethane | 58 | | 5 | ug/kg | 50.0 | | 117 | 50-150 | | |
| *Surrogate: 4-Bromofluorobenzene* | | | *51.7* | ug/kg | *50.0* | | *103* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | | | *52.2* | ug/kg | *50.0* | | *104* | *70-130* | | |
| *Surrogate: Toluene-d8* | | | *51.4* | ug/kg | *50.0* | | *103* | *70-130* | | |

### Volatile Organic Compounds (Continued)

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0288 - EPA 5035 (Continued)*** | | | | | | | | | | |
| **LCS Dup (B3F0288-BSD1)** | | | | | Prepared & Analyzed: 06/06/23 | | | | | |
| Acetone | 67 | | 20 | ug/kg | 50.0 | | 135 | 50-150 | 14.3 | 30 |
| Benzene | 53 | | 5 | ug/kg | 50.0 | | 107 | 70-130 | 6.59 | 20 |
| Bromobenzene | 59 | | 5 | ug/kg | 50.0 | | 119 | 70-130 | 4.72 | 20 |
| Bromochloromethane | 60 | | 5 | ug/kg | 50.0 | | 120 | 70-130 | 6.01 | 20 |
| Bromodichloromethane | 63 | | 5 | ug/kg | 50.0 | | 126 | 70-130 | 4.81 | 20 |
| Bromoform | 64 | | 5 | ug/kg | 50.0 | | 127 | 70-130 | 8.10 | 20 |
| Bromomethane | 54 | | 5 | ug/kg | 50.0 | | 108 | 50-150 | 3.59 | 30 |
| 2-Butanone | 57 | | 20 | ug/kg | 50.0 | | 115 | 50-150 | 13.7 | 30 |
| tert-Butyl alcohol | 70 | | 5 | ug/kg | 50.0 | | 141 | 70-130 | 9.85 | 20 |
| sec-Butylbenzene | 56 | | 5 | ug/kg | 50.0 | | 111 | 70-130 | 5.61 | 20 |
| n-Butylbenzene | 55 | | 5 | ug/kg | 50.0 | | 110 | 70-130 | 4.65 | 20 |
| tert-Butylbenzene | 56 | | 5 | ug/kg | 50.0 | | 112 | 70-130 | 4.97 | 20 |
| Methyl t-butyl ether (MTBE) | 58 | | 5 | ug/kg | 50.0 | | 117 | 70-130 | 7.12 | 20 |
| Carbon Disulfide | 58 | | 5 | ug/kg | 50.0 | | 116 | 50-150 | 4.82 | 40 |
| Carbon Tetrachloride | 65 | | 5 | ug/kg | 50.0 | | 129 | 70-130 | 5.97 | 20 |
| Chlorobenzene | 51 | | 5 | ug/kg | 50.0 | | 101 | 70-130 | 6.21 | 20 |
| Chloroethane | 57 | | 5 | ug/kg | 50.0 | | 114 | 50-150 | 8.28 | 30 |
| Chloroform | 61 | | 5 | ug/kg | 50.0 | | 123 | 70-130 | 7.04 | 20 |
| Chloromethane | 48 | | 5 | ug/kg | 50.0 | | 96.5 | 50-150 | 6.90 | 30 |
| 4-Chlorotoluene | 55 | | 5 | ug/kg | 50.0 | | 109 | 70-130 | 5.59 | 20 |
| 2-Chlorotoluene | 54 | | 5 | ug/kg | 50.0 | | 109 | 70-130 | 5.59 | 20 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 58 | | 5 | ug/kg | 50.0 | | 116 | 70-130 | 9.35 | 20 |
| Dibromochloromethane | 64 | | 5 | ug/kg | 50.0 | | 128 | 70-130 | 4.06 | 20 |
| 1,2-Dibromoethane (EDB) | 60 | | 5 | ug/kg | 50.0 | | 120 | 70-130 | 6.18 | 20 |
| Dibromomethane | 60 | | 5 | ug/kg | 50.0 | | 120 | 60-140 | 8.11 | 30 |
| 1,2-Dichlorobenzene | 54 | | 5 | ug/kg | 50.0 | | 108 | 70-130 | 6.55 | 20 |
| 1,3-Dichlorobenzene | 57 | | 5 | ug/kg | 50.0 | | 114 | 70-130 | 5.07 | 20 |
| 1,4-Dichlorobenzene | 53 | | 5 | ug/kg | 50.0 | | 107 | 70-130 | 5.92 | 20 |
| 1,1-Dichloroethane | 57 | | 5 | ug/kg | 50.0 | | 113 | 70-130 | 8.88 | 20 |
| 1,2-Dichloroethane | 65 | | 5 | ug/kg | 50.0 | | 129 | 70-130 | 8.71 | 20 |
| trans-1,2-Dichloroethene | 56 | | 5 | ug/kg | 50.0 | | 113 | 70-130 | 5.58 | 20 |
| cis-1,2-Dichloroethene | 57 | | 5 | ug/kg | 50.0 | | 114 | 70-130 | 8.18 | 20 |
| 1,1-Dichloroethene | 63 | | 5 | ug/kg | 50.0 | | 126 | 70-130 | 2.12 | 20 |
| 1,2-Dichloropropane | 52 | | 5 | ug/kg | 50.0 | | 104 | 70-130 | 7.36 | 20 |
| 2,2-Dichloropropane | 64 | | 5 | ug/kg | 50.0 | | 127 | 70-130 | 4.30 | 20 |
| cis-1,3-Dichloropropene | 58 | | 5 | ug/kg | 50.0 | | 116 | 70-130 | 6.14 | 20 |
| trans-1,3-Dichloropropene | 63 | | 5 | ug/kg | 50.0 | | 125 | 70-130 | 7.83 | 20 |
| 1,1-Dichloropropene | 57 | | 5 | ug/kg | 50.0 | | 114 | 70-130 | 8.89 | 20 |
| Diethyl ether | 63 | | 5 | ug/kg | 50.0 | | 126 | 60-140 | 6.42 | 30 |
| 1,4-Dioxane | 250 | | 100 | ug/kg | 250 | | 99.9 | 0-200 | 24.1 | 50 |
| Ethylbenzene | 55 | | 5 | ug/kg | 50.0 | | 111 | 70-130 | 6.54 | 20 |
| Hexachlorobutadiene | 64 | | 5 | ug/kg | 50.0 | | 128 | 70-130 | 7.33 | 20 |
| 2-Hexanone | 56 | | 20 | ug/kg | 50.0 | | 111 | 50-150 | 14.7 | 20 |
| Isopropylbenzene | 56 | | 5 | ug/kg | 50.0 | | 112 | 70-130 | 5.49 | 20 |
| p-Isopropyltoluene | 59 | | 5 | ug/kg | 50.0 | | 118 | 70-130 | 5.97 | 20 |
| Methylene Chloride | 56 | | 5 | ug/kg | 50.0 | | 113 | 60-140 | 18.4 | 30 |
| 4-Methyl-2-pentanone | 50 | | 5 | ug/kg | 50.0 | | 99.5 | 50-150 | 6.97 | 20 |
| Naphthalene | 56 | | 5 | ug/kg | 50.0 | | 112 | 70-130 | 8.10 | 20 |
| n-Propylbenzene | 55 | | 5 | ug/kg | 50.0 | | 110 | 70-130 | 4.97 | 20 |
| Styrene | 56 | | 5 | ug/kg | 50.0 | | 112 | 70-130 | 5.58 | 20 |
| 1,1,1,2-Tetrachloroethane | 59 | | 5 | ug/kg | 50.0 | | 119 | 70-130 | 6.40 | 20 |
| Tetrachloroethene | 62 | | 5 | ug/kg | 50.0 | | 125 | 70-130 | 6.22 | 20 |
| Tetrahydrofuran | 49 | | 5 | ug/kg | 50.0 | | 99.0 | 50-150 | 6.70 | 40 |
| Toluene | 57 | | 5 | ug/kg | 50.0 | | 114 | 70-130 | 6.71 | 20 |
| 1,2,4-Trichlorobenzene | 60 | | 5 | ug/kg | 50.0 | | 119 | 70-130 | 2.65 | 20 |
| 1,2,3-Trichlorobenzene | 60 | | 5 | ug/kg | 50.0 | | 119 | 70-130 | 6.33 | 20 |
| 1,1,2-Trichloroethane | 57 | | 5 | ug/kg | 50.0 | | 114 | 70-130 | 9.93 | 20 |

## Volatile Organic Compounds (Continued)

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0288 - EPA 5035 (Continued)*** | | | | | | | | | | |
| **LCS Dup (B3F0288-BSD1)** | | | | | Prepared & Analyzed: 06/06/23 | | | | | |
| 1,1,1-Trichloroethane | 64 | | 5 | ug/kg | 50.0 | | 128 | 70-130 | 3.39 | 20 |
| Trichloroethene | 58 | | 5 | ug/kg | 50.0 | | 117 | 70-130 | 9.02 | 20 |
| 1,2,3-Trichloropropane | 51 | | 5 | ug/kg | 50.0 | | 102 | 70-130 | 8.32 | 20 |
| 1,3,5-Trimethylbenzene | 59 | | 5 | ug/kg | 50.0 | | 118 | 70-130 | 5.85 | 20 |
| 1,2,4-Trimethylbenzene | 59 | | 5 | ug/kg | 50.0 | | 117 | 70-130 | 4.70 | 20 |
| Vinyl Chloride | 52 | | 5 | ug/kg | 50.0 | | 103 | 50-150 | 7.49 | 30 |
| o-Xylene | 54 | | 5 | ug/kg | 50.0 | | 108 | 70-130 | 7.01 | 20 |
| m&p-Xylene | 106 | | 10 | ug/kg | 100 | | 106 | 70-130 | 5.46 | 20 |
| 1,1,2,2-Tetrachloroethane | 52 | | 5 | ug/kg | 50.0 | | 103 | 70-130 | 4.98 | 20 |
| tert-Amyl methyl ether | 58 | | 5 | ug/kg | 50.0 | | 115 | 70-130 | 8.13 | 20 |
| 1,3-Dichloropropane | 57 | | 5 | ug/kg | 50.0 | | 113 | 70-130 | 9.98 | 20 |
| Ethyl tert-butyl ether | 57 | | 5 | ug/kg | 50.0 | | 114 | 70-130 | 6.88 | 20 |
| Trichlorofluoromethane | 62 | | 5 | ug/kg | 50.0 | | 124 | 50-150 | 2.85 | 20 |
| Dichlorodifluoromethane | 62 | | 5 | ug/kg | 50.0 | | 125 | 50-150 | 6.69 | 30 |
| *Surrogate: 4-Bromofluorobenzene* | | | *51.8* | ug/kg | *50.0* | | *104* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | | | *52.4* | ug/kg | *50.0* | | *105* | *70-130* | | |
| *Surrogate: Toluene-d8* | | | *51.2* | ug/kg | *50.0* | | *102* | *70-130* | | |
| ***Batch: B3F0345 - EPA 5035*** | | | | | | | | | | |
| **Blank (B3F0345-BLK1)** | | | | | Prepared & Analyzed: 06/07/23 | | | | | |
| Acetone | ND | | 73 | ug/kg | | | | | | |
| Benzene | ND | | 5 | ug/kg | | | | | | |
| Bromobenzene | ND | | 5 | ug/kg | | | | | | |
| Bromochloromethane | ND | | 5 | ug/kg | | | | | | |
| Bromodichloromethane | ND | | 5 | ug/kg | | | | | | |
| Bromoform | ND | | 5 | ug/kg | | | | | | |
| Bromomethane | ND | | 5 | ug/kg | | | | | | |
| 2-Butanone | ND | | 14 | ug/kg | | | | | | |
| tert-Butyl alcohol | ND | | 5 | ug/kg | | | | | | |
| sec-Butylbenzene | ND | | 5 | ug/kg | | | | | | |
| n-Butylbenzene | ND | | 5 | ug/kg | | | | | | |
| tert-Butylbenzene | ND | | 5 | ug/kg | | | | | | |
| Methyl t-butyl ether (MTBE) | ND | | 5 | ug/kg | | | | | | |
| Carbon Disulfide | ND | | 5 | ug/kg | | | | | | |
| Carbon Tetrachloride | ND | | 5 | ug/kg | | | | | | |
| Chlorobenzene | ND | | 5 | ug/kg | | | | | | |
| Chloroethane | ND | | 5 | ug/kg | | | | | | |
| Chloroform | ND | | 5 | ug/kg | | | | | | |
| Chloromethane | ND | | 5 | ug/kg | | | | | | |
| 4-Chlorotoluene | ND | | 5 | ug/kg | | | | | | |
| 2-Chlorotoluene | ND | | 5 | ug/kg | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | | 5 | ug/kg | | | | | | |
| Dibromochloromethane | ND | | 5 | ug/kg | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | | 5 | ug/kg | | | | | | |
| Dibromomethane | ND | | 5 | ug/kg | | | | | | |
| 1,2-Dichlorobenzene | ND | | 5 | ug/kg | | | | | | |
| 1,3-Dichlorobenzene | ND | | 5 | ug/kg | | | | | | |
| 1,4-Dichlorobenzene | ND | | 5 | ug/kg | | | | | | |
| 1,1-Dichloroethane | ND | | 5 | ug/kg | | | | | | |
| 1,2-Dichloroethane | ND | | 5 | ug/kg | | | | | | |
| trans-1,2-Dichloroethene | ND | | 5 | ug/kg | | | | | | |
| cis-1,2-Dichloroethene | ND | | 5 | ug/kg | | | | | | |
| 1,1-Dichloroethene | ND | | 5 | ug/kg | | | | | | |
| 1,2-Dichloropropane | ND | | 5 | ug/kg | | | | | | |
| 2,2-Dichloropropane | ND | | 5 | ug/kg | | | | | | |
| cis-1,3-Dichloropropene | ND | | 5 | ug/kg | | | | | | |
| trans-1,3-Dichloropropene | ND | | 5 | ug/kg | | | | | | |

## Volatile Organic Compounds (Continued)

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0345 - EPA 5035 (Continued)*** | | | | | | | | | | |
| **Blank (B3F0345-BLK1)** | | | | | Prepared & Analyzed: 06/07/23 | | | | | |
| 1,1-Dichloropropene | ND | | 5 | ug/kg | | | | | | |
| 1,3-Dichloropropene (cis + trans) | ND | | 5 | ug/kg | | | | | | |
| Diethyl ether | ND | | 5 | ug/kg | | | | | | |
| 1,4-Dioxane | ND | | 100 | ug/kg | | | | | | |
| Ethylbenzene | ND | | 5 | ug/kg | | | | | | |
| Hexachlorobutadiene | ND | | 5 | ug/kg | | | | | | |
| 2-Hexanone | ND | | 20 | ug/kg | | | | | | |
| Isopropylbenzene | ND | | 5 | ug/kg | | | | | | |
| p-Isopropyltoluene | ND | | 5 | ug/kg | | | | | | |
| Methylene Chloride | ND | | 5 | ug/kg | | | | | | |
| 4-Methyl-2-pentanone | ND | | 5 | ug/kg | | | | | | |
| Naphthalene | ND | | 5 | ug/kg | | | | | | |
| n-Propylbenzene | ND | | 5 | ug/kg | | | | | | |
| Styrene | ND | | 5 | ug/kg | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | | 5 | ug/kg | | | | | | |
| Tetrachloroethene | ND | | 5 | ug/kg | | | | | | |
| Tetrahydrofuran | ND | | 5 | ug/kg | | | | | | |
| Toluene | ND | | 5 | ug/kg | | | | | | |
| 1,2,4-Trichlorobenzene | ND | | 5 | ug/kg | | | | | | |
| 1,2,3-Trichlorobenzene | ND | | 5 | ug/kg | | | | | | |
| 1,1,2-Trichloroethane | ND | | 5 | ug/kg | | | | | | |
| 1,1,1-Trichloroethane | ND | | 5 | ug/kg | | | | | | |
| Trichloroethene | ND | | 5 | ug/kg | | | | | | |
| 1,2,3-Trichloropropane | ND | | 5 | ug/kg | | | | | | |
| 1,3,5-Trimethylbenzene | ND | | 5 | ug/kg | | | | | | |
| 1,2,4-Trimethylbenzene | ND | | 5 | ug/kg | | | | | | |
| Vinyl Chloride | ND | | 5 | ug/kg | | | | | | |
| o-Xylene | ND | | 5 | ug/kg | | | | | | |
| m&p-Xylene | ND | | 10 | ug/kg | | | | | | |
| Total xylenes | ND | | 5 | ug/kg | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | | 5 | ug/kg | | | | | | |
| tert-Amyl methyl ether | ND | | 5 | ug/kg | | | | | | |
| 1,3-Dichloropropane | ND | | 5 | ug/kg | | | | | | |
| Ethyl tert-butyl ether | ND | | 5 | ug/kg | | | | | | |
| Diisopropyl ether | ND | | 5 | ug/kg | | | | | | |
| Trichlorofluoromethane | ND | | 5 | ug/kg | | | | | | |
| Dichlorodifluoromethane | ND | | 5 | ug/kg | | | | | | |
| *Surrogate: 4-Bromofluorobenzene* | | | *50.4* | ug/kg | *50.0* | | *101* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | | | *44.4* | ug/kg | *50.0* | | *88.7* | *70-130* | | |
| *Surrogate: Toluene-d8* | | | *52.5* | ug/kg | *50.0* | | *105* | *70-130* | | |

## Volatile Organic Compounds (Continued)

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0345 - EPA 5035 (Continued)*** | | | | | | | | | | |
| **LCS (B3F0345-BS1)** | | | | | Prepared & Analyzed: 06/07/23 | | | | | |
| Acetone | 70 | | 20 | ug/kg | 50.0 | | 140 | 50-150 | | |
| Benzene | 49 | | 5 | ug/kg | 50.0 | | 97.1 | 70-130 | | |
| Bromobenzene | 54 | | 5 | ug/kg | 50.0 | | 108 | 70-130 | | |
| Bromochloromethane | 53 | | 5 | ug/kg | 50.0 | | 105 | 70-130 | | |
| Bromodichloromethane | 59 | | 5 | ug/kg | 50.0 | | 118 | 70-130 | | |
| Bromoform | 58 | | 5 | ug/kg | 50.0 | | 117 | 70-130 | | |
| Bromomethane | 57 | | 5 | ug/kg | 50.0 | | 113 | 50-150 | | |
| 2-Butanone | 56 | | 20 | ug/kg | 50.0 | | 113 | 50-150 | | |
| tert-Butyl alcohol | 64 | | 5 | ug/kg | 50.0 | | 129 | 70-130 | | |
| sec-Butylbenzene | 52 | | 5 | ug/kg | 50.0 | | 104 | 70-130 | | |
| n-Butylbenzene | 49 | | 5 | ug/kg | 50.0 | | 98.8 | 70-130 | | |
| tert-Butylbenzene | 53 | | 5 | ug/kg | 50.0 | | 105 | 70-130 | | |
| Methyl t-butyl ether (MTBE) | 53 | | 5 | ug/kg | 50.0 | | 105 | 70-130 | | |
| Carbon Disulfide | 52 | | 5 | ug/kg | 50.0 | | 104 | 50-150 | | |
| Carbon Tetrachloride | 65 | | 5 | ug/kg | 50.0 | | 130 | 70-130 | | |
| Chlorobenzene | 45 | | 5 | ug/kg | 50.0 | | 90.6 | 70-130 | | |
| Chloroethane | 50 | | 5 | ug/kg | 50.0 | | 99.3 | 50-150 | | |
| Chloroform | 58 | | 5 | ug/kg | 50.0 | | 116 | 70-130 | | |
| Chloromethane | 40 | | 5 | ug/kg | 50.0 | | 80.5 | 50-150 | | |
| 4-Chlorotoluene | 51 | | 5 | ug/kg | 50.0 | | 102 | 70-130 | | |
| 2-Chlorotoluene | 51 | | 5 | ug/kg | 50.0 | | 102 | 70-130 | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 51 | | 5 | ug/kg | 50.0 | | 102 | 70-130 | | |
| Dibromochloromethane | 62 | | 5 | ug/kg | 50.0 | | 125 | 70-130 | | |
| 1,2-Dibromoethane (EDB) | 54 | | 5 | ug/kg | 50.0 | | 108 | 70-130 | | |
| Dibromomethane | 54 | | 5 | ug/kg | 50.0 | | 108 | 60-140 | | |
| 1,2-Dichlorobenzene | 47 | | 5 | ug/kg | 50.0 | | 93.4 | 70-130 | | |
| 1,3-Dichlorobenzene | 51 | | 5 | ug/kg | 50.0 | | 102 | 70-130 | | |
| 1,4-Dichlorobenzene | 47 | | 5 | ug/kg | 50.0 | | 94.5 | 70-130 | | |
| 1,1-Dichloroethane | 50 | | 5 | ug/kg | 50.0 | | 99.2 | 70-130 | | |
| 1,2-Dichloroethane | 62 | | 5 | ug/kg | 50.0 | | 124 | 70-130 | | |
| trans-1,2-Dichloroethene | 51 | | 5 | ug/kg | 50.0 | | 101 | 70-130 | | |
| cis-1,2-Dichloroethene | 50 | | 5 | ug/kg | 50.0 | | 99.1 | 70-130 | | |
| 1,1-Dichloroethene | 60 | | 5 | ug/kg | 50.0 | | 119 | 70-130 | | |
| 1,2-Dichloropropane | 45 | | 5 | ug/kg | 50.0 | | 90.9 | 70-130 | | |
| 2,2-Dichloropropane | 62 | | 5 | ug/kg | 50.0 | | 125 | 70-130 | | |
| cis-1,3-Dichloropropene | 52 | | 5 | ug/kg | 50.0 | | 104 | 70-130 | | |
| trans-1,3-Dichloropropene | 59 | | 5 | ug/kg | 50.0 | | 117 | 70-130 | | |
| 1,1-Dichloropropene | 51 | | 5 | ug/kg | 50.0 | | 102 | 70-130 | | |
| Diethyl ether | 58 | | 5 | ug/kg | 50.0 | | 117 | 60-140 | | |
| 1,4-Dioxane | 208 | | 100 | ug/kg | 250 | | 83.3 | 0-200 | | |
| Ethylbenzene | 50 | | 5 | ug/kg | 50.0 | | 99.2 | 70-130 | | |
| Hexachlorobutadiene | 56 | | 5 | ug/kg | 50.0 | | 113 | 70-130 | | |
| 2-Hexanone | 52 | | 20 | ug/kg | 50.0 | | 104 | 50-150 | | |
| Isopropylbenzene | 52 | | 5 | ug/kg | 50.0 | | 104 | 70-130 | | |
| p-Isopropyltoluene | 56 | | 5 | ug/kg | 50.0 | | 111 | 70-130 | | |
| Methylene Chloride | 49 | | 5 | ug/kg | 50.0 | | 98.7 | 60-140 | | |
| 4-Methyl-2-pentanone | 45 | | 5 | ug/kg | 50.0 | | 90.7 | 50-150 | | |
| Naphthalene | 46 | | 5 | ug/kg | 50.0 | | 92.2 | 70-130 | | |
| n-Propylbenzene | 51 | | 5 | ug/kg | 50.0 | | 102 | 70-130 | | |
| Styrene | 49 | | 5 | ug/kg | 50.0 | | 98.8 | 70-130 | | |
| 1,1,1,2-Tetrachloroethane | 54 | | 5 | ug/kg | 50.0 | | 108 | 70-130 | | |
| Tetrachloroethene | 59 | | 5 | ug/kg | 50.0 | | 118 | 70-130 | | |
| Tetrahydrofuran | 44 | | 5 | ug/kg | 50.0 | | 87.9 | 50-150 | | |
| Toluene | 51 | | 5 | ug/kg | 50.0 | | 102 | 70-130 | | |
| 1,2,4-Trichlorobenzene | 52 | | 5 | ug/kg | 50.0 | | 103 | 70-130 | | |
| 1,2,3-Trichlorobenzene | 50 | | 5 | ug/kg | 50.0 | | 99.7 | 70-130 | | |
| 1,1,2-Trichloroethane | 51 | | 5 | ug/kg | 50.0 | | 101 | 70-130 | | |

### Volatile Organic Compounds (Continued)

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0345 - EPA 5035 (Continued)*** | | | | | | | | | | |
| **LCS (B3F0345-BS1)** | | | | | Prepared & Analyzed: 06/07/23 | | | | | |
| 1,1,1-Trichloroethane | 64 | | 5 | ug/kg | 50.0 | | 128 | 70-130 | | |
| Trichloroethene | 53 | | 5 | ug/kg | 50.0 | | 107 | 70-130 | | |
| 1,2,3-Trichloropropane | 46 | | 5 | ug/kg | 50.0 | | 92.2 | 70-130 | | |
| 1,3,5-Trimethylbenzene | 55 | | 5 | ug/kg | 50.0 | | 111 | 70-130 | | |
| 1,2,4-Trimethylbenzene | 55 | | 5 | ug/kg | 50.0 | | 109 | 70-130 | | |
| Vinyl Chloride | 42 | | 5 | ug/kg | 50.0 | | 84.1 | 50-150 | | |
| o-Xylene | 48 | | 5 | ug/kg | 50.0 | | 96.9 | 70-130 | | |
| m&p-Xylene | 97 | | 10 | ug/kg | 100 | | 96.7 | 70-130 | | |
| 1,1,2,2-Tetrachloroethane | 46 | | 5 | ug/kg | 50.0 | | 92.6 | 70-130 | | |
| tert-Amyl methyl ether | 52 | | 5 | ug/kg | 50.0 | | 103 | 70-130 | | |
| 1,3-Dichloropropane | 52 | | 5 | ug/kg | 50.0 | | 104 | 70-130 | | |
| Ethyl tert-butyl ether | 51 | | 5 | ug/kg | 50.0 | | 103 | 70-130 | | |
| Trichlorofluoromethane | 56 | | 5 | ug/kg | 50.0 | | 113 | 50-150 | | |
| Dichlorodifluoromethane | 52 | | 5 | ug/kg | 50.0 | | 103 | 50-150 | | |
| *Surrogate: 4-Bromofluorobenzene* | | | *54.0* | ug/kg | *50.0* | | *108* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | | | *51.8* | ug/kg | *50.0* | | *104* | *70-130* | | |
| *Surrogate: Toluene-d8* | | | *53.1* | ug/kg | *50.0* | | *106* | *70-130* | | |
| **LCS Dup (B3F0345-BSD1)** | | | | | Prepared & Analyzed: 06/07/23 | | | | | |
| Acetone | 65 | | 20 | ug/kg | 50.0 | | 130 | 50-150 | 7.44 | 30 |
| Benzene | 52 | | 5 | ug/kg | 50.0 | | 103 | 70-130 | 6.04 | 20 |
| Bromobenzene | 57 | | 5 | ug/kg | 50.0 | | 115 | 70-130 | 5.95 | 20 |
| Bromochloromethane | 55 | | 5 | ug/kg | 50.0 | | 111 | 70-130 | 5.04 | 20 |
| Bromodichloromethane | 63 | | 5 | ug/kg | 50.0 | | 126 | 70-130 | 7.00 | 20 |
| Bromoform | 60 | | 5 | ug/kg | 50.0 | | 121 | 70-130 | 3.30 | 20 |
| Bromomethane | 58 | | 5 | ug/kg | 50.0 | | 116 | 50-150 | 2.39 | 30 |
| 2-Butanone | 47 | | 20 | ug/kg | 50.0 | | 93.6 | 50-150 | 18.4 | 30 |
| tert-Butyl alcohol | 73 | | 5 | ug/kg | 50.0 | | 146 | 70-130 | 12.7 | 20 |
| sec-Butylbenzene | 56 | | 5 | ug/kg | 50.0 | | 112 | 70-130 | 7.60 | 20 |
| n-Butylbenzene | 55 | | 5 | ug/kg | 50.0 | | 110 | 70-130 | 11.1 | 20 |
| tert-Butylbenzene | 56 | | 5 | ug/kg | 50.0 | | 113 | 70-130 | 7.26 | 20 |
| Methyl t-butyl ether (MTBE) | 55 | | 5 | ug/kg | 50.0 | | 111 | 70-130 | 5.08 | 20 |
| Carbon Disulfide | 58 | | 5 | ug/kg | 50.0 | | 115 | 50-150 | 10.4 | 40 |
| Carbon Tetrachloride | 70 | | 5 | ug/kg | 50.0 | | 140 | 70-130 | 7.58 | 20 |
| Chlorobenzene | 49 | | 5 | ug/kg | 50.0 | | 97.4 | 70-130 | 7.21 | 20 |
| Chloroethane | 55 | | 5 | ug/kg | 50.0 | | 109 | 50-150 | 9.72 | 30 |
| Chloroform | 62 | | 5 | ug/kg | 50.0 | | 123 | 70-130 | 6.01 | 20 |
| Chloromethane | 45 | | 5 | ug/kg | 50.0 | | 90.4 | 50-150 | 11.6 | 30 |
| 4-Chlorotoluene | 55 | | 5 | ug/kg | 50.0 | | 109 | 70-130 | 6.99 | 20 |
| 2-Chlorotoluene | 54 | | 5 | ug/kg | 50.0 | | 109 | 70-130 | 7.01 | 20 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 52 | | 5 | ug/kg | 50.0 | | 105 | 70-130 | 2.38 | 20 |
| Dibromochloromethane | 65 | | 5 | ug/kg | 50.0 | | 129 | 70-130 | 3.59 | 20 |
| 1,2-Dibromoethane (EDB) | 56 | | 5 | ug/kg | 50.0 | | 113 | 70-130 | 4.14 | 20 |
| Dibromomethane | 57 | | 5 | ug/kg | 50.0 | | 115 | 60-140 | 5.74 | 30 |
| 1,2-Dichlorobenzene | 51 | | 5 | ug/kg | 50.0 | | 102 | 70-130 | 8.45 | 20 |
| 1,3-Dichlorobenzene | 55 | | 5 | ug/kg | 50.0 | | 110 | 70-130 | 7.20 | 20 |
| 1,4-Dichlorobenzene | 52 | | 5 | ug/kg | 50.0 | | 103 | 70-130 | 8.84 | 20 |
| 1,1-Dichloroethane | 54 | | 5 | ug/kg | 50.0 | | 108 | 70-130 | 8.16 | 20 |
| 1,2-Dichloroethane | 65 | | 5 | ug/kg | 50.0 | | 129 | 70-130 | 4.22 | 20 |
| trans-1,2-Dichloroethene | 57 | | 5 | ug/kg | 50.0 | | 113 | 70-130 | 11.2 | 20 |
| cis-1,2-Dichloroethene | 55 | | 5 | ug/kg | 50.0 | | 110 | 70-130 | 9.99 | 20 |
| 1,1-Dichloroethene | 65 | | 5 | ug/kg | 50.0 | | 130 | 70-130 | 8.26 | 20 |
| 1,2-Dichloropropane | 50 | | 5 | ug/kg | 50.0 | | 99.0 | 70-130 | 8.53 | 20 |
| 2,2-Dichloropropane | 65 | | 5 | ug/kg | 50.0 | | 129 | 70-130 | 3.49 | 20 |
| cis-1,3-Dichloropropene | 56 | | 5 | ug/kg | 50.0 | | 113 | 70-130 | 7.63 | 20 |
| trans-1,3-Dichloropropene | 61 | | 5 | ug/kg | 50.0 | | 122 | 70-130 | 4.08 | 20 |
| 1,1-Dichloropropene | 55 | | 5 | ug/kg | 50.0 | | 111 | 70-130 | 8.10 | 20 |

## Quality Control
**(Continued)**

### Volatile Organic Compounds (Continued)

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0345 - EPA 5035 (Continued)*** | | | | | | | | | | |
| **LCS Dup (B3F0345-BSD1)** | | | | | Prepared & Analyzed: 06/07/23 | | | | | |
| Diethyl ether | 61 | | 5 | ug/kg | 50.0 | | 122 | 60-140 | 4.49 | 30 |
| 1,4-Dioxane | 230 | | 100 | ug/kg | 250 | | 91.9 | 0-200 | 9.78 | 50 |
| Ethylbenzene | 54 | | 5 | ug/kg | 50.0 | | 109 | 70-130 | 8.97 | 20 |
| Hexachlorobutadiene | 64 | | 5 | ug/kg | 50.0 | | 129 | 70-130 | 13.3 | 20 |
| 2-Hexanone | 52 | | 20 | ug/kg | 50.0 | | 104 | 50-150 | 0.134 | 20 |
| Isopropylbenzene | 57 | | 5 | ug/kg | 50.0 | | 114 | 70-130 | 9.43 | 20 |
| p-Isopropyltoluene | 60 | | 5 | ug/kg | 50.0 | | 120 | 70-130 | 7.43 | 20 |
| Methylene Chloride | 58 | | 5 | ug/kg | 50.0 | | 115 | 60-140 | 15.3 | 30 |
| 4-Methyl-2-pentanone | 45 | | 5 | ug/kg | 50.0 | | 90.3 | 50-150 | 0.508 | 20 |
| Naphthalene | 50 | | 5 | ug/kg | 50.0 | | 100 | 70-130 | 8.32 | 20 |
| n-Propylbenzene | 56 | | 5 | ug/kg | 50.0 | | 112 | 70-130 | 9.05 | 20 |
| Styrene | 54 | | 5 | ug/kg | 50.0 | | 108 | 70-130 | 8.60 | 20 |
| 1,1,1,2-Tetrachloroethane | 58 | | 5 | ug/kg | 50.0 | | 115 | 70-130 | 6.87 | 20 |
| Tetrachloroethene | 63 | | 5 | ug/kg | 50.0 | | 127 | 70-130 | 7.09 | 20 |
| Tetrahydrofuran | 43 | | 5 | ug/kg | 50.0 | | 87.0 | 50-150 | 1.08 | 40 |
| Toluene | 56 | | 5 | ug/kg | 50.0 | | 112 | 70-130 | 9.55 | 20 |
| 1,2,4-Trichlorobenzene | 57 | | 5 | ug/kg | 50.0 | | 113 | 70-130 | 9.52 | 20 |
| 1,2,3-Trichlorobenzene | 56 | | 5 | ug/kg | 50.0 | | 112 | 70-130 | 11.8 | 20 |
| 1,1,2-Trichloroethane | 54 | | 5 | ug/kg | 50.0 | | 107 | 70-130 | 5.37 | 20 |
| 1,1,1-Trichloroethane | 69 | | 5 | ug/kg | 50.0 | | 137 | 70-130 | 7.19 | 20 |
| Trichloroethene | 57 | | 5 | ug/kg | 50.0 | | 114 | 70-130 | 6.85 | 20 |
| 1,2,3-Trichloropropane | 46 | | 5 | ug/kg | 50.0 | | 92.4 | 70-130 | 0.260 | 20 |
| 1,3,5-Trimethylbenzene | 58 | | 5 | ug/kg | 50.0 | | 117 | 70-130 | 5.47 | 20 |
| 1,2,4-Trimethylbenzene | 59 | | 5 | ug/kg | 50.0 | | 117 | 70-130 | 6.86 | 20 |
| Vinyl Chloride | 47 | | 5 | ug/kg | 50.0 | | 94.3 | 50-150 | 11.5 | 30 |
| o-Xylene | 52 | | 5 | ug/kg | 50.0 | | 104 | 70-130 | 7.09 | 20 |
| m&p-Xylene | 105 | | 10 | ug/kg | 100 | | 105 | 70-130 | 7.79 | 20 |
| 1,1,2,2-Tetrachloroethane | 48 | | 5 | ug/kg | 50.0 | | 96.4 | 70-130 | 4.11 | 20 |
| tert-Amyl methyl ether | 54 | | 5 | ug/kg | 50.0 | | 107 | 70-130 | 3.44 | 20 |
| 1,3-Dichloropropane | 54 | | 5 | ug/kg | 50.0 | | 108 | 70-130 | 4.47 | 20 |
| Ethyl tert-butyl ether | 54 | | 5 | ug/kg | 50.0 | | 108 | 70-130 | 5.37 | 20 |
| Trichlorofluoromethane | 60 | | 5 | ug/kg | 50.0 | | 120 | 50-150 | 6.42 | 20 |
| Dichlorodifluoromethane | 55 | | 5 | ug/kg | 50.0 | | 110 | 50-150 | 6.65 | 30 |
| *Surrogate: 4-Bromofluorobenzene* | | | *53.5* | ug/kg | *50.0* | | *107* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | | | *51.4* | ug/kg | *50.0* | | *103* | *70-130* | | |
| *Surrogate: Toluene-d8* | | | *52.8* | ug/kg | *50.0* | | *106* | *70-130* | | |

## Volatile Organic Compounds (Continued)

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0393 - Purge-Trap*** | | | | | | | | | | |
| **Blank (B3F0393-BLK1)** | | | | | Prepared & Analyzed: 06/08/23 | | | | | |
| Acetone | ND | | 5 | ug/kg | | | | | | |
| Benzene | ND | | 1 | ug/kg | | | | | | |
| Bromobenzene | ND | | 1 | ug/kg | | | | | | |
| Bromochloromethane | ND | | 1 | ug/kg | | | | | | |
| Bromodichloromethane | ND | | 1 | ug/kg | | | | | | |
| Bromoform | ND | | 1 | ug/kg | | | | | | |
| Bromomethane | ND | | 1 | ug/kg | | | | | | |
| 2-Butanone | ND | | 5 | ug/kg | | | | | | |
| tert-Butyl alcohol | ND | | 5 | ug/kg | | | | | | |
| sec-Butylbenzene | ND | | 1 | ug/kg | | | | | | |
| n-Butylbenzene | ND | | 1 | ug/kg | | | | | | |
| tert-Butylbenzene | ND | | 1 | ug/kg | | | | | | |
| Methyl t-butyl ether (MTBE) | ND | | 1 | ug/kg | | | | | | |
| Carbon Disulfide | ND | | 1 | ug/kg | | | | | | |
| Carbon Tetrachloride | ND | | 1 | ug/kg | | | | | | |
| Chlorobenzene | ND | | 1 | ug/kg | | | | | | |
| Chloroethane | ND | | 1 | ug/kg | | | | | | |
| Chloroform | ND | | 1 | ug/kg | | | | | | |
| Chloromethane | ND | | 1 | ug/kg | | | | | | |
| 4-Chlorotoluene | ND | | 1 | ug/kg | | | | | | |
| 2-Chlorotoluene | ND | | 1 | ug/kg | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | | 1 | ug/kg | | | | | | |
| Dibromochloromethane | ND | | 1 | ug/kg | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | | 1 | ug/kg | | | | | | |
| Dibromomethane | ND | | 1 | ug/kg | | | | | | |
| 1,2-Dichlorobenzene | ND | | 1 | ug/kg | | | | | | |
| 1,3-Dichlorobenzene | ND | | 1 | ug/kg | | | | | | |
| 1,4-Dichlorobenzene | ND | | 1 | ug/kg | | | | | | |
| 1,1-Dichloroethane | ND | | 1 | ug/kg | | | | | | |
| 1,2-Dichloroethane | ND | | 1 | ug/kg | | | | | | |
| trans-1,2-Dichloroethene | ND | | 1 | ug/kg | | | | | | |
| cis-1,2-Dichloroethene | ND | | 1 | ug/kg | | | | | | |
| 1,1-Dichloroethene | ND | | 1 | ug/kg | | | | | | |
| 1,2-Dichloropropane | ND | | 1 | ug/kg | | | | | | |
| 2,2-Dichloropropane | ND | | 1 | ug/kg | | | | | | |
| cis-1,3-Dichloropropene | ND | | 1 | ug/kg | | | | | | |
| trans-1,3-Dichloropropene | ND | | 1 | ug/kg | | | | | | |
| 1,1-Dichloropropene | ND | | 1 | ug/kg | | | | | | |
| 1,3-Dichloropropene (cis + trans) | ND | | 2 | ug/kg | | | | | | |
| Diethyl ether | ND | | 5 | ug/kg | | | | | | |
| 1,4-Dioxane | ND | | 100 | ug/kg | | | | | | |
| Ethylbenzene | ND | | 1 | ug/kg | | | | | | |
| Hexachlorobutadiene | ND | | 1 | ug/kg | | | | | | |
| 2-Hexanone | ND | | 5 | ug/kg | | | | | | |
| Isopropylbenzene | ND | | 1 | ug/kg | | | | | | |
| p-Isopropyltoluene | ND | | 1 | ug/kg | | | | | | |
| Methylene Chloride | ND | | 2 | ug/kg | | | | | | |
| 4-Methyl-2-pentanone | ND | | 5 | ug/kg | | | | | | |
| Naphthalene | ND | | 1 | ug/kg | | | | | | |
| n-Propylbenzene | ND | | 1 | ug/kg | | | | | | |
| Styrene | ND | | 1 | ug/kg | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | | 1 | ug/kg | | | | | | |
| Tetrachloroethene | ND | | 1 | ug/kg | | | | | | |
| Tetrahydrofuran | ND | | 5 | ug/kg | | | | | | |
| Toluene | ND | | 1 | ug/kg | | | | | | |
| 1,2,4-Trichlorobenzene | ND | | 1 | ug/kg | | | | | | |
| 1,2,3-Trichlorobenzene | ND | | 1 | ug/kg | | | | | | |

### Volatile Organic Compounds (Continued)

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0393 - Purge-Trap (Continued)*** | | | | | | | | | | |
| **Blank (B3F0393-BLK1)** | | | | | Prepared & Analyzed: 06/08/23 | | | | | |
| 1,1,2-Trichloroethane | ND | | 1 | ug/kg | | | | | | |
| 1,1,1-Trichloroethane | ND | | 1 | ug/kg | | | | | | |
| Trichloroethene | ND | | 1 | ug/kg | | | | | | |
| 1,2,3-Trichloropropane | ND | | 1 | ug/kg | | | | | | |
| 1,3,5-Trimethylbenzene | ND | | 1 | ug/kg | | | | | | |
| 1,2,4-Trimethylbenzene | ND | | 1 | ug/kg | | | | | | |
| Vinyl Chloride | ND | | 1 | ug/kg | | | | | | |
| o-Xylene | ND | | 1 | ug/kg | | | | | | |
| m&p-Xylene | ND | | 2 | ug/kg | | | | | | |
| Total xylenes | ND | | 1 | ug/kg | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | | 1 | ug/kg | | | | | | |
| tert-Amyl methyl ether | ND | | 1 | ug/kg | | | | | | |
| 1,3-Dichloropropane | ND | | 1 | ug/kg | | | | | | |
| Ethyl tert-butyl ether | ND | | 1 | ug/kg | | | | | | |
| Diisopropyl ether | ND | | 1 | ug/kg | | | | | | |
| Trichlorofluoromethane | ND | | 1 | ug/kg | | | | | | |
| Dichlorodifluoromethane | ND | | 1 | ug/kg | | | | | | |
| *Surrogate: 4-Bromofluorobenzene* | | | *47.2* | ug/l | *50.0* | | *94.4* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | | | *50.2* | ug/l | *50.0* | | *100* | *70-130* | | |
| *Surrogate: Toluene-d8* | | | *50.3* | ug/l | *50.0* | | *101* | *70-130* | | |
| **LCS (B3F0393-BS1)** | | | | | Prepared & Analyzed: 06/08/23 | | | | | |
| Acetone | 19 | | 5 | ug/kg | 50.0 | | 38.4 | 50-150 | | |
| Benzene | 53 | | 1 | ug/kg | 50.0 | | 107 | 70-130 | | |
| Bromobenzene | 55 | | 1 | ug/kg | 50.0 | | 110 | 70-130 | | |
| Bromochloromethane | 58 | | 1 | ug/kg | 50.0 | | 116 | 70-130 | | |
| Bromodichloromethane | 58 | | 1 | ug/kg | 50.0 | | 116 | 70-130 | | |
| Bromoform | 50 | | 1 | ug/kg | 50.0 | | 100 | 70-130 | | |
| Bromomethane | 53 | | 1 | ug/kg | 50.0 | | 107 | 50-150 | | |
| 2-Butanone | 25 | | 5 | ug/kg | 50.0 | | 49.5 | 50-150 | | |
| tert-Butyl alcohol | 12 | | 5 | ug/kg | 50.0 | | 24.0 | 70-130 | | |
| sec-Butylbenzene | 49 | | 1 | ug/kg | 50.0 | | 97.3 | 70-130 | | |
| n-Butylbenzene | 50 | | 1 | ug/kg | 50.0 | | 101 | 70-130 | | |
| tert-Butylbenzene | 50 | | 1 | ug/kg | 50.0 | | 99.4 | 70-130 | | |
| Methyl t-butyl ether (MTBE) | 52 | | 1 | ug/kg | 50.0 | | 103 | 70-130 | | |
| Carbon Disulfide | 54 | | 1 | ug/kg | 50.0 | | 108 | 70-130 | | |
| Carbon Tetrachloride | 57 | | 1 | ug/kg | 50.0 | | 113 | 70-130 | | |
| Chlorobenzene | 49 | | 1 | ug/kg | 50.0 | | 98.0 | 70-130 | | |
| Chloroethane | 51 | | 1 | ug/kg | 50.0 | | 101 | 50-150 | | |
| Chloroform | 55 | | 1 | ug/kg | 50.0 | | 109 | 70-130 | | |
| Chloromethane | 46 | | 1 | ug/kg | 50.0 | | 91.7 | 50-150 | | |
| 4-Chlorotoluene | 50 | | 1 | ug/kg | 50.0 | | 101 | 70-130 | | |
| 2-Chlorotoluene | 48 | | 1 | ug/kg | 50.0 | | 96.9 | 70-130 | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 37 | | 1 | ug/kg | 50.0 | | 73.8 | 70-130 | | |
| Dibromochloromethane | 59 | | 1 | ug/kg | 50.0 | | 117 | 70-130 | | |
| 1,2-Dibromoethane (EDB) | 54 | | 1 | ug/kg | 50.0 | | 107 | 70-130 | | |
| Dibromomethane | 55 | | 1 | ug/kg | 50.0 | | 110 | 70-130 | | |
| 1,2-Dichlorobenzene | 52 | | 1 | ug/kg | 50.0 | | 104 | 70-130 | | |
| 1,3-Dichlorobenzene | 51 | | 1 | ug/kg | 50.0 | | 103 | 70-130 | | |
| 1,4-Dichlorobenzene | 51 | | 1 | ug/kg | 50.0 | | 101 | 70-130 | | |
| 1,1-Dichloroethane | 54 | | 1 | ug/kg | 50.0 | | 107 | 70-130 | | |
| 1,2-Dichloroethane | 53 | | 1 | ug/kg | 50.0 | | 105 | 70-130 | | |
| trans-1,2-Dichloroethene | 56 | | 1 | ug/kg | 50.0 | | 113 | 70-130 | | |
| cis-1,2-Dichloroethene | 56 | | 1 | ug/kg | 50.0 | | 112 | 70-130 | | |
| 1,1-Dichloroethene | 60 | | 1 | ug/kg | 50.0 | | 120 | 70-130 | | |
| 1,2-Dichloropropane | 54 | | 1 | ug/kg | 50.0 | | 109 | 70-130 | | |
| 2,2-Dichloropropane | 58 | | 1 | ug/kg | 50.0 | | 116 | 70-130 | | |

## Volatile Organic Compounds (Continued)

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0393 - Purge-Trap (Continued)*** | | | | | | | | | | |
| **LCS (B3F0393-BS1)** | | | | | Prepared & Analyzed: 06/08/23 | | | | | |
| cis-1,3-Dichloropropene | 57 | | 1 | ug/kg | 50.0 | | 113 | 70-130 | | |
| trans-1,3-Dichloropropene | 59 | | 1 | ug/kg | 50.0 | | 118 | 70-130 | | |
| 1,1-Dichloropropene | 52 | | 1 | ug/kg | 50.0 | | 103 | 70-130 | | |
| Diethyl ether | 56 | | 5 | ug/kg | 50.0 | | 112 | 70-130 | | |
| 1,4-Dioxane | 273 | | 100 | ug/kg | 250 | | 109 | 0-200 | | |
| Ethylbenzene | 52 | | 1 | ug/kg | 50.0 | | 104 | 70-130 | | |
| Hexachlorobutadiene | 57 | | 1 | ug/kg | 50.0 | | 114 | 70-130 | | |
| 2-Hexanone | 29 | | 5 | ug/kg | 50.0 | | 57.1 | 50-150 | | |
| Isopropylbenzene | 52 | | 1 | ug/kg | 50.0 | | 104 | 70-130 | | |
| p-Isopropyltoluene | 52 | | 1 | ug/kg | 50.0 | | 104 | 70-130 | | |
| Methylene Chloride | 56 | | 2 | ug/kg | 50.0 | | 113 | 60-140 | | |
| 4-Methyl-2-pentanone | 37 | | 5 | ug/kg | 50.0 | | 75.0 | 50-150 | | |
| Naphthalene | 41 | | 1 | ug/kg | 50.0 | | 81.7 | 70-130 | | |
| n-Propylbenzene | 50 | | 1 | ug/kg | 50.0 | | 99.7 | 70-130 | | |
| Styrene | 55 | | 1 | ug/kg | 50.0 | | 110 | 70-130 | | |
| 1,1,1,2-Tetrachloroethane | 56 | | 1 | ug/kg | 50.0 | | 111 | 70-130 | | |
| Tetrachloroethene | 61 | | 1 | ug/kg | 50.0 | | 122 | 70-130 | | |
| Tetrahydrofuran | 32 | | 5 | ug/kg | 50.0 | | 63.4 | 70-130 | | |
| Toluene | 56 | | 1 | ug/kg | 50.0 | | 112 | 70-130 | | |
| 1,2,4-Trichlorobenzene | 53 | | 1 | ug/kg | 50.0 | | 107 | 70-130 | | |
| 1,2,3-Trichlorobenzene | 46 | | 1 | ug/kg | 50.0 | | 92.1 | 70-130 | | |
| 1,1,2-Trichloroethane | 49 | | 1 | ug/kg | 50.0 | | 97.5 | 70-130 | | |
| 1,1,1-Trichloroethane | 56 | | 1 | ug/kg | 50.0 | | 113 | 70-130 | | |
| Trichloroethene | 54 | | 1 | ug/kg | 50.0 | | 107 | 70-130 | | |
| 1,2,3-Trichloropropane | 41 | | 1 | ug/kg | 50.0 | | 83.0 | 70-130 | | |
| 1,3,5-Trimethylbenzene | 53 | | 1 | ug/kg | 50.0 | | 106 | 70-130 | | |
| 1,2,4-Trimethylbenzene | 52 | | 1 | ug/kg | 50.0 | | 105 | 70-130 | | |
| Vinyl Chloride | 45 | | 1 | ug/kg | 50.0 | | 90.3 | 50-150 | | |
| o-Xylene | 52 | | 1 | ug/kg | 50.0 | | 105 | 70-130 | | |
| m&p-Xylene | 103 | | 2 | ug/kg | 100 | | 103 | 70-130 | | |
| 1,1,2,2-Tetrachloroethane | 45 | | 1 | ug/kg | 50.0 | | 89.3 | 70-130 | | |
| tert-Amyl methyl ether | 52 | | 1 | ug/kg | 50.0 | | 104 | 70-130 | | |
| 1,3-Dichloropropane | 54 | | 1 | ug/kg | 50.0 | | 109 | 70-130 | | |
| Ethyl tert-butyl ether | 54 | | 1 | ug/kg | 50.0 | | 108 | 70-130 | | |
| Diisopropyl ether | 51 | | 1 | ug/kg | 50.0 | | 101 | 70-130 | | |
| Trichlorofluoromethane | 43 | | 1 | ug/kg | 50.0 | | 86.1 | 50-150 | | |
| Dichlorodifluoromethane | 40 | | 1 | ug/kg | 50.0 | | 79.6 | 50-150 | | |
| *Surrogate: 4-Bromofluorobenzene* | | | *48.4* | ug/l | *50.0* | | *96.7* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | | | *50.5* | ug/l | *50.0* | | *101* | *70-130* | | |
| *Surrogate: Toluene-d8* | | | *51.6* | ug/l | *50.0* | | *103* | *70-130* | | |

## Volatile Organic Compounds (Continued)

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0393 - Purge-Trap (Continued)*** | | | | | | | | | | |
| **LCS Dup (B3F0393-BSD1)** | | | | | Prepared & Analyzed: 06/08/23 | | | | | |
| Acetone | 20 | | 5 | ug/kg | 50.0 | | 39.8 | 50-150 | 3.63 | 30 |
| Benzene | 53 | | 1 | ug/kg | 50.0 | | 105 | 70-130 | 1.55 | 30 |
| Bromobenzene | 55 | | 1 | ug/kg | 50.0 | | 110 | 70-130 | 0.437 | 30 |
| Bromochloromethane | 59 | | 1 | ug/kg | 50.0 | | 117 | 70-130 | 0.788 | 30 |
| Bromodichloromethane | 58 | | 1 | ug/kg | 50.0 | | 115 | 70-130 | 0.796 | 30 |
| Bromoform | 50 | | 1 | ug/kg | 50.0 | | 99.6 | 70-130 | 0.421 | 30 |
| Bromomethane | 59 | | 1 | ug/kg | 50.0 | | 119 | 50-150 | 10.7 | 30 |
| 2-Butanone | 27 | | 5 | ug/kg | 50.0 | | 53.7 | 50-150 | 8.17 | 30 |
| tert-Butyl alcohol | 18 | | 5 | ug/kg | 50.0 | | 36.5 | 70-130 | 41.3 | 30 |
| sec-Butylbenzene | 50 | | 1 | ug/kg | 50.0 | | 99.3 | 70-130 | 2.08 | 30 |
| n-Butylbenzene | 50 | | 1 | ug/kg | 50.0 | | 101 | 70-130 | 0.119 | 30 |
| tert-Butylbenzene | 50 | | 1 | ug/kg | 50.0 | | 101 | 70-130 | 1.44 | 30 |
| Methyl t-butyl ether (MTBE) | 52 | | 1 | ug/kg | 50.0 | | 104 | 70-130 | 1.35 | 30 |
| Carbon Disulfide | 53 | | 1 | ug/kg | 50.0 | | 107 | 70-130 | 0.672 | 30 |
| Carbon Tetrachloride | 56 | | 1 | ug/kg | 50.0 | | 113 | 70-130 | 0.496 | 30 |
| Chlorobenzene | 50 | | 1 | ug/kg | 50.0 | | 99.7 | 70-130 | 1.70 | 30 |
| Chloroethane | 52 | | 1 | ug/kg | 50.0 | | 103 | 50-150 | 2.19 | 30 |
| Chloroform | 55 | | 1 | ug/kg | 50.0 | | 110 | 70-130 | 0.837 | 30 |
| Chloromethane | 47 | | 1 | ug/kg | 50.0 | | 93.1 | 50-150 | 1.45 | 30 |
| 4-Chlorotoluene | 51 | | 1 | ug/kg | 50.0 | | 102 | 70-130 | 1.26 | 30 |
| 2-Chlorotoluene | 50 | | 1 | ug/kg | 50.0 | | 99.0 | 70-130 | 2.16 | 30 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 39 | | 1 | ug/kg | 50.0 | | 77.2 | 70-130 | 4.53 | 30 |
| Dibromochloromethane | 56 | | 1 | ug/kg | 50.0 | | 113 | 70-130 | 4.00 | 30 |
| 1,2-Dibromoethane (EDB) | 53 | | 1 | ug/kg | 50.0 | | 106 | 70-130 | 0.898 | 30 |
| Dibromomethane | 54 | | 1 | ug/kg | 50.0 | | 107 | 70-130 | 2.59 | 30 |
| 1,2-Dichlorobenzene | 53 | | 1 | ug/kg | 50.0 | | 105 | 70-130 | 1.47 | 30 |
| 1,3-Dichlorobenzene | 52 | | 1 | ug/kg | 50.0 | | 104 | 70-130 | 1.03 | 30 |
| 1,4-Dichlorobenzene | 50 | | 1 | ug/kg | 50.0 | | 100 | 70-130 | 0.954 | 30 |
| 1,1-Dichloroethane | 54 | | 1 | ug/kg | 50.0 | | 108 | 70-130 | 1.02 | 30 |
| 1,2-Dichloroethane | 52 | | 1 | ug/kg | 50.0 | | 104 | 70-130 | 1.07 | 30 |
| trans-1,2-Dichloroethene | 57 | | 1 | ug/kg | 50.0 | | 114 | 70-130 | 1.13 | 30 |
| cis-1,2-Dichloroethene | 57 | | 1 | ug/kg | 50.0 | | 114 | 70-130 | 2.05 | 30 |
| 1,1-Dichloroethene | 60 | | 1 | ug/kg | 50.0 | | 121 | 70-130 | 0.416 | 30 |
| 1,2-Dichloropropane | 53 | | 1 | ug/kg | 50.0 | | 107 | 70-130 | 1.58 | 30 |
| 2,2-Dichloropropane | 57 | | 1 | ug/kg | 50.0 | | 114 | 70-130 | 1.46 | 30 |
| cis-1,3-Dichloropropene | 56 | | 1 | ug/kg | 50.0 | | 113 | 70-130 | 0.408 | 30 |
| trans-1,3-Dichloropropene | 58 | | 1 | ug/kg | 50.0 | | 115 | 70-130 | 1.94 | 30 |
| 1,1-Dichloropropene | 52 | | 1 | ug/kg | 50.0 | | 103 | 70-130 | 0.407 | 30 |
| Diethyl ether | 53 | | 5 | ug/kg | 50.0 | | 106 | 70-130 | 6.03 | 30 |
| 1,4-Dioxane | 269 | | 100 | ug/kg | 250 | | 107 | 0-200 | 1.51 | 40 |
| Ethylbenzene | 53 | | 1 | ug/kg | 50.0 | | 105 | 70-130 | 0.878 | 30 |
| Hexachlorobutadiene | 56 | | 1 | ug/kg | 50.0 | | 112 | 70-130 | 2.08 | 30 |
| 2-Hexanone | 31 | | 5 | ug/kg | 50.0 | | 61.2 | 50-150 | 7.00 | 30 |
| Isopropylbenzene | 53 | | 1 | ug/kg | 50.0 | | 106 | 70-130 | 1.99 | 30 |
| p-Isopropyltoluene | 52 | | 1 | ug/kg | 50.0 | | 105 | 70-130 | 1.05 | 30 |
| Methylene Chloride | 55 | | 2 | ug/kg | 50.0 | | 110 | 60-140 | 1.90 | 30 |
| 4-Methyl-2-pentanone | 39 | | 5 | ug/kg | 50.0 | | 78.2 | 50-150 | 4.26 | 30 |
| Naphthalene | 45 | | 1 | ug/kg | 50.0 | | 89.5 | 70-130 | 9.02 | 30 |
| n-Propylbenzene | 50 | | 1 | ug/kg | 50.0 | | 101 | 70-130 | 1.26 | 30 |
| Styrene | 55 | | 1 | ug/kg | 50.0 | | 111 | 70-130 | 0.925 | 30 |
| 1,1,1,2-Tetrachloroethane | 55 | | 1 | ug/kg | 50.0 | | 110 | 70-130 | 0.759 | 30 |
| Tetrachloroethene | 61 | | 1 | ug/kg | 50.0 | | 121 | 70-130 | 0.346 | 30 |
| Tetrahydrofuran | 35 | | 5 | ug/kg | 50.0 | | 70.7 | 70-130 | 10.9 | 30 |
| Toluene | 54 | | 1 | ug/kg | 50.0 | | 109 | 70-130 | 2.45 | 30 |
| 1,2,4-Trichlorobenzene | 55 | | 1 | ug/kg | 50.0 | | 110 | 70-130 | 3.37 | 30 |
| 1,2,3-Trichlorobenzene | 52 | | 1 | ug/kg | 50.0 | | 103 | 70-130 | 11.2 | 30 |
| 1,1,2-Trichloroethane | 53 | | 1 | ug/kg | 50.0 | | 107 | 70-130 | 9.18 | 30 |

## Quality Control
**(Continued)**

### Volatile Organic Compounds (Continued)

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0393 - Purge-Trap (Continued)*** | | | | | | | | | | |
| **LCS Dup (B3F0393-BSD1)** | | | | | Prepared & Analyzed: 06/08/23 | | | | | |
| 1,1,1-Trichloroethane | 56 | | 1 | ug/kg | 50.0 | | 111 | 70-130 | 1.63 | 30 |
| Trichloroethene | 53 | | 1 | ug/kg | 50.0 | | 106 | 70-130 | 1.62 | 30 |
| 1,2,3-Trichloropropane | 41 | | 1 | ug/kg | 50.0 | | 82.7 | 70-130 | 0.314 | 30 |
| 1,3,5-Trimethylbenzene | 53 | | 1 | ug/kg | 50.0 | | 106 | 70-130 | 0.284 | 30 |
| 1,2,4-Trimethylbenzene | 54 | | 1 | ug/kg | 50.0 | | 107 | 70-130 | 2.66 | 30 |
| Vinyl Chloride | 45 | | 1 | ug/kg | 50.0 | | 91.0 | 50-150 | 0.795 | 30 |
| o-Xylene | 53 | | 1 | ug/kg | 50.0 | | 106 | 70-130 | 0.664 | 30 |
| m&p-Xylene | 105 | | 2 | ug/kg | 100 | | 105 | 70-130 | 1.59 | 30 |
| 1,1,2,2-Tetrachloroethane | 46 | | 1 | ug/kg | 50.0 | | 92.7 | 70-130 | 3.78 | 30 |
| tert-Amyl methyl ether | 53 | | 1 | ug/kg | 50.0 | | 105 | 70-130 | 0.745 | 30 |
| 1,3-Dichloropropane | 54 | | 1 | ug/kg | 50.0 | | 108 | 70-130 | 0.663 | 30 |
| Ethyl tert-butyl ether | 53 | | 1 | ug/kg | 50.0 | | 107 | 70-130 | 0.727 | 30 |
| Diisopropyl ether | 50 | | 1 | ug/kg | 50.0 | | 101 | 70-130 | 0.0198 | 30 |
| Trichlorofluoromethane | 42 | | 1 | ug/kg | 50.0 | | 83.9 | 50-150 | 2.59 | 30 |
| Dichlorodifluoromethane | 39 | | 1 | ug/kg | 50.0 | | 78.4 | 50-150 | 1.59 | 30 |
| *Surrogate: 4-Bromofluorobenzene* | | | *48.6* | ug/l | *50.0* | | *97.2* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | | | *50.8* | ug/l | *50.0* | | *102* | *70-130* | | |
| *Surrogate: Toluene-d8* | | | *51.4* | ug/l | *50.0* | | *103* | *70-130* | | |

## Quality Control
**(Continued)**

### Polychlorinated Biphenyls (PCBs)

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0452 - 1_Semivolatiles Extractions*** | | | | | | | | | | |
| **Blank (B3F0452-BLK1)** | | | | | Prepared: 06/09/23 Analyzed: 06/12/23 | | | | | |
| Aroclor-1016 | ND | | 66 | ug/kg | | | | | | |
| Aroclor-1221 | ND | | 66 | ug/kg | | | | | | |
| Aroclor-1232 | ND | | 66 | ug/kg | | | | | | |
| Aroclor-1242 | ND | | 66 | ug/kg | | | | | | |
| Aroclor-1248 | ND | | 66 | ug/kg | | | | | | |
| Aroclor-1254 | ND | | 66 | ug/kg | | | | | | |
| Aroclor-1260 | ND | | 66 | ug/kg | | | | | | |
| Aroclor-1262 | ND | | 66 | ug/kg | | | | | | |
| Aroclor-1268 | ND | | 66 | ug/kg | | | | | | |
| PCBs (Total) | ND | | 66 | ug/kg | | | | | | |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene (TCMX )* | | | *15.2* | ug/kg | *13.3* | | *114* | *36.2-130* | | |
| *Surrogate: Decachlorobiphenyl (DCBP)* | | | *11.8* | ug/kg | *13.3* | | *88.9* | *43.3-130* | | |
| **LCS (B3F0452-BS1)** | | | | | Prepared: 06/09/23 Analyzed: 06/12/23 | | | | | |
| Aroclor-1016 | 198 | | 66 | ug/kg | 167 | | 119 | 58.2-125 | | |
| Aroclor-1260 | 186 | | 66 | ug/kg | 167 | | 112 | 65.5-130 | | |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene (TCMX )* | | | *15.5* | ug/kg | *13.3* | | *116* | *36.2-130* | | |
| *Surrogate: Decachlorobiphenyl (DCBP)* | | | *12.2* | ug/kg | *13.3* | | *91.6* | *43.3-130* | | |
| **LCS Dup (B3F0452-BSD1)** | | | | | Prepared: 06/09/23 Analyzed: 06/12/23 | | | | | |
| Aroclor-1016 | 183 | | 66 | ug/kg | 167 | | 110 | 58.2-125 | 8.12 | 20 |
| Aroclor-1260 | 217 | | 66 | ug/kg | 167 | | 130 | 65.5-130 | 15.3 | 20 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene (TCMX )* | | | *16.6* | ug/kg | *13.3* | | *124* | *36.2-130* | | |
| *Surrogate: Decachlorobiphenyl (DCBP)* | | | *14.3* | ug/kg | *13.3* | | *107* | *43.3-130* | | |

### Extractable Petroleum Hydrocarbons (MADEP-EPH)

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0226 - 1_Semivolatiles Extractions*** | | | | | | | | | | |
| **Blank (B3F0226-BLK1)** | | | | | Prepared: 06/06/23 Analyzed: 06/08/23 | | | | | |
| Unadjusted C11-C22 Aromatic Hydrocarbons | ND | | 6.67 | mg/kg | | | | | | |
| Naphthalene | ND | | 0.33 | mg/kg | | | | | | |
| 2-Methylnaphthalene | ND | | 0.33 | mg/kg | | | | | | |
| Phenanthrene | ND | | 0.33 | mg/kg | | | | | | |
| Acenaphthene | ND | | 0.33 | mg/kg | | | | | | |
| Acenaphthylene | ND | | 0.33 | mg/kg | | | | | | |
| Fluorene | ND | | 0.33 | mg/kg | | | | | | |
| Anthracene | ND | | 0.33 | mg/kg | | | | | | |
| Fluoranthene | ND | | 0.33 | mg/kg | | | | | | |
| Pyrene | ND | | 0.33 | mg/kg | | | | | | |
| Benzo(a)anthracene | ND | | 0.33 | mg/kg | | | | | | |
| Chrysene | ND | | 0.33 | mg/kg | | | | | | |
| Benzo(b)fluoranthene | ND | | 0.33 | mg/kg | | | | | | |
| Benzo(k)fluoranthene | ND | | 0.33 | mg/kg | | | | | | |
| Benzo(a)pyrene | ND | | 0.33 | mg/kg | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | | 0.33 | mg/kg | | | | | | |
| Dibenz(a,h)anthracene | ND | | 0.33 | mg/kg | | | | | | |
| Benzo(g,h,i)perylene | ND | | 0.33 | mg/kg | | | | | | |
| C9-C18 Aliphatic Hydrocarbons | ND | | 13.3 | mg/kg | | | | | | |
| C19-C36 Aliphatic Hydrocarbons | ND | | 13.3 | mg/kg | | | | | | |
| C11-C22 Aromatic Hydrocarbons | ND | | 6.67 | mg/kg | | | | | | |
| *Surrogate: Chlorooctadecane* | | | *3.48* | mg/kg | *8.33* | | *41.7* | *40-140* | | |
| *Surrogate: o-Terphenyl* | | | *3.91* | mg/kg | *8.33* | | *46.9* | *40-140* | | |
| *Surrogate: 2-Fluorobiphenyl* | | | *3.33* | mg/kg | *3.33* | | *100* | *40-140* | | |
| *Surrogate: 2-Bromonaphthalene* | | | *3.19* | mg/kg | *3.33* | | *95.8* | *40-140* | | |
| **LCS (B3F0226-BS1)** | | | | | Prepared: 06/06/23 Analyzed: 06/09/23 | | | | | |
| Naphthalene | 1.52 | | 0.33 | mg/kg | 2.67 | | 57.0 | 40-140 | | |
| 2-Methylnaphthalene | 1.38 | | 0.33 | mg/kg | 2.67 | | 51.9 | 40-140 | | |
| Phenanthrene | 1.31 | | 0.33 | mg/kg | 2.67 | | 49.1 | 40-140 | | |
| Acenaphthene | 1.67 | | 0.33 | mg/kg | 2.67 | | 62.5 | 40-140 | | |
| Acenaphthylene | 1.45 | | 0.33 | mg/kg | 2.67 | | 54.4 | 40-140 | | |
| Fluorene | 1.45 | | 0.33 | mg/kg | 2.67 | | 54.3 | 40-140 | | |
| Anthracene | 1.61 | | 0.33 | mg/kg | 2.67 | | 60.4 | 40-140 | | |
| Fluoranthene | 1.71 | | 0.33 | mg/kg | 2.67 | | 64.2 | 40-140 | | |
| Pyrene | 1.73 | | 0.33 | mg/kg | 2.67 | | 65.0 | 40-140 | | |
| Benzo(a)anthracene | 1.41 | | 0.33 | mg/kg | 2.67 | | 52.8 | 40-140 | | |
| Chrysene | 2.06 | | 0.33 | mg/kg | 2.67 | | 77.4 | 40-140 | | |
| Benzo(b)fluoranthene | 1.42 | | 0.33 | mg/kg | 2.67 | | 53.3 | 40-140 | | |
| Benzo(k)fluoranthene | 2.16 | | 0.33 | mg/kg | 2.67 | | 81.0 | 40-140 | | |
| Benzo(a)pyrene | 1.73 | | 0.33 | mg/kg | 2.67 | | 65.0 | 40-140 | | |
| Indeno(1,2,3-cd)pyrene | 1.29 | | 0.33 | mg/kg | 2.67 | | 48.5 | 40-140 | | |
| Dibenz(a,h)anthracene | 2.30 | | 0.33 | mg/kg | 2.67 | | 86.3 | 40-140 | | |
| Benzo(g,h,i)perylene | 1.83 | | 0.33 | mg/kg | 2.67 | | 68.7 | 40-140 | | |
| EPH_LCS_Aliphatic_C19-C36 | 13.6 | | 0.00 | mg/kg | 21.3 | | 63.7 | 40-140 | | |
| EPH_LCS_Aliphatic_C9-C18 | 8.01 | | 0.00 | mg/kg | 16.0 | | 50.1 | 40-140 | | |
| EPH_LCS_Aromatic_C11-C22 | 28.0 | | 0.00 | mg/kg | 45.3 | | 61.9 | 40-140 | | |
| Nonane | 0.97 | | 0.33 | mg/kg | 2.67 | | 36.5 | 30-140 | | |
| Decane | 1.23 | | 0.33 | mg/kg | 2.67 | | 46.1 | 40-140 | | |
| Dodecane | 1.44 | | 0.33 | mg/kg | 2.67 | | 54.1 | 40-140 | | |
| Tetradecane | 1.36 | | 0.33 | mg/kg | 2.67 | | 50.9 | 40-140 | | |
| Hexadecane | 1.43 | | 0.33 | mg/kg | 2.67 | | 53.4 | 40-140 | | |
| Octadecane | 1.58 | | 0.33 | mg/kg | 2.67 | | 59.2 | 40-140 | | |
| Nonadecane | 1.67 | | 0.33 | mg/kg | 2.67 | | 62.5 | 40-140 | | |
| Eicosane | 1.73 | | 0.33 | mg/kg | 2.67 | | 64.7 | 40-140 | | |
| Docosane | 1.81 | | 0.33 | mg/kg | 2.67 | | 67.7 | 40-140 | | |
| Tetracosane | 1.82 | | 0.33 | mg/kg | 2.67 | | 68.4 | 40-140 | | |

### Extractable Petroleum Hydrocarbons (MADEP-EPH) (Continued)

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0226 - 1_Semivolatiles Extractions (Continued)*** | | | | | | | | | | |
| **LCS (B3F0226-BS1)** | | | | | Prepared: 06/06/23 Analyzed: 06/09/23 | | | | | |
| Hexacosane | 1.81 | | 0.33 | mg/kg | 2.67 | | 67.7 | 40-140 | | |
| Octacosane | 1.74 | | 0.33 | mg/kg | 2.67 | | 65.2 | 40-140 | | |
| Triacontane | 1.64 | | 0.33 | mg/kg | 2.67 | | 61.4 | 40-140 | | |
| Hexatriacontane | 1.38 | | 0.33 | mg/kg | 2.67 | | 51.8 | 40-140 | | |
| *Surrogate: Chlorooctadecane* | | | *5.05* | mg/kg | *8.33* | | *60.6* | *40-140* | | |
| *Surrogate: o-Terphenyl* | | | *5.57* | mg/kg | *8.33* | | *66.8* | *40-140* | | |
| *Surrogate: 2-Fluorobiphenyl* | | | *3.43* | mg/kg | *3.33* | | *103* | *40-140* | | |
| *Surrogate: 2-Bromonaphthalene* | | | *3.11* | mg/kg | *3.33* | | *93.3* | *40-140* | | |
| **LCS Dup (B3F0226-BSD1)** | | | | | Prepared: 06/06/23 Analyzed: 06/09/23 | | | | | |
| Naphthalene | 1.49 | | 0.33 | mg/kg | 2.67 | | 55.8 | 40-140 | 1.95 | 25 |
| 2-Methylnaphthalene | 1.38 | | 0.33 | mg/kg | 2.67 | | 51.7 | 40-140 | 0.483 | 25 |
| Phenanthrene | 1.30 | | 0.33 | mg/kg | 2.67 | | 48.8 | 40-140 | 0.664 | 25 |
| Acenaphthene | 1.67 | | 0.33 | mg/kg | 2.67 | | 62.5 | 40-140 | 0.00 | 25 |
| Acenaphthylene | 1.43 | | 0.33 | mg/kg | 2.67 | | 53.8 | 40-140 | 1.11 | 25 |
| Fluorene | 1.44 | | 0.33 | mg/kg | 2.67 | | 54.0 | 40-140 | 0.508 | 25 |
| Anthracene | 1.74 | | 0.33 | mg/kg | 2.67 | | 65.1 | 40-140 | 7.53 | 25 |
| Fluoranthene | 1.67 | | 0.33 | mg/kg | 2.67 | | 62.8 | 40-140 | 2.24 | 25 |
| Pyrene | 1.71 | | 0.33 | mg/kg | 2.67 | | 64.2 | 40-140 | 1.28 | 25 |
| Benzo(a)anthracene | 1.39 | | 0.33 | mg/kg | 2.67 | | 52.0 | 40-140 | 1.48 | 25 |
| Chrysene | 2.03 | | 0.33 | mg/kg | 2.67 | | 76.2 | 40-140 | 1.53 | 25 |
| Benzo(b)fluoranthene | 1.40 | | 0.33 | mg/kg | 2.67 | | 52.6 | 40-140 | 1.23 | 25 |
| Benzo(k)fluoranthene | 2.12 | | 0.33 | mg/kg | 2.67 | | 79.4 | 40-140 | 2.03 | 25 |
| Benzo(a)pyrene | 1.69 | | 0.33 | mg/kg | 2.67 | | 63.4 | 40-140 | 2.49 | 25 |
| Indeno(1,2,3-cd)pyrene | 1.30 | | 0.33 | mg/kg | 2.67 | | 48.6 | 40-140 | 0.155 | 25 |
| Dibenz(a,h)anthracene | 2.25 | | 0.33 | mg/kg | 2.67 | | 84.3 | 40-140 | 2.37 | 25 |
| Benzo(g,h,i)perylene | 1.79 | | 0.33 | mg/kg | 2.67 | | 67.2 | 40-140 | 2.28 | 25 |
| EPH_LCS_Aliphatic_C19-C36 | 13.0 | | 0.00 | mg/kg | 21.3 | | 60.9 | 40-140 | 4.48 | 25 |
| EPH_LCS_Aliphatic_C9-C18 | 7.25 | | 0.00 | mg/kg | 16.0 | | 45.3 | 40-140 | 9.93 | 25 |
| EPH_LCS_Aromatic_C11-C22 | 27.8 | | 0.00 | mg/kg | 45.3 | | 61.3 | 40-140 | 0.898 | 25 |
| Nonane | 0.89 | | 0.33 | mg/kg | 2.67 | | 33.6 | 30-140 | 8.42 | 25 |
| Decane | 1.11 | | 0.33 | mg/kg | 2.67 | | 41.7 | 40-140 | 10.1 | 25 |
| Dodecane | 1.28 | | 0.33 | mg/kg | 2.67 | | 48.0 | 40-140 | 11.9 | 25 |
| Tetradecane | 1.22 | | 0.33 | mg/kg | 2.67 | | 45.7 | 40-140 | 10.8 | 25 |
| Hexadecane | 1.30 | | 0.33 | mg/kg | 2.67 | | 48.6 | 40-140 | 9.56 | 25 |
| Octadecane | 1.45 | | 0.33 | mg/kg | 2.67 | | 54.4 | 40-140 | 8.54 | 25 |
| Nonadecane | 1.54 | | 0.33 | mg/kg | 2.67 | | 57.9 | 40-140 | 7.64 | 25 |
| Eicosane | 1.62 | | 0.33 | mg/kg | 2.67 | | 60.6 | 40-140 | 6.62 | 25 |
| Docosane | 1.72 | | 0.33 | mg/kg | 2.67 | | 64.5 | 40-140 | 4.84 | 25 |
| Tetracosane | 1.76 | | 0.33 | mg/kg | 2.67 | | 65.8 | 40-140 | 3.73 | 25 |
| Hexacosane | 1.74 | | 0.33 | mg/kg | 2.67 | | 65.4 | 40-140 | 3.49 | 25 |
| Octacosane | 1.69 | | 0.33 | mg/kg | 2.67 | | 63.3 | 40-140 | 2.84 | 25 |
| Triacontane | 1.60 | | 0.33 | mg/kg | 2.67 | | 59.9 | 40-140 | 2.47 | 25 |
| Hexatriacontane | 1.32 | | 0.33 | mg/kg | 2.67 | | 49.6 | 40-140 | 4.34 | 25 |
| *Surrogate: Chlorooctadecane* | | | *4.69* | mg/kg | *8.33* | | *56.3* | *40-140* | | |
| *Surrogate: o-Terphenyl* | | | *5.33* | mg/kg | *8.33* | | *64.0* | *40-140* | | |
| *Surrogate: 2-Fluorobiphenyl* | | | *3.56* | mg/kg | *3.33* | | *107* | *40-140* | | |
| *Surrogate: 2-Bromonaphthalene* | | | *3.26* | mg/kg | *3.33* | | *97.9* | *40-140* | | |

## Notes and Definitions

| Item | Definition |
|---|---|
| Wet | Sample results reported on a wet weight basis. |
| ND | Analyte NOT DETECTED at or above the reporting limit. |

**New England Testing Laboratory**
59 Greenhill Street
West Warwick, RI 02893
1-888-863-8522

3 F 0 5022

# Chain of Custody Record

| Project No. | Project Name/Location: |
|---|---|
| 23144 | 350 MARIANO BISHOP BLVD FALL RIVER |

Client: Geological Field Services Inc
14 Hubon St SALEM MA 01970

Report To: LUKE FABBRI LAFABBRI.GFS@hotmail.com

Invoice To: LUKE FABBRI

| Date | Time | Comp | Grab | Sample I.D. | Matrix: Aqueous | Matrix: Soil | Matrix: Other | No. of Containers | Preservative | Tests**: EPH | VOC 8260 Hgnf Low | MCP-14 Metals | Asbestos | PCB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6.2.2023 | 930 | X | | TP-1 | | X | | 5 | ICE Mack | X | X | X | X | X |
| | 1040 | | | TP-2 | | | | | | | | | | |
| | 1045 | | | GFS-2 | | | | | | | | | | |
| | 1135 | | | GFS-3 | | | | | | | | | | |
| | 1224 | | | GFS-4 | | | | | | | | | | |
| | 1400 | | | GFS-5 | | | | | | | | | | |
| | 1130 | | | TP-3 | | | | | | | | | | |
| | 1240 | | | TP-6 | | | | | | | | | | |
| ↓ | 1420 | ↓ | | TP-9 | | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |

| Sampled By: | Date/Time | Received By: | Date/Time | Laboratory Remarks: | Special Instructions: |
|---|---|---|---|---|---|
| | 6/5/23 0800 | Bill Wood | 6-5-23 1135 | | LL VOC IN FREEZER DRAWN Below |
| Relinquished By: | Date/Time | Received By: | Date/Time | Temp. Received: 4° | |
| Bill Wood | 6-5-23 1615 | Habat Reddy | 6-5-23 16:15 | | |

**Netlab Subcontracts the following tests: Radiologicals, Radon, TOC, Asbestos, UCMRs, Perchlorate, Bromate, Bromide, Sieve, Salmonella, Carbamates

Turnaround Time [Business Days]: **5 Days**

## MassDEP Analytical Protocol Certification Form

Laboratory Name: New England Testing Laboratory, Inc. Project #: 23144

Project Location: Fall River, MA RTN:

**This Form provides certifications for the following data set: list Laboratory Sample ID Number(s): 3F05022**

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

**CAM Protocol** (check all that apply below):

| | | | | | |
|---|---|---|---|---|---|
| 8260 VOC CAM II A ☒ | 7470/7471 Hg CAM III B ☒ | MassDEP VPH (GC/PID/FID) CAM IV A ☐ | 8082 PCB CAM V A ☒ | 9014 Total Cyanide/PAC CAM VI A ☐ | 6860 Perchlorate CAM VIII B ☐ |
| 8270 SVOC CAM II B ☐ | 7010 Metals CAM III C ☐ | MassDEP VPH (GC/MS) CAM IV C ☐ | 8081 Pesticides CAM V B ☐ | 7196 Hex Cr CAM VI B ☐ | MassDEP APH CAM IX A ☐ |
| 6010 Metals CAM III A ☒ | 6020 Metals CAM III D ☐ | MassDEP EPH CAM IV B ☒ | 8151 Herbicides CAM V C ☐ | 8330 Explosives CAM VIII A ☐ | TO-15 VOC CAM IX B ☐ |

***Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status***

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

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

| | | |
|---|---|---|
| **G** | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)? | ☒ Yes ☐ No[1] |

***Data User Note*: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

| | | |
|---|---|---|
| **H** | Were **all** QC performance standards specified in the CAM protocol(s) achieved? | ☒ Yes ☐ No[1] |
| **I** | Were results reported for the complete analyte list specified in the selected CAM protocol(s)? | ☒ Yes ☐ No[1] |

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

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

**Signature**: _____ **Position:** Laboratory Director

**Printed Name:** Richard Warila **Date**: 6/14/2023

New England Testing Laboratory, Inc.
(401) 353-3420

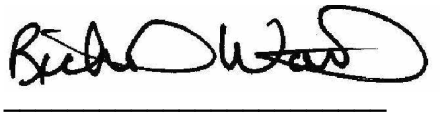
# REPORT OF ANALYTICAL RESULTS

## NETLAB Work Order Number: 3F06046
## Client Project: 23144 - 350 Mariano Bishop BLVD, Fall River

Report Date: 14-June-2023

Prepared for:

Luke Fabbri
Geological Field Services, Inc
14 Hubon Street
Salem, MA 01970



Richard Warila, Laboratory Director
New England Testing Laboratory, Inc.
59 Greenhill Street
West Warwick, RI 02893
rich.warila@newenglandtesting.com

## *Samples Submitted :*

The samples listed below were submitted to New England Testing Laboratory on 06/06/23. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provided to us by the client which are indicated on the custody record. The case number for this sample submission is 3F06046. Custody records are included in this report.

| Lab ID | Sample | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| 3F06046-01 | GFS-1 | Water | 06/05/2023 | 06/06/2023 |
| 3F06046-02 | GFS-2 | Water | 06/05/2023 | 06/06/2023 |
| 3F06046-03 | GFS-3 | Water | 06/05/2023 | 06/06/2023 |
| 3F06046-04 | GFS-4 | Water | 06/05/2023 | 06/06/2023 |
| 3F06046-05 | GFS-5 | Water | 06/05/2023 | 06/06/2023 |

# *Request for Analysis*

At the client's request, the analyses presented in the following table were performed on the samples submitted.

### GFS-1 (Lab Number: 3F06046-01)

| Analysis | Method |
|---|---|
| Dissolved Antimony | EPA 6010C |
| Dissolved Arsenic | EPA 6010C |
| Dissolved Barium | EPA 6010C |
| Dissolved Beryllium | EPA 6010C |
| Dissolved Cadmium | EPA 6010C |
| Dissolved Chromium | EPA 6010C |
| Dissolved Lead | EPA 6010C |
| Dissolved Mercury | EPA 7470A |
| Dissolved Nickel | EPA 6010C |
| Dissolved Selenium | EPA 6010C |
| Dissolved Silver | EPA 6010C |
| Dissolved Thallium | EPA 6010C |
| Dissolved Vanadium | EPA 6010C |
| Dissolved Zinc | EPA 6010C |
| MADEP EPH | MADEP EPH |
| Volatile Organic Compounds | EPA 8260C |

### GFS-2 (Lab Number: 3F06046-02)

| Analysis | Method |
|---|---|
| Dissolved Antimony | EPA 6010C |
| Dissolved Arsenic | EPA 6010C |
| Dissolved Barium | EPA 6010C |
| Dissolved Beryllium | EPA 6010C |
| Dissolved Cadmium | EPA 6010C |
| Dissolved Chromium | EPA 6010C |
| Dissolved Lead | EPA 6010C |
| Dissolved Mercury | EPA 7470A |
| Dissolved Nickel | EPA 6010C |
| Dissolved Selenium | EPA 6010C |
| Dissolved Silver | EPA 6010C |
| Dissolved Thallium | EPA 6010C |
| Dissolved Vanadium | EPA 6010C |
| Dissolved Zinc | EPA 6010C |
| MADEP EPH | MADEP EPH |
| Volatile Organic Compounds | EPA 8260C |

### GFS-3 (Lab Number: 3F06046-03)

| Analysis | Method |
|---|---|
| Dissolved Antimony | EPA 6010C |
| Dissolved Arsenic | EPA 6010C |
| Dissolved Barium | EPA 6010C |
| Dissolved Beryllium | EPA 6010C |
| Dissolved Cadmium | EPA 6010C |
| Dissolved Chromium | EPA 6010C |
| Dissolved Lead | EPA 6010C |
| Dissolved Mercury | EPA 7470A |
| Dissolved Nickel | EPA 6010C |
| Dissolved Selenium | EPA 6010C |
| Dissolved Silver | EPA 6010C |

## *Request for Analysis (continued)*

### GFS-3 (Lab Number: 3F06046-03) (continued)

| Analysis | Method |
|---|---|
| Dissolved Thallium | EPA 6010C |
| Dissolved Vanadium | EPA 6010C |
| Dissolved Zinc | EPA 6010C |
| MADEP EPH | MADEP EPH |
| Volatile Organic Compounds | EPA 8260C |

### GFS-4 (Lab Number: 3F06046-04)

| Analysis | Method |
|---|---|
| Dissolved Antimony | EPA 6010C |
| Dissolved Arsenic | EPA 6010C |
| Dissolved Barium | EPA 6010C |
| Dissolved Beryllium | EPA 6010C |
| Dissolved Cadmium | EPA 6010C |
| Dissolved Chromium | EPA 6010C |
| Dissolved Lead | EPA 6010C |
| Dissolved Mercury | EPA 7470A |
| Dissolved Nickel | EPA 6010C |
| Dissolved Selenium | EPA 6010C |
| Dissolved Silver | EPA 6010C |
| Dissolved Thallium | EPA 6010C |
| Dissolved Vanadium | EPA 6010C |
| Dissolved Zinc | EPA 6010C |
| MADEP EPH | MADEP EPH |
| Volatile Organic Compounds | EPA 8260C |

### GFS-5 (Lab Number: 3F06046-05)

| Analysis | Method |
|---|---|
| Dissolved Antimony | EPA 6010C |
| Dissolved Arsenic | EPA 6010C |
| Dissolved Barium | EPA 6010C |
| Dissolved Beryllium | EPA 6010C |
| Dissolved Cadmium | EPA 6010C |
| Dissolved Chromium | EPA 6010C |
| Dissolved Lead | EPA 6010C |
| Dissolved Mercury | EPA 7470A |
| Dissolved Nickel | EPA 6010C |
| Dissolved Selenium | EPA 6010C |
| Dissolved Silver | EPA 6010C |
| Dissolved Thallium | EPA 6010C |
| Dissolved Vanadium | EPA 6010C |
| Dissolved Zinc | EPA 6010C |
| MADEP EPH | MADEP EPH |
| Volatile Organic Compounds | EPA 8260C |

## *Method References*

*Method for the Determination of Extractable Petroleum Hydrocarbons, Rev. 2.1*, Massachusetts Department of Environmental Protection, 2004

*Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846*, USEPA

**Case Narrative**

## Sample Receipt:

The samples associated with this work order were received in appropriately cooled and preserved containers. The chain of custody was adequately completed and corresponded to the samples submitted.

Exceptions: None

## Analysis:

All samples were prepared and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control requirements and allowances. Results for all soil samples, unless otherwise indicated, are reported on a dry weight basis.

Exceptions: None

# Results: Dissolved Metals

## Sample: GFS-1

**Lab Number: 3F06046-01 (Water)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Antimony | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Arsenic | ND | | 0.010 | mg/L | 06/11/23 | 06/12/23 |
| **Barium** | **0.611** | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Beryllium | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Cadmium | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Chromium | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Lead | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Mercury | ND | | 0.0005 | mg/L | 06/07/23 | 06/07/23 |
| Nickel | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Selenium | ND | | 0.010 | mg/L | 06/11/23 | 06/12/23 |
| Silver | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| **Vanadium** | **0.009** | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Zinc | ND | | 0.020 | mg/L | 06/11/23 | 06/12/23 |
| Thallium | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |

# Results: Dissolved Metals

## Sample: GFS-2

**Lab Number: 3F06046-02 (Water)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Antimony | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Arsenic | ND | | 0.010 | mg/L | 06/11/23 | 06/12/23 |
| **Barium** | **0.820** | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Beryllium | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Cadmium | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Chromium | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Lead | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Mercury | ND | | 0.0005 | mg/L | 06/07/23 | 06/07/23 |
| Nickel | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Selenium | ND | | 0.010 | mg/L | 06/11/23 | 06/12/23 |
| Silver | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Vanadium | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Zinc | ND | | 0.020 | mg/L | 06/11/23 | 06/12/23 |
| Thallium | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |

# Results: Dissolved Metals

## Sample: GFS-3

**Lab Number: 3F06046-03 (Water)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Antimony | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Arsenic | ND | | 0.010 | mg/L | 06/11/23 | 06/12/23 |
| **Barium** | **0.422** | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Beryllium | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Cadmium | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Chromium | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Lead | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Mercury | ND | | 0.0005 | mg/L | 06/07/23 | 06/07/23 |
| Nickel | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Selenium | ND | | 0.010 | mg/L | 06/11/23 | 06/12/23 |
| Silver | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| **Vanadium** | **0.006** | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Zinc | ND | | 0.020 | mg/L | 06/11/23 | 06/12/23 |
| Thallium | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |

# Results: Dissolved Metals

## Sample: GFS-4

**Lab Number: 3F06046-04 (Water)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Antimony | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Arsenic | ND | | 0.010 | mg/L | 06/11/23 | 06/12/23 |
| **Barium** | **0.468** | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Beryllium | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Cadmium | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Chromium | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Lead | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Mercury | ND | | 0.0005 | mg/L | 06/07/23 | 06/07/23 |
| Nickel | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Selenium | ND | | 0.010 | mg/L | 06/11/23 | 06/12/23 |
| Silver | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Vanadium | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Zinc | ND | | 0.020 | mg/L | 06/11/23 | 06/12/23 |
| Thallium | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |

# Results: Dissolved Metals

## Sample: GFS-5

**Lab Number: 3F06046-05 (Water)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Antimony | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Arsenic | ND | | 0.010 | mg/L | 06/11/23 | 06/12/23 |
| **Barium** | **0.071** | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Beryllium | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Cadmium | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Chromium | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Lead | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Mercury | ND | | 0.0005 | mg/L | 06/07/23 | 06/07/23 |
| Nickel | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Selenium | ND | | 0.010 | mg/L | 06/11/23 | 06/12/23 |
| Silver | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Vanadium | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |
| Zinc | ND | | 0.020 | mg/L | 06/11/23 | 06/12/23 |
| Thallium | ND | | 0.005 | mg/L | 06/11/23 | 06/12/23 |

# Results: Volatile Organic Compounds

## Sample: GFS-1

**Lab Number: 3F06046-01 (Water)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Acetone | ND | | 32 | ug/l | 06/12/23 | 06/12/23 |
| **Benzene** | **9** | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Bromobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Bromochloromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Bromodichloromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Bromoform | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Bromomethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 2-Butanone | ND | | 12 | ug/l | 06/12/23 | 06/12/23 |
| tert-Butyl alcohol | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |
| sec-Butylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| n-Butylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| tert-Butylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Methyl t-butyl ether (MTBE) | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Carbon Disulfide | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Carbon Tetrachloride | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Chlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Chloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Chloroform | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Chloromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 4-Chlorotoluene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 2-Chlorotoluene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Dibromochloromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2-Dibromoethane (EDB) | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Dibromomethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2-Dichlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,3-Dichlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,4-Dichlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1-Dichloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2-Dichloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| trans-1,2-Dichloroethene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| cis-1,2-Dichloroethene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1-Dichloroethene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2-Dichloropropane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 2,2-Dichloropropane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| cis-1,3-Dichloropropene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| trans-1,3-Dichloropropene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1-Dichloropropene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,3-Dichloropropene (cis + trans) | ND | | 2 | ug/l | 06/12/23 | 06/12/23 |
| Diethyl ether | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |
| 1,4-Dioxane | ND | | 100 | ug/l | 06/12/23 | 06/12/23 |
| Ethylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Hexachlorobutadiene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 2-Hexanone | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |
| **Isopropylbenzene** | **2** | | 1 | ug/l | 06/12/23 | 06/12/23 |
| p-Isopropyltoluene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Methylene Chloride | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 4-Methyl-2-pentanone | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |

## Sample: GFS-1 (Continued)

**Lab Number: 3F06046-01 (Water)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| **Naphthalene** | **3** | | 1 | ug/l | 06/12/23 | 06/12/23 |
| n-Propylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Styrene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1,1,2-Tetrachloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Tetrachloroethene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Tetrahydrofuran | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |
| Toluene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2,4-Trichlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2,3-Trichlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1,2-Trichloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1,1-Trichloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Trichloroethene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2,3-Trichloropropane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,3,5-Trimethylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2,4-Trimethylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Vinyl Chloride | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| **o-Xylene** | **2** | | 1 | ug/l | 06/12/23 | 06/12/23 |
| **m&p-Xylene** | **3** | | 2 | ug/l | 06/12/23 | 06/12/23 |
| **Total xylenes** | **5** | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1,2,2-Tetrachloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| tert-Amyl methyl ether | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,3-Dichloropropane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Ethyl tert-butyl ether | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Diisopropyl ether | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Trichlorofluoromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Dichlorodifluoromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| tert-Amyl Alcohol | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |

| Surrogate(s) | Recovery% | Limits | | |
|---|---|---|---|---|
| *4-Bromofluorobenzene* | *100%* | *70-130* | 06/12/23 | 06/12/23 |
| *1,2-Dichloroethane-d4* | *105%* | *70-130* | 06/12/23 | 06/12/23 |
| *Toluene-d8* | *102%* | *70-130* | 06/12/23 | 06/12/23 |

# Results: Volatile Organic Compounds

## Sample: GFS-2

**Lab Number: 3F06046-02 (Water)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Acetone | ND | | 32 | ug/l | 06/12/23 | 06/12/23 |
| Benzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Bromobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Bromochloromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Bromodichloromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Bromoform | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Bromomethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 2-Butanone | ND | | 12 | ug/l | 06/12/23 | 06/12/23 |
| tert-Butyl alcohol | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |
| sec-Butylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| n-Butylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| tert-Butylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Methyl t-butyl ether (MTBE) | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Carbon Disulfide | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Carbon Tetrachloride | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Chlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Chloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Chloroform | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Chloromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 4-Chlorotoluene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 2-Chlorotoluene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Dibromochloromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2-Dibromoethane (EDB) | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Dibromomethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2-Dichlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,3-Dichlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,4-Dichlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1-Dichloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2-Dichloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| trans-1,2-Dichloroethene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| cis-1,2-Dichloroethene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1-Dichloroethene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2-Dichloropropane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 2,2-Dichloropropane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| cis-1,3-Dichloropropene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| trans-1,3-Dichloropropene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1-Dichloropropene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,3-Dichloropropene (cis + trans) | ND | | 2 | ug/l | 06/12/23 | 06/12/23 |
| Diethyl ether | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |
| 1,4-Dioxane | ND | | 100 | ug/l | 06/12/23 | 06/12/23 |
| Ethylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Hexachlorobutadiene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 2-Hexanone | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |
| **Isopropylbenzene** | **4** | | 1 | ug/l | 06/12/23 | 06/12/23 |
| p-Isopropyltoluene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Methylene Chloride | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 4-Methyl-2-pentanone | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |

## Sample: GFS-2 (Continued)

**Lab Number: 3F06046-02 (Water)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| **Naphthalene** | **1** | | 1 | ug/l | 06/12/23 | 06/12/23 |
| n-Propylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Styrene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1,1,2-Tetrachloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Tetrachloroethene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Tetrahydrofuran | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |
| Toluene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2,4-Trichlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2,3-Trichlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1,2-Trichloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1,1-Trichloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Trichloroethene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2,3-Trichloropropane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,3,5-Trimethylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2,4-Trimethylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Vinyl Chloride | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| **o-Xylene** | **3** | | 1 | ug/l | 06/12/23 | 06/12/23 |
| m&p-Xylene | ND | | 2 | ug/l | 06/12/23 | 06/12/23 |
| **Total xylenes** | **3** | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1,2,2-Tetrachloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| tert-Amyl methyl ether | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,3-Dichloropropane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Ethyl tert-butyl ether | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Diisopropyl ether | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Trichlorofluoromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Dichlorodifluoromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| tert-Amyl Alcohol | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |

| Surrogate(s) | Recovery% | Limits | | |
|---|---|---|---|---|
| *4-Bromofluorobenzene* | *101%* | *70-130* | 06/12/23 | 06/12/23 |
| *1,2-Dichloroethane-d4* | *104%* | *70-130* | 06/12/23 | 06/12/23 |
| *Toluene-d8* | *102%* | *70-130* | 06/12/23 | 06/12/23 |

# Results: Volatile Organic Compounds

## Sample: GFS-3

**Lab Number: 3F06046-03 (Water)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Acetone | ND | | 32 | ug/l | 06/12/23 | 06/12/23 |
| Benzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Bromobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Bromochloromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Bromodichloromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Bromoform | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Bromomethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 2-Butanone | ND | | 12 | ug/l | 06/12/23 | 06/12/23 |
| tert-Butyl alcohol | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |
| sec-Butylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| n-Butylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| tert-Butylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Methyl t-butyl ether (MTBE) | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Carbon Disulfide | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Carbon Tetrachloride | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Chlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Chloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Chloroform | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Chloromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 4-Chlorotoluene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 2-Chlorotoluene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Dibromochloromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2-Dibromoethane (EDB) | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Dibromomethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2-Dichlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,3-Dichlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,4-Dichlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1-Dichloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2-Dichloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| trans-1,2-Dichloroethene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| cis-1,2-Dichloroethene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1-Dichloroethene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2-Dichloropropane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 2,2-Dichloropropane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| cis-1,3-Dichloropropene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| trans-1,3-Dichloropropene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1-Dichloropropene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,3-Dichloropropene (cis + trans) | ND | | 2 | ug/l | 06/12/23 | 06/12/23 |
| Diethyl ether | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |
| 1,4-Dioxane | ND | | 100 | ug/l | 06/12/23 | 06/12/23 |
| Ethylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Hexachlorobutadiene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 2-Hexanone | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |
| Isopropylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| p-Isopropyltoluene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Methylene Chloride | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 4-Methyl-2-pentanone | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |

## Sample: GFS-3 (Continued)

**Lab Number: 3F06046-03 (Water)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Naphthalene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| n-Propylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Styrene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1,1,2-Tetrachloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Tetrachloroethene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Tetrahydrofuran | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |
| Toluene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2,4-Trichlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2,3-Trichlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1,2-Trichloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1,1-Trichloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Trichloroethene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2,3-Trichloropropane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,3,5-Trimethylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2,4-Trimethylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Vinyl Chloride | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| o-Xylene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| m&p-Xylene | ND | | 2 | ug/l | 06/12/23 | 06/12/23 |
| Total xylenes | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1,2,2-Tetrachloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| tert-Amyl methyl ether | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,3-Dichloropropane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Ethyl tert-butyl ether | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Diisopropyl ether | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Trichlorofluoromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Dichlorodifluoromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| tert-Amyl Alcohol | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |

| Surrogate(s) | Recovery% | Limits | | |
|---|---|---|---|---|
| *4-Bromofluorobenzene* | *102%* | *70-130* | 06/12/23 | 06/12/23 |
| *1,2-Dichloroethane-d4* | *103%* | *70-130* | 06/12/23 | 06/12/23 |
| *Toluene-d8* | *101%* | *70-130* | 06/12/23 | 06/12/23 |

# Results: Volatile Organic Compounds

## Sample: GFS-4

**Lab Number: 3F06046-04 (Water)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Acetone | ND | | 32 | ug/l | 06/12/23 | 06/12/23 |
| Benzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Bromobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Bromochloromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Bromodichloromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Bromoform | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Bromomethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 2-Butanone | ND | | 12 | ug/l | 06/12/23 | 06/12/23 |
| tert-Butyl alcohol | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |
| sec-Butylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| n-Butylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| tert-Butylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Methyl t-butyl ether (MTBE) | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Carbon Disulfide | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Carbon Tetrachloride | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Chlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Chloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Chloroform | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Chloromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 4-Chlorotoluene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 2-Chlorotoluene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Dibromochloromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2-Dibromoethane (EDB) | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Dibromomethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2-Dichlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,3-Dichlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,4-Dichlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1-Dichloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2-Dichloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| trans-1,2-Dichloroethene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| cis-1,2-Dichloroethene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1-Dichloroethene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2-Dichloropropane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 2,2-Dichloropropane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| cis-1,3-Dichloropropene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| trans-1,3-Dichloropropene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1-Dichloropropene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,3-Dichloropropene (cis + trans) | ND | | 2 | ug/l | 06/12/23 | 06/12/23 |
| Diethyl ether | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |
| 1,4-Dioxane | ND | | 100 | ug/l | 06/12/23 | 06/12/23 |
| Ethylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Hexachlorobutadiene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 2-Hexanone | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |
| Isopropylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| p-Isopropyltoluene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Methylene Chloride | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 4-Methyl-2-pentanone | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |

# Results: Volatile Organic Compounds (Continued)

## Sample: GFS-4 (Continued)

**Lab Number: 3F06046-04 (Water)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Naphthalene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| n-Propylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Styrene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1,1,2-Tetrachloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Tetrachloroethene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Tetrahydrofuran | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |
| Toluene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2,4-Trichlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2,3-Trichlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1,2-Trichloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1,1-Trichloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Trichloroethene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2,3-Trichloropropane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,3,5-Trimethylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2,4-Trimethylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Vinyl Chloride | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| o-Xylene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| m&p-Xylene | ND | | 2 | ug/l | 06/12/23 | 06/12/23 |
| Total xylenes | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1,2,2-Tetrachloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| tert-Amyl methyl ether | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,3-Dichloropropane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Ethyl tert-butyl ether | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Diisopropyl ether | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Trichlorofluoromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Dichlorodifluoromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| tert-Amyl Alcohol | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |

| Surrogate(s) | Recovery% | Limits | | |
|---|---|---|---|---|
| *4-Bromofluorobenzene* | *102%* | *70-130* | 06/12/23 | 06/12/23 |
| *1,2-Dichloroethane-d4* | *104%* | *70-130* | 06/12/23 | 06/12/23 |
| *Toluene-d8* | *102%* | *70-130* | 06/12/23 | 06/12/23 |

# Results: Volatile Organic Compounds

## Sample: GFS-5

**Lab Number: 3F06046-05 (Water)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Acetone | ND | | 32 | ug/l | 06/12/23 | 06/12/23 |
| Benzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Bromobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Bromochloromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Bromodichloromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Bromoform | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Bromomethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 2-Butanone | ND | | 12 | ug/l | 06/12/23 | 06/12/23 |
| tert-Butyl alcohol | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |
| sec-Butylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| n-Butylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| tert-Butylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Methyl t-butyl ether (MTBE) | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Carbon Disulfide | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Carbon Tetrachloride | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Chlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Chloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Chloroform | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Chloromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 4-Chlorotoluene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 2-Chlorotoluene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Dibromochloromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2-Dibromoethane (EDB) | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Dibromomethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2-Dichlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,3-Dichlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,4-Dichlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1-Dichloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2-Dichloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| trans-1,2-Dichloroethene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| cis-1,2-Dichloroethene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1-Dichloroethene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2-Dichloropropane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 2,2-Dichloropropane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| cis-1,3-Dichloropropene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| trans-1,3-Dichloropropene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1-Dichloropropene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,3-Dichloropropene (cis + trans) | ND | | 2 | ug/l | 06/12/23 | 06/12/23 |
| Diethyl ether | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |
| 1,4-Dioxane | ND | | 100 | ug/l | 06/12/23 | 06/12/23 |
| Ethylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Hexachlorobutadiene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 2-Hexanone | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |
| Isopropylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| p-Isopropyltoluene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Methylene Chloride | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 4-Methyl-2-pentanone | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |

# Results: Volatile Organic Compounds (Continued)

## Sample: GFS-5 (Continued)

**Lab Number: 3F06046-05 (Water)**

| Analyte | Result | Qual | Reporting Limit | Units | Date Prepared | Date Analyzed |
|---|---|---|---|---|---|---|
| Naphthalene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| n-Propylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Styrene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1,1,2-Tetrachloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Tetrachloroethene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Tetrahydrofuran | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |
| Toluene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2,4-Trichlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2,3-Trichlorobenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1,2-Trichloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1,1-Trichloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Trichloroethene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2,3-Trichloropropane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,3,5-Trimethylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,2,4-Trimethylbenzene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Vinyl Chloride | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| o-Xylene | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| m&p-Xylene | ND | | 2 | ug/l | 06/12/23 | 06/12/23 |
| Total xylenes | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,1,2,2-Tetrachloroethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| tert-Amyl methyl ether | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| 1,3-Dichloropropane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Ethyl tert-butyl ether | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Diisopropyl ether | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Trichlorofluoromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| Dichlorodifluoromethane | ND | | 1 | ug/l | 06/12/23 | 06/12/23 |
| tert-Amyl Alcohol | ND | | 5 | ug/l | 06/12/23 | 06/12/23 |

| Surrogate(s) | Recovery% | Limits | | |
|---|---|---|---|---|
| *4-Bromofluorobenzene* | *100%* | *70-130* | 06/12/23 | 06/12/23 |
| *1,2-Dichloroethane-d4* | *103%* | *70-130* | 06/12/23 | 06/12/23 |
| *Toluene-d8* | *102%* | *70-130* | 06/12/23 | 06/12/23 |

## Extractable Petroleum Hydrocarbons
## Sample: GFS-1 (3F06046-01)

### SAMPLE INFORMATION

| | |
|---|---|
| Matrix | Water |
| Containers | Satisfactory |
| Aqueous Preservatives | pH<2 |
| Temperature | Received on Ice Received at: 4+/-2 C° |
| Extraction Method | EPA Method 3510C |

### EPH ANALYTICAL RESULTS

| | | | | | | |
|---|---|---|---|---|---|---|
| Method for Ranges: MADEP EPH 4-1.1 | | | | Client ID | GFS-1 | |
| Method for Target Analytes: MADEP EPH 4-1.1 | | | | Lab ID | 3F06046-01 | |
| EPH Surrogate Standards:<br>Aliphatic: Chlorooctadecane<br>Aromatic: o-Terphenyl | | | | Date Collected | 06/05/23 | |
| | | | | Date Received | 06/06/23 | |
| | | | | Date Thawed | NA | |
| | | | | Date Extracted | 06/07/23 | |
| EPH Fractionation Surrogates:<br>(1) 2-Fluorobiphenyl<br>(2) 2-Bromonaphthalene | | | | Percent Moisture | NA | |
| **RANGE/TARGET ANALYTE** | | **Dilution** | **RL** | **Units** | **Result** | **Analyzed** |
| Unadjusted C11-C22 Aromatic Hydrocarbons [1] | | 1X | 100 | ug/l | <100 | 06/09/23 17:05 |
| Diesel PAH Analytes | Naphthalene | 1X | 1.0 | ug/l | <1.0 | 06/09/23 17:05 |
| | 2-Methylnaphthalene | 1X | 1.0 | ug/l | <1.0 | 06/09/23 17:05 |
| | Phenanthrene | 1X | 1.0 | ug/l | <1.0 | 06/09/23 17:05 |
| | Acenaphthene | 1X | 5.0 | ug/l | <5.0 | 06/09/23 17:05 |
| Other Target PAH Analytes | Acenaphthylene | 1X | 1.0 | ug/l | <1.0 | 06/09/23 17:05 |
| | Fluorene | 1X | 5.0 | ug/l | <5.0 | 06/09/23 17:05 |
| | Anthracene | 1X | 5.0 | ug/l | <5.0 | 06/09/23 17:05 |
| | Fluoranthene | 1X | 5.0 | ug/l | <5.0 | 06/09/23 17:05 |
| | Pyrene | 1X | 5.0 | ug/l | <5.0 | 06/09/23 17:05 |
| | Benzo(a)anthracene | 1X | 1.0 | ug/l | <1.0 | 06/09/23 17:05 |
| | Chrysene | 1X | 2.0 | ug/l | <2.0 | 06/09/23 17:05 |
| | Benzo(b)fluoranthene | 1X | 1.0 | ug/l | <1.0 | 06/09/23 17:05 |
| | Benzo(k)fluoranthene | 1X | 1.0 | ug/l | <1.0 | 06/09/23 17:05 |
| | Benzo(a)pyrene | 1X | 0.2 | ug/l | <0.2 | 06/09/23 17:05 |
| | Indeno(1,2,3-cd)pyrene | 1X | 0.5 | ug/l | <0.5 | 06/09/23 17:05 |
| | Dibenz(a,h)anthracene | 1X | 0.5 | ug/l | <0.5 | 06/09/23 17:05 |
| | Benzo(g,h,i)perylene | 1X | 5.0 | ug/l | <5.0 | 06/09/23 17:05 |
| C9-C18 Aliphatic Hydrocarbons [1] | | 1X | 200 | ug/l | <200 | 06/09/23 16:39 |
| C19-C36 Aliphatic Hydrocarbons [1] | | 1X | 200 | ug/l | <200 | 06/09/23 16:39 |
| C11-C22 Aromatic Hydrocarbons [1,2] | | 1X | 100 | ug/l | <100 | 06/09/23 17:05 |
| Chlorooctadecane (Sample Surrogate) | | | | % | 50.0 | 06/09/23 16:39 |
| o-Terphenyl (Sample Surrogate) | | | | % | 60.4 | 06/09/23 17:05 |
| 2-Fluorobiphenyl (Fractionation Surrogate) | | | | % | 90.4 | 06/09/23 17:05 |
| 2-Bromonaphthalene (Fractionation Surrogate) | | | | % | 84.2 | 06/09/23 17:05 |
| Surrogate Acceptance Range [3] | | | | % | 40 - 140 | |

[1] Hydrocarbon range data excludes area counts of any surrogate(s) and/or internal standards eluting in that range.
[2] C11-C22 Aromatic Hydrocarbons excludes the concentration of Target PAH Analytes.
[3] See the case narrative in cases where a dash (-) is entered in the surrogate recovery block.

## Extractable Petroleum Hydrocarbons
## Sample: GFS-2 (3F06046-02)

**SAMPLE INFORMATION**

| | |
|---|---|
| Matrix | Water |
| Containers | Satisfactory |
| Aqueous Preservatives | pH<2 |
| Temperature | Received on Ice Received at: 4+/-2 C° |
| Extraction Method | EPA Method 3510C |

**EPH ANALYTICAL RESULTS**

| | | | | | | |
|---|---|---|---|---|---|---|
| Method for Ranges: MADEP EPH 4-1.1 | | | | Client ID | GFS-2 | |
| Method for Target Analytes: MADEP EPH 4-1.1 | | | | Lab ID | 3F06046-02 | |
| EPH Surrogate Standards:<br>Aliphatic: Chlorooctadecane<br>Aromatic: o-Terphenyl | | | | Date Collected | 06/05/23 | |
| | | | | Date Received | 06/06/23 | |
| | | | | Date Thawed | NA | |
| | | | | Date Extracted | 06/07/23 | |
| EPH Fractionation Surrogates:<br>(1) 2-Fluorobiphenyl<br>(2) 2-Bromonaphthalene | | | | Percent Moisture | NA | |
| **RANGE/TARGET ANALYTE** | | **Dilution** | **RL** | **Units** | **Result** | **Analyzed** |
| Unadjusted C11-C22 Aromatic Hydrocarbons [1] | | 1X | 100 | ug/l | <100 | 06/09/23 17:33 |
| Diesel PAH Analytes | Naphthalene | 1X | 1.0 | ug/l | <1.0 | 06/09/23 17:33 |
| | 2-Methylnaphthalene | 1X | 1.0 | ug/l | <1.0 | 06/09/23 17:33 |
| | Phenanthrene | 1X | 1.0 | ug/l | <1.0 | 06/09/23 17:33 |
| | Acenaphthene | 1X | 5.0 | ug/l | <5.0 | 06/09/23 17:33 |
| Other Target PAH Analytes | Acenaphthylene | 1X | 1.0 | ug/l | <1.0 | 06/09/23 17:33 |
| | Fluorene | 1X | 5.0 | ug/l | <5.0 | 06/09/23 17:33 |
| | Anthracene | 1X | 5.0 | ug/l | <5.0 | 06/09/23 17:33 |
| | Fluoranthene | 1X | 5.0 | ug/l | <5.0 | 06/09/23 17:33 |
| | Pyrene | 1X | 5.0 | ug/l | <5.0 | 06/09/23 17:33 |
| | Benzo(a)anthracene | 1X | 1.0 | ug/l | <1.0 | 06/09/23 17:33 |
| | Chrysene | 1X | 2.0 | ug/l | <2.0 | 06/09/23 17:33 |
| | Benzo(b)fluoranthene | 1X | 1.0 | ug/l | <1.0 | 06/09/23 17:33 |
| | Benzo(k)fluoranthene | 1X | 1.0 | ug/l | <1.0 | 06/09/23 17:33 |
| | Benzo(a)pyrene | 1X | 0.2 | ug/l | <0.2 | 06/09/23 17:33 |
| | Indeno(1,2,3-cd)pyrene | 1X | 0.5 | ug/l | <0.5 | 06/09/23 17:33 |
| | Dibenz(a,h)anthracene | 1X | 0.5 | ug/l | <0.5 | 06/09/23 17:33 |
| | Benzo(g,h,i)perylene | 1X | 5.0 | ug/l | <5.0 | 06/09/23 17:33 |
| C9-C18 Aliphatic Hydrocarbons [1] | | 1X | 200 | ug/l | <200 | 06/09/23 17:04 |
| C19-C36 Aliphatic Hydrocarbons [1] | | 1X | 200 | ug/l | <200 | 06/09/23 17:04 |
| C11-C22 Aromatic Hydrocarbons [1,2] | | 1X | 100 | ug/l | <100 | 06/09/23 17:33 |
| Chlorooctadecane (Sample Surrogate) | | | | % | 50.8 | 06/09/23 17:04 |
| o-Terphenyl (Sample Surrogate) | | | | % | 79.3 | 06/09/23 17:33 |
| 2-Fluorobiphenyl (Fractionation Surrogate) | | | | % | 83.0 | 06/09/23 17:33 |
| 2-Bromonaphthalene (Fractionation Surrogate) | | | | % | 69.8 | 06/09/23 17:33 |
| Surrogate Acceptance Range [3] | | | | % | 40 - 140 | |

[1] Hydrocarbon range data excludes area counts of any surrogate(s) and/or internal standards eluting in that range.
[2] C11-C22 Aromatic Hydrocarbons excludes the concentration of Target PAH Analytes.
[3] See the case narrative in cases where a dash (-) is entered in the surrogate recovery block.

## Extractable Petroleum Hydrocarbons
## Sample: GFS-3 (3F06046-03)

### SAMPLE INFORMATION

| | |
|---|---|
| Matrix | Water |
| Containers | Satisfactory |
| Aqueous Preservatives | pH<2 |
| Temperature | Received on Ice Received at: 4+/-2 C° |
| Extraction Method | EPA Method 3510C |

### EPH ANALYTICAL RESULTS

| | | | | | | |
|---|---|---|---|---|---|---|
| Method for Ranges: MADEP EPH 4-1.1 | | | | Client ID | GFS-3 | |
| Method for Target Analytes: MADEP EPH 4-1.1 | | | | Lab ID | 3F06046-03 | |
| EPH Surrogate Standards:<br>Aliphatic: Chlorooctadecane<br>Aromatic: o-Terphenyl | | | | Date Collected | 06/05/23 | |
| | | | | Date Received | 06/06/23 | |
| | | | | Date Thawed | NA | |
| | | | | Date Extracted | 06/07/23 | |
| EPH Fractionation Surrogates:<br>(1) 2-Fluorobiphenyl<br>(2) 2-Bromonaphthalene | | | | Percent Moisture | NA | |
| **RANGE/TARGET ANALYTE** | | **Dilution** | **RL** | **Units** | **Result** | **Analyzed** |
| Unadjusted C11-C22 Aromatic Hydrocarbons [1] | | 1X | 100 | ug/l | **146** | 06/13/23 14:23 |
| Diesel PAH Analytes | Naphthalene | 1X | 1.0 | ug/l | <1.0 | 06/13/23 14:23 |
| | 2-Methylnaphthalene | 1X | 1.0 | ug/l | **1.1** | 06/13/23 14:23 |
| | Phenanthrene | 1X | 1.0 | ug/l | <1.0 | 06/13/23 14:23 |
| | Acenaphthene | 1X | 5.0 | ug/l | <5.0 | 06/13/23 14:23 |
| Other Target PAH Analytes | Acenaphthylene | 1X | 1.0 | ug/l | <1.0 | 06/13/23 14:23 |
| | Fluorene | 1X | 5.0 | ug/l | <5.0 | 06/13/23 14:23 |
| | Anthracene | 1X | 5.0 | ug/l | <5.0 | 06/13/23 14:23 |
| | Fluoranthene | 1X | 5.0 | ug/l | <5.0 | 06/13/23 14:23 |
| | Pyrene | 1X | 5.0 | ug/l | <5.0 | 06/13/23 14:23 |
| | Benzo(a)anthracene | 1X | 1.0 | ug/l | <1.0 | 06/13/23 14:23 |
| | Chrysene | 1X | 2.0 | ug/l | <2.0 | 06/13/23 14:23 |
| | Benzo(b)fluoranthene | 1X | 1.0 | ug/l | <1.0 | 06/13/23 14:23 |
| | Benzo(k)fluoranthene | 1X | 1.0 | ug/l | <1.0 | 06/13/23 14:23 |
| | Benzo(a)pyrene | 1X | 0.2 | ug/l | <0.2 | 06/13/23 14:23 |
| | Indeno(1,2,3-cd)pyrene | 1X | 0.5 | ug/l | <0.5 | 06/13/23 14:23 |
| | Dibenz(a,h)anthracene | 1X | 0.5 | ug/l | <0.5 | 06/13/23 14:23 |
| | Benzo(g,h,i)perylene | 1X | 5.0 | ug/l | <5.0 | 06/13/23 14:23 |
| C9-C18 Aliphatic Hydrocarbons [1] | | 1X | 200 | ug/l | <200 | 06/13/23 14:05 |
| C19-C36 Aliphatic Hydrocarbons [1] | | 1X | 200 | ug/l | <200 | 06/13/23 14:05 |
| C11-C22 Aromatic Hydrocarbons [1,2] | | 1X | 100 | ug/l | **145** | 06/13/23 14:23 |
| Chlorooctadecane (Sample Surrogate) | | | | % | 59.7 | 06/13/23 14:05 |
| o-Terphenyl (Sample Surrogate) | | | | % | 73.1 | 06/13/23 14:23 |
| 2-Fluorobiphenyl (Fractionation Surrogate) | | | | % | 89.7 | 06/13/23 14:23 |
| 2-Bromonaphthalene (Fractionation Surrogate) | | | | % | 45.9 | 06/13/23 14:23 |
| Surrogate Acceptance Range [3] | | | | % | 40 - 140 | |

[1] Hydrocarbon range data excludes area counts of any surrogate(s) and/or internal standards eluting in that range.
[2] C11-C22 Aromatic Hydrocarbons excludes the concentration of Target PAH Analytes.
[3] See the case narrative in cases where a dash (-) is entered in the surrogate recovery block.

## Extractable Petroleum Hydrocarbons
## Sample: GFS-4 (3F06046-04)

**SAMPLE INFORMATION**

| | |
|---|---|
| Matrix | Water |
| Containers | Satisfactory |
| Aqueous Preservatives | pH<2 |
| Temperature | Received on Ice Received at: 4+/-2 C° |
| Extraction Method | EPA Method 3510C |

**EPH ANALYTICAL RESULTS**

| | | | | | | |
|---|---|---|---|---|---|---|
| Method for Ranges: MADEP EPH 4-1.1 | | | | Client ID | GFS-4 | |
| Method for Target Analytes: MADEP EPH 4-1.1 | | | | Lab ID | 3F06046-04 | |
| EPH Surrogate Standards:<br>Aliphatic: Chlorooctadecane<br>Aromatic: o-Terphenyl | | | | Date Collected | 06/05/23 | |
| | | | | Date Received | 06/06/23 | |
| | | | | Date Thawed | NA | |
| | | | | Date Extracted | 06/07/23 | |
| EPH Fractionation Surrogates:<br>(1) 2-Fluorobiphenyl<br>(2) 2-Bromonaphthalene | | | | Percent Moisture | NA | |
| **RANGE/TARGET ANALYTE** | | **Dilution** | **RL** | **Units** | **Result** | **Analyzed** |
| Unadjusted C11-C22 Aromatic Hydrocarbons [1] | | 1X | 100 | ug/l | <100 | 06/13/23 14:51 |
| Diesel PAH Analytes | Naphthalene | 1X | 1.0 | ug/l | <1.0 | 06/13/23 14:51 |
| | 2-Methylnaphthalene | 1X | 1.0 | ug/l | <1.0 | 06/13/23 14:51 |
| | Phenanthrene | 1X | 1.0 | ug/l | <1.0 | 06/13/23 14:51 |
| | Acenaphthene | 1X | 5.0 | ug/l | <5.0 | 06/13/23 14:51 |
| Other Target PAH Analytes | Acenaphthylene | 1X | 1.0 | ug/l | <1.0 | 06/13/23 14:51 |
| | Fluorene | 1X | 5.0 | ug/l | <5.0 | 06/13/23 14:51 |
| | Anthracene | 1X | 5.0 | ug/l | <5.0 | 06/13/23 14:51 |
| | Fluoranthene | 1X | 5.0 | ug/l | <5.0 | 06/13/23 14:51 |
| | Pyrene | 1X | 5.0 | ug/l | <5.0 | 06/13/23 14:51 |
| | Benzo(a)anthracene | 1X | 1.0 | ug/l | <1.0 | 06/13/23 14:51 |
| | Chrysene | 1X | 2.0 | ug/l | <2.0 | 06/13/23 14:51 |
| | Benzo(b)fluoranthene | 1X | 1.0 | ug/l | <1.0 | 06/13/23 14:51 |
| | Benzo(k)fluoranthene | 1X | 1.0 | ug/l | <1.0 | 06/13/23 14:51 |
| | Benzo(a)pyrene | 1X | 0.2 | ug/l | <0.2 | 06/13/23 14:51 |
| | Indeno(1,2,3-cd)pyrene | 1X | 0.5 | ug/l | <0.5 | 06/13/23 14:51 |
| | Dibenz(a,h)anthracene | 1X | 0.5 | ug/l | <0.5 | 06/13/23 14:51 |
| | Benzo(g,h,i)perylene | 1X | 5.0 | ug/l | <5.0 | 06/13/23 14:51 |
| C9-C18 Aliphatic Hydrocarbons [1] | | 1X | 200 | ug/l | <200 | 06/13/23 14:30 |
| C19-C36 Aliphatic Hydrocarbons [1] | | 1X | 200 | ug/l | <200 | 06/13/23 14:30 |
| C11-C22 Aromatic Hydrocarbons [1,2] | | 1X | 100 | ug/l | <100 | 06/13/23 14:51 |
| Chlorooctadecane (Sample Surrogate) | | | | % | 65.1 | 06/13/23 14:30 |
| o-Terphenyl (Sample Surrogate) | | | | % | 74.6 | 06/13/23 14:51 |
| 2-Fluorobiphenyl (Fractionation Surrogate) | | | | % | 81.6 | 06/13/23 14:51 |
| 2-Bromonaphthalene (Fractionation Surrogate) | | | | % | 46.5 | 06/13/23 14:51 |
| Surrogate Acceptance Range [3] | | | | % | 40 - 140 | |

[1] Hydrocarbon range data excludes area counts of any surrogate(s) and/or internal standards eluting in that range.
[2] C11-C22 Aromatic Hydrocarbons excludes the concentration of Target PAH Analytes.
[3] See the case narrative in cases where a dash (-) is entered in the surrogate recovery block.

## Extractable Petroleum Hydrocarbons
## Sample: GFS-5 (3F06046-05)

### SAMPLE INFORMATION

| | |
|---|---|
| Matrix | Water |
| Containers | Satisfactory |
| Aqueous Preservatives | pH<2 |
| Temperature | Received on Ice Received at: 4+/-2 C° |
| Extraction Method | EPA Method 3510C |

### EPH ANALYTICAL RESULTS

| | | | | | | |
|---|---|---|---|---|---|---|
| Method for Ranges: MADEP EPH 4-1.1 | | | | Client ID | GFS-5 | |
| Method for Target Analytes: MADEP EPH 4-1.1 | | | | Lab ID | 3F06046-05 | |
| EPH Surrogate Standards:<br>Aliphatic: Chlorooctadecane<br>Aromatic: o-Terphenyl | | | | Date Collected | 06/05/23 | |
| | | | | Date Received | 06/06/23 | |
| | | | | Date Thawed | NA | |
| | | | | Date Extracted | 06/07/23 | |
| EPH Fractionation Surrogates:<br>(1) 2-Fluorobiphenyl<br>(2) 2-Bromonaphthalene | | | | Percent Moisture | NA | |
| **RANGE/TARGET ANALYTE** | | **Dilution** | **RL** | **Units** | **Result** | **Analyzed** |
| Unadjusted C11-C22 Aromatic Hydrocarbons [1] | | 1X | 100 | ug/l | <100 | 06/13/23 15:19 |
| Diesel PAH Analytes | Naphthalene | 1X | 1.0 | ug/l | <1.0 | 06/13/23 15:19 |
| | 2-Methylnaphthalene | 1X | 1.0 | ug/l | <1.0 | 06/13/23 15:19 |
| | Phenanthrene | 1X | 1.0 | ug/l | <1.0 | 06/13/23 15:19 |
| | Acenaphthene | 1X | 5.0 | ug/l | <5.0 | 06/13/23 15:19 |
| Other Target PAH Analytes | Acenaphthylene | 1X | 1.0 | ug/l | <1.0 | 06/13/23 15:19 |
| | Fluorene | 1X | 5.0 | ug/l | <5.0 | 06/13/23 15:19 |
| | Anthracene | 1X | 5.0 | ug/l | <5.0 | 06/13/23 15:19 |
| | Fluoranthene | 1X | 5.0 | ug/l | <5.0 | 06/13/23 15:19 |
| | Pyrene | 1X | 5.0 | ug/l | <5.0 | 06/13/23 15:19 |
| | Benzo(a)anthracene | 1X | 1.0 | ug/l | <1.0 | 06/13/23 15:19 |
| | Chrysene | 1X | 2.0 | ug/l | <2.0 | 06/13/23 15:19 |
| | Benzo(b)fluoranthene | 1X | 1.0 | ug/l | <1.0 | 06/13/23 15:19 |
| | Benzo(k)fluoranthene | 1X | 1.0 | ug/l | <1.0 | 06/13/23 15:19 |
| | Benzo(a)pyrene | 1X | 0.2 | ug/l | <0.2 | 06/13/23 15:19 |
| | Indeno(1,2,3-cd)pyrene | 1X | 0.5 | ug/l | <0.5 | 06/13/23 15:19 |
| | Dibenz(a,h)anthracene | 1X | 0.5 | ug/l | <0.5 | 06/13/23 15:19 |
| | Benzo(g,h,i)perylene | 1X | 5.0 | ug/l | <5.0 | 06/13/23 15:19 |
| C9-C18 Aliphatic Hydrocarbons [1] | | 1X | 200 | ug/l | <200 | 06/13/23 14:55 |
| C19-C36 Aliphatic Hydrocarbons [1] | | 1X | 200 | ug/l | <200 | 06/13/23 14:55 |
| C11-C22 Aromatic Hydrocarbons [1,2] | | 1X | 100 | ug/l | <100 | 06/13/23 15:19 |
| Chlorooctadecane (Sample Surrogate) | | | | % | 57.4 | 06/13/23 14:55 |
| o-Terphenyl (Sample Surrogate) | | | | % | 54.9 | 06/13/23 15:19 |
| 2-Fluorobiphenyl (Fractionation Surrogate) | | | | % | 70.1 | 06/13/23 15:19 |
| 2-Bromonaphthalene (Fractionation Surrogate) | | | | % | 51.1 | 06/13/23 15:19 |
| Surrogate Acceptance Range [3] | | | | % | 40 - 140 | |

[1] Hydrocarbon range data excludes area counts of any surrogate(s) and/or internal standards eluting in that range.
[2] C11-C22 Aromatic Hydrocarbons excludes the concentration of Target PAH Analytes.
[3] See the case narrative in cases where a dash (-) is entered in the surrogate recovery block.

## Quality Control

### Dissolved Metals

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0312 - Metals Cold-Vapor Mercury*** | | | | | | | | | | |
| **Blank (B3F0312-BLK1)** | | | | | Prepared & Analyzed: 06/07/23 | | | | | |
| Mercury | ND | | 0.0005 | mg/L | | | | | | |
| **LCS (B3F0312-BS1)** | | | | | Prepared & Analyzed: 06/07/23 | | | | | |
| Mercury | 0.0050 | | 0.0005 | mg/L | 0.00500 | | 101 | 85-115 | | |
| **LCS Dup (B3F0312-BSD1)** | | | | | Prepared & Analyzed: 06/07/23 | | | | | |
| Mercury | 0.0050 | | 0.0005 | mg/L | 0.00500 | | 99.7 | 85-115 | 0.991 | 200 |
| ***Batch: B3F0510 - Dissolved Metals*** | | | | | | | | | | |
| **Blank (B3F0510-BLK1)** | | | | | Prepared: 06/11/23 Analyzed: 06/12/23 | | | | | |
| Beryllium | ND | | 0.005 | mg/L | | | | | | |
| Lead | ND | | 0.005 | mg/L | | | | | | |
| Nickel | ND | | 0.005 | mg/L | | | | | | |
| Selenium | ND | | 0.010 | mg/L | | | | | | |
| Chromium | ND | | 0.005 | mg/L | | | | | | |
| Cadmium | ND | | 0.005 | mg/L | | | | | | |
| Antimony | ND | | 0.005 | mg/L | | | | | | |
| Vanadium | ND | | 0.005 | mg/L | | | | | | |
| Barium | ND | | 0.005 | mg/L | | | | | | |
| Zinc | ND | | 0.020 | mg/L | | | | | | |
| Arsenic | ND | | 0.010 | mg/L | | | | | | |
| Silver | ND | | 0.005 | mg/L | | | | | | |
| Thallium | ND | | 0.005 | mg/L | | | | | | |
| **LCS (B3F0510-BS1)** | | | | | Prepared: 06/11/23 Analyzed: 06/12/23 | | | | | |
| Selenium | 0.202 | | 0.010 | mg/L | 0.200 | | 101 | 85-115 | | |
| Zinc | 0.938 | | 0.020 | mg/L | 1.00 | | 93.8 | 85-115 | | |
| Antimony | 0.933 | | 0.005 | mg/L | 1.00 | | 93.3 | 85-115 | | |
| Vanadium | 0.970 | | 0.005 | mg/L | 1.00 | | 97.0 | 85-115 | | |
| Arsenic | 0.189 | | 0.010 | mg/L | 0.200 | | 94.3 | 85-115 | | |
| Lead | 0.915 | | 0.005 | mg/L | 1.00 | | 91.5 | 85-115 | | |
| Silver | 0.381 | | 0.005 | mg/L | 0.400 | | 95.3 | 85-115 | | |
| Barium | 0.923 | | 0.005 | mg/L | 1.00 | | 92.3 | 85-115 | | |
| Beryllium | 0.209 | | 0.005 | mg/L | 0.200 | | 105 | 85-115 | | |
| Cadmium | 0.934 | | 0.005 | mg/L | 1.00 | | 93.4 | 85-115 | | |
| Chromium | 0.938 | | 0.005 | mg/L | 1.00 | | 93.8 | 85-115 | | |
| Nickel | 0.919 | | 0.005 | mg/L | 1.00 | | 91.9 | 85-115 | | |
| Thallium | 0.862 | | 0.005 | mg/L | 1.00 | | 86.2 | 85-115 | | |

## Volatile Organic Compounds

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0522 - Purge-Trap*** | | | | | | | | | | |
| **Blank (B3F0522-BLK1)** | | | | | Prepared & Analyzed: 06/12/23 | | | | | |
| Acetone | ND | | 32 | ug/l | | | | | | |
| Benzene | ND | | 1 | ug/l | | | | | | |
| Bromobenzene | ND | | 1 | ug/l | | | | | | |
| Bromochloromethane | ND | | 1 | ug/l | | | | | | |
| Bromodichloromethane | ND | | 1 | ug/l | | | | | | |
| Bromoform | ND | | 1 | ug/l | | | | | | |
| Bromomethane | ND | | 1 | ug/l | | | | | | |
| 2-Butanone | ND | | 12 | ug/l | | | | | | |
| tert-Butyl alcohol | ND | | 5 | ug/l | | | | | | |
| sec-Butylbenzene | ND | | 1 | ug/l | | | | | | |
| n-Butylbenzene | ND | | 1 | ug/l | | | | | | |
| tert-Butylbenzene | ND | | 1 | ug/l | | | | | | |
| Methyl t-butyl ether (MTBE) | ND | | 1 | ug/l | | | | | | |
| Carbon Disulfide | ND | | 1 | ug/l | | | | | | |
| Carbon Tetrachloride | ND | | 1 | ug/l | | | | | | |
| Chlorobenzene | ND | | 1 | ug/l | | | | | | |
| Chloroethane | ND | | 1 | ug/l | | | | | | |
| Chloroform | ND | | 1 | ug/l | | | | | | |
| Chloromethane | ND | | 1 | ug/l | | | | | | |
| 4-Chlorotoluene | ND | | 1 | ug/l | | | | | | |
| 2-Chlorotoluene | ND | | 1 | ug/l | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | | 1 | ug/l | | | | | | |
| Dibromochloromethane | ND | | 1 | ug/l | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | | 1 | ug/l | | | | | | |
| Dibromomethane | ND | | 1 | ug/l | | | | | | |
| 1,2-Dichlorobenzene | ND | | 1 | ug/l | | | | | | |
| 1,3-Dichlorobenzene | ND | | 1 | ug/l | | | | | | |
| 1,4-Dichlorobenzene | ND | | 1 | ug/l | | | | | | |
| 1,1-Dichloroethane | ND | | 1 | ug/l | | | | | | |
| 1,2-Dichloroethane | ND | | 1 | ug/l | | | | | | |
| trans-1,2-Dichloroethene | ND | | 1 | ug/l | | | | | | |
| cis-1,2-Dichloroethene | ND | | 1 | ug/l | | | | | | |
| 1,1-Dichloroethene | ND | | 1 | ug/l | | | | | | |
| 1,2-Dichloropropane | ND | | 1 | ug/l | | | | | | |
| 2,2-Dichloropropane | ND | | 1 | ug/l | | | | | | |
| cis-1,3-Dichloropropene | ND | | 1 | ug/l | | | | | | |
| trans-1,3-Dichloropropene | ND | | 1 | ug/l | | | | | | |
| 1,1-Dichloropropene | ND | | 1 | ug/l | | | | | | |
| 1,3-Dichloropropene (cis + trans) | ND | | 2 | ug/l | | | | | | |
| Diethyl ether | ND | | 5 | ug/l | | | | | | |
| 1,4-Dioxane | ND | | 100 | ug/l | | | | | | |
| Ethylbenzene | ND | | 1 | ug/l | | | | | | |
| Hexachlorobutadiene | ND | | 1 | ug/l | | | | | | |
| 2-Hexanone | ND | | 5 | ug/l | | | | | | |
| Isopropylbenzene | ND | | 1 | ug/l | | | | | | |
| p-Isopropyltoluene | ND | | 1 | ug/l | | | | | | |
| Methylene Chloride | ND | | 1 | ug/l | | | | | | |
| 4-Methyl-2-pentanone | ND | | 5 | ug/l | | | | | | |
| Naphthalene | ND | | 1 | ug/l | | | | | | |
| n-Propylbenzene | ND | | 1 | ug/l | | | | | | |
| Styrene | ND | | 1 | ug/l | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | | 1 | ug/l | | | | | | |
| Tetrachloroethene | ND | | 1 | ug/l | | | | | | |
| Tetrahydrofuran | ND | | 5 | ug/l | | | | | | |
| Toluene | ND | | 1 | ug/l | | | | | | |
| 1,2,4-Trichlorobenzene | ND | | 1 | ug/l | | | | | | |
| 1,2,3-Trichlorobenzene | ND | | 1 | ug/l | | | | | | |

### Volatile Organic Compounds (Continued)

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0522 - Purge-Trap (Continued)*** | | | | | | | | | | |
| **Blank (B3F0522-BLK1)** | | | | | Prepared & Analyzed: 06/12/23 | | | | | |
| 1,1,2-Trichloroethane | ND | | 1 | ug/l | | | | | | |
| 1,1,1-Trichloroethane | ND | | 1 | ug/l | | | | | | |
| Trichloroethene | ND | | 1 | ug/l | | | | | | |
| 1,2,3-Trichloropropane | ND | | 1 | ug/l | | | | | | |
| 1,3,5-Trimethylbenzene | ND | | 1 | ug/l | | | | | | |
| 1,2,4-Trimethylbenzene | ND | | 1 | ug/l | | | | | | |
| Vinyl Chloride | ND | | 1 | ug/l | | | | | | |
| o-Xylene | ND | | 1 | ug/l | | | | | | |
| m&p-Xylene | ND | | 2 | ug/l | | | | | | |
| Total xylenes | ND | | 1 | ug/l | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | | 1 | ug/l | | | | | | |
| tert-Amyl methyl ether | ND | | 1 | ug/l | | | | | | |
| 1,3-Dichloropropane | ND | | 1 | ug/l | | | | | | |
| Ethyl tert-butyl ether | ND | | 1 | ug/l | | | | | | |
| Diisopropyl ether | ND | | 1 | ug/l | | | | | | |
| Trichlorofluoromethane | ND | | 1 | ug/l | | | | | | |
| Dichlorodifluoromethane | ND | | 1 | ug/l | | | | | | |
| tert-Amyl Alcohol | ND | | 5 | ug/l | | | | | | |
| *Surrogate: 4-Bromofluorobenzene* | | | *50.1* | ug/l | *50.0* | | *100* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | | | *52.4* | ug/l | *50.0* | | *105* | *70-130* | | |
| *Surrogate: Toluene-d8* | | | *50.9* | ug/l | *50.0* | | *102* | *70-130* | | |
| **LCS (B3F0522-BS1)** | | | | | Prepared & Analyzed: 06/12/23 | | | | | |
| Acetone | 54 | | 5 | ug/l | 50.0 | | 108 | 50-150 | | |
| Benzene | 51 | | 1 | ug/l | 50.0 | | 101 | 70-130 | | |
| Bromobenzene | 50 | | 1 | ug/l | 50.0 | | 100 | 70-130 | | |
| Bromochloromethane | 52 | | 1 | ug/l | 50.0 | | 104 | 70-130 | | |
| Bromodichloromethane | 52 | | 1 | ug/l | 50.0 | | 104 | 70-130 | | |
| Bromoform | 49 | | 1 | ug/l | 50.0 | | 98.2 | 70-130 | | |
| Bromomethane | 56 | | 1 | ug/l | 50.0 | | 112 | 50-150 | | |
| 2-Butanone | 52 | | 5 | ug/l | 50.0 | | 103 | 50-150 | | |
| tert-Butyl alcohol | 57 | | 5 | ug/l | 50.0 | | 114 | 70-130 | | |
| sec-Butylbenzene | 49 | | 1 | ug/l | 50.0 | | 98.1 | 70-130 | | |
| n-Butylbenzene | 53 | | 1 | ug/l | 50.0 | | 106 | 70-130 | | |
| tert-Butylbenzene | 49 | | 1 | ug/l | 50.0 | | 97.4 | 70-130 | | |
| Methyl t-butyl ether (MTBE) | 47 | | 1 | ug/l | 50.0 | | 94.5 | 70-130 | | |
| Carbon Disulfide | 42 | | 1 | ug/l | 50.0 | | 83.8 | 50-150 | | |
| Carbon Tetrachloride | 49 | | 1 | ug/l | 50.0 | | 97.7 | 70-130 | | |
| Chlorobenzene | 48 | | 1 | ug/l | 50.0 | | 95.0 | 70-130 | | |
| Chloroethane | 54 | | 1 | ug/l | 50.0 | | 108 | 50-150 | | |
| Chloroform | 50 | | 1 | ug/l | 50.0 | | 99.6 | 70-130 | | |
| Chloromethane | 58 | | 1 | ug/l | 50.0 | | 115 | 50-150 | | |
| 4-Chlorotoluene | 50 | | 1 | ug/l | 50.0 | | 99.7 | 70-130 | | |
| 2-Chlorotoluene | 47 | | 1 | ug/l | 50.0 | | 94.7 | 70-130 | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 47 | | 1 | ug/l | 50.0 | | 94.4 | 70-130 | | |
| Dibromochloromethane | 52 | | 1 | ug/l | 50.0 | | 104 | 70-130 | | |
| 1,2-Dibromoethane (EDB) | 52 | | 1 | ug/l | 50.0 | | 105 | 70-130 | | |
| Dibromomethane | 54 | | 1 | ug/l | 50.0 | | 108 | 70-130 | | |
| 1,2-Dichlorobenzene | 50 | | 1 | ug/l | 50.0 | | 101 | 70-130 | | |
| 1,3-Dichlorobenzene | 49 | | 1 | ug/l | 50.0 | | 98.3 | 70-130 | | |
| 1,4-Dichlorobenzene | 49 | | 1 | ug/l | 50.0 | | 97.1 | 70-130 | | |
| 1,1-Dichloroethane | 51 | | 1 | ug/l | 50.0 | | 101 | 70-130 | | |
| 1,2-Dichloroethane | 50 | | 1 | ug/l | 50.0 | | 100 | 70-130 | | |
| trans-1,2-Dichloroethene | 50 | | 1 | ug/l | 50.0 | | 101 | 70-130 | | |
| cis-1,2-Dichloroethene | 50 | | 1 | ug/l | 50.0 | | 100 | 70-130 | | |
| 1,1-Dichloroethene | 52 | | 1 | ug/l | 50.0 | | 104 | 70-130 | | |
| 1,2-Dichloropropane | 51 | | 1 | ug/l | 50.0 | | 102 | 70-130 | | |

## Volatile Organic Compounds (Continued)

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0522 - Purge-Trap (Continued)*** | | | | | | | | | | |
| **LCS (B3F0522-BS1)** | | | | | Prepared & Analyzed: 06/12/23 | | | | | |
| 2,2-Dichloropropane | 49 | | 1 | ug/l | 50.0 | | 98.5 | 70-130 | | |
| cis-1,3-Dichloropropene | 51 | | 1 | ug/l | 50.0 | | 102 | 70-130 | | |
| trans-1,3-Dichloropropene | 52 | | 1 | ug/l | 50.0 | | 105 | 70-130 | | |
| 1,1-Dichloropropene | 51 | | 1 | ug/l | 50.0 | | 102 | 70-130 | | |
| Diethyl ether | 49 | | 5 | ug/l | 50.0 | | 97.9 | 70-130 | | |
| 1,4-Dioxane | 240 | | 100 | ug/l | 250 | | 96.1 | 50-150 | | |
| Ethylbenzene | 51 | | 1 | ug/l | 50.0 | | 101 | 70-130 | | |
| Hexachlorobutadiene | 55 | | 1 | ug/l | 50.0 | | 109 | 70-130 | | |
| 2-Hexanone | 52 | | 5 | ug/l | 50.0 | | 104 | 50-150 | | |
| Isopropylbenzene | 49 | | 1 | ug/l | 50.0 | | 98.9 | 70-130 | | |
| p-Isopropyltoluene | 51 | | 1 | ug/l | 50.0 | | 102 | 70-130 | | |
| Methylene Chloride | 50 | | 1 | ug/l | 50.0 | | 101 | 70-130 | | |
| 4-Methyl-2-pentanone | 46 | | 5 | ug/l | 50.0 | | 91.6 | 50-150 | | |
| Naphthalene | 51 | | 1 | ug/l | 50.0 | | 103 | 70-130 | | |
| n-Propylbenzene | 50 | | 1 | ug/l | 50.0 | | 101 | 70-130 | | |
| Styrene | 52 | | 1 | ug/l | 50.0 | | 104 | 70-130 | | |
| 1,1,1,2-Tetrachloroethane | 50 | | 1 | ug/l | 50.0 | | 101 | 70-130 | | |
| Tetrachloroethene | 50 | | 1 | ug/l | 50.0 | | 101 | 70-130 | | |
| Tetrahydrofuran | 50 | | 5 | ug/l | 50.0 | | 99.3 | 50-150 | | |
| Toluene | 50 | | 1 | ug/l | 50.0 | | 100 | 70-130 | | |
| 1,2,4-Trichlorobenzene | 53 | | 1 | ug/l | 50.0 | | 106 | 70-130 | | |
| 1,2,3-Trichlorobenzene | 55 | | 1 | ug/l | 50.0 | | 109 | 70-130 | | |
| 1,1,2-Trichloroethane | 47 | | 1 | ug/l | 50.0 | | 94.9 | 70-130 | | |
| 1,1,1-Trichloroethane | 49 | | 1 | ug/l | 50.0 | | 98.9 | 70-130 | | |
| Trichloroethene | 50 | | 1 | ug/l | 50.0 | | 99.4 | 70-130 | | |
| 1,2,3-Trichloropropane | 47 | | 1 | ug/l | 50.0 | | 94.2 | 70-130 | | |
| 1,3,5-Trimethylbenzene | 53 | | 1 | ug/l | 50.0 | | 106 | 70-130 | | |
| 1,2,4-Trimethylbenzene | 52 | | 1 | ug/l | 50.0 | | 103 | 70-130 | | |
| Vinyl Chloride | 58 | | 1 | ug/l | 50.0 | | 115 | 50-150 | | |
| o-Xylene | 50 | | 1 | ug/l | 50.0 | | 99.3 | 70-130 | | |
| m&p-Xylene | 100 | | 2 | ug/l | 100 | | 100 | 70-130 | | |
| 1,1,2,2-Tetrachloroethane | 49 | | 1 | ug/l | 50.0 | | 98.5 | 70-130 | | |
| tert-Amyl methyl ether | 47 | | 1 | ug/l | 50.0 | | 93.7 | 70-130 | | |
| 1,3-Dichloropropane | 51 | | 1 | ug/l | 50.0 | | 103 | 70-130 | | |
| Ethyl tert-butyl ether | 48 | | 1 | ug/l | 50.0 | | 96.5 | 70-130 | | |
| Trichlorofluoromethane | 53 | | 1 | ug/l | 50.0 | | 106 | 50-150 | | |
| Dichlorodifluoromethane | 68 | | 1 | ug/l | 50.0 | | 136 | 50-150 | | |
| *Surrogate: 4-Bromofluorobenzene* | | | *49.5* | ug/l | *50.0* | | *99.0* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | | | *49.4* | ug/l | *50.0* | | *98.9* | *70-130* | | |
| *Surrogate: Toluene-d8* | | | *50.5* | ug/l | *50.0* | | *101* | *70-130* | | |

## Volatile Organic Compounds (Continued)

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0522 - Purge-Trap (Continued)*** | | | | | | | | | | |
| **LCS Dup (B3F0522-BSD1)** | | | | | Prepared & Analyzed: 06/12/23 | | | | | |
| Acetone | 51 | | 5 | ug/l | 50.0 | | 102 | 50-150 | 5.13 | 20 |
| Benzene | 50 | | 1 | ug/l | 50.0 | | 101 | 70-130 | 0.178 | 20 |
| Bromobenzene | 50 | | 1 | ug/l | 50.0 | | 100 | 70-130 | 0.0399 | 20 |
| Bromochloromethane | 54 | | 1 | ug/l | 50.0 | | 108 | 70-130 | 3.71 | 20 |
| Bromodichloromethane | 52 | | 1 | ug/l | 50.0 | | 104 | 70-130 | 0.212 | 20 |
| Bromoform | 49 | | 1 | ug/l | 50.0 | | 98.6 | 70-130 | 0.406 | 20 |
| Bromomethane | 60 | | 1 | ug/l | 50.0 | | 121 | 50-150 | 7.38 | 20 |
| 2-Butanone | 50 | | 5 | ug/l | 50.0 | | 101 | 50-150 | 2.74 | 20 |
| tert-Butyl alcohol | 56 | | 5 | ug/l | 50.0 | | 113 | 70-130 | 0.936 | 20 |
| sec-Butylbenzene | 49 | | 1 | ug/l | 50.0 | | 97.6 | 70-130 | 0.511 | 20 |
| n-Butylbenzene | 53 | | 1 | ug/l | 50.0 | | 105 | 70-130 | 1.14 | 20 |
| tert-Butylbenzene | 48 | | 1 | ug/l | 50.0 | | 96.5 | 70-130 | 0.887 | 20 |
| Methyl t-butyl ether (MTBE) | 48 | | 1 | ug/l | 50.0 | | 95.3 | 70-130 | 0.822 | 20 |
| Carbon Disulfide | 42 | | 1 | ug/l | 50.0 | | 83.6 | 50-150 | 0.311 | 20 |
| Carbon Tetrachloride | 49 | | 1 | ug/l | 50.0 | | 97.2 | 70-130 | 0.513 | 20 |
| Chlorobenzene | 47 | | 1 | ug/l | 50.0 | | 94.2 | 70-130 | 0.888 | 20 |
| Chloroethane | 54 | | 1 | ug/l | 50.0 | | 107 | 50-150 | 0.168 | 20 |
| Chloroform | 50 | | 1 | ug/l | 50.0 | | 101 | 70-130 | 0.899 | 20 |
| Chloromethane | 57 | | 1 | ug/l | 50.0 | | 114 | 50-150 | 1.13 | 20 |
| 4-Chlorotoluene | 49 | | 1 | ug/l | 50.0 | | 98.9 | 70-130 | 0.765 | 20 |
| 2-Chlorotoluene | 47 | | 1 | ug/l | 50.0 | | 93.8 | 70-130 | 0.933 | 20 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 47 | | 1 | ug/l | 50.0 | | 93.6 | 70-130 | 0.873 | 20 |
| Dibromochloromethane | 52 | | 1 | ug/l | 50.0 | | 105 | 70-130 | 0.287 | 20 |
| 1,2-Dibromoethane (EDB) | 53 | | 1 | ug/l | 50.0 | | 106 | 70-130 | 0.892 | 20 |
| Dibromomethane | 55 | | 1 | ug/l | 50.0 | | 109 | 70-130 | 1.55 | 20 |
| 1,2-Dichlorobenzene | 50 | | 1 | ug/l | 50.0 | | 100 | 70-130 | 0.0995 | 20 |
| 1,3-Dichlorobenzene | 49 | | 1 | ug/l | 50.0 | | 97.9 | 70-130 | 0.428 | 20 |
| 1,4-Dichlorobenzene | 48 | | 1 | ug/l | 50.0 | | 96.0 | 70-130 | 1.16 | 20 |
| 1,1-Dichloroethane | 50 | | 1 | ug/l | 50.0 | | 101 | 70-130 | 0.514 | 20 |
| 1,2-Dichloroethane | 50 | | 1 | ug/l | 50.0 | | 99.4 | 70-130 | 0.682 | 20 |
| trans-1,2-Dichloroethene | 51 | | 1 | ug/l | 50.0 | | 101 | 70-130 | 0.633 | 20 |
| cis-1,2-Dichloroethene | 51 | | 1 | ug/l | 50.0 | | 102 | 70-130 | 1.19 | 20 |
| 1,1-Dichloroethene | 51 | | 1 | ug/l | 50.0 | | 102 | 70-130 | 1.99 | 20 |
| 1,2-Dichloropropane | 51 | | 1 | ug/l | 50.0 | | 101 | 70-130 | 0.668 | 20 |
| 2,2-Dichloropropane | 48 | | 1 | ug/l | 50.0 | | 96.2 | 70-130 | 2.32 | 20 |
| cis-1,3-Dichloropropene | 51 | | 1 | ug/l | 50.0 | | 102 | 70-130 | 0.254 | 20 |
| trans-1,3-Dichloropropene | 54 | | 1 | ug/l | 50.0 | | 107 | 70-130 | 2.41 | 20 |
| 1,1-Dichloropropene | 51 | | 1 | ug/l | 50.0 | | 102 | 70-130 | 0.00 | 20 |
| Diethyl ether | 54 | | 5 | ug/l | 50.0 | | 108 | 70-130 | 9.96 | 20 |
| 1,4-Dioxane | 224 | | 100 | ug/l | 250 | | 89.4 | 50-150 | 7.21 | 20 |
| Ethylbenzene | 50 | | 1 | ug/l | 50.0 | | 100 | 70-130 | 1.09 | 20 |
| Hexachlorobutadiene | 55 | | 1 | ug/l | 50.0 | | 109 | 70-130 | 0.220 | 20 |
| 2-Hexanone | 50 | | 5 | ug/l | 50.0 | | 99.8 | 50-150 | 4.08 | 20 |
| Isopropylbenzene | 49 | | 1 | ug/l | 50.0 | | 97.6 | 70-130 | 1.30 | 20 |
| p-Isopropyltoluene | 51 | | 1 | ug/l | 50.0 | | 102 | 70-130 | 0.510 | 20 |
| Methylene Chloride | 50 | | 1 | ug/l | 50.0 | | 101 | 70-130 | 0.159 | 20 |
| 4-Methyl-2-pentanone | 46 | | 5 | ug/l | 50.0 | | 91.2 | 50-150 | 0.372 | 20 |
| Naphthalene | 52 | | 1 | ug/l | 50.0 | | 104 | 70-130 | 1.66 | 20 |
| n-Propylbenzene | 50 | | 1 | ug/l | 50.0 | | 100 | 70-130 | 0.518 | 20 |
| Styrene | 52 | | 1 | ug/l | 50.0 | | 103 | 70-130 | 0.597 | 20 |
| 1,1,1,2-Tetrachloroethane | 50 | | 1 | ug/l | 50.0 | | 101 | 70-130 | 0.0794 | 20 |
| Tetrachloroethene | 50 | | 1 | ug/l | 50.0 | | 100 | 70-130 | 0.676 | 20 |
| Tetrahydrofuran | 49 | | 5 | ug/l | 50.0 | | 98.4 | 50-150 | 0.951 | 20 |
| Toluene | 50 | | 1 | ug/l | 50.0 | | 101 | 70-130 | 0.498 | 20 |
| 1,2,4-Trichlorobenzene | 54 | | 1 | ug/l | 50.0 | | 107 | 70-130 | 0.842 | 20 |
| 1,2,3-Trichlorobenzene | 55 | | 1 | ug/l | 50.0 | | 110 | 70-130 | 0.567 | 20 |
| 1,1,2-Trichloroethane | 48 | | 1 | ug/l | 50.0 | | 95.9 | 70-130 | 1.05 | 20 |

## Quality Control
**(Continued)**

### Volatile Organic Compounds (Continued)

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0522 - Purge-Trap (Continued)*** | | | | | | | | | | |
| **LCS Dup (B3F0522-BSD1)** | | | | | Prepared & Analyzed: 06/12/23 | | | | | |
| 1,1,1-Trichloroethane | 50 | | 1 | ug/l | 50.0 | | 99.3 | 70-130 | 0.464 | 20 |
| Trichloroethene | 50 | | 1 | ug/l | 50.0 | | 99.7 | 70-130 | 0.321 | 20 |
| 1,2,3-Trichloropropane | 47 | | 1 | ug/l | 50.0 | | 93.9 | 70-130 | 0.319 | 20 |
| 1,3,5-Trimethylbenzene | 53 | | 1 | ug/l | 50.0 | | 106 | 70-130 | 0.699 | 20 |
| 1,2,4-Trimethylbenzene | 51 | | 1 | ug/l | 50.0 | | 102 | 70-130 | 0.993 | 20 |
| Vinyl Chloride | 56 | | 1 | ug/l | 50.0 | | 113 | 50-150 | 2.42 | 20 |
| o-Xylene | 50 | | 1 | ug/l | 50.0 | | 99.0 | 70-130 | 0.242 | 20 |
| m&p-Xylene | 100 | | 2 | ug/l | 100 | | 100 | 70-130 | 0.240 | 20 |
| 1,1,2,2-Tetrachloroethane | 49 | | 1 | ug/l | 50.0 | | 97.7 | 70-130 | 0.795 | 20 |
| tert-Amyl methyl ether | 47 | | 1 | ug/l | 50.0 | | 94.0 | 70-130 | 0.341 | 20 |
| 1,3-Dichloropropane | 51 | | 1 | ug/l | 50.0 | | 103 | 70-130 | 0.214 | 20 |
| Ethyl tert-butyl ether | 48 | | 1 | ug/l | 50.0 | | 96.6 | 70-130 | 0.0829 | 20 |
| Trichlorofluoromethane | 53 | | 1 | ug/l | 50.0 | | 105 | 50-150 | 1.12 | 20 |
| Dichlorodifluoromethane | 67 | | 1 | ug/l | 50.0 | | 133 | 50-150 | 1.58 | 20 |
| *Surrogate: 4-Bromofluorobenzene* | | | *50.4* | ug/l | *50.0* | | *101* | *70-130* | | |
| *Surrogate: 1,2-Dichloroethane-d4* | | | *50.0* | ug/l | *50.0* | | *100* | *70-130* | | |
| *Surrogate: Toluene-d8* | | | *51.3* | ug/l | *50.0* | | *103* | *70-130* | | |

### Extractable Petroleum Hydrocarbons (MADEP-EPH)

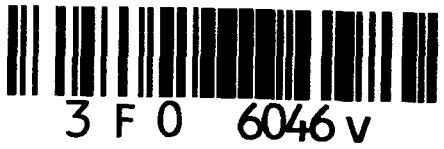
| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0309 - 2_Sep-Funnel-extraction (Aqueous)*** | | | | | | | | | | |
| **Blank (B3F0309-BLK1)** | | | | | Prepared: 06/07/23 Analyzed: 06/09/23 | | | | | |
| Unadjusted C11-C22 Aromatic Hydrocarbons | ND | | 100 | ug/l | | | | | | |
| Naphthalene | ND | | 1.0 | ug/l | | | | | | |
| 2-Methylnaphthalene | ND | | 1.0 | ug/l | | | | | | |
| Phenanthrene | ND | | 1.0 | ug/l | | | | | | |
| Acenaphthene | ND | | 5.0 | ug/l | | | | | | |
| Acenaphthylene | ND | | 1.0 | ug/l | | | | | | |
| Fluorene | ND | | 5.0 | ug/l | | | | | | |
| Anthracene | ND | | 5.0 | ug/l | | | | | | |
| Fluoranthene | ND | | 5.0 | ug/l | | | | | | |
| Pyrene | ND | | 5.0 | ug/l | | | | | | |
| Benzo(a)anthracene | ND | | 1.0 | ug/l | | | | | | |
| Chrysene | ND | | 2.0 | ug/l | | | | | | |
| Benzo(b)fluoranthene | ND | | 1.0 | ug/l | | | | | | |
| Benzo(k)fluoranthene | ND | | 1.0 | ug/l | | | | | | |
| Benzo(a)pyrene | ND | | 0.2 | ug/l | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | | 0.5 | ug/l | | | | | | |
| Dibenz(a,h)anthracene | ND | | 0.5 | ug/l | | | | | | |
| Benzo(g,h,i)perylene | ND | | 5.0 | ug/l | | | | | | |
| C9-C18 Aliphatic Hydrocarbons | ND | | 200 | ug/l | | | | | | |
| C19-C36 Aliphatic Hydrocarbons | ND | | 200 | ug/l | | | | | | |
| C11-C22 Aromatic Hydrocarbons | ND | | 100 | ug/l | | | | | | |
| *Surrogate: Chlorooctadecane* | | | *83.4* | ug/l | *125* | | *66.7* | *40-140* | | |
| *Surrogate: o-Terphenyl* | | | *88.2* | ug/l | *125* | | *70.6* | *40-140* | | |
| *Surrogate: 2-Fluorobiphenyl* | | | *43.3* | ug/l | *50.0* | | *86.7* | *40-140* | | |
| *Surrogate: 2-Bromonaphthalene* | | | *42.1* | ug/l | *50.0* | | *84.2* | *40-140* | | |
| **LCS (B3F0309-BS1)** | | | | | Prepared: 06/07/23 Analyzed: 06/09/23 | | | | | |
| Naphthalene | 29.6 | | 1.0 | ug/l | 40.0 | | 74.0 | 40-140 | | |
| 2-Methylnaphthalene | 28.7 | | 1.0 | ug/l | 40.0 | | 71.8 | 40-140 | | |
| Phenanthrene | 29.0 | | 1.0 | ug/l | 40.0 | | 72.4 | 40-140 | | |
| Acenaphthene | 32.9 | | 5.0 | ug/l | 40.0 | | 82.3 | 40-140 | | |
| Acenaphthylene | 29.9 | | 1.0 | ug/l | 40.0 | | 74.7 | 40-140 | | |
| Fluorene | 30.2 | | 5.0 | ug/l | 40.0 | | 75.4 | 40-140 | | |
| Anthracene | 34.1 | | 5.0 | ug/l | 40.0 | | 85.3 | 40-140 | | |
| Fluoranthene | 35.9 | | 5.0 | ug/l | 40.0 | | 89.8 | 40-140 | | |
| Pyrene | 36.0 | | 5.0 | ug/l | 40.0 | | 90.0 | 40-140 | | |
| Benzo(a)anthracene | 30.9 | | 1.0 | ug/l | 40.0 | | 77.2 | 40-140 | | |
| Chrysene | 41.8 | | 2.0 | ug/l | 40.0 | | 104 | 40-140 | | |
| Benzo(b)fluoranthene | 32.2 | | 1.0 | ug/l | 40.0 | | 80.6 | 40-140 | | |
| Benzo(k)fluoranthene | 41.5 | | 1.0 | ug/l | 40.0 | | 104 | 40-140 | | |
| Benzo(a)pyrene | 36.4 | | 0.2 | ug/l | 40.0 | | 91.0 | 40-140 | | |
| Indeno(1,2,3-cd)pyrene | 29.8 | | 0.5 | ug/l | 40.0 | | 74.6 | 40-140 | | |
| Dibenz(a,h)anthracene | 46.0 | | 0.5 | ug/l | 40.0 | | 115 | 40-140 | | |
| Benzo(g,h,i)perylene | 39.1 | | 5.0 | ug/l | 40.0 | | 97.8 | 40-140 | | |
| Nonane | 16.5 | | 5.0 | ug/l | 40.0 | | 41.4 | 30-140 | | |
| Decane | 21.0 | | 5.0 | ug/l | 40.0 | | 52.6 | 40-140 | | |
| Dodecane | 24.4 | | 5.0 | ug/l | 40.0 | | 61.0 | 40-140 | | |
| Tetradecane | 23.4 | | 5.0 | ug/l | 40.0 | | 58.6 | 40-140 | | |
| Hexadecane | 24.2 | | 5.0 | ug/l | 40.0 | | 60.4 | 40-140 | | |
| Octadecane | 25.7 | | 5.0 | ug/l | 40.0 | | 64.2 | 40-140 | | |
| Nonadecane | 26.9 | | 5.0 | ug/l | 40.0 | | 67.3 | 40-140 | | |
| Eicosane | 28.0 | | 5.0 | ug/l | 40.0 | | 70.0 | 40-140 | | |
| Docosane | 30.0 | | 5.0 | ug/l | 40.0 | | 74.9 | 40-140 | | |
| Tetracosane | 30.8 | | 5.0 | ug/l | 40.0 | | 76.9 | 40-140 | | |
| Hexacosane | 31.0 | | 5.0 | ug/l | 40.0 | | 77.4 | 40-140 | | |
| Octacosane | 31.3 | | 5.0 | ug/l | 40.0 | | 78.2 | 40-140 | | |
| Triacontane | 31.7 | | 5.0 | ug/l | 40.0 | | 79.2 | 40-140 | | |

### Extractable Petroleum Hydrocarbons (MADEP-EPH) (Continued)

| Analyte | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B3F0309 - 2_Sep-Funnel-extraction (Aqueous) (Continued)*** | | | | | | | | | | |
| **LCS (B3F0309-BS1)** | | | | | Prepared: 06/07/23 Analyzed: 06/09/23 | | | | | |
| Hexatriacontane | 32.6 | | 5.0 | ug/l | 40.0 | | 81.4 | 40-140 | | |
| EPH_LCS_Aliphatic_C19-C36 | 242 | | 0.0 | ug/l | 320 | | 75.7 | 40-140 | | |
| EPH_LCS_Aliphatic_C9-C18 | 135 | | 0.0 | ug/l | 240 | | 56.4 | 40-140 | | |
| EPH_LCS_Aromatic_C11-C22 | 584 | | 0.0 | ug/l | 680 | | 85.9 | 40-140 | | |
| *Surrogate: Chlorooctadecane* | | | *81.0* | ug/l | *125* | | *64.8* | *40-140* | | |
| *Surrogate: o-Terphenyl* | | | *115* | ug/l | *125* | | *91.8* | *40-140* | | |
| *Surrogate: 2-Fluorobiphenyl* | | | *53.4* | ug/l | *50.0* | | *107* | *40-140* | | |
| *Surrogate: 2-Bromonaphthalene* | | | *49.3* | ug/l | *50.0* | | *98.6* | *40-140* | | |
| **LCS Dup (B3F0309-BSD1)** | | | | | Prepared: 06/07/23 Analyzed: 06/09/23 | | | | | |
| Naphthalene | 25.6 | | 1.0 | ug/l | 40.0 | | 64.1 | 40-140 | 14.3 | 25 |
| 2-Methylnaphthalene | 24.8 | | 1.0 | ug/l | 40.0 | | 62.0 | 40-140 | 14.7 | 25 |
| Phenanthrene | 26.7 | | 1.0 | ug/l | 40.0 | | 66.7 | 40-140 | 8.20 | 25 |
| Acenaphthene | 29.3 | | 5.0 | ug/l | 40.0 | | 73.2 | 40-140 | 11.7 | 25 |
| Acenaphthylene | 26.9 | | 1.0 | ug/l | 40.0 | | 67.2 | 40-140 | 10.7 | 25 |
| Fluorene | 27.5 | | 5.0 | ug/l | 40.0 | | 68.8 | 40-140 | 9.22 | 25 |
| Anthracene | 32.7 | | 5.0 | ug/l | 40.0 | | 81.6 | 40-140 | 4.40 | 25 |
| Fluoranthene | 32.8 | | 5.0 | ug/l | 40.0 | | 82.1 | 40-140 | 8.96 | 25 |
| Pyrene | 33.5 | | 5.0 | ug/l | 40.0 | | 83.8 | 40-140 | 7.25 | 25 |
| Benzo(a)anthracene | 28.3 | | 1.0 | ug/l | 40.0 | | 70.7 | 40-140 | 8.73 | 25 |
| Chrysene | 40.0 | | 2.0 | ug/l | 40.0 | | 100 | 40-140 | 4.26 | 25 |
| Benzo(b)fluoranthene | 29.5 | | 1.0 | ug/l | 40.0 | | 73.7 | 40-140 | 8.98 | 25 |
| Benzo(k)fluoranthene | 40.6 | | 1.0 | ug/l | 40.0 | | 101 | 40-140 | 2.36 | 25 |
| Benzo(a)pyrene | 33.8 | | 0.2 | ug/l | 40.0 | | 84.5 | 40-140 | 7.43 | 25 |
| Indeno(1,2,3-cd)pyrene | 27.5 | | 0.5 | ug/l | 40.0 | | 68.7 | 40-140 | 8.27 | 25 |
| Dibenz(a,h)anthracene | 38.4 | | 0.5 | ug/l | 40.0 | | 96.1 | 40-140 | 18.0 | 25 |
| Benzo(g,h,i)perylene | 35.6 | | 5.0 | ug/l | 40.0 | | 89.0 | 40-140 | 9.42 | 25 |
| Nonane | 14.9 | | 5.0 | ug/l | 40.0 | | 37.2 | 30-140 | 10.5 | 25 |
| Decane | 19.6 | | 5.0 | ug/l | 40.0 | | 49.0 | 40-140 | 7.24 | 25 |
| Dodecane | 23.5 | | 5.0 | ug/l | 40.0 | | 58.8 | 40-140 | 3.67 | 25 |
| Tetradecane | 22.6 | | 5.0 | ug/l | 40.0 | | 56.6 | 40-140 | 3.39 | 25 |
| Hexadecane | 23.4 | | 5.0 | ug/l | 40.0 | | 58.6 | 40-140 | 3.11 | 25 |
| Octadecane | 24.8 | | 5.0 | ug/l | 40.0 | | 61.9 | 40-140 | 3.69 | 25 |
| Nonadecane | 25.7 | | 5.0 | ug/l | 40.0 | | 64.2 | 40-140 | 4.72 | 25 |
| Eicosane | 26.4 | | 5.0 | ug/l | 40.0 | | 66.1 | 40-140 | 5.80 | 25 |
| Docosane | 27.6 | | 5.0 | ug/l | 40.0 | | 69.0 | 40-140 | 8.27 | 25 |
| Tetracosane | 28.1 | | 5.0 | ug/l | 40.0 | | 70.3 | 40-140 | 8.96 | 25 |
| Hexacosane | 28.4 | | 5.0 | ug/l | 40.0 | | 70.9 | 40-140 | 8.80 | 25 |
| Octacosane | 29.0 | | 5.0 | ug/l | 40.0 | | 72.6 | 40-140 | 7.40 | 25 |
| Triacontane | 28.5 | | 5.0 | ug/l | 40.0 | | 71.4 | 40-140 | 10.4 | 25 |
| Hexatriacontane | 28.4 | | 5.0 | ug/l | 40.0 | | 71.0 | 40-140 | 13.6 | 25 |
| EPH_LCS_Aliphatic_C19-C36 | 222 | | 0.0 | ug/l | 320 | | 69.4 | 40-140 | 8.60 | 25 |
| EPH_LCS_Aliphatic_C9-C18 | 129 | | 0.0 | ug/l | 240 | | 53.7 | 40-140 | 4.88 | 25 |
| EPH_LCS_Aromatic_C11-C22 | 533 | | 0.0 | ug/l | 680 | | 78.4 | 40-140 | 9.08 | 25 |
| *Surrogate: Chlorooctadecane* | | | *77.5* | ug/l | *125* | | *62.0* | *40-140* | | |
| *Surrogate: o-Terphenyl* | | | *105* | ug/l | *125* | | *84.0* | *40-140* | | |
| *Surrogate: 2-Fluorobiphenyl* | | | *48.5* | ug/l | *50.0* | | *96.9* | *40-140* | | |
| *Surrogate: 2-Bromonaphthalene* | | | *30.0* | ug/l | *50.0* | | *59.9* | *40-140* | | |

## Notes and Definitions

| Item | Definition |
|---|---|
| Wet | Sample results reported on a wet weight basis. |
| ND | Analyte NOT DETECTED at or above the reporting limit. |




**New England Testing Laboratory**
59 Greenhill Street
West Warwick, RI 02893
1-888-863-8522

# Chain of Custody Record

Project No.: 23144
Project Name/Location: 350 Mariano Bishop Blvd. Fall River, MA
Client: Geological Field Services. (GFS) 14 Hubon St. Salem, MA 01970
Report To: Luke Fabbri lafabbrigfs@hotmail.com
Invoice To: Same as above

| Date | Time | Comp | Grab | Sample I.D. | Matrix: Aqueous | Matrix: Soil | Matrix: Other | No. of Containers | Preservative | Tests**: EPH | Tests**: VOC 8260 | Tests**: MCP-14 Metals Dissolved |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/5/2023 | 1255 | | X | GFS-1 | X | | | 5 | HCl/HNO3 | X | X | X |
| 6/5/2023 | 1000 | | X | GFS-2 | X | | | 5 | HCl/HNO3 | X | X | X |
| 6/5/2023 | 1405 | | X | GFS-3 | X | | | 5 | HCl/HNO3 | X | X | X |
| 6/5/2023 | 1515 | | X | GFS-4 | X | | | 5 | HCl/HNO3 | X | X | X |
| 6/5/2023 | 1185 | | X | GFS-5 | X | | | 5 | HCl/HNO3 | X | X | X |

| | | | | |
|---|---|---|---|---|
| Sampled By: | Date/Time: 6/6/23 0700 | Received By: | Date/Time: 6623 13:00 | Laboratory Remarks: Temp. Received: 6 |
| Relinquished By: | Date/Time: 6623 16:15 | Received By: | Date/Time: 6-6-23 16:15 | |

Special Instructions:
**MCP-14 Metals have been filtered in field**

**Netlab Subcontracts the following tests: Radiologicals, Radon, TOC, Asbestos, UCMRs, Perchlorate, Bromate, Bromide, Sieve, Salmonella, Carbamates

Turnaround Time [Business Days]: **5**

## MassDEP Analytical Protocol Certification Form

Laboratory Name: New England Testing Laboratory, Inc. Project #: 23144

Project Location: Fall River, MA RTN:

**This Form provides certifications for the following data set: list Laboratory Sample ID Number(s): 3F06046**

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

**CAM Protocol** (check all that apply below):

| | | | | | |
|---|---|---|---|---|---|
| 8260 VOC CAM II A ☒ | 7470/7471 Hg CAM III B ☒ | MassDEP VPH (GC/PID/FID) CAM IV A ☐ | 8082 PCB CAM V A ☐ | 9014 Total Cyanide/PAC CAM VI A ☐ | 6860 Perchlorate CAM VIII B ☐ |
| 8270 SVOC CAM II B ☐ | 7010 Metals CAM III C ☐ | MassDEP VPH (GC/MS) CAM IV C ☐ | 8081 Pesticides CAM V B ☐ | 7196 Hex Cr CAM VI B ☐ | MassDEP APH CAM IX A ☐ |
| 6010 Metals CAM III A ☒ | 6020 Metals CAM III D ☐ | MassDEP EPH CAM IV B ☒ | 8151 Herbicides CAM V C ☐ | 8330 Explosives CAM VIII A ☐ | TO-15 VOC CAM IX B ☐ |

***Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status***

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

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

| | | |
|---|---|---|
| **G** | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)? | ☒ Yes ☐ No[1] |

***Data User Note*: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

| | | |
|---|---|---|
| **H** | Were **all** QC performance standards specified in the CAM protocol(s) achieved? | ☒ Yes ☐ No[1] |
| **I** | Were results reported for the complete analyte list specified in the selected CAM protocol(s)? | ☒ Yes ☐ No[1] |

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

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

**Signature**: _____ **Position:** Laboratory Director

**Printed Name:** Richard Warila **Date**: 6/14/2023

# APPENDIX D

# Geological Field Services, Inc.
## Low Flow Well Sampling Data

Project ID: 23144 Well Number: GFS-1
Location: 350 Mariano Bishop Blvd, Fall River, MA Date: 6/5/23
Sampler: Nick Federico Time: 1143
Weather: Overcast 57°F

| | | | | | |
|---|---|---|---|---|---|
| Protective Casing Present | (Y) | N | Cement Pad Present | (Y) | N |
| Protective Casing Locked | Y | (N) | Standing Water | Y | (N) |
| Cap on Well Riser | (Y) | N | Visible Heaving | Y | (N) |
| Physical Damage | Y | (N) | Visible Subsidence | Y | (N) |

Comment: 2" well, 3/4" Hydrolift Soft bottom
up from parking area near large sign for business

Depth to Water: 6.67 Type of Protective Casing: (RB) SU
Depth to Product: - Measuring Point: (TOC) TPC
Total Depth: 18.55
Water Column: 11.88 Well Volume: 1.94

Development/Purge Device: Geotech Pump

| Time 24 Hrs. | Temp Celsius | D.O. mg/L | S.C. umhos/cm | pH su units | ORP mV | Turbidity NTU | Drawdown feet | Purge gal. |
|---|---|---|---|---|---|---|---|---|
| 1152 | 14.0 | 0.17 | 3390 | 6.44 | -80.9 | — | 0.1 | 0 |
| 1157 | 14.1 | 0.07 | 3337 | 6.46 | -109.1 | 69 | 0.1 | 0.5 |
| 1202 | 14.1 | 0.05 | 3351 | 6.49 | -128.7 | 47.2 | 0.1 | 1.0 |
| 1207 | 14.1 | 0.04 | 3347 | 6.49 | -141.5 | 34.1 | 0.1 | 1.5 |
| 1212 | 14.1 | 0.03 | 3268 | 6.50 | -149.8 | 24.6 | 0.1 | 2.0 |
| 1217 | 14.2 | 0.03 | 3358 | 6.50 | -155.9 | 22.1 | 0.1 | 2.5 |
| 1222 | 14.1 | 0.03 | 3336 | 6.50 | -160.0 | 21.4 | 0.1 | 3 |
| 1227 | 14.5 | 0.07 | 3281 | 6.50 | -163.9 | 19.88 | 0.1 | 3.25 |
| 1232 | 14.6 | 0.08 | 3236 | 6.50 | -165.9 | 17.56 | 0.1 | 3.5 |
| 1237 | 14.7 | 0.07 | 3239 | 6.50 | -167.8 | 20.8 | 0.1 | ~~3.75~~ |
| 1242 | 14.7 | 0.06 | 3243 | 6.50 | -169.9 | 20.5 | 0.1 | 4 |
| 1247 | 14.6 | 0.06 | 3239 | 6.51 | -171.3 | 20.7 | 0.1 | 4.25 |
| 1252 | 14.5 | 0.06 | 3248 | 6.51 | -173.4 | 20.1 | 0.1 | 4.5 |

Color: clear, pale grey Sheen: Y (N)
Odor: none, solvents Turbidity: (L) M H VH
Volume Purged: ~4.5
Duration: 1 hr

**Sample Collection** Date: 6/5/23 Time: 1255

Remarks: EPH, VOC 8260, MCP-14 Metals Dissolved
All stable

Signature of Sampler: NF

# Geological Field Services, Inc.
## Low Flow Well Sampling Data

Project ID: 23144 Well Number: GFS-2
Location: 350 Mariano Bishop Blvd, Fall River, MA Date: 6/5/23
Sampler: Nick Federico Time: 840
Weather: Overcast 57°F

Protective Casing Present (Y) N Cement Pad Present (Y) N
Protective Casing Locked Y (N) Standing Water Y (N)
Cap on Well Riser (Y) N Visible Heaving Y (N)
Physical Damage Y (N) Visible Subsidence Y (N)

Comment: 2" well, 3/4" Hex Bolt
Side parking area by Mariano Bishop Blvd.

Depth to Water: 6.20 Type of Protective Casing: (RR) SU
Depth to Product: - Measuring Point: (TOC) TPC
Total Depth: 14.10
Water Column: 7.90 Well Volume: 1.29

Development/Purge Device: Geotech Pump

| Time 24 Hrs. | Temp Celsius | D.O. mg/L | S.C. umhos/cm | pH su units | ORP mV | Turbidity NTU | Drawdown feet | Purge gal. |
|---|---|---|---|---|---|---|---|---|
| 855 | 13.9 | 10.3 | 502 | 6.96 | -135.0 | — | 0.1 | 0 |
| 900 | 14.1 | 3.97 | 551 | 6.91 | -171.3 | 191 | 1.0 | 0.75 |
| 905 | 14.1 | 3.22 | 559 | 6.80 | -152.8 | 229 | 1.0 | 1.5 |
| 910 | 14.1 | 0.65 | 552 | 6.47 | -153.4 | 150 | 0.4 | 1.95 |
| 915 | 14.1 | 0.23 | 551 | 6.46 | -141.4 | 147 | 0.5 | 2.0 |
| 920 | 14.3 | 0.11 | 555 | 6.47 | -150.7 | 112 | 0.5 | 2.5 |
| 925 | 14.2 | 0.13 | 555 | 6.47 | -152.7 | 79.6 | 0.5 | 2.75 |
| 930 | 14.3 | 0.15 | 554 | 6.47 | -152.4 | 50.8 | 0.5 | 3.0 |
| 935 | 14.3 | 0.13 | 551 | 6.46 | -155.0 | 39.2 | 0.5 | 3.25 |
| * 940 | 14.3 | 0.12 | 551 | 6.47 | -156.4 | 63.9 | | 3.5 |
| 945 | 14.4 | 0.15 | 552 | 6.47 | -156.4 | 82.4 | | 3.75 |
| 950 | 14.3 | 0.16 | 551 | 6.47 | -157.0 | 83.7 | | 4.0 |
| 955 | 14.3 | 0.15 | 551 | 6.47 | -157.5 | 96.3 | ↓ | 4.25 |

Color: Clear, pale grey Sheen: Y (N)
Odor: Rubber, Metallic Turbidity: L (M) H VH
Volume Purged: 4.25
Duration: 1hr

Sample Collection Date: 6/5/23 Time: 1000

Remarks: EPH, VOC 8260, MCP-14 Metals Dissolved
@ 940 NTU increased on its own. All else ok

Signature of Sampler: N

# Geological Field Services, Inc.
## Low Flow Well Sampling Data

Project ID: 23144 Well Number: GFS-3
Location: 350 Mariano Bishop Blvd. Fall River, MA Date: 6/5/23
Sampler: Nick Federico Time: 1310
Weather: Cloudy, sun, 60°F

| | | | | | |
|---|---|---|---|---|---|
| Protective Casing Present | (Y) | N | Cement Pad Present | (Y) | N |
| Protective Casing Locked | Y | (N) | Standing Water | Y | (N) |
| Cap on Well Riser | (Y) | N | Visible Heaving | Y | (N) |
| Physical Damage | Y | (N) | Visible Subsidence | Y | (N) |

Comment: 2" well, 3/4" Hydrolift Soft bottom
Back of building by Amity St

Depth to Water: 5.17
Depth to Product: NA
Total Depth: 14.21
Water Column: 9.09

Type of Protective Casing: (RB) SU
Measuring Point: (TOC) TPC

Well Volume: 1.50

Development/Purge Device: Geotech Pump

| Time 24 Hrs. | Temp Celsius | D.O. mg/L | S.C. umhos/cm | pH su units | ORP mV | Turbidity NTU | Drawdown feet | Purge gal. |
|---|---|---|---|---|---|---|---|---|
| 1320 | 16.4 | 0.14 | 1234 | 6.09 | -86.5 | — | 0.1 | 0 |
| 1325 | 16.5 | 0.05 | 1208 | 6.48 | -103.4 | 27.2 | 0.1 | 0.5 |
| 1330 | 16.4 | 0.04 | 1206 | 6.47 | -111.1 | 20.8 | 0.1 | 1.0 |
| 1335 | 16.3 | 0.04 | 1206 | 6.46 | -118.6 | 14.36 | 0.1 | 1.5 |
| 1340 | 16.3 | 0.03 | 1205 | 6.46 | -122.8 | 12.20 | 0.1 | 2.0 |
| 1345 | 16.3 | 0.03 | 1205 | 6.46 | -126.5 | 11.38 | 0.1 | 2.5 |
| 1350 | 16.5 | 0.04 | 1205 | 6.45 | -129.6 | 10.12 | 0.1 | 3.0 |
| 1355 | 16.5 | 0.04 | 1204 | 6.45 | -132.0 | 9.38 | 0.1 | 3.5 |
| 1400 | 16.6 | 0.04 | 1204 | 6.45 | -133.8 | 7.77 | 0.1 | 3.75 |
| 1405 | 16.6 | 0.04 | 1205 | 6.44 | -135.8 | 6.18 | 0.1 | 3.5 |
| 1410 | 16.4 | 0.04 | 1204 | 6.44 | -137.9 | 5.96 | 0.1 | 3.75 |
| 1415 | 16.5 | 0.04 | 1204 | 6.44 | -139.7 | 7.87 | 0.1 | 4.0 |
| 1420 | 16.5 | 0.04 | 1204 | 6.44 | -140.1 | 6.92 | 0.1 | 4.25 |

Color: Clear Sheen: Y (N) Volume Purged: 4.25
Odor: no Turbidity: (L) M H VH Duration: 1hr

**Sample Collection** Date: 6/5/23 Time: 1425

Remarks: EPH, VOC 8260, MCP-14 Metals Dissolved
All stable NTU reading stability

Signature of Sampler: NF

# Geological Field Services, Inc.
## Low Flow Well Sampling Data

Project ID: 23144 Well Number: GFS-4
Location: 350 Mariano Bishop Blvd. Fall River, MA Date: 6/5/23
Sampler: Nick Federico Time: 1430
Weather: Cloudy 60°F

| | | | | | |
|---|---|---|---|---|---|
| Protective Casing Present | (Y) | N | Cement Pad Present | (Y) | N |
| Protective Casing Locked | Y | (N) | Standing Water | Y | (N) |
| Cap on Well Riser | (Y) | N | Visible Heaving | Y | (N) |
| Physical Damage | Y | (N) | Visible Subsidence | Y | (N) |

Comment: 3/4" Hel Bat, 2" well
Behind building by loading Dock

Depth to Water: 7.00
Depth to Product: -
Total Depth: 14.15
Water Column: 7.15

Type of Protective Casing: (RB) SU
Measuring Point: TOC TPC

Well Volume: 1.17

Development/Purge Device: Geotech Pump

| Time 24 Hrs. | Temp Celsius | D.O. mg/L | S.C. umhos/cm | pH su units | ORP mV | Turbidity NTU | Drawdown feet | Purge gal. |
|---|---|---|---|---|---|---|---|---|
| 1441 | 14.5 | 0.24 | 600 | 6.78 | -44.8 | — | 0.1 | 0 |
| 1446 | 13.8 | 0.06 | 589 | 6.71 | -76.5 | 37.4 | 0.1 | 0.5 |
| 1451 | 13.6 | 0.041 | 5.87 | 6.72 | -100.0 | 33.0 | 0.1 | 1.0 |
| 1456 | 13.3 | 0.03 | 586 | 6.73 | -114.4 | 22.4 | 0.1 | 1.5 |
| 1501 | 13.3 | 0.03 | 585 | 6.73 | -120.1 | 15.4 | 0.1 | 2.0 |
| 1506 | 13.6 | 0.02 | 585 | 6.75 | -135.6 | 11.93 | 0.1 | 2.5 |
| 1511 | 13.7 | 0.02 | 584 | 6.76 | -142.3 | 9.62 | 0.1 | 3.0 |
| 1516 | 13.6 | 0.02 | 5.84 | 6.71 | -146.4 | 7.39 | 0.1 | 3.25 |
| 1521 | 13.7 | 0.01 | 5.83 | 6.78 | -151.1 | 5.29 | 0.1 | 3.5 |
| 1526 | 13.7 | 0.02 | 5.83 | 6.77 | -154.4 | 4.38 | | 3.75 |
| 1531 | 13.6 | 0.03 | 5.83 | 6.79 | -157.3 | 4.19 | | 4.0 |
| 1536 | 13.6 | 0.04 | 582 | 6.79 | -159.2 | 3.92 | | 4.25 |
| 1541 | | | | | | | | 4.5 |

No decrease for SC

Color: clear Sheen: Y (N) Volume Purged: 4.5
Odor: faint sewerage Turbidity: (L) M H VH Duration: 1hr.

**Sample Collection** Date: 6/5/23 Time: 1545

Remarks: **EPH, VOC 8260, MCP-14 Metals Dissolved**

Signature of Sampler: NF

# Geological Field Services, Inc.
## Low Flow Well Sampling Data

Project ID: 23144 Well Number: GFS-5
Location: 350 Mariano Bishop Blvd. Fall River, MA Date: 6/5/23
Sampler: Nick Federico Time: 1010
Weather: Overcast 55°F

| | | | | | |
|---|---|---|---|---|---|
| Protective Casing Present | (Y) | N | Cement Pad Present | (Y) | N |
| Protective Casing Locked | Y | (N) | Standing Water | Y | (N) |
| Cap on Well Riser | (Y) | N | Visible Heaving | Y | (N) |
| Physical Damage | Y | (N) | Visible Subsidence | Y | (N) |

Comment: 2" well, 3/4" HexBolt
grassy field/lot by Newton st.

Depth to Water: 6.70 Type of Protective Casing: (RB) SU
Depth to Product: X Measuring Point: (TOC) TPC
Total Depth: 14.20
Water Column: ~~14.20~~ 7.50 Well Volume: 7.1.23

Development/Purge Device: Geotech Pump

| Time 24 Hrs. | Temp Celsius | D.O. mg/L | S.C. umhos/cm | pH su units | ORP mV | Turbidity NTU | Drawdown feet | Purge gal. |
|---|---|---|---|---|---|---|---|---|
| 1023 | 12.1 | 0.06 | 694 | 6.52 | -82.1 | 67.8 | 0.1 | 0 |
| 1028 | 12.1 | 0.12 | 696 | 6.41 | -104.4 | 38.7 | 0.1 | 0.25 |
| 1033 | 12.1 | 0.09 | 700 | 6.41 | -120.7 | 28.1 | 0.1 | 0.5 |
| 1038 | 12.1 | 0.08 | 702 | 6.40 | -130.1 | 27.7 | 0.1 | 0.9 |
| 1043 | 12.2 | 0.06 | 702 | 6.40 | -136.9 | 23.1 | 0.1 | 1.25 |
| 1048 | 12.2 | 0.06 | 703 | 6.40 | -141.8 | 21.5 | 0.1 | 1.75 |
| 1053 | 12.0 | 0.05 | 705 | 6.40 | -146.2 | 28.5 | 0.1 | 2.25 |
| 1058 | 12.1 | 0.08 | 703 | 6.41 | -148.9 | 22.1 | 0.1 | 2.5 |
| 1103 | 12.0 | 0.08 | 704 | 6.40 | -151.5 | 15.1 | 0.1 | 2.75 |
| 1108 | 12.2 | 0.05 | 704 | 6.40 | -154.3 | 16.0 | 0.1 | 3.0 |
| 1113 | 12.4 | 0.05 | 705 | 6.40 | -155.8 | 13.6 | 0.1 | 3.25 |
| 1118 | 12.3 | 0.05 | 705 | 6.41 | -157.3 | 9.58 | 0.1 | 3.5 |
| 1123 | 12.3 | 0.05 | 706 | 6.41 | -158.7 | 9.62 | 0.1 | 3.75 |

Color: clear Sheen: Y (N) Volume Purged: 3.75
Odor: rubber/solvent Turbidity: (L) M H VH Duration: 1hr

**Sample Collection** Date: 6/5/23 Time: 1125

Remarks: **EPH, VOC 8260, MCP-14 Metals Dissolved**

Signature of Sampler: NF

**New England Testing Laboratory**
59 Greenhill Street
West Warwick, RI 02893
1-888-863-8522

# Chain of Custody Record

| Project No. 23144 | Project Name/Location: 350 Mariano Bishop Blvd. Fall River, MA | | | | Matrix | | | | | Tests** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Client: Geological Field Services. (GFS) 14 Hubon St. Salem, MA 01970 | | | | | | | | | | | | | | | | | |
| Report To: Luke Fabbri lafabbri.gfs@hotmail.com | | | | | | | | | | | | | | | | | |
| Invoice To: Same as above | | | | | Aqueous | Soil | Other | No. of Containers | Preservative | EPH | VOC 8260 | MCP-14 Metals Dissolved | | | | | |
| Date | Time | Comp | Grab | Sample I.D. | | | | | | | | | | | | | |
| 6/5/2023 | 1255 | | X | GFS-1 | X | | | 5 | HCl / HNO3 | X | X | X | | | | | |
| 6/5/2023 | 1000 | | X | GFS-2 | X | | | 5 | HCl / HNO3 | X | X | X | | | | | |
| 6/5/2023 | 1485 | | X | GFS-3 | X | | | 5 | HCl / HNO3 | X | X | X | | | | | |
| 6/5/2023 | 1545 | | X | GFS-4 | X | | | 5 | HCl / HNO3 | X | X | X | | | | | |
| 6/5/2023 | 1125 | | X | GFS-5 | X | | | 5 | HCl / HNO3 | X | X | X | | | | | |
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| Sampled By: | Date/Time | Received By: | Date/Time | Laboratory Remarks: | Special Instructions: |
|---|---|---|---|---|---|
| [signature] | 6/6/23 0700 | | | Temp. Received:_____ | **MCP-14 Metals have been filtered in field** |
| Relinquished By: | Date/Time | Received By: | Date/Time | | |
| | | | | | |

**Netlab Subcontracts the following tests: Radiologicals, Radon, TOC, Asbestos, UCMRs, Perchlorate, Bromate, Bromide, Sieve, Salmonella, Carbamates

Turnaround Time [Business Days]: **5**