August Mack
ENVIRONMENTAL

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4401 Rockside Road, Suite 300 ▪ Independence, Ohio 44131

March 31, 2025

Mr. Christopher Biro
Ohio Environmental Protection Agency
Northwest District Office
2110 East Aurora Road
Twinsburg, Ohio 44087

Re: TCE Interim Measure Implementation Report
Material Sciences Corporation
460 West Main Street
Canfield, Ohio
OHD000810283
August Mack Project Number JY2380.372

Dear Mr. Biro:

August Mack Environmental, Inc. (August Mack), on behalf of Material Sciences Corporation (MSC), is submitting this Trichloroethene (TCE) Interim Measure Implementation Report for the MSC facility located at 460 West Main Street, Canfield, Ohio (Site). This report includes pertinent Site background information, a description of recent field activities, sampling procedures, laboratory analytical results, and planned next steps.

BACKGROUND

The Site is a metal galvanizing and coil coating facility located in Canfield, Ohio and has been operating since the 1950s under various entities including Canfield Steel and Pittsburgh Steel. MSC acquired the facility in 2013 and has operated the Site since then. On July 11, 2024, brown liquid was visually observed in the ditch by a pedestrian on the bikeway who notified the local Canfield Fire Department. The Canfield Fire Department then notified MSC and Ohio Environmental Protection Agency (Ohio EPA) of the discharge.

MSC was issued a Notice of Violation (NOV) from the Ohio EPA on October 11, 2024 for unlawful disposal of hazardous waste. The Director's Final Findings and Orders (DFFO) were then established to address the NOV and future actions at the Site. The DFFO was effective on December 31, 2024, and the Site is currently undergoing Resource

Conservation and Recovery Act (RCRA) Corrective Action (CA) through the RCRA FIRST pathway. In response to the release, MSC contracted with various environmental service providers to assess, respond, contain and cleanup the released liquids. Details associated with collection efforts of stormwater impacted by historically contaminated soils/sediments in the ditch continue to be discussed with Ohio EPA weekly and submitted in monthly reports.

Initial Site Investigations were conducted on-Site in late 2024, which included assessment of soils, groundwater, and/or surface water on and off -Site. The Initial Site Investigation report, which summarized the investigation methods and results, was submitted to Ohio EPA on December 9, 2024. The initial investigation identified TCE impacts above the United States Environmental Protection Agency (U.S. EPA) Maximum Contaminant Level (MCL) in certain locations. Low-Flow groundwater results identified four (4) locations (MW-4, MW-5, MW-12, MW-15) that contained TCE impacts above the U.S. EPA MCL. Based on the TCE impacts identified in groundwater, on-Site indoor air (IA) samples were collected on December 13, 2024. No detections were reported above the laboratory reporting limit in indoor air. The report detailing indoor air and low-flow groundwater sampling was submitted to Ohio EPA on February 24, 2025.

As part of the DFFO, a TCE Interim Measure (IM) Plan outlining additional investigation to further delineate the TCE impacts was submitted on January 14, 2025.[1] To better understand the TCE extent both on- and off-Site, August Mack proposed the following:

- Installation of 12 temporary exterior soil gas (SGe) sampling points
    - Six (6) temporary soil gas sampling points on-Site (SGe-1 through SGe-6).
    - Six (6) temporary soil gas sampling points off-Site on the Canfield High School property (SGe-7 through SGe-12).
- Collection of two (2) indoor air (IA)/sub-slab (SGss) samples from structures (locker room and concession stand) on the western portion of the Canfield High School property.
- Collection of eight (8) grab groundwater samples off-Site
    - Five (5) grab groundwater samples on the Metroparks property adjacent to the Bikeway (SB-43 through SB-47).
    - Three (3) grab groundwater samples on the Canfield High School property (SB-48 through SB-50).

[1] The TCE IM Plan was subsequently approved by Ohio EPA on February 4, 2025.

INVESTIGATION METHODS

Soil Borings

Prior to advancing soil borings for soil gas and groundwater collection, August Mack contacted Ohio 811 to clear public underground utilities at the Site, bike path, and High School. Additionally, a private utility locate was conducted using ground penetrating radar and electromagnetic survey techniques to locate utilities in the vicinity of soil borings.

August Mack mobilized to the Site in February 2025 to initiate sampling activities. Soil borings SB-37 through SB-53 were advanced using a Geoprobe® Direct Push Sampling System (Geoprobe®) to a maximum depth of 29 feet below grade (ft bg). Soil was collected continuously in two-foot intervals for the purpose of lithologic description and headspace analysis utilizing a photoionization detector (PID).

Soil boring field procedures are provided in **Attachment A**. The soil boring logs are included in **Attachment B**. Soil boring locations are shown on **Figure 1**.

Grab Groundwater Sampling

Following soil boring advancement, temporary one-inch piezometers were installed to collect grab groundwater samples from eight (8) soil borings (SB-43 through SB-50). Off-Site locations along the bike path (SB-43 through SB-47) were sampled for select metals in addition to TCE and its breakdown products. Samples were collected via peristaltic pump and submitted to Eurofins Environment Testing in Barberton, Ohio for laboratory analysis for Chemicals of Concern (COC) via the applicable methods listed in **Table 1**. Samples submitted for dissolved metals were field filtered.

Grab groundwater samples were collected in accordance with the field procedures provided in **Attachment A**.

Temporary Exterior Soil Gas Sampling

Twelve (12) temporary SGe points were advanced with the Geoprobe® direct-push drill rig. Six (6) temporary soil gas sampling points were installed on-Site (SGe-1 through SGe-6) and six (6) temporary soil gas sampling points were installed off-Site on the Canfield High School property (SGe-7 through SGe-12). The SGe samples were collected over an

approximate 15-minute period[2] in 1-liter stainless-steel canisters. The samples were collected in accordance with August Mack field procedures provided in **Attachment A**.

As a quality control measure, August Mack conducted leak testing on the sampling train, sampling equipment, and SGe ports prior to sampling activities. No leaks were identified in the SGe ports or sampling trains during leak testing. Canisters were submitted along with chain of custody documentation to Eurofins to be analyzed for TCE and its breakdown products (cis-Dichloroethene, trans-Dichloroethene, 1,1-Dichloroethene, Vinyl Chloride) via method TO-15. The SGe sample locations are depicted on **Figure 1**. A summary of field sampling data is provided as **Attachment C**.

Upon completion of the sampling, temporary SGe probes were removed and boreholes were backfilled with soil cuttings and/or bentonite. The surface was then restored to its original condition.

Sub-Slab Soil Gas and Indoor Air Sampling

In addition to the SGe sampling, SGss sampling was conducted at Canfield High School in February 2025. August Mack installed two (2) SGss ports (SGss-1 within the weight room and SGss-2 within the concession stand). The SGss sample ports were installed in accordance with August Mack field procedures included in **Attachment A**.

Prior to conducting sampling activities, August Mack personnel conducted a pre-sampling walkthrough to document building characteristics and potential indoor contaminant sources. A copy of the completed Indoor Air Building Survey is provided in **Attachment C**.

After allowing the newly installed SGss points time to equilibrate, August Mack attempted to perform paired SGss and IA sampling. However, due to canister failures, IA samples were unable to be collected. The SGss samples were collected over an 8-hour period in 6-liter stainless-steel canisters affixed with dedicated laboratory-supplied regulators. An outdoor ambient air (AA) sample was also collected over the same time, upwind of the sample location. August Mack conducted leak testing on the sampling train, sampling equipment, and SGss ports prior to sampling activities. No leaks were identified in the SGss ports or sampling trains during leak testing.

[2] Actual time for sample collection varied for individual cans and was dependent upon field observations of remaining vacuum.

Canisters were submitted along with chain of custody documentation to Eurofins to be analyzed for TCE and its breakdown products via method TO-15. The SGss and AA sample locations are depicted on **Figure 1**. The samples were collected in accordance with August Mack field procedures provided in **Attachment A**. A summary of field sampling data is provided as **Attachment C**.

ANALYTICAL RESULTS

Grab Groundwater Results

Groundwater analytical results are presented in **Table 2** and are compared to Groundwater Protection Standards[3] (GWPS). A summary of the detections above GWPS includes the following:

- VOCs
  - TCE in SB-44-GW, DUP-1, and SB-45-GW
  - cDCE in SB-45-GW
- Metals
  - Total arsenic in SB-43-GW, SB-44-GW, DUP-1, SB-45-GW, SB-46-GW, and SB-47-GW
  - Dissolved arsenic in SB-44-GW and DUP-1
  - Total chromium in SB-43-GW, DUP-1, and SB-47-GW
  - Total lead in SB-43-GW, SB-44-GW, DUP-1, SB-45-GW, SB-46-GW, and SB-47-GW
  - Dissolved lead in SB-44-GW and DUP-1
  - Total zinc in SB-43-GW and SB-47-GW

There is no evidence that arsenic has ever been used at the Site and is a common element routinely identified during environmental investigations in Ohio. As such, arsenic is believed to be naturally occurring and attributable to background levels.

No other COCs were detected above GWPS. A summary of the grab groundwater analytical results is presented in **Table 2** and depicted on **Figure 2.** The lateral extent of TCE contamination in groundwater is depicted on **Figure 3.** Laboratory analytical reports are provided as **Attachment D**.

[3] U.S. EPA Maximum Contaminant Levels, if available, or current U.S. EPA Residential Tapwater Regional Screening Levels assuming Target Cancer Risk 1.0 x 10^{-6} and Hazard Quotient 0.1.

Vapor Intrusion Results

SGss, AA, and SGe analytical results were compared to the U.S. EPA Vapor Intrusion Screening Levels (VISLs). SGss, AA, and SGe results were reported below applicable VISLs[4]. Although the IA samples on the school property could not be collected due to canister malfunctions, additional sampling is not warranted due to SGe and SGss results that were below applicable VISLs. A summary of on-Site and off-Site vapor intrusion sampling results are provided in **Tables 3** through **Table 6** and depicted on **Figure 4.** The laboratory analytical reports are provided as **Attachment D.**

SUMMARY AND CONCLUSIONS

August Mack has implemented the Ohio EPA-approved TCE IM Plan. No detections were reported above applicable VISLs in the VI samples. As such, no additional VI sampling is warranted. Additional soil or groundwater sampling efforts, if necessary, will be presented in the RCRA Facility Investigation (RFI) Workplan for review and approval by Ohio EPA.

Please feel free to contact us if you have any questions or comments.

Sincerely,

Brandon C. Lewis, CP, CHMM
Regional Director, Ohio Offices

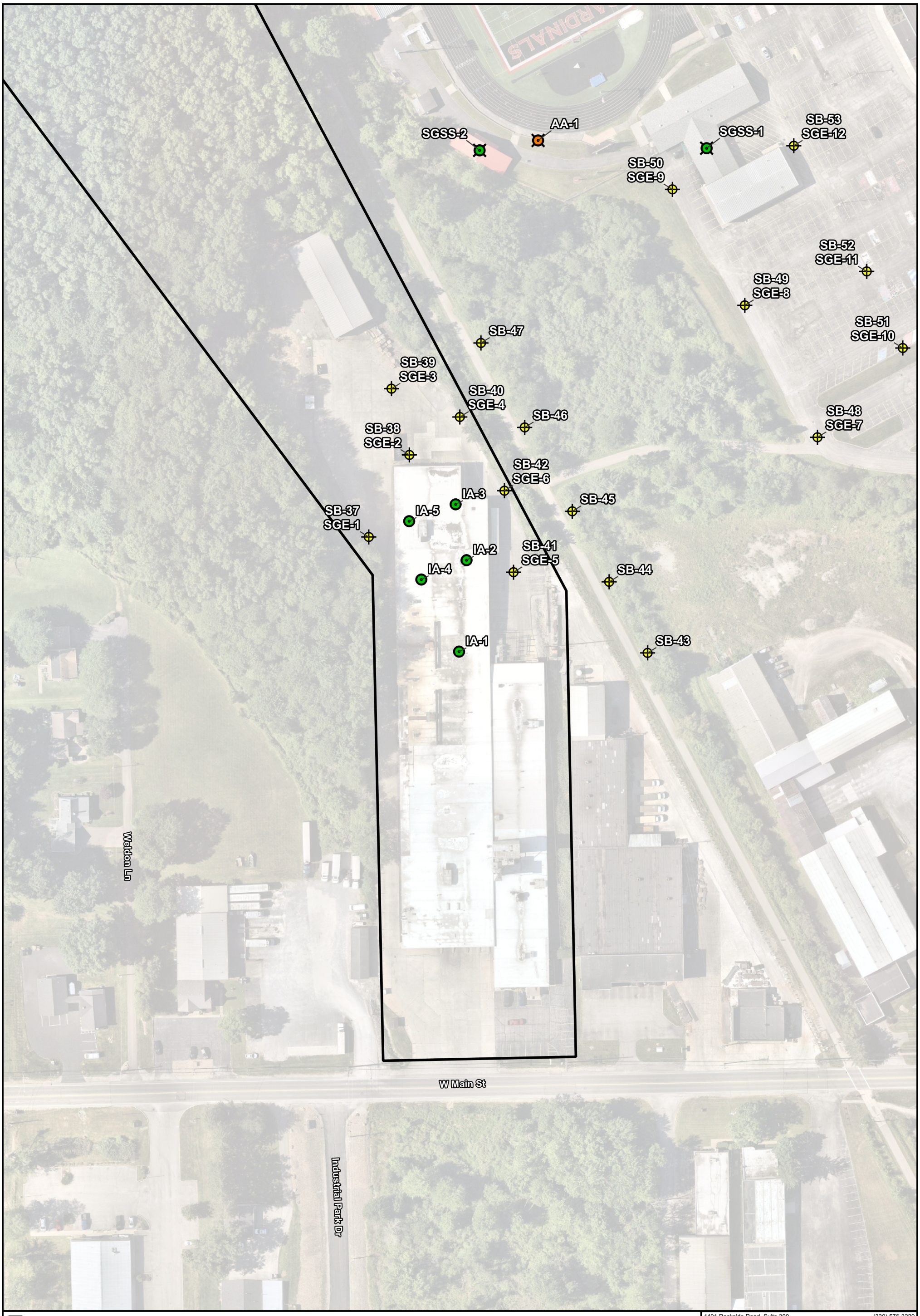
Bryant Hoffer, CHMM, LPG
Senior Manager, Geologist

Attachments

cc: Mr. Joe Knoll, Superintendent, Canfield Local School District Board of Education;
Mr. Paul Bower, Professional Service Industries, Inc.

[4] U.S. EPA VISLs were developed using the November 2024 updated VISL Calculator assuming a Target Health Quotient of 1.0 and a Target Cancer Risk of $1x10^{-5}$.

FIGURES



Subject Property

Ambient Air Sample Location

Soil Boring Sample Location

Sub Slab Soil Gas Sample Location

On-Site Indoor Air Sample Location

Nearmap Aerial Imagery:
June 15, 2024

Material Sciences Corporation
Canfield

Site Plan with TCE IM Sampling Locations

460 West Main Street
Canfield, Ohio 44406

N

0 50 100 ft

4401 Rockside Road, Suite 300
Independence, Ohio 44131
(330) 576-3229

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PROJECT NO.: JY2380.372	DATE: 03/27/2025
	SCALE: 1:1,250
FIGURE: 1	CREATED BY: CC

U.S. EPA 2024 RSLs	Ground Water Protection Standard (GWPS)
Volatile Organic Compounds (VOCs)	
1,1-Dichloroethene (1,1-DCE)	7
cis-1,2-Dichloroethene (cDCE)	70
trans-1,2-Dichloroethene (tDCE)	100
Trichloroethene (TCE)	5
Vinyl Chloride (VC)	2
Metals	
Arsenic, dissolved (As(d))	10
Chromium, dissolved (Cr(d))	100
Lead, dissolved (Pb(d))	10
Zinc, dissolved (Zn(d))	600
Cyanide	
Total Cyanide (Total CN)	NE
Free Cyanide (Free CN)	200

Abbreviations & Notes:

BRL = Below Laboratory Reporting Limits

NE = Not Established; U.S. EPA = United States Environmental Protection Agency

Based on the GWPS ingestion exposure route, only the dissolved fraction of metals is presented as compared to the GWPS. See associated analytical summary table for concentrations of total metals in groundwater.

Results and Screening Levels are reported in micrograms per liter (ug/L). Analyzed compounds not listed were not detected above Ohio EPA GWPS.

GWPSs are based on the U.S. EPA Regional Screening Levels (RSLs) Generic Tables April 2024 Update.

Per the U.S. EPA's RSL User's Guide, the chemical abstract services number (CAS#) for total cyanide is based on free cyanide toxicity. Since cyanide speciation was performed as part of Site investigation, the total cyanide RSL is listed as NE and free cyanide results are compared to the U.S. EPA RSL.

The following denote the color of screening level exceedances:

* = At or Above Ohio EPA GWPS

SB-50

SB-50-GW	
Depth (feet):	**'2-12**
Sample Date:	02/14/2025
Parameters	
1,1-DCE	<1.0
cDCE	<1.0
tDCE	<1.0
TCE	<1.0
VC	<1.0
As(d)	NA
Cr(d)	NA
Pb(d)	NA
Zn(d)	NA
Total CN	NA
Free CN	NA

SB-47

SB-47-GW	
Depth (feet):	**'10-20**
Sample Date:	02/18/2025
Parameters	
1,1-DCE	<1.0
cDCE	<1.0
tDCE	<1.0
TCE	<1.0
VC	<1.0
As(d)	<15
Cr(d)	<10
Pb(d)	<10
Zn(d)	<50
Total CN	**41**
Free CN	<6.0

SB-49

SB-49-GW	
Depth (feet):	**'2-12**
Sample Date:	02/14/2025
Parameters	
1,1-DCE	<1.0
cDCE	<1.0
tDCE	<1.0
TCE	<1.0
VC	<1.0
As(d)	NA
Cr(d)	NA
Pb(d)	NA
Zn(d)	NA
Total CN	NA
Free CN	NA

SB-46

SB-46-GW	
Depth (feet):	**'6-16**
Sample Date:	02/18/2025
Parameters	
1,1-DCE	<1.0
cDCE	<1.0
tDCE	<1.0
TCE	<1.0
VC	<1.0
As(d)	<15
Cr(d)	**0.93**
Pb(d)	<10
Zn(d)	<50
Total CN	**8.9**
Free CN	<6.0

SB-48

SB-48-GW	
Depth (feet):	**'2-12**
Sample Date:	02/14/2025
Parameters	
1,1-DCE	<1.0
cDCE	<1.0
tDCE	<1.0
TCE	<1.0
VC	<1.0
As(d)	NA
Cr(d)	NA
Pb(d)	NA
Zn(d)	NA
Total CN	NA
Free CN	NA

SB-45

SB-45-GW	
Depth (feet):	**'14-24**
Sample Date:	02/18/2025
Parameters	
1,1-DCE	<200
cDCE	**140** *
tDCE	<200
TCE	**10,000** *
VC	<200
As(d)	<15
Cr(d)	<10
Pb(d)	<10
Zn(d)	<50
Total CN	**6.2**
Free CN	<6.0

SB-44

SB-44-GW	
Depth (feet):	**'6-16**
Sample Date:	02/17/2025
Parameters	
1,1-DCE	<1.0
cDCE	**0.83**
tDCE	<1.0
TCE	**5.9** *
VC	<1.0
As(d)	**36** *
Cr(d)	**29**
Pb(d)	**24** *
Zn(d)	**140**
Total CN	<10
Free CN	<6.0

SB-43

SB-43-GW	
Depth (feet):	**'10-20**
Sample Date:	02/17/2025
Parameters	
1,1-DCE	<1.0
cDCE	**1.0**
tDCE	<1.0
TCE	**2.7**
VC	<1.0
As(d)	<15
Cr(d)	<10
Pb(d)	<10
Zn(d)	<50
Total CN	**6.1**
Free CN	<6.0

Subject Property

Grab Groundwater Sample

Material Sciences Corporation
Canfield

TCE IM Workplan
Grab Groundwater Results Map - Off-Site

460 West Main Street
Canfield, Ohio 44406

N

0 50 100 ft

Nearmap Aerial Imagery:
June 15, 2024

4401 Rockside Road, Suite 300
Independence, Ohio 44131
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PROJECT NO.: JY2380.372	DATE: 03/27/2025
FIGURE: 2	SCALE: 1:1,000
	CREATED BY: CC

MW-10
<1.0

MW-11
<1.0

MW-9
<1.0

MW-14
<1.0

MW-8
<1.0

SB-47
<1.0

SB-50
<1.0

SB-49
<1.0

MW-12
150

MW-13
<1.0

MW-6
<1.0

SB-46
<1.0

SB-48
<1.0

MW-7
<1.0

MW-3
3.2

5.0

100

1,000

10,000

SB-45
10,000

MW-4
13,000

MW-15
10,000

SB-44
5.9

10,000

MW-5
9,600

1,000

SB-43
2.7

100

5.0

MW-2
<1.0

Weldon Ln

MW-1
<1.0

W Main St

Subject Property
Monitoring Well
Soil Boring
U.S. EPA 2024 GWPS (5.0 ug/L)

* Analytical Data from November 2024 and February 2025 was used in creation.

Nearmap Aerial Imagery:
June 15, 2024

Material Sciences Corporation
Canfield

TCE Groundwater Extent Map

460 West Main Street
Canfield, Ohio 44406

N

0 50 100 ft

4401 Rockside Road, Suite 300
Independence, Ohio 44131
(330) 576-3229

August Mack
ENVIRONMENTAL

PROJECT NO.: JY2380.372	DATE: 03/27/2025
FIGURE: 3	SCALE: 1:1,000
	CREATED BY: CC

U.S. EPA Regional Screening Levels	trans-1,2-Di-chloroethene (tDCE)	Tetra-chloroethene (PCE)	Tri-chloroethene (TCE)	Vinyl Chloride (VC)
2024 Industrial Near-Source Soil Gas & Sub-Slab Air VISLs	5,840	5,480	292	929
2024 Residential Near-Source Soil Gas & Sub-Slab Air VISLs	1,390	1,390	70	56

Abbreviations & Notes:

U.S. EPA = United States Environmental Protection Agency; BRL = Below Reporting Limits

cVOCs = cDCE, tDCE, PCE, TCE, VC

RSL = Regional Screening Level; VISL = Vapor Intrusion Screening Level

Results and VISLs are reported in micrograms per cubic meter (µg/m3).

U.S. EPA RSLs are based on the November 2024 RSLs and the U.S. EPA VISL Calculator assuming a Target Health Quotient of 1.0 and a Target Cancer Risk of 1x10-5.

The following denote the color of screening level exceedances:

* = At or Above U.S. EPA Near Source Soil Gas and Sub-Slab Industrial Air VISLs (none depicted)

^ = At or Above U.S. EPA Near Source Soil Gas and Sub-Slab Residential Air VISLs (none depicted)

SGSS-2	
Sample Date:	02/17/2025
Sample Depth:	Under Slab
tDCE	<2.6
PCE	<3.5
TCE	<3.5
VC	<1.7

AA-1	
Sample Date:	02/17/2025
Sample Depth:	NA
tDCE	<2.3
PCE	<3.9
TCE	<3.1
VC	<1.5

SGE-9	
Sample Date:	02/14/2025
Sample Depth:	6.5-7.0
tDCE	<3.8
PCE	**5.2**
TCE	<5.1
VC	**2.4**

SGSS-1	
Sample Date:	02/17/2025
Sample Depth:	Under Slab
tDCE	**9.5**
PCE	<4.0
TCE	<4.0
VC	<1.9

SGE-12	
Sample Date:	02/15/2025
Sample Depth:	5.5-6.0
tDCE	<3.6
PCE	<6.2
TCE	<4.9
VC	<2.3

SGE-3	
Sample Date:	02/18/2025
Sample Depth:	16.5-17.0
tDCE	<3.7
PCE	<6.3
TCE	**3.0**
VC	**6.9**

SGE-2	
Sample Date:	02/18/2025
Sample Depth:	17.0-17.5
tDCE	<3.7
PCE	<6.3
TCE	**1.1**
VC	<2.4

SGE-1	
Sample Date:	02/18/2025
Sample Depth:	9.5-10.0
tDCE	<3.5
PCE	<6.1
TCE	**7.0**
VC	<2.3

SGE-4	
Sample Date:	02/18/2025
Sample Depth:	17.0-17.5
tDCE	<5.2
PCE	<8.8
TCE	<7.0
VC	**1.7**

SGE-6	
Sample Date:	02/18/2025
Sample Depth:	17.5-18.0
tDCE	<4.0
PCE	<6.8
TCE	<5.4
VC	<2.6

SGE-5	
Sample Date:	02/18/2025
Sample Depth:	28.5-29.0
tDCE	<4.3
PCE	<7.4
TCE	**1.1**
VC	**1.6**

SGE-8	
Sample Date:	02/14/2025
Sample Depth:	6.5-7.0
tDCE	<6.6
PCE	<11
TCE	<9.0
VC	<4.3

SGE-7	
Sample Date:	02/14/2025
Sample Depth:	5.5-6.0
tDCE	<4.4
PCE	<7.5
TCE	<5.9
VC	**1.6**

SGE-11	
Sample Date:	02/15/2025
Sample Depth:	5.5-6.0
tDCE	<4.2
PCE	<7.1
TCE	<5.6
VC	<2.7

SGE-10	
Sample Date:	02/14/2025
Sample Depth:	5.5-6.0
tDCE	<4.7
PCE	<8.0
TCE	<6.3
VC	**8.1**

SGSS-2 AA-1 SGSS-1 SGE-12 SGE-9 SGE-11 SGE-8 SGE-10 SGE-3 SGE-4 SGE-7 SGE-2 SGE-6 SGE-1 SGE-5

Subject Property

Vapor Intrustion Sample Location

Ambient Air Sample Location

Nearmap Aerial Imagery: June 15, 2024

Material Sciences Corporation
Canfield

Vapor Intrusion Analytical Results Map

460 West Main Street
Canfield, Ohio 44406

N

0 50 100 ft

4401 Rockside Road, Suite 300
Independence, Ohio 44131
(330) 576-3229
August Mack ENVIRONMENTAL

PROJECT NO.: JY2380.372 | DATE: 03/24/2025

SCALE: 1:1,250

FIGURE: 4 | CREATED BY: CC

TABLES

TABLE 1

ANALYTICAL METHODS AND CHEMICALS OF CONCERN

Aqueous Samples	
Constituents of Concern	**Analytical Method**
Volatile Organic Compounds (VOCs)	U.S. EPA SW-846 Method 8260
Total and Dissolved: Arsenic (As), Barium (Ba), Cadmium (Cd), Chromium (Cr), Copper (Cu), Lead (Pb), Selenium (Se), Silver (Ag), and Zinc (Zn)	U.S. EPA SW-846 Methods 6010
Hexavalent Chromium (Cr VI)	U.S. EPA SW-846 Methods 7196
Mercury (Hg)	U.S. EPA SW-846 Methods 7470
Cyanide (Total)	U.S. EPA SW-846 Method 9012
Cyanide (Free)	U.S. EPA SW-846 Method OIA-1677
Vapor Samples	
Constituents of Concern	**Analytical Method**
Volatile Organic Compounds (VOCs)	U.S. EPA Method TO-15

TABLE 2

SUMMARY OF GRAB GROUNDWATER ANALYTICAL DATA

	Site Area	U.S. EPA 2024 GWPS (*)	Bike Path	Bike Path		Bike Path	Bike Path	Bike Path	High School	High School	High School
	Sample ID:		SB-43-GW	SB-44-GW		SB-45-GW	SB-46-GW	SB-47-GW	SB-48-GW	SB-49-GW	SB-50-GW
	Depth (feet):		10-20	6-16	6-16 [DUP-1]	14-24	6-16	10-20	2-12	2-12	2-12
	Sample Date:		02/17/2025	02/17/2025	02/17/2025	02/18/2025	02/18/2025	02/18/2025	02/14/2025	02/14/2025	02/14/2025
VOLATILE ORGANIC COMPOUDS (VOCs) VIA U.S. EPA METHOD 8260											
1,1-Dichloroethene (1,1-DCE)		**7.0**	<1.0	<1.0	<1.0	<200 E	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene (cDCE)		**70**	**1.0**	**0.83** J	**0.93** J	**140** J *	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene (tDCE)		**100**	<1.0	<1.0	<1.0	<200 E	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)		**5.0**	**2.7**	**5.9** *	**5.7** *	**10,000** *	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride (VC)		**2.0**	<1.0	<1.0	<1.0	<200 E	<1.0	<1.0	<1.0	<1.0	<1.0
METALS VIA U.S. EPA METHODS 6010/7196/7470											
Arsenic		**10**	**740** *	**61** *	**140** *	**95** *	**65.0** *	**210** *	NA	NA	NA
Arsenic, dissolved		**10**	<15 E	**36** *	**47** *	<15 E	<15 E	<15 E	NA	NA	NA
Barium		**2,000**	**1,000** JB	**310**	**440**	**160** JB	**240** B	**780** JB	NA	NA	NA
Barium, dissolved		**2,000**	**9.9** JB	**87** JB	**110** JB	**31** J	**31** JB	**28** JB	NA	NA	NA
Cadmium		**5.0**	<50 E	**0.51** J	**0.76** J	**1.1** J	**0.87** J	<50 E	NA	NA	NA
Cadmium, dissolved		**5.0**	<5.0	**0.45** J	**0.56** J	<5.0	<5.0	<5.0	NA	NA	NA
Chromium (VI)		**0.11**	<1,000 E	<20 E	<20 E	<1,000 E	<1,000 E	<1,000 E	NA	NA	NA
Chromium		**100**	**380** *	**67**	**130** *	**76**	**72**	**270** *	NA	NA	NA
Chromium, dissolved		**100**	<10	**29.0**	**38.0**	<10	**0.93** J	<10	NA	NA	NA
Copper		**1,300**	**690**	**100**	**210**	**150**	**87**	**350**	NA	NA	NA
Copper, dissolved		**1,300**	<25	**50**	**66**	<25	<25	<25	NA	NA	NA
Lead		**10**	**360** *	**46** *	**97** *	**77** *	**54** *	**190** *	NA	NA	NA
Lead, dissolved		**10**	<10	**24** *	**33** *	<10	<10	<10	NA	NA	NA
Mercury		**2.0**	**0.15** J	<0.20	<0.20	**0.32**	**0.22**	**0.18** J	NA	NA	NA
Mercury, dissolved		**2.0**	<0.20	**0.15** J	**0.16** J	<0.20	**0.13** J	**0.13** J	NA	NA	NA
Selenium		**50**	<200 E	**7.6** J	**8.9** J	<20	<20	<200 E	NA	NA	NA
Selenium, dissolved		**50**	<20	<20	<20	<20	<20	<20	NA	NA	NA
Zinc		**600**	**2,200** *	**260**	**590**	**490**	**380**	**1,300** *	NA	NA	NA
Zinc, dissolved		**600**	<50	**140**	**180**	<50	<50	<50	NA	NA	NA
All Other Analyzed Metals		**Varies**	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
CYANIDE VIA U.S. EPA METHOD 9012 AND OIA-1677											
Cyanide, Total		**NE**	**6.1** JB	<10	<10	**6.2** JB	**8.9** JB	**41** B	NA	NA	NA
Cyanide, Free		**200**	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	NA	NA	NA

Abbreviations & Notes

B = Compound was detected in an associated blank
BRL = Below Laboratory Reporting Limits
DUP = Duplicate Sample
E = Reporting limit exceeds GWPS due to dilution or analytical limitations
J = Reported value is estimated
MCL = Maximum Contaminant Level
NE = Not Established
RSL = Regional Screening Level
TCR = Target Cancer Risk
THQ = Target Hazard Quotient
U.S. EPA = United States Environmental Protection Agency

The following denote the symbol and color of screening level exceedances:

* = At or above U.S. EPA Ground Water Protection Standards (GWPS)

Where default reporting limits exceed GWPS, results are reported as non-detect at the method detection limit.

GWPS are the U.S. EPA MCL, if available, or current U.S. EPA Residential Tapwater RSL assuming TCR of 1x10-6 and THQ of 0.1.

Results and GWPS are reported in micrograms per liter (µg/L).

SUMMARY OF AIR ANALYTICAL DATA

	Project Area:	U.S. EPA Nov 2024 Industrial VISLs (TCR 1E-05; THQ 1.0) (**)	On-Site	On-Site	On-Site	On-Site	On-Site	On-Site
August Mack ENVIRONMENTAL	*Sample ID:*		IA-1	IA-2	IA-3	IA-4	IA-5	OA-1
	Sample Media:		Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Outdoor Air
	Sample Date:		12/13/2024	12/13/2024	12/13/2024	12/13/2024	12/13/2024	12/13/2024
VOLATILE ORGANIC COMPOUNDS (VOCs) VIA U.S. EPA METHOD TO-15								
cis-1,2-Dichloroethene (cDCE)		**175**	<1.0	<1.0	<0.98	<0.99	<1.3	<0.93
trans-1,2-Dichloroethene (tDCE)		**175**	<1.3	<1.3	<1.2	<1.2	<1.7	<1.2
Tetrachloroethene (PCE)		**175**	<1.9	<1.9	<1.8	<1.8	<2.5	<1.7
Trichloroethene (TCE)		**8.76**	<0.67	<0.67	<0.64	<0.65	<0.87	<0.61
Vinyl Chloride		**27.9**	<1.0	<1.0	<0.97	<0.97	<1.3	<0.91

Abbreviations & Notes

RSL = Regional Screening Level
U.S. EPA = United States Environmental Protection Agency
VISL = Vapor Intrusion Screening Level

The following denote the symbol and color of screening level exceedances:
** = At or Above U.S. EPA Industrial Air VISL

All results and U.S. EPA RSLs are reported in micrograms per cubic meter ($\mu g/m^3$).

U.S. EPA RSLs are based on the November 2024 RSLs and the U.S. EPA VISL Calculator assuming a Target Health Quotient of 1.0 and a Target Cancer Risk of $1x10^{-5}$.

SUMMARY OF VAPOR ANALYTICAL DATA
ON-SITE SOIL VAPOR

	Project Area:	U.S. EPA INDUSTRIAL NEAR-SOURCE SOIL GAS AND SUB-SLAB AIR VISLs (*)	U.S. EPA RESIDENTIAL NEAR-SOURCE SOIL GAS AND SUB-SLAB AIR VISLs (^)	On-Site	On-Site		On-Site	On-Site	On-Site	On-Site
	Sample ID:			SGE-1	SGE-2		SGE-3	SGE-4	SGE-5	SGE-6
	Sample Media:			Soil Vapor	Soil Vapor		Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
	Sample Depth:			9.5-10.0	17.0-17.5		16.5-17.0	17.0-17.5	28.5-29.0	17.5-18.0
	Sample Date:			02/18/2025	02/18/2025	02/18/2025 [DUP-2]	02/18/2025	02/18/2025	02/18/2025	02/18/2025
VOLATILE ORGANIC COMPOUNDS (VOCs) VIA U.S. EPA METHOD TO-15										
cis-1,2-Dichloroethene (cDCE)		**5,840**	**1,390**	<3.5	<3.7	<4.0	<3.7	<5.2	<4.3	<4.0
trans-1,2-Dichloroethene (tDCE)		**5,840**	**1,390**	<3.5	<3.7	<4.0	<3.7	<5.2	<4.3	<4.0
Tetrachloroethene (PCE)		**5,840**	**1,390**	<6.1	<6.3	<6.9	<6.3	<8.8	<7.4	<6.8
Trichloroethene (TCE)		**292**	**70**	**7.0**	**1.1**	**1.0**	**3.0**	<7.0	**1.1**	<5.4
Vinyl Chloride		**929**	**56**	<2.3	<2.4	<2.6	**6.9**	**1.7**	**1.6**	<2.6

Abbreviations & Notes

BRL = Below Laboratory Reporting Limits
DUP = Duplicate Sample
NE = Not Established
U.S. EPA = United States Environmental Protection Agency
VISLs = Vapor Intrusion Screening Levels

The following denote the symbol and color of screening level exceedances:

^ = At or Above U.S. EPA Near Source Soil Gas and Sub-Slab Residential Air VISLs
* = At or Above U.S. EPA Near Source Soil Gas and Sub-Slab Industrial Air VISLs

U.S. EPA VISLs were developed using the November 2024 updated VISL Calculator assuming a Target Health Quotient of 1.0 and a Target Cancer Risk of $1x10^{-5}$.
Results and U.S. EPA VISLs are reported in micrograms per cubic meter ($\mu g/m^3$).

SUMMARY OF AIR ANALYTICAL DATA
OFF-SITE SOIL VAPOR

	Project Area:	U.S. EPA INDUSTRIAL NEAR-SOURCE SOIL GAS AND SUB-SLAB AIR VISLs (*)	U.S. EPA RESIDENTIAL NEAR-SOURCE SOIL GAS AND SUB-SLAB AIR VISLs (^)	Off-Site HS Parking Lot SW	Off-Site HS Parking Lot Central West		Off-Site HS Parking Lot NW	Off-Site HS Parking Lot SE	Off-Site HS Parking Lot Central	Off-Site HS Parking Lot NE	Off-Site Southwest of Track Field
	Sample ID:			SGE-7	SGE-8		SGE-9	SGE-10	SGE-11	SGE-12	AA-1
	Sample Media:			Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Ambient Air
	Sample Depth:			5.5-6.0	6.5-7.0		6.5-7.0	5.5-6.0	5.5-6.0	5.5-6.0	Outdoor Breathing Zone
	Sample Date:			02/14/2025	02/14/2025	02/14/2025 [DUP-3]	02/14/2025	02/14/2025	02/15/2025	02/15/2025	02/17/2025
VOLATILE ORGANIC COMPOUNDS (VOCs) VIA U.S. EPA METHOD TO-15											
cis-1,2-Dichloroethene (cDCE)		**5,840**	**1,390**	<4.4	<6.6	<6.0	<3.8	<4.7	<4.2	<3.6	<2.3
trans-1,2-Dichloroethene (tDCE)		**5,840**	**1,390**	<4.4	<6.6	<6.0	<3.8	<4.7	<4.2	<3.6	<2.3
Tetrachloroethene (PCE)		**5,840**	**1,390**	<7.5	<11	<10	**5.2**	<8.0	<7.1	<6.2	<3.9
Trichloroethene (TCE)		**292**	**70**	<5.9	<9.0	<8.1	<5.1	<6.3	<5.6	<4.9	<3.1
Vinyl Chloride		**929**	**56**	**1.6**	<4.3	<3.8	**2.4**	**8.1**	<2.7	<2.3	<1.5

Abbreviations & Notes

BRL = Below Laboratory Reporting Limits
DUP = Duplicate Sample
NE = Not Established
U.S. EPA = United States Environmental Protection Agency
VISLs = Vapor Intrusion Screening Levels

The following denote the symbol and color of screening level exceedances:

^ = At or Above U.S. EPA Near Source Soil Gas and Sub-Slab Residential Air VISLs
* = At or Above U.S. EPA Near Source Soil Gas and Sub-Slab Industrial Air VISLs

U.S. EPA VISLs were developed using the November 2024 updated VISL Calculator assuming a Target Health Quotient of 1.0 and a Target Cancer Risk of $1x10^{-5}$.
Results and U.S. EPA VISLs are reported in micrograms per cubic meter ($\mu g/m^3$).

SUMMARY OF AIR ANALYTICAL DATA
OFF-SITE SUB-SLAB VAPOR

	Project Area:	U.S. EPA INDUSTRIAL NEAR-SOURCE SOIL GAS AND SUB-SLAB AIR VISLs (*)	U.S. EPA RESIDENTIAL NEAR-SOURCE SOIL GAS AND SUB-SLAB AIR VISLs (^)	Off-Site HS Athletics Bldg	Off-Site HS Concession Stand	Off-Site Southwest of Track Field
	Sample ID:			SGSS-1	SGSS-2	AA-1
	Sample Media:			Sub-Slab Soil Vapor	Sub-Slab Soil Vapor	Ambient Air
	Sample Depth:			Under Slab	Under Slab	Outdoor Breathing Zone
	Sample Date:			02/17/2025	02/17/2025	02/17/2025
VOLATILE ORGANIC COMPOUNDS (VOCs) VIA U.S. EPA METHOD TO-15						
cis-1,2-Dichloroethene (cDCE)		**5,840**	**1,390**	<2.9	<2.6	<2.3
trans-1,2-Dichloroethene (tDCE)		**5,840**	**1,390**	**9.5**	<2.6	<2.3
Tetrachloroethene (PCE)		**5,840**	**1,390**	<5.0	<4.4	<3.9
Trichloroethene (TCE)		**292**	**70**	<4.0	<3.5	<3.1
Vinyl Chloride		**929**	**56**	<1.9	<1.7	<1.5

Abbreviations & Notes

BRL = Below Laboratory Reporting Limits
DUP = Duplicate Sample
NE = Not Established
U.S. EPA = United States Environmental Protection Agency
VISLs = Vapor Intrusion Screening Levels

The following denote the symbol and color of screening level exceedances:
^ = At or Above U.S. EPA Near Source Soil Gas and Sub-Slab Residential Air VISLs
* = At or Above U.S. EPA Near Source Soil Gas and Sub-Slab Industrial Air VISLs
U.S. EPA VISLs were developed using the November 2024 updated VISL Calculator assuming a Target Health Quotient of 1.0 and a Target Cancer Risk of $1x10^{-5}$.
Results and U.S. EPA VISLs are reported in micrograms per cubic meter ($\mu g/m^3$).

ATTACHMENT A

August Mack Field Procedures

GEOPROBE® GRAB GROUNDWATER SAMPLING PROCEDURES

Soil borings were advanced using a Geoprobe® direct-push sampling system to collect grab groundwater samples. Soil was continuously logged at 2-foot intervals, and the soils will be screened using a photoionization detector and visual inspection (staining and/or odor). Once groundwater was encountered, temporary 1-inch groundwater sampling piezometers were installed at each boring. Groundwater samples were collected using a peristaltic pump with dedicated tubing. The groundwater samples were transferred to clean, labeled sample containers (provided by the laboratory) and placed immediately on ice in a cooler for preservation in the field.

Site Restoration Activities

Upon completion of the field sampling activities, temporary piezometers were removed from the boreholes and the boreholes were abandoned by manually backfilling with soil cuttings and/or bentonite chips. Site restoration was completed by patching the surface materials complementary to pre-investigation conditions.

FIELD FILTERING

Prior to collection of dissolved, field filtered groundwater samples, a new 0.45-micron high-capacity groundwater filter was attached to the end of the sampling tubing. Groundwater filters and tubing were handled with new, clean nitrile sampling gloves to prevent cross-contamination between samples. Once tubing was attached, groundwater was passed through the filter using pressure push.

Pressure push involved the use of a peristaltic pump to push the groundwater through the filter. New, dedicated, tubing and field filters were used for each well and discarded after each use.

Samples were collected in clean, labeled sample containers (provided by the laboratory) and placed immediately on ice in a cooler for preservation in the field.

EXTERIOR SOIL GAS PORT INSTALLATION PROCEDURES

Soil gas sampling ports were installed using 2.25-inch tooling advanced via Geoprobe® drilling technology. Once the tooling was advanced to the desired depth, the tooling was removed and the subsequent borehole was checked for total open depth using a weighted, calibrated tape measure. An appropriate length of 0.1875-inch inside diameter (id) Teflon® lined, low density polyethylene (LDPE) tubing was attached to the top of a six inch long, 0.0057-inch pore diameter, stainless steel, wire-mesh screen. The screen, with attached tubing, was lowered into the open borehole for installation within the vadose zone. A clean filter pack (#5 washed quartz sand) was installed via gravity pour around the LDPE tubing and wire-mesh screen to a depth of approximately 6-inches above the wire-mesh screened interval. A weighted measuring tape was used continually to check depth of sand. The annular space was then filled with hydrated bentonite chips, installed via gravity pour, to approximately 6-inches above the filter pack to prevent ambient air from infiltrating the sampling port (reducing the potential for biasing the sample). Above the seal, the annular space was filled with bentonite chips to 0.75 feet below ground level and the remaining annual space was filled with sand up to 0.5 feet below the ground level.

Following the completion of the SGe well installation activities, a minimum of three times the volume of air within the sand pack and sampling conduit was purged to properly develop the SGe well.

EXTERIOR SOIL GAS SAMPLING PROCEDURES

To collect the exterior soil gas samples, August Mack utilized 1-liter laboratory-supplied stainless steel Summa® canisters equipped with laboratory-supplied regulators. Sampling was conducted at least 4-hours after the installation of the exterior soil gas sampling port. Each Summa® canister regulator was also equipped with a laboratory-supplied air filter to prevent clogging of the canister opening during sample collection. Prior to sampling the SGe sample ports, three times the dead volume of the sampling apparatus, including the implant screen and tubing but not including the sample container volume or the sand pack volume. Additionally, sampling train and SGe sample port leak tests were conducted prior to sampling. Upon completion of successful leak tests, the canister valve was opened, and air samples were collected over a 15-minute period. The start time of each sample, initial vacuum, and canister and regulator serial numbers were logged on the field log sheets.

After the sampling period, the final vacuum of each canister and the sample collection times were recorded on the field log sheet. The canister valves were then closed, and the canisters were properly labeled with pertinent sampling information. The air samples were then delivered to a certified laboratory for analysis using chain-of-custody documentation.

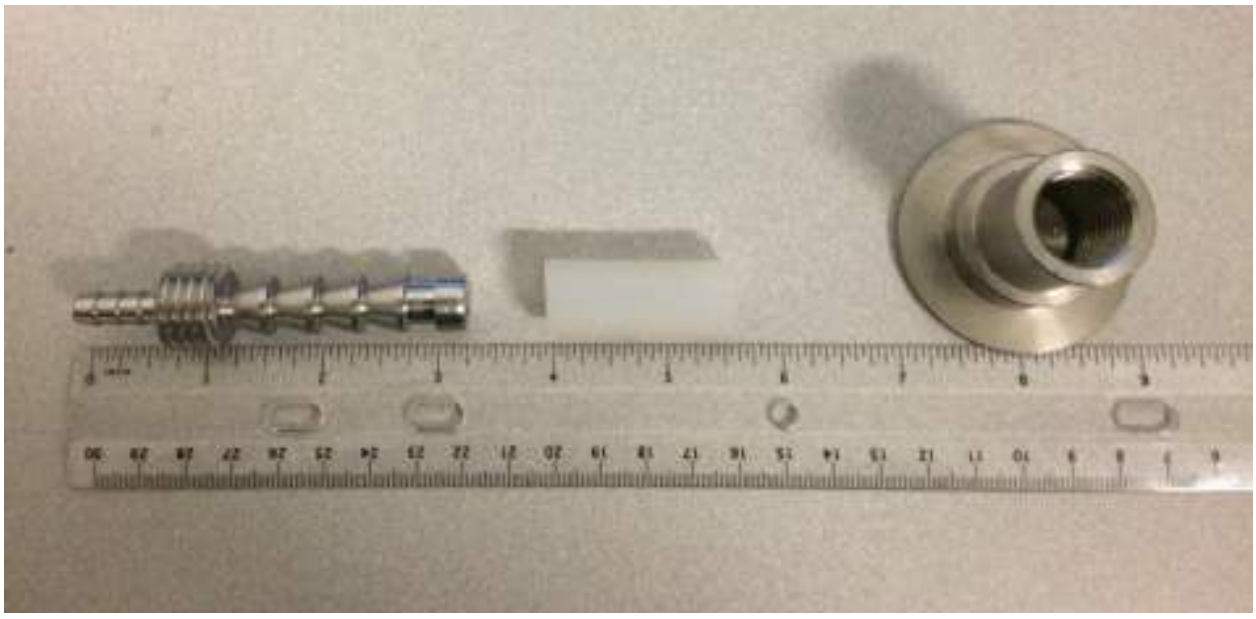
VAPOR PORT INSTALLATION PROCEDURES

To install the sub-slab vapor port, August Mack personnel utilized a rotary hammer drill to create a 1 ¼-inch diameter outer hole, which penetrates approximately 1 and ½-inches into the concrete slab floor. A second hole is drilled through the center of the first hole using a 5/8-inch diameter drill bit. The inner hole, which serves as the sample collection conduit is advanced through the remaining thickness of the concrete slab floor, into the sub-slab material. A shop vacuum is utilized to minimize air-borne concrete dust during sample port installation.

A Vapor Pin® assembly is then installed into each of the drilled holes. The vapor pins consist of the following materials:

- One (1) two (2) inch long, ½-inch diameter, barbed stainless steel pin with a ¾-inch long, ¼-inch diameter, barbed stainless steel nipple used to connect to a sampling apparatus (a ½ inch threaded section separates these two (2) portions);
- One (1) 1 and ½-inch silicone sleeve that covers the ½-inch diameter portion of the pin
- One (1) threaded recessed plug constructed of stainless steel.

All Vapor Pin® construction materials are decontaminated using a Liquinox® detergent wash and triple rinsed prior to installation. The silicone sleeve is placed around the ½-inch diameter part of the pin to ensure an air tight seal in annular space. Each Vapor Pin® is then driven into the drilled inner hole using a manufacturer supplied installation/extraction tool, such that the bottom of the threaded section of the pin rests on the base of the outer diameter drilled hole. The threaded recessed plug is then threaded onto each Vapor Pin® to make the apparatus flush to grade.



SUB-SLAB SOIL GAS SAMPLING PROCEDURES

To collect the SGss samples, August Mack utilized six (6)-liter laboratory-supplied stainless-steel Summa® canisters equipped with a laboratory-supplied batch certified clean 8-hour regulators. The Summa® canister flow controller was equipped with a laboratory-supplied 0.2-micron air filter to prevent clogging of the canister opening during sample collection. Prior to sampling the SGss vapor ports, a helium shroud leak test was conducted to verify the integrity of the vapor port. Prior to sampling the SGss vapor ports, a known volume of ambient air was purged from the tubing equal to three (3) volumes of the probe and tubing. Additionally, sampling train and SGss sample port leak tests were conducted prior to sampling.

Each canister valve was opened and samples were collected over an 8-hour timeframe. Start time of each sample, initial vacuum, canister and regulator serial numbers were logged on the field log sheets.

After the sampling period, the final vacuum of each canister and the sample collection times were recorded on the field log sheet. The canister valves were then closed and the canisters were properly labeled with pertinent sampling information.

INDOOR AIR AND AMBIENT OUTDOOR AIR SAMPLING PROCEDURES

To collect the air samples, August Mack utilized 6-liter laboratory-supplied stainless steel Summa® canisters equipped with laboratory-supplied regulators. Each Summa® canister regulator was also equipped with a laboratory-supplied air filter to prevent clogging of the canister opening during sample collection. Prior to conducting air sampling, the serial number of the Summa® canister and the regulator was recorded on a field log sheet.

To perform the indoor air and outdoor air sampling activities, the canisters were placed at human breathing height (3 to 5 feet above the floor/ground). The canister valve was opened and air samples were collected. The start time of each sample and the initial vacuum was logged on the field log sheets.

After the sampling period, the final vacuum of each canister and the sample collection times were recorded on the field log sheet. The canister valves were then closed and the canisters were properly labeled with pertinent sampling information.

LEAK TESTING PROCEDURES

Prior to sampling, August Mack conducted leak testing at each SGe and/or SGss vapor port to confirm that the sampling train, sampling equipment, and SGe and/or SGss port did not leak.

Individual sampling trains were tested for potential leaks using a Sensidyne Gastec pump model number 800, or equivalent. The pump was connected to each sampling train, all ball valves and connections were closed and a vacuum of approximately -15-inches mercury (Hg) was applied to the sampling train. The induced vacuum was observed for one minute. The sample train passed the leak test if the change in vacuum over the observation period was equal to or less than 0.5-inches Hg. A successful vacuum indicated no leaks were present in the sampling train.

Each SGe and SGss vapor port was leak tested using a helium tracer gas and shroud. A shroud was placed over the SGe and/or SGss port and flexible tubing was connected to the vapor pin. This tubing was then threaded out of the shroud through an airtight hole. The shroud was filled with helium via a port that could be sealed. Using a helium detector for field screening, August Mack personnel recorded the percentage of helium in the shroud. With the port sealed, the helium detector was fitted to the tubing that was connected to the vapor pin. The helium detector extracted and analyzed soil gas from the vapor port. Any detections of helium indicated a leak was present in the vapor port. If a leak was detected, the vapor pin was readjusted or reinstalled and leak tested again. Once the vapor port passed the leak test, sampling was conducted.

ATTACHMENT B

Soil Boring Logs

August Mack ENVIRONMENTAL

SB-43

Project Number:	JY2380.372	Date Drilled:	2/17/2025
Project Name:	MSC Canfield	Personnel:	B. Comp
Site Address:	460 W Main Street	Driller:	Envirocore
City, State:	Canfield, OH	Driller License:	Not Applicable (NA)
Boring Location:	East along bike path	Drilling Method:	Direct-push Dual Tube
Latitude/Northing*:	NA	Longitude/Easting*:	NA
Surface Elevation:	NA	GW Sample Method:	Peristaltic Pump

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)/pH Probe	Screen Interval	Soil Sample Interval	Comments
0–1	SAND	10YR 2/2, loose, fine to coarse grained, well graded, moist, with silt		0.2/ NA			START: 1620
1–2			65				
2–3	SILTY CLAY	10YR 4/6, stiff, low plasticity, moist		0.1/ NA			
3–4							
4–5			90	0.0/ NA			
5–6							
6–7				0.0/ NA			
7–8							
8–9			95	0.0/ NA			
9–10							
10–11				0.0/ NA			Grab groundwater sample SB-43-GW-10-20 collected at 1750
11–12							
12–13			85	0.1/ NA			
13–14							
14–15	CLAYEY SAND	10YR 5/2, dense, fine grained, poorly graded, wet	75	0.1/ NA			
15–16							
16–17			60	0.2/ NA			
17–18	CLAYEY SILT	10YR 5/1, very stiff, low plasticity, moist					
18–19			55	0.1/ NA			End of boring at 20' (1640)
19–20							

* = Latitude/Longitude, Northing/Easting (State Plane or UTM), and Surface Elevation are estimated unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL	Project Number: JY2380.372	Date Drilled:	2/14/2025
	Project Name: MSC Canfield	Personnel:	S. Kuntzman
	Site Address: 460 W Main Street	Driller:	Envirocore
	City, State: Canfield, OH	Driller License:	Not Applicable (NA)
	Boring Location: East along bike path	Drilling Method:	Direct-push Dual Tube
SB-44	Latitude/Northing*: NA	Longitude/Easting*:	NA
	Surface Elevation: NA	GW Sample Method:	Peristaltic Pump

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)/pH Probe	Screen Interval	Soil Sample Interval	Comments
0	SILT	10YR 4/3, soft, moist, non-plastic few gravel					START: 1103
1				0.0/ NA			
2	CLAYEY SILT	10YR 5/4, stiff, moist, low plasticity	10				
3				0.1/ NA			
4							
5			90	0.0/ NA			
6	SILTY CLAY	10YR 5/4, very stiff, low plasticity, moist, few sand, few gravel					Black staining (5.5')
7				0.0/ NA			Grab groundwater sample SB-44-GW-6-16 collected at 1230
8		10YR 5/2					
9				0.0/ NA			
10			100				
11				0.0/ NA			
12	CLAYEY SAND	10YR 5/3, medium dense, fine to coarse grained, well graded, wet, with silt Few gravel No gravel					
13	SILTY CLAY	10YR 5/2, very stiff, low plasticity, moist, few sand, few gravel		0.0/ NA			
14	CLAYEY SAND	10YR 5/4, loose, fine grained, poorly graded, wet, with silt	100				
15	SILTY CLAY	10YR 5/4, firm, low plasticity, moist, few sand		0.0/ NA			
16	CLAYEY SAND	10YR 5/4, medium dense, fine grained, poorly graded, moist, with silt					End of boring at 16' (1111)

* = Latitude/Longitude, Northing/Easting (State Plane or UTM), and Surface Elevation are estimated unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-45

Project Number:	JY2380.372	Date Drilled:	2/17/2025
Project Name:	MSC Canfield	Personnel:	B. Comp
Site Address:	460 W Main Street	Driller:	Envirocore
City, State:	Canfield, OH	Driller License:	Not Applicable (NA)
Boring Location:	East along bike path	Drilling Method:	Direct-push Dual Tube
Latitude/Northing*:	NA	Longitude/Easting*:	NA
Surface Elevation:	NA	GW Sample Method:	Peristaltic Pump

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)/pH Probe	Screen Interval	Soil Sample Interval	Comments
0–1	SAND	7.5YR 4/2, loose, fine to coarse grained, well graded, moist, with silt		0.1/ NA			START: 1347
1–2							
2–3	CLAYEY SILT	10YR 5/4, firm, low plasticity, moist	80	0.5/ NA			
3–4		10YR 3/3					
4–5		10YR 5/3		0.3/ NA			
5–6			95				
6–7				0.3/ NA			
7–8							
8–9				0.3/ NA			
9–10			95				
10–11				0.1/ NA			
11–12							
12–13				0.2/ NA			
13–14			95				
14–15				0.3/ NA			Grab groundwater sample SB-45-GW-14-24 collected at 0755 (2/18/25)
15–16	SILTY CLAY	10YR 5/4, stiff, low plasticity, moist, with gravel					
16–17				0.4/ NA			
17–18			100				
18–19				0.2/ NA			
19–20	CLAYEY SAND	10YR 5/1, medium dense, wet, fine grained, poorly graded, with silt					

* = Latitude/Longitude, Northing/Easting (State Plane or UTM), and Surface Elevation are estimated unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL	Project Number: JY2380.372	Date Drilled:	2/17/2025
	Project Name: MSC Canfield	Personnel:	B. Comp
	Site Address: 460 W Main Street	Driller:	Envirocore
	City, State: Canfield, OH	Driller License:	Not Applicable (NA)
	Boring Location: East along bike path	Drilling Method:	Direct-push Dual Tube
SB-45	Latitude/Northing*: NA	Longitude/Easting*:	NA
	Surface Elevation: NA	GW Sample Method:	Peristaltic Pump

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)/pH Probe	Screen Interval	Soil Sample Interval	Comments
20	CLAYEY SAND	10YR 5/1, medium dense, wet, fine grained, poorly graded, with silt	60	0.2/ NA			
21							
22							
23	FAT CLAY	10YR 5/1, stiff, high plasticity, moist		0.2/ NA			
24							End of boring at 24' (1412)

* = Latitude/Longitude, Northing/Easting (State Plane or UTM), and Surface Elevation are estimated unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-46

Project Number:	JY2380.372	Date Drilled:	2/17/2025
Project Name:	MSC Canfield	Personnel:	B. Comp
Site Address:	460 W Main Street	Driller:	Envirocore
City, State:	Canfield, OH	Driller License:	Not Applicable (NA)
Boring Location:	East along bike path	Drilling Method:	Direct-push Dual Tube
Latitude/Northing*:	NA	Longitude/Easting*:	NA
Surface Elevation:	NA	GW Sample Method:	Peristaltic Pump

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)/pH Probe	Screen Interval	Soil Sample Interval	Comments
0	SAND	10YR 2/2, loose, fine to coarse grained, well graded, moist, few silt	50	0.1/ NA			START: 1450
2				0.2/ NA			
4	SILTY CLAY	10YR 5/2, firm, low plasticity, moist	70	0.0/ NA			
6	CLAYEY SILT	10YR 3/3, firm, low plasticity, moist, few sand		0.1/ NA			Grab groundwater sample SB-46-GW-6-16 collected at 0840 (2/18/25)
7	LEAN CLAY	10YR 4/4, stiff, medium plasticity, moist					
9			90	0.0/ NA			
10	SILTY CLAY	10YR 5/2, very stiff, low plasticity, moist, few sand		0.0/ NA			
11							
12	CLAYEY SILT	10YR 5/2, very stiff, low plasticity, wet, few sand	95	0.0/ NA			
14				0.0/ NA			
16							End of boring at 16' (1504)

* = Latitude/Longitude, Northing/Easting (State Plane or UTM), and Surface Elevation are estimated unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-47

Project Number:	JY2380.372	Date Drilled:	2/17/2025
Project Name:	MSC Canfield	Personnel:	B. Comp
Site Address:	460 W Main Street	Driller:	Envirocore
City, State:	Canfield, OH	Driller License:	Not Applicable (NA)
Boring Location:	East along bike path	Drilling Method:	Direct-push Dual Tube
Latitude/Northing*:	NA	Longitude/Easting*:	NA
Surface Elevation:	NA	GW Sample Method:	Peristaltic Pump

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)/pH Probe	Screen Interval	Soil Sample Interval	Comments
0–1	SAND	10YR 4/3, loose, fine to coarse grained, well graded, moist, with silt		0.2/ NA			START: 1527
1–2			65				
2–3		10YR 5/4, stiff, low plasticity, moist		0.1/ NA			
3–4							
4–5				0.0/ NA			
5–6			90				
6–7				0.0/ NA			
7–8							
8–9				0.0/ NA			
9–10			95				
10–11	SILTY CLAY			0.0/ NA			Grab groundwater sample SB-48-GW-10-20 collected at 0900 (2/18/25)
11–12							
12–13				0.0/ NA			
13–14			100				
14–15				0.0/ NA			
15–16							
16–17				0.0/ NA			
17–18			100				
18–19	CLAYEY SILT	10YR 4/1, very stiff, low plasticity, moist		0.0/ NA			
19–20							

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August Mack ENVIRONMENTAL

SB-47

Project Number:	JY2380.372	Date Drilled:	2/17/2025
Project Name:	MSC Canfield	Personnel:	B. Comp
Site Address:	460 W Main Street	Driller:	Envirocore
City, State:	Canfield, OH	Driller License:	Not Applicable (NA)
Boring Location:	East along bike path	Drilling Method:	Direct-push Dual Tube
Latitude/Northing*:	NA	Longitude/Easting*:	NA
Surface Elevation:	NA	GW Sample Method:	Peristaltic Pump

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)/pH Probe	Screen Interval	Soil Sample Interval	Comments
20							
21	**CLAYEY SILT**	10YR 4/1, very stiff, low plasticity, moist	95	0.0/ NA			
22	**CLAYEY SAND**	10YR 4/1, loose, fine grained, poorly graded, wet, with silt		0.1/ NA			
23	**SAND**	10YR 4/1, medium dense, fine to medium grained, well graded, wet, with silt					
24							End of boring at 24' (1550)

* = Latitude/Longitude, Northing/Easting (State Plane or UTM), and Surface Elevation are estimated unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-48/SGe-7

Project Number:	JY2380.372	Date Drilled:	2/14/2025
Project Name:	MSC Canfield	Personnel:	S. Kuntzman
Site Address:	460 W Main Street	Driller:	Envirocore
City, State:	Canfield, OH	Driller License:	Not Applicable (NA)
Boring Location:	Southwest parking lot by bike trai	Drilling Method:	Direct-push Dual Tube
Latitude/Northing*:	NA	Longitude/Easting*:	NA
Surface Elevation:	NA	GW Sample Method:	Peristaltic Pump

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)/pH Probe	Screen Interval	Soil Sample Interval	Comments
0	ASPHALT						START: 1605
1	SILT	10YR 4/2, firm, moist, non-plastic, few sand		0.0/ NA			
2	CLAYEY SILT	10YR 5/2, stiff, moist, low-plasticity	75				
3	CLAYEY SAND	10YR 5/4, dense, moist, fine to medium grained, well graded, with silt		0.0/ NA			Grab groundwater sample SB-48-GW-2-12 collected at 1710
4	SILTY CLAY	10YR 5/4, stiff, moist, low-plasticity					
5	CLAYEY SILT	10YR 5/4, stiff, moist, low-plasticity, few sand		0.0/ NA			
6			90				Exterior soil gas well SGe-7 installed (5.5-6.0')
7	LEAN CLAY	10YR 5/4, firm, moist, low-plasticity, with silt, few sand		0.1/ NA			
8	CLAYEY SILT	10YR 5/4, firm, moist, low-plasticity, few sand					
9	CLAYEY SAND	10YR 5/4, dense, moist, fine grained, poorly graded, with silt, few gravel		0.5/ NA			
10	CLAYEY SILT	10YR 5/4, stiff, moist, low-plasticity, few sand	60				
11	SILT	10YR 5/1, very stiff, moist, non-plastic, few sand and gravel		0.2/ NA			
12							End of boring at 12' (1615)

* = Latitude/Longitude, Northing/Easting (State Plane or UTM), and Surface Elevation are estimated unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL	Project Number: JY2380.372	Date Drilled:	2/14/2025
	Project Name: MSC Canfield	Personnel:	S. Kuntzman
	Site Address: 460 W Main Street	Driller:	Envirocore
	City, State: Canfield, OH	Driller License:	Not Applicable (NA)
	Boring Location: West side of parking lot	Drilling Method:	Direct-push Dual Tube
SB-49/SGe-8	Latitude/Northing*: NA	Longitude/Easting*:	NA
	Surface Elevation: NA	GW Sample Method:	Peristaltic Pump

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)/pH Probe	Screen Interval	Soil Sample Interval	Comments
0	ASPHALT						START: 1320
1	GRAVEL	10YR 7/1, loose, moist, fine grained, poorly graded, with sand		0.0/ NA			
2	SAND	10B 6/1, medium dense, moist, fine to medium grained, well graded, with silt	80				
3	CLAYEY SILT	10YR 5/4, stiff, moist, low-plasticity, few sand		0.0/ NA			Grab groundwater sample SB-49-GW-2-12 collected at 1445
4	SILT	10YR 5/4, stiff, moist, non-plastic, few sand					
5				0.0/ NA			
6	CLAYEY SILT	10YR 6/2, firm, moist, low-plasticity	75				
7		10YR 5/1, stiff, increasing moisture		0.0/ NA			Exterior soil gas well SGe-8 installed (6.5-7.0')
8	SILT	10YR 5/4, very stiff, moist, non-plastic, few sand					
9	CLAYEY SAND	10YR 5/4, medium dense, wet, fine grained, poorly graded, with silt		0.0/ NA			
10	CLAYEY SILT	10YR 6/2, stiff, moist, low-plasticity, few sand and gravel	60				
11				0.0/ NA			
12							End of boring at 12' (1325)

* = Latitude/Longitude, Northing/Easting (State Plane or UTM), and Surface Elevation are estimated unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-50/SGe-9

Project Number:	JY2380.372	Date Drilled:	2/14/2025
Project Name:	MSC Canfield	Personnel:	S. Kuntzman
Site Address:	460 W Main Street	Driller:	Envirocore
City, State:	Canfield, OH	Driller License:	Not Applicable (NA)
Boring Location:	SB-50	Drilling Method:	Direct-push Dual Tube
Latitude/Northing*:	NA	Longitude/Easting*:	NA
Surface Elevation:	NA	GW Sample Method:	Peristaltic Pump

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)/pH Probe	Screen Interval	Soil Sample Interval	Comments
0	ASPHALT						START: 1058
1	SAND	10YR 5/2, medium dense, moist, medium to coarse grained, well graded, with silt Few gravel	60	0.2/ NA			
2				0.0/ NA			Grab groundwater sample SB-50-GW-2-12 collected at 1245
3	SILTY CLAY	10YR 5/2, firm, moist, low-plasticity					
4	CLAYEY SILT	10YR 5/4, stiff, moist, low-plasticity					
5		Firm, increasing moisture	60	0.0/ NA			
6				0.1/ NA			Exterior soil gas well SGe-9 installed (6.5-7.0')
7		Increasing moisture, few sand					
8	CLAYEY SAND	10YR 5/4, medium dense, wet, fine grained, poorly graded, with silt					
9	CLAYEY SILT	10YR 6/1, stiff, moist, low-plasticity, few sand	60	0.2/ NA			
10				0.0/ NA			
11	SILT	10YR 5/1, stiff, moist, non-plastic, few gravel					
12							End of boring at 12' (1115)

* = Latitude/Longitude, Northing/Easting (State Plane or UTM), and Surface Elevation are estimated unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-51/SGe-10

Project Number:	JY2380.372	Date Drilled:	2/14/2025
Project Name:	MSC Canfield	Personnel:	S. Kuntzman
Site Address:	460 W Main Street	Driller:	Envirocore
City, State:	Canfield, OH	Driller License:	Not Applicable (NA)
Boring Location:	South side of parking lot	Drilling Method:	Direct-push Dual Tube
Latitude/Northing*:	NA	Longitude/Easting*:	NA
Surface Elevation:	NA	GW Sample Method:	NA

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)/pH Probe	Screen Interval	Soil Sample Interval	Comments
0	ASPHALT						START:1726
1	SAND	10YR 4/2, loose, moist, fine to medium grained, well graded, with silt, few gravel		0.1/ NA			
	SILT	10YR 6/2, stiff, dry, non-plastic, few gravel					
2		10YR 5/1, stiff, moist, low-plasticity, few gravel	55				
3	CLAYEY SILT			0.0/ NA			
4		10YR 5/1, firm, moist, low-plasticity, few sand					
5				0.0/ NA			
6	SILTY CLAY		80				Exterior soil gas well SGe-10 installed (5.5-6.0')
7				0.0/ NA			
8							End of boring at 8' (1732)

* = Latitude/Longitude, Northing/Easting (State Plane or UTM), and Surface Elevation are estimated unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-52/SGe-11

Project Number:	JY2380.372	Date Drilled:	2/15/2025
Project Name:	MSC Canfield	Personnel:	S. Kuntzman
Site Address:	460 W Main Street	Driller:	Envirocore
City, State:	Canfield, OH	Driller License:	Not Applicable (NA)
Boring Location:	South center or parking lot	Drilling Method:	Direct-push Dual Tube
Latitude/Northing*:	NA	Longitude/Easting*:	NA
Surface Elevation:	NA	GW Sample Method:	NA

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)/pH Probe	Screen Interval	Soil Sample Interval	Comments
0	ASPHALT						START: 0740
1	SAND	10YR 6/2, loose, moist, medium to coarse grained, well graded, with silt, few gravel		0.0/ NA			
2	CLAYEY SILT	10YR 4/2, stiff, moist, low-plasticity, few gravel	60				
3				0.0/ NA			
	SILTY CLAY	10YR 5/3, firm, moist, low-plasticity					
4		10YR 5/2, increasing moisture, few sand					
5	CLAYEY SILT	10YR 5/2, firm, moist, low-plasticity, few sand		0.0/ NA			
6			60				Exterior soil gas well SGe-11 installed (5.5-6.0')
7				0.0/ NA			
8							End of boring at 8' (0746)

* = Latitude/Longitude, Northing/Easting (State Plane or UTM), and Surface Elevation are estimated unless specified in the report to have been surveyed.

August Mack ENVIRONMENTAL

SB-53/SGe-12

Project Number:	JY2380.372	Date Drilled:	2/15/2025
Project Name:	MSC Canfield	Personnel:	S. Kuntzman
Site Address:	460 W Main Street	Driller:	Envirocore
City, State:	Canfield, OH	Driller License:	Not Applicable (NA)
Boring Location:	East of athletic building	Drilling Method:	Direct-push Dual Tube
Latitude/Northing*:	NA	Longitude/Easting*:	NA
Surface Elevation:	NA	GW Sample Method:	NA

Depth (ft.)	Soil Type	Lithology Description	% Recovery	PID (ppm)/pH Probe	Screen Interval	Soil Sample Interval	Comments
0	**ASPHALT**						START: 0842
1	**SAND**	10YR 4/2, medium dense, moist, fine to coarse grained, well graded, with silt, few gravel		0.1/ NA			
2	**CLAYEY SILT**	10YR 5/2, very stiff, moist, low-plasticity, few gravel	60				
3				0.1/ NA			
4		10YR 5/1, firm					
5		Stiff, few sand and gravel	60	0.1/ NA			
6	**SILTY CLAY**	10YR 5/1, stiff, moist, low-plasticity		0.1/ NA			Exterior soil gas well SGe-12 installed (5.5-6.0')
							End of boring at 6.5' (0844)

* = Latitude/Longitude, Northing/Easting (State Plane or UTM), and Surface Elevation are estimated unless specified in the report to have been surveyed.

ATTACHMENT C

Vapor Intrusion Field Data and Building Survey Checklists

VAPOR INTRUSION
FIELD SAMPLING DATA

August Mack Environmental	PROJECT NAME:	*Material Sciences Corporation*
	PROJECT NUMBER:	*JY2380.372*
	COMPANY:	*August Mack Environmental, Inc.*

Sample Street Address	Sample ID	Sampling Location Description	Canister Size	Canister #	Flow Regulator Serial #	Sample Start Date (MM/DD/YYYY)	Sample Start Time (HH:MM)	Initial Vacuum ("Hg)	Sample End Date (MM/DD/YYYY)	Sample End Time (HH:MM)	Final Vacuum ("Hg)	Instructions for occupant provided? (Y/N)	Instructions for occupant/tenant followed? (Y/N)	Windows open in sampling period? (Y/N)	Active construction in sampling period? (Y/N)	Precipitation during sampling period? (Y/N)	Weather	Field Team	NOTES
460 West Main Street, Canfield, Ohio	OA-460WMainCanfield-1-20241213	Wooded area northwest of facility building	6L	6L0364	24026	12/13/2025	10:27	-29	12/13/2025	18:27	-11	Y	NA	Y	Y	N	~20F, Partly Cloudy	N. Crow, M. Schaeffer	
	IA-460WMainCanfield-1-20241213	Mid-portion of facility building	6L	6L1589	23941	12/13/2025	11:33	-29	12/13/2025	19:33	-5	Y	NA	Y	Y	N			
	IA-460WMainCanfield-2-20241213	Northeast portion of facility building	6L	6L2029	23154	12/13/2025	11:34	-28	12/13/2025	19:31	-6.5	Y	NA	Y	Y	N			
	IA-460WMainCanfield-3-20241213	Northmost portion of facility building	6L	6L1691	24283	12/13/2025	11:30	-30	12/13/2025	19:30	-10	Y	NA	Y	Y	N			
	IA-460WMainCanfield-4-20241213	South of IA-5	6L	6L2222	24697	12/13/2025	11:27	-30	12/13/2025	19:27	-7	Y	NA	Y	Y	N			
	IA-460WMainCanfield-5-20241213	Northwest portion of facility building	6L	6L0225	23744	12/13/2025	11:28	-27	12/13/2025	16:35	-4	Y	NA	Y	Y	N			
460 West Main Street, Canfield, Ohio	SGE-1-9.5-10	Northwest of facility building	1L	1L4669	2305	02/18/2025	14:35	-29	02/18/2025	14:59	-5	NA	NA	NA	Y	N	~9F, Partly Cloudy	M. Schaeffer, B. Comp	
	SGE-2-17-17.5	Immediately north of facility building	1L	1L3778	24064	02/18/2025	18:30	-24.5	02/18/2025	18:47	-4.5	NA	NA	NA	Y	N			
	DUP-2-20250218	Immediately north of facility building	1L	1L1553	24349	02/18/2025	18:30	-27	02/18/2025	18:47	-5	NA	NA	NA	Y	N			
	SGE-3-16.5-17	North of SGE-2	1L	1L3184	24397	02/18/2025	15:35	-26	02/18/2025	15:57	-5	NA	NA	NA	Y	N			
	SGE-4-17-17.5	Southwest of SGE-3	1L	1L2572	24531	02/18/2025	16:31	-28.5	02/18/2025	19:00	-13	NA	NA	NA	Y	N			
	SGE-5-28.5-29	Norrtheast portion of facility building	1L	1L5192	26677	02/18/2025	17:32	-28	02/18/2025	18:33	-7	NA	NA	NA	Y	N			
	SGE-6-17.5-18	North of SGE-5	1L	1L5337	2321	02/18/2025	16:55	-28	02/18/2025	17:16	-4.5	NA	NA	NA	Y	N			
100 Cardinal Drive, Canfield, Ohio	SGE-7-5.5-6	Southwest Parking Lot	1L	1L3973	26672	02/14/2025	17:06	-28.5	02/14/2025	17:20	-2	NA	NA	NA	N	N	~20-30F, Partly cloudy	M. Schaeffer, B. Comp	
	SGE-8-6.5-7	Central West Parking Lot	1L	1L5021	23249	02/14/2025	14:41	-28.5	02/14/2025	15:38	-1.5	NA	NA	NA	N	N			
	DUP-3-20250214	Central West Parking Lot	1L	1L1593	23205	02/14/2025	14:41	-28	02/14/2025	15:38	-16	NA	NA	NA	N	N			
	SGE-9-6.5-7	Northwest Parking Lot	1L	1L2574	25194	02/14/2025	12:37	-28	02/14/2025	13:00	-3	NA	NA	NA	N	N			
	SGE-10-5.5-6	Southeast Parking Lot	1L	1L2978	23202	02/14/2025	17:45	-26	02/14/2025	18:00	-3	NA	NA	NA	N	N			
	SGE-11-5.5-6	Central Parking Lot	1L	1L1827	25245	02/15/2025	7:56	-26	02/15/2025	8:23	-4	NA	NA	NA	N	Y	~30F, Rainy		
	SGE-12-5.5-6	Northeast Parking Lot	1L	1L2937	25191	02/15/2025	8:55	-26.5	02/15/2025	9:20	-3	NA	NA	NA	N	Y			
	AA-460-1-20250217	Southwest of Track Field	6L	6L1914	27960 2337	02/17/2025	9:58	-29.5	02/17/2025	18:43	-5.5	NA	NA	NA	N	Y	20F, Sunny		
100 Cardinal Drive, Canfield, Ohio	SGSS-460-1-20250217	Athletics Building	6L	6L1229	25812	02/17/2025	11:13	-28.5	02/17/2025	18:49	-4.5	NA	NA	N	N	Y	20F, Sunny	M. Schaeffer, B. Comp	
	SGSS-460-2-20250217	Food Kiosk	6L	6L1050	28024	02/17/2025	11:05	-27	02/17/2025	18:24	-4	NA	NA	N	N	Y			

Notes & Abbreviations
"Hg = vacuum in inches of mercury
F = Degrees Falurenheit; L = Liter
NA = Not Applicable
Any deviations from expected conditions are noted in the "*Notes*" section.

SGSS-1

General

Date	02/17/2025	Time	11:57
Sampling Address:	100 Cardinal Drive, Canfield, Ohio	Person Completing Survey:	M. Shaeffer
Information Provider:	Matt Bratcher	Company/ Association:	Canfield High School
Phone:	330.716.8520	Email:	
Sampling Address:	100 Cardinal Drive, Canfield, Ohio	Relation to Site:	Site Manager
Interviewed:	YES		

Building Construction

Date	02/17/2025	Time	12:02
Building Construction	Commercial One-Story	Floors: (#)	1
Year Constructed:	1990-1999		

Sub-Level Construction

Date	02/17/2025	Time	12:02
Other Sub-Level Installations:	None	Foundation Type:	Slab on Grade
Floor Materials:	Concrete	Concrete Floor:	Sealed
Floor Covering:	Uncovered	Foundation Walls:	Block
Sump Pump Present:	NO	Water Supply:	Public Water
Sewage Disposal:	Public Sewer		

Above-Grade Construction

Date	02/17/2025	Time	12:04
Interior Walls:	Concrete, Drywall	Exterior Walls:	Brick
Pressed Wood:	None observed	Yard:	Pavement
Heating System:	Gas Furnace	Furnace Location:	Main Floor
Fuel Source:	Main Floor	Air Conditioning:	Central Air

Ambient Air Sources

Date	02/17/2025	Time	12:05
Nearby Vehicle Traffic:	Moderately Busy	Potential VOC Emission Sources:	Parking Lots
Distance:	<500 ft	Direction:	East

Notes

Date 02/17/2025 Time 12:06

Remarks None

Chemical Inventory

Date	Time	Typical Locations	Potential Background Contamination Source	Location of Source (floor / room)	Removed
02/17/25	12:06	Bathrooms, Closets	Bathroom Cleaners, Cleaning Supplies	Bathroom, closet	No

SGSS-2

General

Date	02/17/2025	Time	11:30
Sampling Address:	100 Cardinal Drive, Canfield, Ohio	Person Completing Survey:	M. Shaeffer
Information Provider:	Matt Bratcher	Company/ Association:	Canfield High School
Phone:	330.716.8520	Sampling Address:	100 Cardinal Drive, Canfield, Ohio
Relation to Site:	Site Manager	Interviewed:	YES

Building Construction

Date	02/17/2025	Time	11:30
Building Construction	Commercial One-Story	Floors: (#)	1
Floor Grade	Above Grade	Year Constructed:	2010-current

Sub-Level Construction

Date	02/17/2025	Time	11:30
Other Sub-Level Installations:	Floor Drains	Foundation Type:	Slab on Grade
Basement Occupancy:	Slab on Grade	Floor Materials:	Concrete
Concrete Floor:	Unsealed	Floor Covering:	Uncovered
Foundation Walls:	Other/NA	Basement Finished:	Other/NA
Sump Pump Present:	NO	Water Supply:	Public Water
Sewage Disposal:	Public Sewer		

Above-Grade Construction

Date	02/17/2025	Time	11:30
Interior Walls:	Drywall	Exterior Walls:	Siding
Pressed Wood:	None observed	Yard:	Lawn, Pavement
Heating System:	None	Furnace Location:	None
Fuel Source:	None	Cooktop:	Natural gas
Air Conditioning:	None	Where:	Entire Building

Ambient Air Sources

Date	02/17/2025	Time	11:30
Nearby Vehicle Traffic:	Moderately Busy	Potential VOC Emission Sources:	Parking Lots
Distance:	<500 ft	Direction:	East

Notes

Date 02/17/2025 Time 11:30

Remarks None

Chemical Inventory

Date	Time	Typical Locations	Potential Background Contamination Source	Location of Source (floor / room)	Removed
02/17/25	11:30	Kitchen/Living Area	Appliance Cleaners, Cleaning Supplies, Gas Powered Equipment, Other Household Cleaning Products:	Entire building	No

VI Day of Event Building Survey

Site: Material Sciences Corporation
460 West Main Street, Canfield
Client: Materials Sciences Corporation

Project No: JY2380.372

SGSS-1.

Sampling Site Status Update

Date	02/17/2025	Time	11:51
Sampling Address	100 Cardinal Drive, Canfield, Ohio	Person Completing Survey	M. Shaeffer
Company/Association	August Mack Enviromental, Inc.	Site Status Update (or within 6mths - provide detail on timing in notes)	None
Garage	None	Secondary Heat Sources in use	None observed
Air Purifiers in use	None	Ambient Air & Wind Direction	Southeast
Outdoor Air Sample Collected?	Yes	OA Sample placed upwind?	Yes

Occupant-Specific Information

Date	02/17/2025	Time	11:53
Sensitive Populations	Daycare/School	# of Occupants	0
# of adults (18-65)	0	# of child	0
# of senior	0	Smoking	None
Daily Frequency	N/A	Location	N/A
Solvents Used?	None	Clothes Dry Cleaned?	None

During Sampling Event

Date	02/17/2025	Time	11:53
Construction Activities within 250 ft?	No	Occupants smoking near samples?	No
Windows closed during sampling event?	Yes	"Instructions for Occupant" provided?	NA
Precipitation (during event)	Snow/rain		

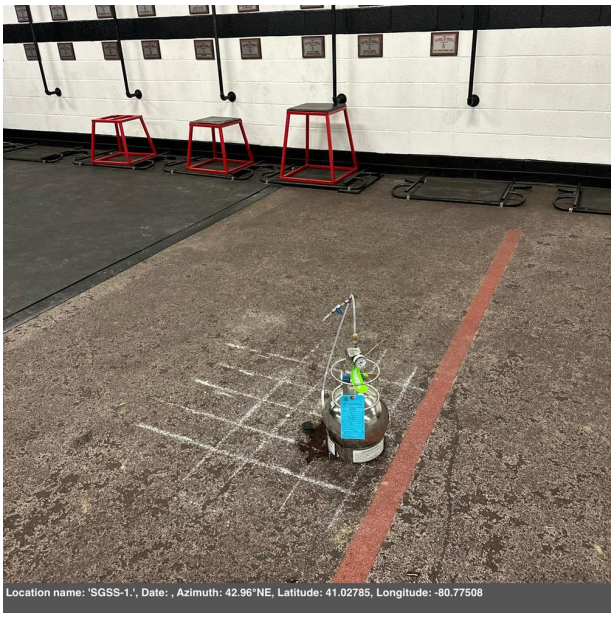
Notes and General Observations

Date	02/17/2025	Time	11:54
Notes and General Observations	None		

Chemical Inventory

Date	Time	Typical Locations	Potential Background Contamination Source	Location of Source (floor / room)	Removed
02/17/25	11:54	Closets	Cleaning Supplies, Bathroom Cleaners	Closet, bathroom	No

Photos



SGSS-2.

Sampling Site Status Update

Date	02/17/2025	Time	11:39
Person Completing Survey	M. Shaeffer	Company/Association	August Mack Environmental, Inc.
Site Status Update (or within 6mths - provide detail on timing in notes)	None	Garage	None
Secondary Heat Sources in use	None observed	Air Purifiers in use	None
Ambient Air & Wind Direction	Southeast	Outdoor Air Sample Collected?	Yes
OA Sample placed upwind?	Yes		

Occupant-Specific Information

Date	02/17/2025	Time	11:41
Sensitive Populations	Daycare/School	# of Occupants	0
# of adults (18-65)	0	# of child	0
# of senior	0	Smoking	None
Daily Frequency	N/A	Location	Inside
Solvents Used?	None	Clothes Dry Cleaned?	None

During Sampling Event

Date	02/17/2025	Time	11:42
Construction Activities within 250 ft?	No	Occupants smoking near samples?	No
Windows closed during sampling event?	No	"Instructions for Occupant" provided?	NA
Precipitation (during event)	Light Snow		

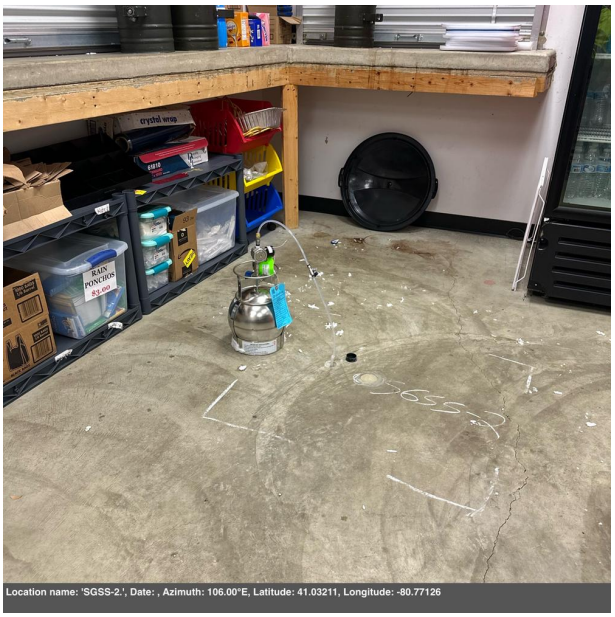
Notes and General Observations

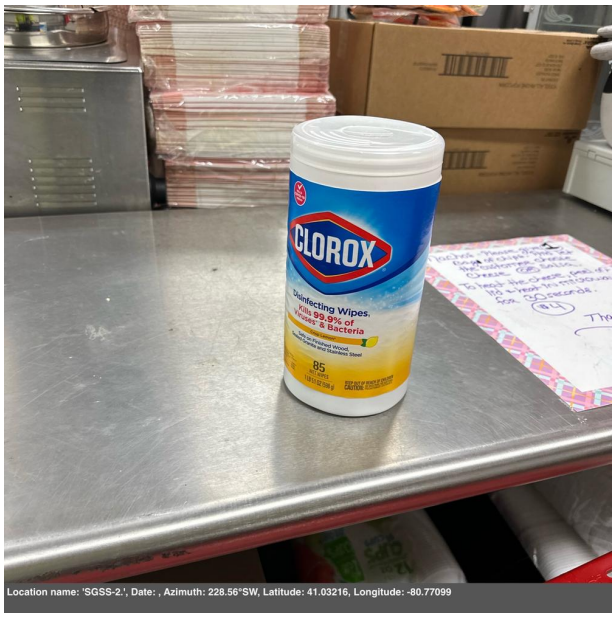
Date	02/17/2025	Time	11:43
Notes and General Observations	None		

Chemical Inventory

Date	Time	Typical Locations	Potential Background Contamination Source	Location of Source (floor / room)	Removed
02/17/25	11:43	Kitchen/Living Area	Appliance Cleaners, Cleaning Supplies, Gas Powered Equipment	Entire building	No

Photos

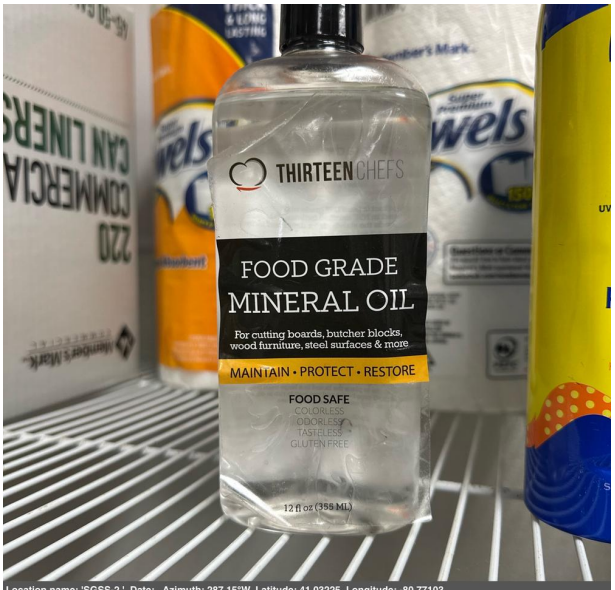




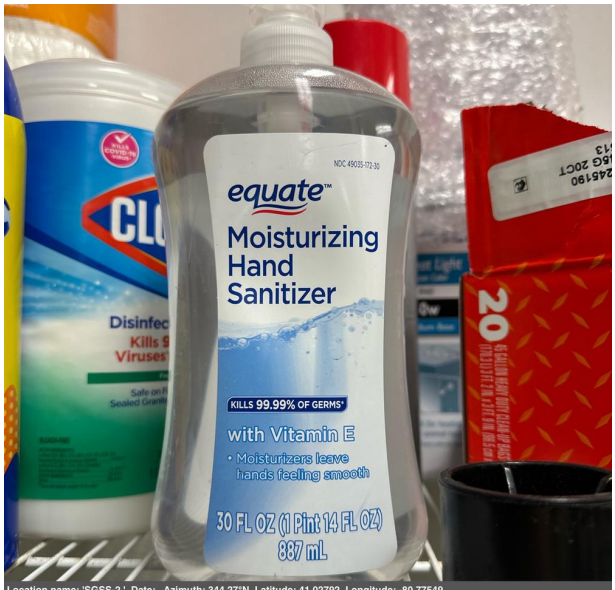
Photos

Location name: 'SGSS-2.', Date: , Azimuth: 285.23°W, Latitude: 41.02792, Longitude: -80.77549

Location name: 'SGSS-2.', Date: , Azimuth: 304.32°NW, Latitude: 41.02792, Longitude: -80.77549



Location name: 'SGSS-2.', Date: , Azimuth: 287.15°W, Latitude: 41.03225, Longitude: -80.77103



Location name: 'SGSS-2.', Date: , Azimuth: 344.27°N, Latitude: 41.02792, Longitude: -80.77549

Photos

Location name: 'SGSS-2.', Date: , Azimuth: 6.00°N, Latitude: 41.02792, Longitude: -80.77549

Location name: 'SGSS-2.', Date: , Azimuth: 350.69°N, Latitude: 41.02792, Longitude: -80.77549

Location name: 'SGSS-2.', Date: , Azimuth: 356.19°N, Latitude: 41.02792, Longitude: -80.77549

Location name: 'SGSS-2.', Date: , Azimuth: 333.53°NW, Latitude: 41.03554, Longitude: -80.77181

VI Data Sheet

Site: Material Sciences Corporation
460 West Main Street, Canfield

Project No: JY2380.372

AA-460-1-20250217

General

Date	02/17/2025	Time	12:38
Field Team	Maddi S haeffer	Company	August Mack Env ironmental, Inc.
Sampling Address(es)	100 Cardinal Dr, Canfield, OH 44406	Laboratory	Eurofins
Weather	Partly Cl oudy, Snow	Temperature	20
Canister Clean Certification	NA	Date	03/25/2025
Time	11:00	Field Team	
Company	August Mack Env ironmental, Inc.	Sampling Address(es)	
Laboratory		Weather	
Temperature		Canister Clean Certification	

Data Sheet

Sample I.D.	Sample Location	Canister Size	Sample GPS	Canister #	Flow Regulator Serial #	Sample Start Date	Sample Start Time	Initial Vacuum (in Hg)	Sample Stop Date	Sample Stop Time	Final Vacuum (in Hg)	Field Duplicate Collected?	Field Duplicate Sample ID	Remarks
AA-460-1 -20250217	On track fence	6L	41.02797 , -80.77595	6L1914	27960/ 2337	02/17/2025	09:58	-29.5	02/17/2025			No		
						blank	blank		blank	blank				
						blank	blank		blank	blank				
										~~1:31 PM~~ 6:43 PM	-5.5			

Additional Data Sheet Questions

Date	03/25/2025	Time	12:31 PM
Were "Instructions for Occupants" provided to tenant?	NA	Windows open during sampling period?	No
Active construction in sampling period?	No	Precipitation during sampling period?	Yes

VI Data Sheet

Site: Material Sciences Corporation
460 West Main Street, Canfield

Project No: JY2380.372

Were "Instructions for Occupant" followed?	NA	Date	02/17/2025
Time	12:38	Were "Instructions for Occupants" provided to tenant?	
Windows open during sampling period?		Active construction in sampling period?	
Precipitation during sampling period?		Were "Instructions for Occupant" followed?	
Remarks			
Remarks			

Helium Shroud Test

Date	Time	Sample ID	Helium Shroud Test Start Date	Helium Shroud Test Start Time	Helium Shroud Test End Date	Helium Shroud Test End Time	Shroud Helium Test Pass/Fail	Shroud Helium Meter Reading (target = present, units = ppm)	Corrective Action Performed	Port Line Helium Test Start Date	Port Line Helium Test Start Time	Port Line Helium Test End Date	Port Line Helium Test End Time	Port Line Helium Meter Reading (target = 0%, units=ppm)	Helium Test Pass/Fail
03/25/2025	12:31 PM	AA-460-1 -20250217	02/17/2025	12:37	02/17/2025	12:37	Pass			02/17/2025	12:36	02/17/2025	12:36	0	NA
02/17/2025	12:38		blank	blank	blank	blank				blank	blank	blank	blank		

Shut-In Test

Date	Time	Sample Train ID No.	Associated Samples	Swagelok Connectors	Sample Train Type	Induced Vacuum (in. Hg)	Wait Time	Final Vacuum (in Hg)	Vacuum Loss (in. Hg, goal = <0.5 in. Hg)	Corrective Action Performed
02/17/2025	12:36			NA						

Photos

Default Site Location

General

Date	02/13/2025	Time	14:34
Field Team		Company	August Mack Env ironmental, Inc.
Sampling Address(es)		Laboratory	
Weather		Temperature	
Canister Clean Certification		Date	02/14/2025
Time	12:26	Field Team	S. Ku ntzman
Company	August Mack Env ironmental, Inc.	Sampling Address(es)	460 W Main St
Laboratory	Eurofins	Weather	Cold, Cloudy , Clear, Snow
Temperature	25	Canister Clean Certification	Batch
Date	02/18/2025	Time	08:00
Field Team	B. Comp	Company	August Mack Env ironmental, Inc.
Sampling Address(es)	460 W Main St , Canfield, OH	Laboratory	Eurofins
Weather	Partly Cl oudy, Cold	Temperature	12
Canister Clean Certification	Batch		

Data Sheet

Sample I.D.	Sample Location	Canister Size	Sample GPS	Canister #	Flow Regulator Serial #	Sample Start Date	Sample Start Time	Initial Vacuum (in Hg)	Sample Stop Date	Sample Stop Time	Final Vacuum (in Hg)	Field Duplicate Collected?	Field Duplicate Sample ID	Remarks
						blank	blank		blank	blank				
SGe-9 -6.5-7	West of athletics building	1L	41.02763, -80.77517	1L2574	25194	02/14/2025	12:37	-28	02/14/2025	13:09	-3	No		Purged 120ml

VI Data Sheet

Site: Material Sciences Corporation
460 West Main Street, Canfield

Project No: JY2380.372

Sample I.D.	Sample Location	Canister Size	Sample GPS	Canister #	Flow Regulator Serial #	Sample Start Date	Sample Start Time	Initial Vacuum (in Hg)	Sample Stop Date	Sample Stop Time	Final Vacuum (in Hg)	Field Duplicate Collected?	Field Duplicate Sample ID	Remarks
SGe-8 ~~6.7_5~~ 6.5-7	West side of parking lot	1L	41.02732, -80.77496	1L5021	23249	02/14/2025	blank	-28.5	02/14/2025	15:48	-16	Yes	DUP-3-2 0250214	Vacuum stopped dropping at 15:10, no further connection past this time Purged 120ml
DUP-3-2 0250214	West side of parking lot	1L	41.02732, -80.77496	1L1593	23205	02/14/2025	14:41	-28	02/14/2025	15:48	-15	NA	DUP-3-2 0250214	Vacuum stopped dropping at 15:10, no further collection past this time Purged 120ml
SGe-7 -5.5-6	Southwest corner of parking lot by bike trail entrance	1	41.02688, -80.77467	1L3973	26672	02/14/2025	17:06	-28.5	02/14/2025	17:20	-2	No		Purged 120ml
SGe-10 -5.5-6	South side of parking lot	1L	41.02717, -80.77427	1L2978	23202	02/14/2025	17:45	-26	02/14/2025	18:00	-3	No		Purged 120ml
SGe-11 -5.5-6	South center parking lot	1L	41.02752, -80.77448	1L1827	25245	02/15/2025	07:56	-26	02/15/2025	08:23	-4	No		Purged 120ml
SGe-12 -5.5-6	East of athletics building	1 L	41.02785, -80.77474	1L2937	25191	02/15/2025	08:55	-26.5	02/15/2025	09:20	-3	No		Purged 120ml
SGe-1- 9.5-10	SGe-1	1L		1L4669	2305	02/18/2025	14:35	-29	02/18/2025	14:59	-5	No		Purged 240ml
						blank	blank		blank	blank				
						blank			blank	blank				
SGe-3- 16.5-17	SGe-3	1L		1L3184	24397	02/18/2025	15:35	-26	02/18/2025	15:57	-5	No		Purged 240ml
SGe-4- 17-17.5	SGe-4	1L		1L2572	24532	02/18/2025	16:31	-28.5	02/18/2025	19:00	-13	No		Purged 240ml
SGe-6- 17.5-18	SGe-6	1L		1L5337	2321	02/18/2025	16:55	-28	02/18/2025	17:16	-4.5	No		Purged 240ml
SGe-5- 28.5-29	SGe-5	1L		1L5192	26677	02/18/2025	17:32	-28	02/18/2025	18:33	-7	No		Purged 360ml
SGe-2- 17-17.5	SGe-2	1L		1L3778	24064	02/18/2025	18:30	-24.5	02/18/2025	18:47	-4.5	Yes	DUP-2-2 0250218	Purged 240ml
DUP-2-2 0250218	SGe-2	1L		1L1553	24349	02/18/2025	18:30	-27	02/18/2025	18:47	-5	Yes	SGe-2- 17-17.5	Purged 240ml

Additional Data Sheet Questions

Date	02/18/2025	Time	08:00
Were "Instructions for Occupants" provided to tenant?	NA	Windows open during sampling period?	NA
Active construction in sampling period?	No	Precipitation during sampling period?	No
Were "Instructions for Occupant" followed?	NA		
Remarks			

Helium Shroud Test

Date	Time	Sample ID	Helium Shroud Test Start Date	Helium Shroud Test Start Time	Helium Shroud Test End Date	Helium Shroud Test End Time	Shroud Helium Test Pass/Fail	Shroud Helium Meter Reading (target = present, units = ppm)	Corrective Action Performed	Port Line Helium Test Start Date	Port Line Helium Test Start Time	Port Line Helium Test End Date	Port Line Helium Test End Time	Port Line Helium Meter Reading (target = 0%, units=ppm)	Helium Test Pass/Fail
02/14/2025	10:50	SGSS-1	02/14/2025	10:50	02/14/2025	10:51	Pass	65.7	None	02/14/2025	10:52	02/14/2025	10:53	0	Yes
02/14/2025	11:35	SGSS-2	02/14/2025	11:35	02/14/2025	11:36	Pass	69.1	None	02/14/2025	11:37	02/14/2025	11:38	0	Yes
02/18/2025	11:33	SGe-1	02/18/2025	14:25	02/18/2025	14:26	Pass	46.2	None	02/18/2025	14:27	02/18/2025	14:28	0	Yes
02/18/2025	15:25	SGe-3	02/18/2025	15:25	02/18/2025	15:26	Pass	36.6	None	02/18/2025	15:27	02/18/2025	15:28	0	Yes
02/18/2025	16:20	SGe-4	02/18/2025	16:20	02/18/2025	16:21	Pass	25.4	None	02/18/2025	16:22	02/18/2025	16:23	0	Yes
02/18/2025	16:45	SGe-6	02/18/2025	16:45	02/18/2025	16:46	Pass	33.8	None	02/18/2025	16:47	02/18/2025	16:48	0	Yes
02/18/2025	17:20	SGe-5	02/18/2025	17:20	02/18/2025	17:21	Pass	28.8	None	02/18/2025	17:22	02/18/2025	17:23	0	Yes
02/18/2025	18:00	SGe-2	02/18/2025	18:00	02/18/2025	18:01	Pass	34.2	None	02/18/2025	18:02	02/18/2025	18:03	0	Yes

Shut-In Test

Date	Time	Sample Train ID No.	Associated Samples	Swagelok Connectors	Sample Train Type	Induced Vacuum (in. Hg)	Wait Time	Final Vacuum (in Hg)	Vacuum Loss (in. Hg, goal = <0.5 in. Hg)	Corrective Action Performed
02/13/2025	15:46	SGe-8, DUP-3		Cleaned	Duplicate	-7	1 min	-7	0	Tightened fittings
02/13/2025	16:06	1L2937		Cleaned	SGE	-12	1 min	-12	0	None
02/13/2025	16:09	1L3483		Cleaned	SGE	-11.5	1 min	-11.5	0	None

VI Data Sheet

Site: Material Sciences Corporation
460 West Main Street, Canfield

Project No: JY2380.372

Date	Time	Sample Train ID No.	Associated Samples	Swagelok Connectors	Sample Train Type	Induced Vacuum (in. Hg)	Wait Time	Final Vacuum (in Hg)	Vacuum Loss (in. Hg, goal = <0.5 in. Hg)	Corrective Action Performed
02/13/2025	16:10	1L2574		Cleaned	SGE	-11	1 min	-11	0	None
02/13/2025	16:11	1L3973		Cleaned	SGE	-11	1 min	-11	0	None
02/13/2025	16:12	1L2978		Cleaned	SGE	-11.5	1 min	-11.5	0	None
02/13/2025	16:13	1L1827		Cleaned	SGE	-11	1 min	-11	0	Tightened fittings
02/13/2025	16:26	1L2572		Cleaned	SGE	-11.5	1 min	-11.5	0	Changed out fitting
02/13/2025	16:29	1L3184		Cleaned	SGE	-11	1 min	-11	0	None
02/15/2025	14:24	1L5192		New	SGE	-11	1 min	-10.5	0.5	Tightened fittings
02/15/2025	14:31	SGe-2, DUP-2		New	Duplicate	-8.5	1 min	-8.5	0	Tightened fittings
02/15/2025	14:41	SGss-460-1		New	SGSS	-10	1 min	-10	0	Tightened fittings
02/15/2025	15:29	SGss-460-2		New	SGSS	-10	1 min	-10	0	Tightened fittings
02/15/2025	15:31	1L5337		New	SGE	-10	1 min	-10	0	None

Photos

SB-49

General

Date	02/15/2025	Time	11:47
Field Team		Company	August Mack Env ironmental, Inc.
Sampling Address(es)		Laboratory	
Weather		Temperature	
Canister Clean Certification			

Data Sheet

Sample I.D.	Sample Location	Canister Size	Sample GPS	Canister #	Flow Regulator Serial #	Sample Start Date	Sample Start Time	Initial Vacuum (in Hg)	Sample Stop Date	Sample Stop Time	Final Vacuum (in Hg)	Field Duplicate Collected?	Field Duplicate Sample ID	Remarks

Photos

SGSS-460-1-20250217

General

Date	02/17/2025	Time	12:38
Field Team	Maddi S haeffer	Company	August Mack Env ironmental, Inc.
Sampling Address(es)	100 Cardinal Dr, Canfield, OH 44406	Laboratory	Eurofins
Weather	Partly Cl oudy, Snow	Temperature	20
Canister Clean Certification	NA	Date	03/25/2025
Time	10:59	Field Team	
Company	August Mack Env ironmental, Inc.	Sampling Address(es)	
Laboratory		Weather	
Temperature		Canister Clean Certification	

Data Sheet

Sample I.D.	Sample Location	Canister Size	Sample GPS	Canister #	Flow Regulator Serial #	Sample Start Date	Sample Start Time	Initial Vacuum (in Hg)	Sample Stop Date	Sample Stop Time	Final Vacuum (in Hg)	Field Duplicate Collected?	Field Duplicate Sample ID	Remarks
SGSS-460-1-20250217	Inside weight room	6L	41.02783 , -80.77502	6L1229	25812	02/17/2025	11:13	-28.5	02/17/2025	18:49	-4.5	No		Purge 60ml
						blank	blank		blank	blank				

Additional Data Sheet Questions

Date	02/17/2025	Time	12:38
Were "Instructions for Occupants" provided to tenant?	NA	Windows open during sampling period?	No
Active construction in sampling period?	No	Precipitation during sampling period?	Yes
Were "Instructions for Occupant" followed?	NA		

Remarks

Helium Shroud Test

Date	Time	Sample ID	Helium Shroud Test Start Date	Helium Shroud Test Start Time	Helium Shroud Test End Date	Helium Shroud Test End Time	Shroud Helium Test Pass/Fail	Shroud Helium Meter Reading (target = present, units = ppm)	Corrective Action Performed	Port Line Helium Test Start Date	Port Line Helium Test Start Time	Port Line Helium Test End Date	Port Line Helium Test End Time	Port Line Helium Meter Reading (target = 0%, units=ppm)	Helium Test Pass/Fail
02/17/2025	12:38		02/14/2025	12:46	02/17/2025	12:47	Pass	55		02/14/2025	12:48	02/14/2025	12:49	0	Yes

Shut-In Test

Date	Time	Sample Train ID No.	Associated Samples	Swagelok Connectors	Sample Train Type	Induced Vacuum (in. Hg)	Wait Time	Final Vacuum (in Hg)	Vacuum Loss (in. Hg, goal = <0.5 in. Hg)	Corrective Action Performed
02/17/2025	12:46		SGSS-460-1-20250217	New		-14	60 sec	-15	0	

Photos

SGSS-460-2-20250217

General

Date	02/17/2025	Time	12:48
Field Team	Maddi S haeffer	Company	August Mack Env ironmental, Inc.
Sampling Address(es)	100 Cardinal Dr, Canfield, OH 44406	Laboratory	Eurofins
Weather	Partly Cl oudy, Snow	Temperature	20
Canister Clean Certification	NA		

Data Sheet

Sample I.D.	Sample Location	Canister Size	Sample GPS	Canister #	Flow Regulator Serial #	Sample Start Date	Sample Start Time	Initial Vacuum (in Hg)	Sample Stop Date	Sample Stop Time	Final Vacuum (in Hg)	Field Duplicate Collected?	Field Duplicate Sample ID	Remarks
SGSS-460-2-20250217	Inside concession stand	6L	41.02782 , -80.77600	6L1050	28024	02/17/2025	11:05	-27	02/17/2025	18:24	-4	No		Purged 60ml

Additional Data Sheet Questions

Date	02/17/2025	Time	12:50
Were "Instructions for Occupants" provided to tenant?	NA	Windows open during sampling period?	No
Active construction in sampling period?	No	Precipitation during sampling period?	Yes
Were "Instructions for Occupant" followed?	NA		
Remarks			

Helium Shroud Test

Date	Time	Sample ID	Helium Shroud Test Start Date	Helium Shroud Test Start Time	Helium Shroud Test End Date	Helium Shroud Test End Time	Shroud Helium Test Pass/Fail	Shroud Helium Meter Reading (target = present, units = ppm)	Corrective Action Performed	Port Line Helium Test Start Date	Port Line Helium Test Start Time	Port Line Helium Test End Date	Port Line Helium Test End Time	Port Line Helium Meter Reading (target = 0%, units=ppm)	Helium Test Pass/Fail
02/17/2025	12:50	SGSS-460-2-20250217	02/14/2025	12:51	02/14/2025	12:52	Pass	52		02/17/2025	12:52	02/17/2025	12:53	0	Yes

Shut-In Test

Date	Time	Sample Train ID No.	Associated Samples	Swagelok Connectors	Sample Train Type	Induced Vacuum (in. Hg)	Wait Time	Final Vacuum (in Hg)	Vacuum Loss (in. Hg, goal = <0.5 in. Hg)	Corrective Action Performed
02/17/2025	12:52		SGSS-460-2-20250217	New	SGSS	-15	60 sec	-15	0	

Photos

ATTACHMENT D

Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kain Lager-Lowe
August Mack Environmental, Inc.
7830 North Central Drive, Suite B
Lewis Center, Ohio 43035

Generated 2/25/2025 2:14:29 PM

JOB DESCRIPTION

MSC Canfield - Groundwater

JOB NUMBER

240-219071-1

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton OH 44203

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

Generated
2/25/2025 2:14:29 PM

Authorized for release by
Nicole Kalis, Project Manager I
Nicole.Kalis@et.eurofinsus.com
(330)497-9396

Table of Contents

Definitions/Glossary

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219071-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 240-219071-1 Eurofins Cleveland

Job Narrative
240-219071-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/17/2025 4:39 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) analyzed in batch 240-645361 was outside the method criteria for the following analyte(s): 1,1,2-Trichloro-1,2,2-trifluoroethane, Chloromethane, Cyclohexane, Dichlorodifluoromethane, Methylcyclohexane and Trichlorofluoromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed within the 7-day holding time specified for unpreserved samples: SB-50-GW-2-12 (240-219071-1) and SB-49-GW-2-12 (240-219071-2).

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 240-645507 was outside the method criteria for the following analyte(s): 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,2-Dichloroethane, 1,2-Dichloropropane, Chloroethane, Chloromethane, Cyclohexane, Dichlorodifluoromethane, Methylcyclohexane and Trichlorofluoromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method 7196A - Dissolved: The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: DUP-1-20250214 (240-219071-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Method Summary

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219071-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CLE
6010D	Metals (ICP)	SW846	EET CLE
7470A	Mercury (CVAA)	SW846	EET CLE
7196A	Chromium, Hexavalent	SW846	EET CLE
9012B	Cyanide, Total andor Amenable	SW846	EET CLE
OIA-1677	Cyanide, Free (Flow Injection)	OI CORP	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CLE
5030C	Purge and Trap	SW846	EET CLE
7470A	Preparation, Mercury	SW846	EET CLE
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET CLE
Filtration	Sample Filtration	None	EET CLE

Protocol References:

None = None

OI CORP = OI Corporation Instrument Manual.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219071-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-219071-1	SB-50-GW-2-12	Water	02/14/25 12:45	02/17/25 16:39
240-219071-2	SB-49-GW-2-12	Water	02/14/25 14:45	02/17/25 16:39
240-219071-3	SB-48-GW-2-12	Water	02/14/25 17:10	02/17/25 16:39
240-219071-4	TB-1-20250214	Water	02/14/25 00:00	02/17/25 16:39
240-219071-5	SB-44-GW-6-16	Water	02/17/25 12:30	02/17/25 16:39
240-219071-6	DUP-1-20250214	Water	02/17/25 00:00	02/17/25 16:39

Detection Summary

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219071-1

Client Sample ID: SB-50-GW-2-12 — Lab Sample ID: 240-219071-1

No Detections.

Client Sample ID: SB-49-GW-2-12 — Lab Sample ID: 240-219071-2

No Detections.

Client Sample ID: SB-48-GW-2-12 — Lab Sample ID: 240-219071-3

No Detections.

Client Sample ID: TB-1-20250214 — Lab Sample ID: 240-219071-4

No Detections.

Client Sample ID: SB-44-GW-6-16 — Lab Sample ID: 240-219071-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.83	J	1.0	0.46	ug/L	1		8260D	Total/NA
Trichloroethene	5.9		1.0	0.44	ug/L	1		8260D	Total/NA
Arsenic	61		15	4.1	ug/L	1		6010D	Total Recoverable
Barium	310		200	1.3	ug/L	1		6010D	Total Recoverable
Cadmium	0.51	J	5.0	0.45	ug/L	1		6010D	Total Recoverable
Chromium	67		10	0.76	ug/L	1		6010D	Total Recoverable
Copper	100		25	3.5	ug/L	1		6010D	Total Recoverable
Lead	46		10	2.8	ug/L	1		6010D	Total Recoverable
Selenium	7.6	J	20	6.0	ug/L	1		6010D	Total Recoverable
Zinc	260		50	23	ug/L	1		6010D	Total Recoverable
Arsenic	36		15	4.1	ug/L	1		6010D	Dissolved
Barium	87	J B	200	1.3	ug/L	1		6010D	Dissolved
Cadmium	0.45	J	5.0	0.45	ug/L	1		6010D	Dissolved
Chromium	29		10	0.76	ug/L	1		6010D	Dissolved
Copper	50		25	3.5	ug/L	1		6010D	Dissolved
Lead	24		10	2.8	ug/L	1		6010D	Dissolved
Zinc	140		50	23	ug/L	1		6010D	Dissolved
Mercury	0.15	J	0.20	0.13	ug/L	1		7470A	Dissolved

Client Sample ID: DUP-1-20250214 — Lab Sample ID: 240-219071-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.93	J	1.0	0.46	ug/L	1		8260D	Total/NA
Trichloroethene	5.7		1.0	0.44	ug/L	1		8260D	Total/NA
Arsenic	140		15	4.1	ug/L	1		6010D	Total Recoverable
Barium	440		200	1.3	ug/L	1		6010D	Total Recoverable
Cadmium	0.76	J	5.0	0.45	ug/L	1		6010D	Total Recoverable
Chromium	130		10	0.76	ug/L	1		6010D	Total Recoverable
Copper	210		25	3.5	ug/L	1		6010D	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-1-20250214 (Continued)

Lab Sample ID: 240-219071-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	97		10	2.8	ug/L	1		6010D	Total Recoverable
Selenium	8.9	J	20	6.0	ug/L	1		6010D	Total Recoverable
Zinc	590		50	23	ug/L	1		6010D	Total Recoverable
Arsenic	47		15	4.1	ug/L	1		6010D	Dissolved
Barium	110	J B	200	1.3	ug/L	1		6010D	Dissolved
Cadmium	0.56	J	5.0	0.45	ug/L	1		6010D	Dissolved
Chromium	38		10	0.76	ug/L	1		6010D	Dissolved
Copper	66		25	3.5	ug/L	1		6010D	Dissolved
Lead	33		10	2.8	ug/L	1		6010D	Dissolved
Zinc	180		50	23	ug/L	1		6010D	Dissolved
Mercury	0.16	J	0.20	0.13	ug/L	1		7470A	Dissolved

This Detection Summary does not include radiochemical test results.

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219071-1

Client Sample ID: SB-50-GW-2-12
Date Collected: 02/14/25 12:45
Date Received: 02/17/25 16:39

Lab Sample ID: 240-219071-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.49	ug/L			02/19/25 16:29	1
cis-1,2-Dichloroethene	ND		1.0	0.46	ug/L			02/19/25 16:29	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/L			02/19/25 16:29	1
Trichloroethene	ND		1.0	0.44	ug/L			02/19/25 16:29	1
Vinyl chloride	ND		1.0	0.45	ug/L			02/19/25 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*78 - 122*		*02/19/25 16:29*	*1*
Dibromofluoromethane (Surr)	*103*		*73 - 120*		*02/19/25 16:29*	*1*
4-Bromofluorobenzene (Surr)	*82*		*56 - 136*		*02/19/25 16:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*62 - 137*		*02/19/25 16:29*	*1*

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219071-1

Client Sample ID: SB-49-GW-2-12
Date Collected: 02/14/25 14:45
Date Received: 02/17/25 16:39

Lab Sample ID: 240-219071-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.49	ug/L			02/19/25 16:46	1
cis-1,2-Dichloroethene	ND		1.0	0.46	ug/L			02/19/25 16:46	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/L			02/19/25 16:46	1
Trichloroethene	ND		1.0	0.44	ug/L			02/19/25 16:46	1
Vinyl chloride	ND		1.0	0.45	ug/L			02/19/25 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*78 - 122*		*02/19/25 16:46*	*1*
Dibromofluoromethane (Surr)	*108*		*73 - 120*		*02/19/25 16:46*	*1*
4-Bromofluorobenzene (Surr)	*88*		*56 - 136*		*02/19/25 16:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*62 - 137*		*02/19/25 16:46*	*1*

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219071-1

Client Sample ID: SB-48-GW-2-12
Date Collected: 02/14/25 17:10
Date Received: 02/17/25 16:39

Lab Sample ID: 240-219071-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.49	ug/L			02/20/25 15:36	1
cis-1,2-Dichloroethene	ND		1.0	0.46	ug/L			02/20/25 15:36	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/L			02/20/25 15:36	1
Trichloroethene	ND		1.0	0.44	ug/L			02/20/25 15:36	1
Vinyl chloride	ND		1.0	0.45	ug/L			02/20/25 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*83*		*78 - 122*		*02/20/25 15:36*	*1*
Dibromofluoromethane (Surr)	*96*		*73 - 120*		*02/20/25 15:36*	*1*
4-Bromofluorobenzene (Surr)	*69*		*56 - 136*		*02/20/25 15:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*62 - 137*		*02/20/25 15:36*	*1*

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219071-1

Client Sample ID: TB-1-20250214
Date Collected: 02/14/25 00:00
Date Received: 02/17/25 16:39

Lab Sample ID: 240-219071-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.49	ug/L			02/20/25 15:54	1
cis-1,2-Dichloroethene	ND		1.0	0.46	ug/L			02/20/25 15:54	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/L			02/20/25 15:54	1
Trichloroethene	ND		1.0	0.44	ug/L			02/20/25 15:54	1
Vinyl chloride	ND		1.0	0.45	ug/L			02/20/25 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*78 - 122*		*02/20/25 15:54*	*1*
Dibromofluoromethane (Surr)	*109*		*73 - 120*		*02/20/25 15:54*	*1*
4-Bromofluorobenzene (Surr)	*86*		*56 - 136*		*02/20/25 15:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*62 - 137*		*02/20/25 15:54*	*1*

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219071-1

Client Sample ID: SB-44-GW-6-16

Lab Sample ID: 240-219071-5

Date Collected: 02/17/25 12:30

Matrix: Water

Date Received: 02/17/25 16:39

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.49	ug/L			02/20/25 16:12	1
cis-1,2-Dichloroethene	**0.83**	**J**	1.0	0.46	ug/L			02/20/25 16:12	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/L			02/20/25 16:12	1
Trichloroethene	**5.9**		1.0	0.44	ug/L			02/20/25 16:12	1
Vinyl chloride	ND		1.0	0.45	ug/L			02/20/25 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*78 - 122*		*02/20/25 16:12*	*1*
Dibromofluoromethane (Surr)	*110*		*73 - 120*		*02/20/25 16:12*	*1*
4-Bromofluorobenzene (Surr)	*87*		*56 - 136*		*02/20/25 16:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*62 - 137*		*02/20/25 16:12*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**61**		15	4.1	ug/L		02/18/25 14:00	02/19/25 20:55	1
Barium	**310**		200	1.3	ug/L		02/18/25 14:00	02/19/25 20:55	1
Cadmium	**0.51**	**J**	5.0	0.45	ug/L		02/18/25 14:00	02/19/25 20:55	1
Chromium	**67**		10	0.76	ug/L		02/18/25 14:00	02/19/25 20:55	1
Copper	**100**		25	3.5	ug/L		02/18/25 14:00	02/19/25 20:55	1
Lead	**46**		10	2.8	ug/L		02/18/25 14:00	02/19/25 20:55	1
Selenium	**7.6**	**J**	20	6.0	ug/L		02/18/25 14:00	02/19/25 20:55	1
Silver	ND		10	1.4	ug/L		02/18/25 14:00	02/19/25 20:55	1
Zinc	**260**		50	23	ug/L		02/18/25 14:00	02/19/25 20:55	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**36**		15	4.1	ug/L		02/20/25 14:00	02/21/25 15:31	1
Barium	**87**	**J B**	200	1.3	ug/L		02/20/25 14:00	02/21/25 15:31	1
Cadmium	**0.45**	**J**	5.0	0.45	ug/L		02/20/25 14:00	02/21/25 15:31	1
Chromium	**29**		10	0.76	ug/L		02/20/25 14:00	02/21/25 15:31	1
Copper	**50**		25	3.5	ug/L		02/20/25 14:00	02/21/25 15:31	1
Lead	**24**		10	2.8	ug/L		02/20/25 14:00	02/21/25 15:31	1
Selenium	ND		20	6.0	ug/L		02/20/25 14:00	02/21/25 15:31	1
Silver	ND		10	1.4	ug/L		02/20/25 14:00	02/21/25 15:31	1
Zinc	**140**		50	23	ug/L		02/20/25 14:00	02/21/25 15:31	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		02/18/25 14:00	02/19/25 11:39	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.15**	**J**	0.20	0.13	ug/L		02/20/25 14:00	02/24/25 14:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0060	mg/L		02/18/25 14:04	02/18/25 16:21	1
Cyanide, Free (OI CORP OIA-1677)	ND		0.0060	0.0050	mg/L			02/22/25 12:16	1

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219071-1

Client Sample ID: SB-44-GW-6-16
Date Collected: 02/17/25 12:30
Date Received: 02/17/25 16:39

Lab Sample ID: 240-219071-5
Matrix: Water

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SW846 7196A)	ND		0.020	0.0070	mg/L			02/18/25 08:40	1

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219071-1

Client Sample ID: DUP-1-20250214

Date Collected: 02/17/25 00:00
Date Received: 02/17/25 16:39

Lab Sample ID: 240-219071-6

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.49	ug/L			02/20/25 16:30	1
cis-1,2-Dichloroethene	**0.93**	**J**	1.0	0.46	ug/L			02/20/25 16:30	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/L			02/20/25 16:30	1
Trichloroethene	**5.7**		1.0	0.44	ug/L			02/20/25 16:30	1
Vinyl chloride	ND		1.0	0.45	ug/L			02/20/25 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*86*		*78 - 122*		*02/20/25 16:30*	*1*
Dibromofluoromethane (Surr)	*100*		*73 - 120*		*02/20/25 16:30*	*1*
4-Bromofluorobenzene (Surr)	*75*		*56 - 136*		*02/20/25 16:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*62 - 137*		*02/20/25 16:30*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**140**		15	4.1	ug/L		02/18/25 14:00	02/19/25 20:59	1
Barium	**440**		200	1.3	ug/L		02/18/25 14:00	02/19/25 20:59	1
Cadmium	**0.76**	**J**	5.0	0.45	ug/L		02/18/25 14:00	02/19/25 20:59	1
Chromium	**130**		10	0.76	ug/L		02/18/25 14:00	02/19/25 20:59	1
Copper	**210**		25	3.5	ug/L		02/18/25 14:00	02/19/25 20:59	1
Lead	**97**		10	2.8	ug/L		02/18/25 14:00	02/19/25 20:59	1
Selenium	**8.9**	**J**	20	6.0	ug/L		02/18/25 14:00	02/19/25 20:59	1
Silver	ND		10	1.4	ug/L		02/18/25 14:00	02/19/25 20:59	1
Zinc	**590**		50	23	ug/L		02/18/25 14:00	02/19/25 20:59	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**47**		15	4.1	ug/L		02/20/25 14:00	02/21/25 15:35	1
Barium	**110**	**J B**	200	1.3	ug/L		02/20/25 14:00	02/21/25 15:35	1
Cadmium	**0.56**	**J**	5.0	0.45	ug/L		02/20/25 14:00	02/21/25 15:35	1
Chromium	**38**		10	0.76	ug/L		02/20/25 14:00	02/21/25 15:35	1
Copper	**66**		25	3.5	ug/L		02/20/25 14:00	02/21/25 15:35	1
Lead	**33**		10	2.8	ug/L		02/20/25 14:00	02/21/25 15:35	1
Selenium	ND		20	6.0	ug/L		02/20/25 14:00	02/21/25 15:35	1
Silver	ND		10	1.4	ug/L		02/20/25 14:00	02/21/25 15:35	1
Zinc	**180**		50	23	ug/L		02/20/25 14:00	02/21/25 15:35	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		02/18/25 14:00	02/19/25 11:40	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.16**	**J**	0.20	0.13	ug/L		02/20/25 14:00	02/24/25 14:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	ND		0.010	0.0060	mg/L		02/18/25 14:04	02/18/25 16:23	1
Cyanide, Free (OI CORP OIA-1677)	ND		0.0060	0.0050	mg/L			02/22/25 12:19	1

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219071-1

Client Sample ID: DUP-1-20250214
Date Collected: 02/17/25 00:00
Date Received: 02/17/25 16:39

Lab Sample ID: 240-219071-6
Matrix: Water

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SW846 7196A)	ND	H	0.020	0.0070	mg/L			02/18/25 08:43	1

Surrogate Summary

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219071-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DBFM	BFB	DCA
Lab Sample ID	Client Sample ID	(78-122)	(73-120)	(56-136)	(62-137)
240-219071-1	SB-50-GW-2-12	93	103	82	99
240-219071-2	SB-49-GW-2-12	101	108	88	100
240-219071-3	SB-48-GW-2-12	83	96	69	93
240-219071-4	TB-1-20250214	92	109	86	104
240-219071-5	SB-44-GW-6-16	99	110	87	107
240-219071-6	DUP-1-20250214	86	100	75	98
LCS 240-645361/4	Lab Control Sample	100	91	94	83
LCS 240-645507/4	Lab Control Sample	100	94	101	82
MB 240-645361/7	Method Blank	97	97	86	90
MB 240-645507/7	Method Blank	91	91	83	89

Surrogate Legend

TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 240-645361/7
Matrix: Water
Analysis Batch: 645361

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.49	ug/L			02/19/25 11:08	1
cis-1,2-Dichloroethene	ND		1.0	0.46	ug/L			02/19/25 11:08	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/L			02/19/25 11:08	1
Trichloroethene	ND		1.0	0.44	ug/L			02/19/25 11:08	1
Vinyl chloride	ND		1.0	0.45	ug/L			02/19/25 11:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*78 - 122*		*02/19/25 11:08*	*1*
Dibromofluoromethane (Surr)	*97*		*73 - 120*		*02/19/25 11:08*	*1*
4-Bromofluorobenzene (Surr)	*86*		*56 - 136*		*02/19/25 11:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*62 - 137*		*02/19/25 11:08*	*1*

Lab Sample ID: LCS 240-645361/4
Matrix: Water
Analysis Batch: 645361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	21.7		ug/L		87	64 - 131
1,1,2,2-Tetrachloroethane	25.0	25.6		ug/L		102	58 - 157
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	15.8		ug/L		63	51 - 146
1,1,2-Trichloroethane	25.0	24.8		ug/L		99	70 - 138
1,1-Dichloroethane	25.0	22.0		ug/L		88	72 - 127
1,1-Dichloroethene	25.0	22.4		ug/L		90	63 - 134
1,2,4-Trichlorobenzene	25.0	25.4		ug/L		102	44 - 147
1,2-Dibromo-3-Chloropropane	25.0	25.1		ug/L		100	53 - 135
Ethylene Dibromide	25.0	25.2		ug/L		101	71 - 134
1,2-Dichlorobenzene	25.0	23.9		ug/L		95	78 - 120
1,2-Dichloroethane	25.0	20.0		ug/L		80	66 - 128
1,2-Dichloropropane	25.0	21.3		ug/L		85	75 - 133
1,3-Dichlorobenzene	25.0	23.3		ug/L		93	80 - 120
1,4-Dichlorobenzene	25.0	23.2		ug/L		93	80 - 120
2-Butanone (MEK)	50.0	46.3		ug/L		93	54 - 156
2-Hexanone	50.0	48.2		ug/L		96	43 - 167
4-Methyl-2-pentanone (MIBK)	50.0	44.2		ug/L		88	46 - 158
Acetone	50.0	49.0		ug/L		98	50 - 149
Benzene	25.0	23.7		ug/L		95	77 - 123
Dichlorobromomethane	25.0	24.7		ug/L		99	69 - 126
Bromoform	25.0	25.9		ug/L		104	57 - 129
Bromomethane	12.5	11.7		ug/L		94	36 - 142
Carbon disulfide	25.0	23.4		ug/L		94	43 - 140
Carbon tetrachloride	25.0	19.2		ug/L		77	55 - 137
Chlorobenzene	25.0	23.5		ug/L		94	80 - 121
Chloroethane	12.5	9.48		ug/L		76	38 - 152
Chloroform	25.0	22.9		ug/L		92	74 - 122
Chloromethane	12.5	7.46		ug/L		60	47 - 143
cis-1,2-Dichloroethene	25.0	23.2		ug/L		93	77 - 123
cis-1,3-Dichloropropene	25.0	24.4		ug/L		98	64 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 240-645361/4
Matrix: Water
Analysis Batch: 645361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyclohexane	25.0	14.8		ug/L		59	58 - 146
Chlorodibromomethane	25.0	25.6		ug/L		102	70 - 124
Dichlorodifluoromethane	12.5	4.76		ug/L		38	34 - 153
Ethylbenzene	25.0	25.0		ug/L		100	80 - 121
Isopropylbenzene	25.0	27.5		ug/L		110	74 - 128
Methyl acetate	50.0	42.9		ug/L		86	42 - 169
Methyl tert-butyl ether	25.0	24.6		ug/L		99	65 - 126
Methylcyclohexane	25.0	16.5		ug/L		66	62 - 136
Methylene Chloride	25.0	27.7		ug/L		111	71 - 125
Styrene	25.0	26.2		ug/L		105	80 - 135
Tetrachloroethene	25.0	21.1		ug/L		84	76 - 123
Toluene	25.0	23.5		ug/L		94	80 - 123
trans-1,2-Dichloroethene	25.0	23.1		ug/L		92	75 - 124
trans-1,3-Dichloropropene	25.0	27.3		ug/L		109	57 - 129
Trichloroethene	25.0	22.8		ug/L		91	70 - 122
Trichlorofluoromethane	12.5	6.76		ug/L		54	30 - 170
Vinyl chloride	12.5	9.64		ug/L		77	60 - 144
Xylenes, Total	50.0	50.4		ug/L		101	80 - 121
m-Xylene & p-Xylene	25.0	24.5		ug/L		98	80 - 120
o-Xylene	25.0	25.9		ug/L		104	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*78 - 122*
Dibromofluoromethane (Surr)	*91*		*73 - 120*
4-Bromofluorobenzene (Surr)	*94*		*56 - 136*
1,2-Dichloroethane-d4 (Surr)	*83*		*62 - 137*

Lab Sample ID: MB 240-645507/7
Matrix: Water
Analysis Batch: 645507

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.49	ug/L			02/20/25 11:26	1
cis-1,2-Dichloroethene	ND		1.0	0.46	ug/L			02/20/25 11:26	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/L			02/20/25 11:26	1
Trichloroethene	ND		1.0	0.44	ug/L			02/20/25 11:26	1
Vinyl chloride	ND		1.0	0.45	ug/L			02/20/25 11:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*78 - 122*		*02/20/25 11:26*	*1*
Dibromofluoromethane (Surr)	*91*		*73 - 120*		*02/20/25 11:26*	*1*
4-Bromofluorobenzene (Surr)	*83*		*56 - 136*		*02/20/25 11:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*62 - 137*		*02/20/25 11:26*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 240-645507/4
Matrix: Water
Analysis Batch: 645507

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	21.6		ug/L		87	64 - 131
1,1,2,2-Tetrachloroethane	25.0	26.3		ug/L		105	58 - 157
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	18.6		ug/L		74	51 - 146
1,1,2-Trichloroethane	25.0	24.9		ug/L		99	70 - 138
1,1-Dichloroethane	25.0	21.6		ug/L		86	72 - 127
1,1-Dichloroethene	25.0	22.8		ug/L		91	63 - 134
1,2,4-Trichlorobenzene	25.0	24.8		ug/L		99	44 - 147
1,2-Dibromo-3-Chloropropane	25.0	24.4		ug/L		98	53 - 135
Ethylene Dibromide	25.0	25.8		ug/L		103	71 - 134
1,2-Dichlorobenzene	25.0	23.7		ug/L		95	78 - 120
1,2-Dichloroethane	25.0	19.4		ug/L		77	66 - 128
1,2-Dichloropropane	25.0	20.8		ug/L		83	75 - 133
1,3-Dichlorobenzene	25.0	23.4		ug/L		94	80 - 120
1,4-Dichlorobenzene	25.0	23.1		ug/L		92	80 - 120
2-Butanone (MEK)	50.0	45.7		ug/L		91	54 - 156
2-Hexanone	50.0	46.3		ug/L		93	43 - 167
4-Methyl-2-pentanone (MIBK)	50.0	43.3		ug/L		87	46 - 158
Acetone	50.0	48.4		ug/L		97	50 - 149
Benzene	25.0	23.3		ug/L		93	77 - 123
Dichlorobromomethane	25.0	24.1		ug/L		96	69 - 126
Bromoform	25.0	25.1		ug/L		100	57 - 129
Bromomethane	12.5	11.0		ug/L		88	36 - 142
Carbon disulfide	25.0	23.0		ug/L		92	43 - 140
Carbon tetrachloride	25.0	20.2		ug/L		81	55 - 137
Chlorobenzene	25.0	22.9		ug/L		92	80 - 121
Chloroethane	12.5	9.15		ug/L		73	38 - 152
Chloroform	25.0	22.4		ug/L		90	74 - 122
Chloromethane	12.5	6.84		ug/L		55	47 - 143
cis-1,2-Dichloroethene	25.0	23.6		ug/L		94	77 - 123
cis-1,3-Dichloropropene	25.0	24.1		ug/L		96	64 - 130
Cyclohexane	25.0	17.1		ug/L		68	58 - 146
Chlorodibromomethane	25.0	25.5		ug/L		102	70 - 124
Dichlorodifluoromethane	12.5	5.47		ug/L		44	34 - 153
Ethylbenzene	25.0	24.5		ug/L		98	80 - 121
Isopropylbenzene	25.0	26.7		ug/L		107	74 - 128
Methyl acetate	50.0	41.7		ug/L		83	42 - 169
Methyl tert-butyl ether	25.0	24.4		ug/L		97	65 - 126
Methylcyclohexane	25.0	18.5		ug/L		74	62 - 136
Methylene Chloride	25.0	26.0		ug/L		104	71 - 125
Styrene	25.0	25.1		ug/L		100	80 - 135
Tetrachloroethene	25.0	20.7		ug/L		83	76 - 123
Toluene	25.0	22.8		ug/L		91	80 - 123
trans-1,2-Dichloroethene	25.0	22.9		ug/L		92	75 - 124
trans-1,3-Dichloropropene	25.0	27.0		ug/L		108	57 - 129
Trichloroethene	25.0	22.7		ug/L		91	70 - 122
Trichlorofluoromethane	12.5	8.74		ug/L		70	30 - 170
Vinyl chloride	12.5	10.1		ug/L		81	60 - 144
Xylenes, Total	50.0	49.2		ug/L		98	80 - 121

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 240-645507/4
Matrix: Water
Analysis Batch: 645507

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m-Xylene & p-Xylene	25.0	24.5		ug/L		98	80 - 120
o-Xylene	25.0	24.7		ug/L		99	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*78 - 122*
Dibromofluoromethane (Surr)	*94*		*73 - 120*
4-Bromofluorobenzene (Surr)	*101*		*56 - 136*
1,2-Dichloroethane-d4 (Surr)	*82*		*62 - 137*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-645244/1-A
Matrix: Water
Analysis Batch: 645451

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 645244

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	4.1	ug/L		02/18/25 14:00	02/19/25 14:26	1
Barium	ND		200	1.3	ug/L		02/18/25 14:00	02/19/25 14:26	1
Cadmium	ND		5.0	0.45	ug/L		02/18/25 14:00	02/19/25 14:26	1
Chromium	ND		10	0.76	ug/L		02/18/25 14:00	02/19/25 14:26	1
Copper	ND		25	3.5	ug/L		02/18/25 14:00	02/19/25 14:26	1
Lead	ND		10	2.8	ug/L		02/18/25 14:00	02/19/25 14:26	1
Selenium	ND		20	6.0	ug/L		02/18/25 14:00	02/19/25 14:26	1
Silver	ND		10	1.4	ug/L		02/18/25 14:00	02/19/25 14:26	1
Zinc	ND		50	23	ug/L		02/18/25 14:00	02/19/25 14:26	1

Lab Sample ID: LCS 240-645244/2-A
Matrix: Water
Analysis Batch: 645451

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 645244

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	2000	2120		ug/L		106	80 - 120
Barium	2000	1950		ug/L		98	80 - 120
Cadmium	1000	1010		ug/L		101	80 - 120
Chromium	1000	1020		ug/L		102	80 - 120
Copper	1000	1020		ug/L		102	80 - 120
Lead	1000	948		ug/L		95	80 - 120
Selenium	2000	2100		ug/L		105	80 - 120
Silver	100	100		ug/L		100	80 - 120
Zinc	1000	1030		ug/L		103	80 - 120

Lab Sample ID: MB 240-645540/1-A
Matrix: Water
Analysis Batch: 645758

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 645540

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	4.1	ug/L		02/20/25 14:00	02/21/25 14:45	1
Barium	1.68	J	200	1.3	ug/L		02/20/25 14:00	02/21/25 14:45	1
Cadmium	ND		5.0	0.45	ug/L		02/20/25 14:00	02/21/25 14:45	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 240-645540/1-A
Matrix: Water
Analysis Batch: 645758

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 645540

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		10	0.76	ug/L		02/20/25 14:00	02/21/25 14:45	1
Copper	ND		25	3.5	ug/L		02/20/25 14:00	02/21/25 14:45	1
Lead	ND		10	2.8	ug/L		02/20/25 14:00	02/21/25 14:45	1
Selenium	ND		20	6.0	ug/L		02/20/25 14:00	02/21/25 14:45	1
Silver	ND		10	1.4	ug/L		02/20/25 14:00	02/21/25 14:45	1
Zinc	ND		50	23	ug/L		02/20/25 14:00	02/21/25 14:45	1

Lab Sample ID: LCS 240-645540/2-A
Matrix: Water
Analysis Batch: 645758

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 645540

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	2000	2030		ug/L		102	80 - 120
Barium	2000	1870		ug/L		93	80 - 120
Cadmium	1000	971		ug/L		97	80 - 120
Chromium	1000	944		ug/L		94	80 - 120
Copper	1000	948		ug/L		95	80 - 120
Lead	1000	943		ug/L		94	80 - 120
Selenium	2000	2080		ug/L		104	80 - 120
Silver	100	98.2		ug/L		98	80 - 120
Zinc	1000	1050		ug/L		105	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-645245/1-A
Matrix: Water
Analysis Batch: 645450

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645245

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		02/18/25 14:00	02/19/25 11:13	1

Lab Sample ID: LCS 240-645245/2-A
Matrix: Water
Analysis Batch: 645450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645245

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.96		ug/L		99	80 - 120

Lab Sample ID: MB 240-645544/1-A
Matrix: Water
Analysis Batch: 645932

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645544

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		02/20/25 14:00	02/24/25 14:05	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 240-645544/2-A
Matrix: Water
Analysis Batch: 645932

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645544

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.43		ug/L		109	80 - 120

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: 240-219071-5 MS
Matrix: Water
Analysis Batch: 645178

Client Sample ID: SB-44-GW-6-16
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	ND		0.250	0.242		mg/L		97	85 - 115

Lab Sample ID: 240-219071-5 MSD
Matrix: Water
Analysis Batch: 645178

Client Sample ID: SB-44-GW-6-16
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	ND		0.250	0.222		mg/L		89	85 - 115	9	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 240-645294/1-A
Matrix: Water
Analysis Batch: 645326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645294

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0060	mg/L		02/18/25 14:04	02/18/25 16:10	1

Lab Sample ID: LCS 240-645294/2-A
Matrix: Water
Analysis Batch: 645326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645294

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.327	0.324		mg/L		99	85 - 115

Method: OIA-1677 - Cyanide, Free (Flow Injection)

Lab Sample ID: MB 410-609005/17
Matrix: Water
Analysis Batch: 609005

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	ND		0.0060	0.0050	mg/L			02/22/25 12:06	1

Lab Sample ID: LCS 410-609005/16
Matrix: Water
Analysis Batch: 609005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Free	0.0500	0.0489		mg/L		98	82 - 132

GC/MS VOA

Analysis Batch: 645361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219071-1	SB-50-GW-2-12	Total/NA	Water	8260D	
240-219071-2	SB-49-GW-2-12	Total/NA	Water	8260D	
MB 240-645361/7	Method Blank	Total/NA	Water	8260D	
LCS 240-645361/4	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 645507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219071-3	SB-48-GW-2-12	Total/NA	Water	8260D	
240-219071-4	TB-1-20250214	Total/NA	Water	8260D	
240-219071-5	SB-44-GW-6-16	Total/NA	Water	8260D	
240-219071-6	DUP-1-20250214	Total/NA	Water	8260D	
MB 240-645507/7	Method Blank	Total/NA	Water	8260D	
LCS 240-645507/4	Lab Control Sample	Total/NA	Water	8260D	

Metals

Prep Batch: 645244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219071-5	SB-44-GW-6-16	Total Recoverable	Water	3005A	
240-219071-6	DUP-1-20250214	Total Recoverable	Water	3005A	
MB 240-645244/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-645244/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 645245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219071-5	SB-44-GW-6-16	Total/NA	Water	7470A	
240-219071-6	DUP-1-20250214	Total/NA	Water	7470A	
MB 240-645245/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-645245/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 645450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219071-5	SB-44-GW-6-16	Total/NA	Water	7470A	645245
240-219071-6	DUP-1-20250214	Total/NA	Water	7470A	645245
MB 240-645245/1-A	Method Blank	Total/NA	Water	7470A	645245
LCS 240-645245/2-A	Lab Control Sample	Total/NA	Water	7470A	645245

Analysis Batch: 645451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219071-5	SB-44-GW-6-16	Total Recoverable	Water	6010D	645244
240-219071-6	DUP-1-20250214	Total Recoverable	Water	6010D	645244
MB 240-645244/1-A	Method Blank	Total Recoverable	Water	6010D	645244
LCS 240-645244/2-A	Lab Control Sample	Total Recoverable	Water	6010D	645244

Prep Batch: 645540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219071-5	SB-44-GW-6-16	Dissolved	Water	3005A	
240-219071-6	DUP-1-20250214	Dissolved	Water	3005A	
MB 240-645540/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-645540/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Metals

Prep Batch: 645544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219071-5	SB-44-GW-6-16	Dissolved	Water	7470A	
240-219071-6	DUP-1-20250214	Dissolved	Water	7470A	
MB 240-645544/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-645544/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 645758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219071-5	SB-44-GW-6-16	Dissolved	Water	6010D	645540
240-219071-6	DUP-1-20250214	Dissolved	Water	6010D	645540
MB 240-645540/1-A	Method Blank	Total Recoverable	Water	6010D	645540
LCS 240-645540/2-A	Lab Control Sample	Total Recoverable	Water	6010D	645540

Analysis Batch: 645932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219071-5	SB-44-GW-6-16	Dissolved	Water	7470A	645544
240-219071-6	DUP-1-20250214	Dissolved	Water	7470A	645544
MB 240-645544/1-A	Method Blank	Total/NA	Water	7470A	645544
LCS 240-645544/2-A	Lab Control Sample	Total/NA	Water	7470A	645544

General Chemistry

Analysis Batch: 609005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219071-5	SB-44-GW-6-16	Total/NA	Water	OIA-1677	
240-219071-6	DUP-1-20250214	Total/NA	Water	OIA-1677	
MB 410-609005/17	Method Blank	Total/NA	Water	OIA-1677	
LCS 410-609005/16	Lab Control Sample	Total/NA	Water	OIA-1677	

Analysis Batch: 645178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219071-5	SB-44-GW-6-16	Dissolved	Water	7196A	645179
240-219071-6	DUP-1-20250214	Dissolved	Water	7196A	645179
240-219071-5 MS	SB-44-GW-6-16	Dissolved	Water	7196A	645179
240-219071-5 MSD	SB-44-GW-6-16	Dissolved	Water	7196A	645179

Filtration Batch: 645179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219071-5	SB-44-GW-6-16	Dissolved	Water	Filtration	
240-219071-6	DUP-1-20250214	Dissolved	Water	Filtration	
240-219071-5 MS	SB-44-GW-6-16	Dissolved	Water	Filtration	
240-219071-5 MSD	SB-44-GW-6-16	Dissolved	Water	Filtration	

Prep Batch: 645294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219071-5	SB-44-GW-6-16	Total/NA	Water	9012B	
240-219071-6	DUP-1-20250214	Total/NA	Water	9012B	
MB 240-645294/1-A	Method Blank	Total/NA	Water	9012B	
LCS 240-645294/2-A	Lab Control Sample	Total/NA	Water	9012B	

QC Association Summary

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219071-1

General Chemistry

Analysis Batch: 645326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219071-5	SB-44-GW-6-16	Total/NA	Water	9012B	645294
240-219071-6	DUP-1-20250214	Total/NA	Water	9012B	645294
MB 240-645294/1-A	Method Blank	Total/NA	Water	9012B	645294
LCS 240-645294/2-A	Lab Control Sample	Total/NA	Water	9012B	645294

Lab Chronicle

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219071-1

Client Sample ID: SB-50-GW-2-12

Lab Sample ID: 240-219071-1

Date Collected: 02/14/25 12:45
Matrix: Water
Date Received: 02/17/25 16:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	645361	LEE	EET CLE	02/19/25 16:29

Client Sample ID: SB-49-GW-2-12

Lab Sample ID: 240-219071-2

Date Collected: 02/14/25 14:45
Matrix: Water
Date Received: 02/17/25 16:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	645361	LEE	EET CLE	02/19/25 16:46

Client Sample ID: SB-48-GW-2-12

Lab Sample ID: 240-219071-3

Date Collected: 02/14/25 17:10
Matrix: Water
Date Received: 02/17/25 16:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	645507	LEE	EET CLE	02/20/25 15:36

Client Sample ID: TB-1-20250214

Lab Sample ID: 240-219071-4

Date Collected: 02/14/25 00:00
Matrix: Water
Date Received: 02/17/25 16:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	645507	LEE	EET CLE	02/20/25 15:54

Client Sample ID: SB-44-GW-6-16

Lab Sample ID: 240-219071-5

Date Collected: 02/17/25 12:30
Matrix: Water
Date Received: 02/17/25 16:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	645507	LEE	EET CLE	02/20/25 16:12
Dissolved	Prep	3005A			645540	MN7X	EET CLE	02/20/25 14:00
Dissolved	Analysis	6010D		1	645758	AJC	EET CLE	02/21/25 15:31
Total Recoverable	Prep	3005A			645244	XWS6	EET CLE	02/18/25 14:00
Total Recoverable	Analysis	6010D		1	645451	AJC	EET CLE	02/19/25 20:55
Dissolved	Prep	7470A			645544	MN7X	EET CLE	02/20/25 14:00
Dissolved	Analysis	7470A		1	645932	S4FJ	EET CLE	02/24/25 14:23
Total/NA	Prep	7470A			645245	XWS6	EET CLE	02/18/25 14:00
Total/NA	Analysis	7470A		1	645450	TQ6W	EET CLE	02/19/25 11:39
Dissolved	Filtration	Filtration			645179	C5SV	EET CLE	02/18/25 08:37
Dissolved	Analysis	7196A		1	645178	C5SV	EET CLE	02/18/25 08:40
Total/NA	Prep	9012B			645294	BLW	EET CLE	02/18/25 14:04
Total/NA	Analysis	9012B		1	645326	BLW	EET CLE	02/18/25 16:21
Total/NA	Analysis	OIA-1677		1	609005	Q3HN	ELLE	02/22/25 12:16

Lab Chronicle

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219071-1

Client Sample ID: DUP-1-20250214

Date Collected: 02/17/25 00:00
Date Received: 02/17/25 16:39

Lab Sample ID: 240-219071-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	645507	LEE	EET CLE	02/20/25 16:30
Dissolved	Prep	3005A			645540	MN7X	EET CLE	02/20/25 14:00
Dissolved	Analysis	6010D		1	645758	AJC	EET CLE	02/21/25 15:35
Total Recoverable	Prep	3005A			645244	XWS6	EET CLE	02/18/25 14:00
Total Recoverable	Analysis	6010D		1	645451	AJC	EET CLE	02/19/25 20:59
Dissolved	Prep	7470A			645544	MN7X	EET CLE	02/20/25 14:00
Dissolved	Analysis	7470A		1	645932	S4FJ	EET CLE	02/24/25 14:25
Total/NA	Prep	7470A			645245	XWS6	EET CLE	02/18/25 14:00
Total/NA	Analysis	7470A		1	645450	TQ6W	EET CLE	02/19/25 11:40
Dissolved	Filtration	Filtration			645179	C5SV	EET CLE	02/18/25 08:37
Dissolved	Analysis	7196A		1	645178	C5SV	EET CLE	02/18/25 08:43
Total/NA	Prep	9012B			645294	BLW	EET CLE	02/18/25 14:04
Total/NA	Analysis	9012B		1	645326	BLW	EET CLE	02/18/25 16:23
Total/NA	Analysis	OIA-1677		1	609005	Q3HN	ELLE	02/22/25 12:19

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219071-1

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-26
A2LA	Dept. of Energy	0001.01	11-30-26
A2LA	ISO/IEC 17025	0001.01	11-30-26
Alabama	State	43200	01-31-26
Alaska	State	PA00009	06-30-25
Alaska (UST)	State	17-027	02-28-25
Arizona	State	AZ0780	03-12-25
Arkansas DEQ	State	88-00660	08-09-25
California	State	2792	01-31-26
Colorado	State	PA00009	06-30-25
Connecticut	State	PH-0746	06-30-25
Delaware (DW)	State	N/A	01-31-26
Florida	NELAP	E87997	06-30-25
Georgia (DW)	State	C048	01-31-26
Illinois	NELAP	200027	01-31-26
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-25
Kentucky (DW)	State	KY90088	12-31-25
Kentucky (UST)	State	0001.01	11-30-26
Kentucky (WW)	State	KY90088	12-31-25
Louisiana (All)	NELAP	02055	06-30-25
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219071-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Michigan	State	9930	01-31-25 *
Minnesota	NELAP	042-999-487	12-31-25
Mississippi	State	023	01-31-26
Missouri	State	450	01-31-28
Montana (DW)	State	0098	01-01-26
Nebraska	State	NE-OS-32-17	01-31-26
New Hampshire	NELAP	2730	01-10-26
New Jersey	NELAP	PA011	06-30-25
New York	NELAP	10670	04-01-25
North Carolina (DW)	State	42705	07-31-25
North Carolina (WW/SW)	State	521	12-31-25
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-25
Oregon	NELAP	PA200001	09-11-25
Pennsylvania	NELAP	36-00037	01-31-26
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-25
South Carolina	State	89002	01-31-25 *
Tennessee	State	02838	01-31-26
Texas	NELAP	T104704194-23-46	08-31-25
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-25
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-25
West Virginia (DW)	State	9906 C	01-31-26
West Virginia DEP	State	055	07-31-25
Wyoming	State	8TMS-L	01-31-26
Wyoming (UST)	A2LA	0001.01	11-30-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Chain of Custody Record 729931

eurofins | Environment Testing America

Address: 7830 N Central Dr Suite B, Lewis Center, OH 43035

Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Kari Lager-Lowe	Site Contact:	Date:	COC No:
Company Name: August Mack	Tel/Email: klagerlowe@augustmack.com	Lab Contact:	Carrier:	___ of ___ COCs
Address: ~~[redacted]~~	Analysis Turnaround Time: ☐ CALENDAR DAYS ☐ WORKING DAYS			Sampler: S Kuntzman
City/State/Zip: ~~[redacted]~~	TAT if different from Below ___			For Lab Use Only:
Phone: 740-548-1500	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day — Standard			Walk-in Client:
Fax:				Lab Sampling:
Project Name: MSC Canfield JY2380				Job / SDG No.
Site: 460 W Main St, Canfield OH				
PO#				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOC Short list 8260	Total RCRA8 metals+Zn	Diss. RCRA 8 metals+Zn	Hex. Chromium EPA 7199	Total Cyanide 9012	Free cyanide 1677	Sample Specific Notes:
SB-50-GW-2-12	02/14/25	12:45	G	GW	3		N	X						
SB-49-GW-2-12	02/14/25	14:45	G	GW	3		N	X						
SB-48-GW-2-12	02/14/25	17 10	G	GW	3		N	X						
TB-1-20250214	02/14/25		G	GW	3		N	X						
SB-44-GW-6-16	02/17/25	12 30	G	GW	7		N	X	X		X	X	X	
DUP-1-20250217	02/17/25	—	G	GW	7		N	X	X		X	X	X	
SB-44-GW-6-16 (Diss metals)	02/17/25	12 30	G	GW	1	Y	N			X				
DUP-1-20250217 (Diss metals)	02/17/25	—	G	GW	1	Y	N			X				
									4	4	5	5		

240-219071 COC

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other — 2 3 3 5 5

Possible Hazard Identification.
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ___ Months

Special Instructions/QC Requirements & Comments:
VOC Short list: TCE, cis-Dichloroethene, trans-dichloroethene, (or) 1,1-dichloroethene, vinyl chloride) *lab filter hex chrome

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C): Obs'd: ___ Corr'd: ___		Therm ID No.: ___
Relinquished by: Sarah Kuntzman	Company: AME	Date/Time: 02/17 15:30	Received by:	Company: EVR	Date/Time: 2/17/25 1530
Relinquished by:	Company: EVR	Date/Time: 2/17/25 1639	Received by: MALISSA LOAR	Company: EVR	Date/Time: 2/17/25 16'39
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client August Mack Site Name

Cooler Received on 2/17/25 Opened on 2/17/25

Cooler unpacked by: MALISSA LOAR

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off (Eurofins Courier) Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # 2 Foam Box Client Cooler Box Other

Packing material used. (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 13 (CF 0 °C) Observed Cooler Temp. 3.0 °C Corrected Cooler Temp 3.0 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity	Yes (No)	**Tests that are not checked for pH by Receiving:** VOAs, Oil and Grease, TOC
-Were the seals on the outside of the cooler(s) signed & dated?	Yes No (NA)	
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes (No)	
-Were tamper/custody seals intact and uncompromised?	Yes No (NA)	
3 Shippers' packing slip attached to the cooler(s)?	Yes (No)	
4 Did custody papers accompany the sample(s)?	(Yes) No	
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes) No	
6. Was/were the person(s) who collected the samples clearly identified on the COC?	(Yes) No	
7 Did all bottles arrive in good condition (Unbroken)?	(Yes) No	
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes) No	
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes) No	
11 Sufficient quantity received to perform indicated analyses?	(Yes) No	
12. Are these work share samples and all listed on the COC?	Yes (No)	
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	(Yes) No NA	pH Strip Lot# HC448976
14 Were VOAs on the COC?	(Yes) No	
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this.	Yes (No) NA	
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	(Yes) No	mL
17 Was a LL Hg or Me Hg trip blank present?	Yes (No)	

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

Sample SB-44-GW 6-16 was labeled on both DS metals per Client we picked on and made it the Dup-1

19. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container

Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory

Time preserved. Preservative(s) added/Lot number(s)

VOA Sample Preservation - Date/Time VOAs Frozen

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kalis, Nicole A	Carrier Tracking No(s): N/A	COC No: 240-198572.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Nicole.Kalis@et.eurofinsus.com	State of Origin: Ohio	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): N/A		Job #: 240-219071-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/3/2025			Preservation Codes: -
City: Lancaster	TAT Requested (days): N/A			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: MSC Canfield	Project #: 24033889			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1677_Free/ Cyanide, Free	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SB-44-GW-6-16 (240-219071-5)	2/17/25	12:30 Eastern	G	Water			X	1	Use caution! Site contaminated with solvent waste
DUP-1-20250214 (240-219071-6)	2/17/25	Eastern	G	Water			X	1	Use caution! Site contaminated with solvent waste

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: JF	Date/Time: 2/18/25	Company Eurs	Received by: [redacted]	Date/Time: [redacted]	Company
Relinquished by: [redacted]	Date/Time: [redacted]	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2/20/25 1010	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 10.9-10.9

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: August Mack Environmental, Inc.

Job Number: 240-219071-1

Login Number: 219071
List Number: 2
Creator: Ballard, Megan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 02/20/25 10:36 AM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kain Lager-Lowe
August Mack Environmental, Inc.
7830 North Central Drive, Suite B
Lewis Center, Ohio 43035

Generated 2/25/2025 1:34:55 PM

JOB DESCRIPTION

MSC Canfield Groundwater

JOB NUMBER

240-219113-1

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton OH 44203

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

Generated
2/25/2025 1:34:55 PM

Authorized for release by
Nicole Kalis, Project Manager I
Nicole.Kalis@et.eurofinsus.com
(330)497-9396

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 240-219113-1 Eurofins Cleveland

Job Narrative
240-219113-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/18/2025 3:26 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.5°C.

Receipt Exceptions
The following samples were submitted for analysis at Lancaster; however, it was not listed on the Chain-of-Custody (COC): SB-43-GW-10-20 (240-219113-1[MS]) and SB-43-GW-10-20 (240-219113-1[MSD])

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) analyzed in batch 240-645658 was outside the method criteria for the following analyte(s): Vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 6010D - Total Recoverable: The following samples were diluted due to the nature of the sample matrix: SB-43-GW-10-20 (240-219113-1), SB-43-GW-10-20 (240-219113-1[MS]) and SB-43-GW-10-20 (240-219113-1[MSD]). Elevated reporting limits (RLs) are provided.

Method 6010D - Total Recoverable: The following sample was diluted due to the nature of the sample matrix: SB-45-GW-14-24 (240-219113-2). Elevated reporting limits (RLs) are provided.

Method 7470A: The following sample was diluted due to the nature of the sample matrix: SB-45-GW-14-24 (240-219113-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method 1677_Free: The following sample was found to contain residual chlorine: SB-47-GW-10-20 (240-219113-4). The chlorine was treated and removed prior to preparation/analysis.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Method Summary

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield Groundwater

Job ID: 240-219113-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CLE
6010D	Metals (ICP)	SW846	EET CLE
7470A	Mercury (CVAA)	SW846	EET CLE
7196A	Chromium, Hexavalent	SW846	EET CLE
9012B	Cyanide, Total andor Amenable	SW846	EET CLE
OIA-1677	Cyanide, Free (Flow Injection)	OI CORP	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CLE
5030C	Purge and Trap	SW846	EET CLE
7470A	Preparation, Mercury	SW846	EET CLE
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET CLE
Filtration	Sample Filtration	None	EET CLE

Protocol References:

None = None

OI CORP = OI Corporation Instrument Manual.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield Groundwater

Job ID: 240-219113-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-219113-1	SB-43-GW-10-20	Water	02/17/25 17:50	02/18/25 15:26
240-219113-2	SB-45-GW-14-24	Water	02/18/25 07:55	02/18/25 15:26
240-219113-3	SB-46-GW-6-16	Water	02/18/25 08:40	02/18/25 15:26
240-219113-4	SB-47-GW-10-20	Water	02/18/25 09:00	02/18/25 15:26
240-219113-5	TB-2-20250217	Water	02/17/25 00:00	02/18/25 15:26

Detection Summary

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield Groundwater

Job ID: 240-219113-1

Client Sample ID: SB-43-GW-10-20 — Lab Sample ID: 240-219113-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.0		1.0	0.46	ug/L	1		8260D	Total/NA
Trichloroethene	2.7		1.0	0.44	ug/L	1		8260D	Total/NA
Arsenic	740		150	41	ug/L	1		6010D	Total Recoverable
Barium	1000	J B	2000	13	ug/L	1		6010D	Total Recoverable
Chromium	380		100	7.6	ug/L	1		6010D	Total Recoverable
Copper	690		250	35	ug/L	1		6010D	Total Recoverable
Lead	360		100	28	ug/L	1		6010D	Total Recoverable
Zinc	2200		500	230	ug/L	1		6010D	Total Recoverable
Barium	9.9	J B	200	1.3	ug/L	1		6010D	Dissolved
Mercury	0.15	J	0.20	0.13	ug/L	1		7470A	Total/NA
Cyanide, Total	0.0061	J B	0.010	0.0060	mg/L	1		9012B	Total/NA

Client Sample ID: SB-45-GW-14-24 — Lab Sample ID: 240-219113-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	140	J	200	92	ug/L	200		8260D	Total/NA
Trichloroethene	10000		200	88	ug/L	200		8260D	Total/NA
Arsenic	95		15	4.1	ug/L	1		6010D	Total Recoverable
Barium	160	J B	200	1.3	ug/L	1		6010D	Total Recoverable
Cadmium	1.1	J	5.0	0.45	ug/L	1		6010D	Total Recoverable
Chromium	76		10	0.76	ug/L	1		6010D	Total Recoverable
Copper	150		25	3.5	ug/L	1		6010D	Total Recoverable
Lead	77		10	2.8	ug/L	1		6010D	Total Recoverable
Zinc	490		50	23	ug/L	1		6010D	Total Recoverable
Barium	31	J	200	1.3	ug/L	1		6010D	Dissolved
Mercury	0.32		0.20	0.13	ug/L	1		7470A	Total/NA
Cyanide, Total	0.0062	J B	0.010	0.0060	mg/L	1		9012B	Total/NA

Client Sample ID: SB-46-GW-6-16 — Lab Sample ID: 240-219113-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.0089	J B	0.010	0.0060	mg/L	1		9012B	Total/NA

Client Sample ID: SB-47-GW-10-20 — Lab Sample ID: 240-219113-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.041	B	0.010	0.0060	mg/L	1		9012B	Total/NA

Client Sample ID: TB-2-20250217 — Lab Sample ID: 240-219113-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield Groundwater

Job ID: 240-219113-1

Client Sample ID: SB-43-GW-10-20

Date Collected: 02/17/25 17:50
Date Received: 02/18/25 15:26

Lab Sample ID: 240-219113-1

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.49	ug/L			02/21/25 13:12	1
cis-1,2-Dichloroethene	**1.0**		1.0	0.46	ug/L			02/21/25 13:12	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/L			02/21/25 13:12	1
Trichloroethene	**2.7**		1.0	0.44	ug/L			02/21/25 13:12	1
Vinyl chloride	ND	F2	1.0	0.45	ug/L			02/21/25 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*62 - 137*		*02/21/25 13:12*	*1*
4-Bromofluorobenzene (Surr)	*80*		*56 - 136*		*02/21/25 13:12*	*1*
Dibromofluoromethane (Surr)	*99*		*73 - 120*		*02/21/25 13:12*	*1*
Toluene-d8 (Surr)	*88*		*78 - 122*		*02/21/25 13:12*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**740**		150	41	ug/L		02/20/25 14:00	02/21/25 21:12	1
Barium	**1000**	**J B**	2000	13	ug/L		02/20/25 14:00	02/21/25 21:12	1
Cadmium	ND		50	4.5	ug/L		02/20/25 14:00	02/21/25 21:12	1
Chromium	**380**		100	7.6	ug/L		02/20/25 14:00	02/21/25 21:12	1
Copper	**690**		250	35	ug/L		02/20/25 14:00	02/21/25 21:12	1
Lead	**360**		100	28	ug/L		02/20/25 14:00	02/21/25 21:12	1
Selenium	ND		200	60	ug/L		02/20/25 14:00	02/21/25 21:12	1
Silver	ND		100	14	ug/L		02/20/25 14:00	02/21/25 21:12	1
Zinc	**2200**		500	230	ug/L		02/20/25 14:00	02/21/25 21:12	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	4.1	ug/L		02/20/25 14:00	02/21/25 21:41	1
Barium	**9.9**	**J B**	200	1.3	ug/L		02/20/25 14:00	02/21/25 21:41	1
Cadmium	ND		5.0	0.45	ug/L		02/20/25 14:00	02/21/25 21:41	1
Chromium	ND		10	0.76	ug/L		02/20/25 14:00	02/21/25 21:41	1
Copper	ND		25	3.5	ug/L		02/20/25 14:00	02/21/25 21:41	1
Lead	ND		10	2.8	ug/L		02/20/25 14:00	02/21/25 21:41	1
Selenium	ND		20	6.0	ug/L		02/20/25 14:00	02/21/25 21:41	1
Silver	ND	F2	10	1.4	ug/L		02/20/25 14:00	02/21/25 21:41	1
Zinc	ND		50	23	ug/L		02/20/25 14:00	02/21/25 21:41	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.15**	**J**	0.20	0.13	ug/L		02/20/25 14:00	02/21/25 10:55	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		02/20/25 14:00	02/21/25 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.0061**	**J B**	0.010	0.0060	mg/L		02/24/25 13:00	02/24/25 15:36	1
Cyanide, Free (OI CORP OIA-1677)	ND		0.0060	0.0050	mg/L			02/22/25 13:39	1

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield Groundwater

Job ID: 240-219113-1

Client Sample ID: SB-43-GW-10-20
Date Collected: 02/17/25 17:50
Date Received: 02/18/25 15:26

Lab Sample ID: 240-219113-1
Matrix: Water

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SW846 7196A)	ND		1.0	0.35	mg/L			02/18/25 15:40	50

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield Groundwater

Job ID: 240-219113-1

Client Sample ID: SB-45-GW-14-24

Date Collected: 02/18/25 07:55
Date Received: 02/18/25 15:26

Lab Sample ID: 240-219113-2

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		200	98	ug/L			02/21/25 13:30	200
cis-1,2-Dichloroethene	**140**	**J**	200	92	ug/L			02/21/25 13:30	200
trans-1,2-Dichloroethene	ND		200	100	ug/L			02/21/25 13:30	200
Trichloroethene	**10000**		200	88	ug/L			02/21/25 13:30	200
Vinyl chloride	ND		200	90	ug/L			02/21/25 13:30	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*62 - 137*		*02/21/25 13:30*	*200*
4-Bromofluorobenzene (Surr)	*84*		*56 - 136*		*02/21/25 13:30*	*200*
Dibromofluoromethane (Surr)	*107*		*73 - 120*		*02/21/25 13:30*	*200*
Toluene-d8 (Surr)	*95*		*78 - 122*		*02/21/25 13:30*	*200*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**95**		15	4.1	ug/L		02/20/25 14:00	02/21/25 22:19	1
Barium	**160**	**J B**	200	1.3	ug/L		02/20/25 14:00	02/21/25 22:19	1
Cadmium	**1.1**	**J**	5.0	0.45	ug/L		02/20/25 14:00	02/21/25 22:19	1
Chromium	**76**		10	0.76	ug/L		02/20/25 14:00	02/21/25 22:19	1
Copper	**150**		25	3.5	ug/L		02/20/25 14:00	02/21/25 22:19	1
Lead	**77**		10	2.8	ug/L		02/20/25 14:00	02/21/25 22:19	1
Selenium	ND		20	6.0	ug/L		02/20/25 14:00	02/21/25 22:19	1
Silver	ND		10	1.4	ug/L		02/20/25 14:00	02/21/25 22:19	1
Zinc	**490**		50	23	ug/L		02/20/25 14:00	02/21/25 22:19	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	4.1	ug/L		02/19/25 14:00	02/20/25 15:41	1
Barium	**31**	**J**	200	1.3	ug/L		02/19/25 14:00	02/20/25 15:41	1
Cadmium	ND		5.0	0.45	ug/L		02/19/25 14:00	02/20/25 15:41	1
Chromium	ND		10	0.76	ug/L		02/19/25 14:00	02/20/25 15:41	1
Copper	ND		25	3.5	ug/L		02/19/25 14:00	02/20/25 15:41	1
Lead	ND		10	2.8	ug/L		02/19/25 14:00	02/20/25 15:41	1
Selenium	ND		20	6.0	ug/L		02/19/25 14:00	02/20/25 15:41	1
Silver	ND		10	1.4	ug/L		02/19/25 14:00	02/20/25 15:41	1
Zinc	ND		50	23	ug/L		02/19/25 14:00	02/20/25 15:41	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.32**		0.20	0.13	ug/L		02/20/25 14:00	02/21/25 11:12	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		02/19/25 14:00	02/20/25 10:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.0062**	**J B**	0.010	0.0060	mg/L		02/24/25 13:00	02/24/25 15:42	1
Cyanide, Free (OI CORP OIA-1677)	ND		0.0060	0.0050	mg/L			02/22/25 13:46	1

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield Groundwater

Job ID: 240-219113-1

Client Sample ID: SB-45-GW-14-24
Date Collected: 02/18/25 07:55
Date Received: 02/18/25 15:26

Lab Sample ID: 240-219113-2
Matrix: Water

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SW846 7196A)	ND		1.0	0.35	mg/L			02/18/25 15:43	50

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield Groundwater

Job ID: 240-219113-1

Client Sample ID: SB-46-GW-6-16

Lab Sample ID: 240-219113-3

Date Collected: 02/18/25 08:40

Matrix: Water

Date Received: 02/18/25 15:26

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.49	ug/L			02/21/25 13:48	1
cis-1,2-Dichloroethene	ND		1.0	0.46	ug/L			02/21/25 13:48	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/L			02/21/25 13:48	1
Trichloroethene	ND		1.0	0.44	ug/L			02/21/25 13:48	1
Vinyl chloride	ND		1.0	0.45	ug/L			02/21/25 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*62 - 137*		*02/21/25 13:48*	*1*
4-Bromofluorobenzene (Surr)	*86*		*56 - 136*		*02/21/25 13:48*	*1*
Dibromofluoromethane (Surr)	*109*		*73 - 120*		*02/21/25 13:48*	*1*
Toluene-d8 (Surr)	*95*		*78 - 122*		*02/21/25 13:48*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.0089**	**J B**	0.010	0.0060	mg/L		02/24/25 13:00	02/24/25 15:43	1
Cyanide, Free (OI CORP OIA-1677)	ND		0.0060	0.0050	mg/L			02/22/25 13:49	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SW846 7196A)	ND		1.0	0.35	mg/L			02/18/25 15:44	50

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield Groundwater

Job ID: 240-219113-1

Client Sample ID: SB-47-GW-10-20

Lab Sample ID: 240-219113-4

Date Collected: 02/18/25 09:00

Matrix: Water

Date Received: 02/18/25 15:26

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.49	ug/L			02/21/25 14:06	1
cis-1,2-Dichloroethene	ND		1.0	0.46	ug/L			02/21/25 14:06	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/L			02/21/25 14:06	1
Trichloroethene	ND		1.0	0.44	ug/L			02/21/25 14:06	1
Vinyl chloride	ND		1.0	0.45	ug/L			02/21/25 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*62 - 137*		*02/21/25 14:06*	*1*
4-Bromofluorobenzene (Surr)	*79*		*56 - 136*		*02/21/25 14:06*	*1*
Dibromofluoromethane (Surr)	*103*		*73 - 120*		*02/21/25 14:06*	*1*
Toluene-d8 (Surr)	*88*		*78 - 122*		*02/21/25 14:06*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	**0.041**	**B**	0.010	0.0060	mg/L		02/24/25 13:00	02/24/25 15:45	1
Cyanide, Free (OI CORP OIA-1677)	ND		0.0060	0.0050	mg/L			02/22/25 13:51	1

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield Groundwater

Job ID: 240-219113-1

Client Sample ID: TB-2-20250217
Date Collected: 02/17/25 00:00
Date Received: 02/18/25 15:26

Lab Sample ID: 240-219113-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.49	ug/L			02/21/25 14:24	1
cis-1,2-Dichloroethene	ND		1.0	0.46	ug/L			02/21/25 14:24	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/L			02/21/25 14:24	1
Trichloroethene	ND		1.0	0.44	ug/L			02/21/25 14:24	1
Vinyl chloride	ND		1.0	0.45	ug/L			02/21/25 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*62 - 137*		*02/21/25 14:24*	*1*
4-Bromofluorobenzene (Surr)	*86*		*56 - 136*		*02/21/25 14:24*	*1*
Dibromofluoromethane (Surr)	*109*		*73 - 120*		*02/21/25 14:24*	*1*
Toluene-d8 (Surr)	*94*		*78 - 122*		*02/21/25 14:24*	*1*

Surrogate Summary

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield Groundwater

Job ID: 240-219113-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(73-120)	(78-122)
240-219113-1	SB-43-GW-10-20	97	80	99	88
240-219113-1 MS	SB-43-GW-10-20	85	97	94	94
240-219113-1 MSD	SB-43-GW-10-20	82	96	90	93
240-219113-2	SB-45-GW-14-24	105	84	107	95
240-219113-3	SB-46-GW-6-16	108	86	109	95
240-219113-4	SB-47-GW-10-20	100	79	103	88
240-219113-5	TB-2-20250217	107	86	109	94
LCS 240-645658/4	Lab Control Sample	89	103	96	103
MB 240-645658/7	Method Blank	96	81	100	87

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 240-645658/7
Matrix: Water
Analysis Batch: 645658

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.49	ug/L			02/21/25 11:25	1
cis-1,2-Dichloroethene	ND		1.0	0.46	ug/L			02/21/25 11:25	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/L			02/21/25 11:25	1
Trichloroethene	ND		1.0	0.44	ug/L			02/21/25 11:25	1
Vinyl chloride	ND		1.0	0.45	ug/L			02/21/25 11:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*62 - 137*		*02/21/25 11:25*	*1*
4-Bromofluorobenzene (Surr)	*81*		*56 - 136*		*02/21/25 11:25*	*1*
Dibromofluoromethane (Surr)	*100*		*73 - 120*		*02/21/25 11:25*	*1*
Toluene-d8 (Surr)	*87*		*78 - 122*		*02/21/25 11:25*	*1*

Lab Sample ID: LCS 240-645658/4
Matrix: Water
Analysis Batch: 645658

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	25.0	22.8		ug/L		91	63 - 134
cis-1,2-Dichloroethene	25.0	22.9		ug/L		92	77 - 123
trans-1,2-Dichloroethene	25.0	23.1		ug/L		92	75 - 124
Trichloroethene	25.0	22.3		ug/L		89	70 - 122
Vinyl chloride	12.5	9.29		ug/L		74	60 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*62 - 137*
4-Bromofluorobenzene (Surr)	*103*		*56 - 136*
Dibromofluoromethane (Surr)	*96*		*73 - 120*
Toluene-d8 (Surr)	*103*		*78 - 122*

Lab Sample ID: 240-219113-1 MS
Matrix: Water
Analysis Batch: 645658

Client Sample ID: SB-43-GW-10-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	ND		25.0	20.5		ug/L		82	56 - 135
cis-1,2-Dichloroethene	1.0		25.0	22.4		ug/L		85	66 - 128
trans-1,2-Dichloroethene	ND		25.0	20.8		ug/L		83	56 - 136
Trichloroethene	2.7		25.0	24.3		ug/L		87	61 - 124
Vinyl chloride	ND	F2	12.5	6.95		ug/L		56	43 - 157

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*62 - 137*
4-Bromofluorobenzene (Surr)	*97*		*56 - 136*
Dibromofluoromethane (Surr)	*94*		*73 - 120*
Toluene-d8 (Surr)	*94*		*78 - 122*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 240-219113-1 MSD
Matrix: Water
Analysis Batch: 645658

Client Sample ID: SB-43-GW-10-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	ND		25.0	24.5		ug/L		98	56 - 135	18	26
cis-1,2-Dichloroethene	1.0		25.0	24.1		ug/L		92	66 - 128	8	14
trans-1,2-Dichloroethene	ND		25.0	23.1		ug/L		92	56 - 136	10	15
Trichloroethene	2.7		25.0	25.8		ug/L		92	61 - 124	6	15
Vinyl chloride	ND	F2	12.5	9.50	F2	ug/L		76	43 - 157	31	24

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*82*		*62 - 137*
4-Bromofluorobenzene (Surr)	*96*		*56 - 136*
Dibromofluoromethane (Surr)	*90*		*73 - 120*
Toluene-d8 (Surr)	*93*		*78 - 122*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-645380/1-A
Matrix: Water
Analysis Batch: 645593

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 645380

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	4.1	ug/L		02/19/25 14:00	02/20/25 13:38	1
Barium	ND		200	1.3	ug/L		02/19/25 14:00	02/20/25 13:38	1
Cadmium	ND		5.0	0.45	ug/L		02/19/25 14:00	02/20/25 13:38	1
Chromium	ND		10	0.76	ug/L		02/19/25 14:00	02/20/25 13:38	1
Copper	ND		25	3.5	ug/L		02/19/25 14:00	02/20/25 13:38	1
Lead	ND		10	2.8	ug/L		02/19/25 14:00	02/20/25 13:38	1
Selenium	ND		20	6.0	ug/L		02/19/25 14:00	02/20/25 13:38	1
Silver	ND		10	1.4	ug/L		02/19/25 14:00	02/20/25 13:38	1
Zinc	ND		50	23	ug/L		02/19/25 14:00	02/20/25 13:38	1

Lab Sample ID: LCS 240-645380/2-A
Matrix: Water
Analysis Batch: 645593

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 645380

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	2000	2000		ug/L		100	80 - 120
Barium	2000	1970		ug/L		98	80 - 120
Cadmium	1000	933		ug/L		93	80 - 120
Chromium	1000	954		ug/L		95	80 - 120
Copper	1000	913		ug/L		91	80 - 120
Lead	1000	919		ug/L		92	80 - 120
Selenium	2000	2000		ug/L		100	80 - 120
Silver	100	88.1		ug/L		88	80 - 120
Zinc	1000	1010		ug/L		101	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 240-645541/1-A
Matrix: Water
Analysis Batch: 645758

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 645541

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	4.1	ug/L		02/20/25 14:00	02/21/25 21:03	1
Barium	2.92	J	200	1.3	ug/L		02/20/25 14:00	02/21/25 21:03	1
Cadmium	ND		5.0	0.45	ug/L		02/20/25 14:00	02/21/25 21:03	1
Chromium	ND		10	0.76	ug/L		02/20/25 14:00	02/21/25 21:03	1
Copper	ND		25	3.5	ug/L		02/20/25 14:00	02/21/25 21:03	1
Lead	ND		10	2.8	ug/L		02/20/25 14:00	02/21/25 21:03	1
Selenium	ND		20	6.0	ug/L		02/20/25 14:00	02/21/25 21:03	1
Silver	ND		10	1.4	ug/L		02/20/25 14:00	02/21/25 21:03	1
Zinc	ND		50	23	ug/L		02/20/25 14:00	02/21/25 21:03	1

Lab Sample ID: LCS 240-645541/2-A
Matrix: Water
Analysis Batch: 645758

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 645541

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	2000	2030		ug/L		102	80 - 120
Barium	2000	1870		ug/L		93	80 - 120
Cadmium	1000	961		ug/L		96	80 - 120
Chromium	1000	936		ug/L		94	80 - 120
Copper	1000	918		ug/L		92	80 - 120
Lead	1000	930		ug/L		93	80 - 120
Selenium	2000	2040		ug/L		102	80 - 120
Silver	100	90.0		ug/L		90	80 - 120
Zinc	1000	1040		ug/L		104	80 - 120

Lab Sample ID: 240-219113-1 MS
Matrix: Water
Analysis Batch: 645758

Client Sample ID: SB-43-GW-10-20
Prep Type: Total Recoverable
Prep Batch: 645541

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	740		20000	20700		ug/L		100	75 - 125
Barium	1000	J B	20000	20000		ug/L		95	75 - 125
Cadmium	ND		10000	9500		ug/L		95	75 - 125
Chromium	380		10000	9730		ug/L		93	75 - 125
Copper	690		10000	9840		ug/L		91	75 - 125
Lead	360		10000	9480		ug/L		91	75 - 125
Selenium	ND		20000	20100		ug/L		100	75 - 125
Silver	ND		1000	914		ug/L		91	75 - 125
Zinc	2200		10000	12700		ug/L		104	75 - 125

Lab Sample ID: 240-219113-1 MSD
Matrix: Water
Analysis Batch: 645758

Client Sample ID: SB-43-GW-10-20
Prep Type: Total Recoverable
Prep Batch: 645541

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	740		20000	20500		ug/L		99	75 - 125	1	20
Barium	1000	J B	20000	19800		ug/L		94	75 - 125	1	20
Cadmium	ND		10000	9400		ug/L		94	75 - 125	1	20
Chromium	380		10000	9670		ug/L		93	75 - 125	1	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 240-219113-1 MSD
Matrix: Water
Analysis Batch: 645758

Client Sample ID: SB-43-GW-10-20
Prep Type: Total Recoverable
Prep Batch: 645541

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	690		10000	9760		ug/L		91	75 - 125	1	20
Lead	360		10000	9370		ug/L		90	75 - 125	1	20
Selenium	ND		20000	19800		ug/L		99	75 - 125	1	20
Silver	ND		1000	982		ug/L		98	75 - 125	7	20
Zinc	2200		10000	12600		ug/L		104	75 - 125	1	20

Lab Sample ID: 240-219113-1 MS
Matrix: Water
Analysis Batch: 645758

Client Sample ID: SB-43-GW-10-20
Prep Type: Dissolved
Prep Batch: 645541

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		2000	2000		ug/L		100	75 - 125
Barium	9.9	J B	2000	1870		ug/L		93	75 - 125
Cadmium	ND		1000	941		ug/L		94	75 - 125
Chromium	ND		1000	918		ug/L		92	75 - 125
Copper	ND		1000	905		ug/L		90	75 - 125
Lead	ND		1000	907		ug/L		91	75 - 125
Selenium	ND		2000	2000		ug/L		100	75 - 125
Silver	ND	F2	100	89.6		ug/L		90	75 - 125
Zinc	ND		1000	1020		ug/L		102	75 - 125

Lab Sample ID: 240-219113-1 MSD
Matrix: Water
Analysis Batch: 645758

Client Sample ID: SB-43-GW-10-20
Prep Type: Dissolved
Prep Batch: 645541

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		2000	2010		ug/L		101	75 - 125	1	20
Barium	9.9	J B	2000	1870		ug/L		93	75 - 125	0	20
Cadmium	ND		1000	946		ug/L		95	75 - 125	1	20
Chromium	ND		1000	926		ug/L		93	75 - 125	1	20
Copper	ND		1000	908		ug/L		91	75 - 125	0	20
Lead	ND		1000	913		ug/L		91	75 - 125	1	20
Selenium	ND		2000	2000		ug/L		100	75 - 125	0	20
Silver	ND	F2	100	112	F2	ug/L		112	75 - 125	23	20
Zinc	ND		1000	1030		ug/L		103	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-645382/1-A
Matrix: Water
Analysis Batch: 645533

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		02/19/25 14:00	02/20/25 09:53	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 240-645382/2-A
Matrix: Water
Analysis Batch: 645533

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.24		ug/L		105	80 - 120

Lab Sample ID: MB 240-645543/1-A
Matrix: Water
Analysis Batch: 645775

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645543

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		02/20/25 14:00	02/21/25 10:51	1

Lab Sample ID: LCS 240-645543/2-A
Matrix: Water
Analysis Batch: 645775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.09		ug/L		102	80 - 120

Lab Sample ID: 240-219113-1 MS
Matrix: Water
Analysis Batch: 645775

Client Sample ID: SB-43-GW-10-20
Prep Type: Total/NA
Prep Batch: 645543

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.15	J	1.00	1.23		ug/L		108	80 - 120

Lab Sample ID: 240-219113-1 MSD
Matrix: Water
Analysis Batch: 645775

Client Sample ID: SB-43-GW-10-20
Prep Type: Total/NA
Prep Batch: 645543

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.15	J	1.00	1.23		ug/L		108	80 - 120	0	20

Lab Sample ID: 240-219113-1 MS
Matrix: Water
Analysis Batch: 645775

Client Sample ID: SB-43-GW-10-20
Prep Type: Dissolved
Prep Batch: 645543

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		1.00	1.12		ug/L		112	80 - 120

Lab Sample ID: 240-219113-1 MSD
Matrix: Water
Analysis Batch: 645775

Client Sample ID: SB-43-GW-10-20
Prep Type: Dissolved
Prep Batch: 645543

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		1.00	1.03		ug/L		103	80 - 120	8	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: 240-219113-1 MS
Matrix: Water
Analysis Batch: 645178

Client Sample ID: SB-43-GW-10-20
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	ND		12.5	13.4		mg/L		107	85 - 115

Lab Sample ID: 240-219113-1 MSD
Matrix: Water
Analysis Batch: 645178

Client Sample ID: SB-43-GW-10-20
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	ND		12.5	12.8		mg/L		103	85 - 115	4	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 240-645887/1-A
Matrix: Water
Analysis Batch: 645903

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645887

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00700	J	0.010	0.0060	mg/L		02/24/25 13:00	02/24/25 14:38	1

Lab Sample ID: LCS 240-645887/2-A
Matrix: Water
Analysis Batch: 645903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645887

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.327	0.334		mg/L		102	85 - 115

Lab Sample ID: 240-219113-1 MS
Matrix: Water
Analysis Batch: 645903

Client Sample ID: SB-43-GW-10-20
Prep Type: Total/NA
Prep Batch: 645887

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.0061	J B	0.0400	0.0452		mg/L		98	22 - 135

Lab Sample ID: 240-219113-1 MSD
Matrix: Water
Analysis Batch: 645903

Client Sample ID: SB-43-GW-10-20
Prep Type: Total/NA
Prep Batch: 645887

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.0061	J B	0.0400	0.0437		mg/L		94	22 - 135	3	40

Method: OIA-1677 - Cyanide, Free (Flow Injection)

Lab Sample ID: MB 410-609005/53
Matrix: Water
Analysis Batch: 609005

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Free	ND		0.0060	0.0050	mg/L			02/22/25 13:36	1

Method: OIA-1677 - Cyanide, Free (Flow Injection) (Continued)

Lab Sample ID: LCS 410-609005/52
Matrix: Water
Analysis Batch: 609005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Free			0.0500	0.0534		mg/L		107	82 - 132		

Lab Sample ID: 240-219113-1 MS
Matrix: Water
Analysis Batch: 609005

Client Sample ID: SB-43-GW-10-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Free	ND		0.0500	0.0541		mg/L		108	82 - 130		

Lab Sample ID: 240-219113-1 MSD
Matrix: Water
Analysis Batch: 609005

Client Sample ID: SB-43-GW-10-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Free	ND		0.0500	0.0549		mg/L		110	82 - 130	2	11

GC/MS VOA

Analysis Batch: 645658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219113-1	SB-43-GW-10-20	Total/NA	Water	8260D	
240-219113-2	SB-45-GW-14-24	Total/NA	Water	8260D	
240-219113-3	SB-46-GW-6-16	Total/NA	Water	8260D	
240-219113-4	SB-47-GW-10-20	Total/NA	Water	8260D	
240-219113-5	TB-2-20250217	Total/NA	Water	8260D	
MB 240-645658/7	Method Blank	Total/NA	Water	8260D	
LCS 240-645658/4	Lab Control Sample	Total/NA	Water	8260D	
240-219113-1 MS	SB-43-GW-10-20	Total/NA	Water	8260D	
240-219113-1 MSD	SB-43-GW-10-20	Total/NA	Water	8260D	

Metals

Prep Batch: 645380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219113-2	SB-45-GW-14-24	Dissolved	Water	3005A	
MB 240-645380/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-645380/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 645382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219113-2	SB-45-GW-14-24	Dissolved	Water	7470A	
MB 240-645382/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-645382/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 645533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-645382/1-A	Method Blank	Total/NA	Water	7470A	645382
LCS 240-645382/2-A	Lab Control Sample	Total/NA	Water	7470A	645382

Prep Batch: 645541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219113-1	SB-43-GW-10-20	Dissolved	Water	3005A	
240-219113-1	SB-43-GW-10-20	Total Recoverable	Water	3005A	
240-219113-2	SB-45-GW-14-24	Total Recoverable	Water	3005A	
MB 240-645541/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-645541/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-219113-1 MS	SB-43-GW-10-20	Dissolved	Water	3005A	
240-219113-1 MS	SB-43-GW-10-20	Total Recoverable	Water	3005A	
240-219113-1 MSD	SB-43-GW-10-20	Dissolved	Water	3005A	
240-219113-1 MSD	SB-43-GW-10-20	Total Recoverable	Water	3005A	

Prep Batch: 645543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219113-1	SB-43-GW-10-20	Dissolved	Water	7470A	
240-219113-1	SB-43-GW-10-20	Total/NA	Water	7470A	
240-219113-2	SB-45-GW-14-24	Total/NA	Water	7470A	
MB 240-645543/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-645543/2-A	Lab Control Sample	Total/NA	Water	7470A	
240-219113-1 MS	SB-43-GW-10-20	Dissolved	Water	7470A	
240-219113-1 MS	SB-43-GW-10-20	Total/NA	Water	7470A	
240-219113-1 MSD	SB-43-GW-10-20	Dissolved	Water	7470A	

Metals (Continued)

Prep Batch: 645543 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219113-1 MSD	SB-43-GW-10-20	Total/NA	Water	7470A	

Analysis Batch: 645593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219113-2	SB-45-GW-14-24	Dissolved	Water	6010D	645380
MB 240-645380/1-A	Method Blank	Total Recoverable	Water	6010D	645380
LCS 240-645380/2-A	Lab Control Sample	Total Recoverable	Water	6010D	645380

Analysis Batch: 645642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219113-2	SB-45-GW-14-24	Dissolved	Water	7470A	645382

Analysis Batch: 645758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219113-1	SB-43-GW-10-20	Dissolved	Water	6010D	645541
240-219113-1	SB-43-GW-10-20	Total Recoverable	Water	6010D	645541
240-219113-2	SB-45-GW-14-24	Total Recoverable	Water	6010D	645541
MB 240-645541/1-A	Method Blank	Total Recoverable	Water	6010D	645541
LCS 240-645541/2-A	Lab Control Sample	Total Recoverable	Water	6010D	645541
240-219113-1 MS	SB-43-GW-10-20	Dissolved	Water	6010D	645541
240-219113-1 MS	SB-43-GW-10-20	Total Recoverable	Water	6010D	645541
240-219113-1 MSD	SB-43-GW-10-20	Dissolved	Water	6010D	645541
240-219113-1 MSD	SB-43-GW-10-20	Total Recoverable	Water	6010D	645541

Analysis Batch: 645775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219113-1	SB-43-GW-10-20	Dissolved	Water	7470A	645543
240-219113-1	SB-43-GW-10-20	Total/NA	Water	7470A	645543
240-219113-2	SB-45-GW-14-24	Total/NA	Water	7470A	645543
MB 240-645543/1-A	Method Blank	Total/NA	Water	7470A	645543
LCS 240-645543/2-A	Lab Control Sample	Total/NA	Water	7470A	645543
240-219113-1 MS	SB-43-GW-10-20	Dissolved	Water	7470A	645543
240-219113-1 MS	SB-43-GW-10-20	Total/NA	Water	7470A	645543
240-219113-1 MSD	SB-43-GW-10-20	Dissolved	Water	7470A	645543
240-219113-1 MSD	SB-43-GW-10-20	Total/NA	Water	7470A	645543

General Chemistry

Analysis Batch: 609005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219113-1	SB-43-GW-10-20	Total/NA	Water	OIA-1677	
240-219113-2	SB-45-GW-14-24	Total/NA	Water	OIA-1677	
240-219113-3	SB-46-GW-6-16	Total/NA	Water	OIA-1677	
240-219113-4	SB-47-GW-10-20	Total/NA	Water	OIA-1677	
MB 410-609005/53	Method Blank	Total/NA	Water	OIA-1677	
LCS 410-609005/52	Lab Control Sample	Total/NA	Water	OIA-1677	
240-219113-1 MS	SB-43-GW-10-20	Total/NA	Water	OIA-1677	
240-219113-1 MSD	SB-43-GW-10-20	Total/NA	Water	OIA-1677	

General Chemistry

Analysis Batch: 645178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219113-1	SB-43-GW-10-20	Dissolved	Water	7196A	645320
240-219113-2	SB-45-GW-14-24	Dissolved	Water	7196A	645320
240-219113-3	SB-46-GW-6-16	Dissolved	Water	7196A	645320
240-219113-1 MS	SB-43-GW-10-20	Dissolved	Water	7196A	645320
240-219113-1 MSD	SB-43-GW-10-20	Dissolved	Water	7196A	645320

Filtration Batch: 645320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219113-1	SB-43-GW-10-20	Dissolved	Water	Filtration	
240-219113-2	SB-45-GW-14-24	Dissolved	Water	Filtration	
240-219113-3	SB-46-GW-6-16	Dissolved	Water	Filtration	
240-219113-1 MS	SB-43-GW-10-20	Dissolved	Water	Filtration	
240-219113-1 MSD	SB-43-GW-10-20	Dissolved	Water	Filtration	

Prep Batch: 645887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219113-1	SB-43-GW-10-20	Total/NA	Water	9012B	
240-219113-2	SB-45-GW-14-24	Total/NA	Water	9012B	
240-219113-3	SB-46-GW-6-16	Total/NA	Water	9012B	
240-219113-4	SB-47-GW-10-20	Total/NA	Water	9012B	
MB 240-645887/1-A	Method Blank	Total/NA	Water	9012B	
LCS 240-645887/2-A	Lab Control Sample	Total/NA	Water	9012B	
240-219113-1 MS	SB-43-GW-10-20	Total/NA	Water	9012B	
240-219113-1 MSD	SB-43-GW-10-20	Total/NA	Water	9012B	

Analysis Batch: 645903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219113-1	SB-43-GW-10-20	Total/NA	Water	9012B	645887
240-219113-2	SB-45-GW-14-24	Total/NA	Water	9012B	645887
240-219113-3	SB-46-GW-6-16	Total/NA	Water	9012B	645887
240-219113-4	SB-47-GW-10-20	Total/NA	Water	9012B	645887
MB 240-645887/1-A	Method Blank	Total/NA	Water	9012B	645887
LCS 240-645887/2-A	Lab Control Sample	Total/NA	Water	9012B	645887
240-219113-1 MS	SB-43-GW-10-20	Total/NA	Water	9012B	645887
240-219113-1 MSD	SB-43-GW-10-20	Total/NA	Water	9012B	645887

Lab Chronicle

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield Groundwater

Job ID: 240-219113-1

Client Sample ID: SB-43-GW-10-20

Lab Sample ID: 240-219113-1

Date Collected: 02/17/25 17:50

Matrix: Water

Date Received: 02/18/25 15:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	645658	LEE	EET CLE	02/21/25 13:12
Dissolved	Prep	3005A			645541	XWS6	EET CLE	02/20/25 14:00
Dissolved	Analysis	6010D		1	645758	AJC	EET CLE	02/21/25 21:41
Total Recoverable	Prep	3005A			645541	XWS6	EET CLE	02/20/25 14:00
Total Recoverable	Analysis	6010D		1	645758	AJC	EET CLE	02/21/25 21:12
Dissolved	Prep	7470A			645543	XWS6	EET CLE	02/20/25 14:00
Dissolved	Analysis	7470A		1	645775	S4FJ	EET CLE	02/21/25 11:00
Total/NA	Prep	7470A			645543	XWS6	EET CLE	02/20/25 14:00
Total/NA	Analysis	7470A		1	645775	S4FJ	EET CLE	02/21/25 10:55
Dissolved	Filtration	Filtration			645320	BLW	EET CLE	02/18/25 15:00
Dissolved	Analysis	7196A		50	645178	C5SV	EET CLE	02/18/25 15:40
Total/NA	Prep	9012B			645887	BLW	EET CLE	02/24/25 13:00
Total/NA	Analysis	9012B		1	645903	BLW	EET CLE	02/24/25 15:36
Total/NA	Analysis	OIA-1677		1	609005	Q3HN	ELLE	02/22/25 13:39

Client Sample ID: SB-45-GW-14-24

Lab Sample ID: 240-219113-2

Date Collected: 02/18/25 07:55

Matrix: Water

Date Received: 02/18/25 15:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		200	645658	LEE	EET CLE	02/21/25 13:30
Dissolved	Prep	3005A			645380	XWS6	EET CLE	02/19/25 14:00
Dissolved	Analysis	6010D		1	645593	AJC	EET CLE	02/20/25 15:41
Total Recoverable	Prep	3005A			645541	XWS6	EET CLE	02/20/25 14:00
Total Recoverable	Analysis	6010D		1	645758	AJC	EET CLE	02/21/25 22:19
Dissolved	Prep	7470A			645382	XWS6	EET CLE	02/19/25 14:00
Dissolved	Analysis	7470A		1	645642	S4FJ	EET CLE	02/20/25 10:44
Total/NA	Prep	7470A			645543	XWS6	EET CLE	02/20/25 14:00
Total/NA	Analysis	7470A		1	645775	S4FJ	EET CLE	02/21/25 11:12
Dissolved	Filtration	Filtration			645320	BLW	EET CLE	02/18/25 15:00
Dissolved	Analysis	7196A		50	645178	C5SV	EET CLE	02/18/25 15:43
Total/NA	Prep	9012B			645887	BLW	EET CLE	02/24/25 13:00
Total/NA	Analysis	9012B		1	645903	BLW	EET CLE	02/24/25 15:42
Total/NA	Analysis	OIA-1677		1	609005	Q3HN	ELLE	02/22/25 13:46

Client Sample ID: SB-46-GW-6-16

Lab Sample ID: 240-219113-3

Date Collected: 02/18/25 08:40

Matrix: Water

Date Received: 02/18/25 15:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	645658	LEE	EET CLE	02/21/25 13:48
Dissolved	Filtration	Filtration			645320	BLW	EET CLE	02/18/25 15:00
Dissolved	Analysis	7196A		50	645178	C5SV	EET CLE	02/18/25 15:44

Lab Chronicle

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield Groundwater

Job ID: 240-219113-1

Client Sample ID: SB-46-GW-6-16

Lab Sample ID: 240-219113-3

Date Collected: 02/18/25 08:40

Matrix: Water

Date Received: 02/18/25 15:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9012B			645887	BLW	EET CLE	02/24/25 13:00
Total/NA	Analysis	9012B		1	645903	BLW	EET CLE	02/24/25 15:43
Total/NA	Analysis	OIA-1677		1	609005	Q3HN	ELLE	02/22/25 13:49

Client Sample ID: SB-47-GW-10-20

Lab Sample ID: 240-219113-4

Date Collected: 02/18/25 09:00

Matrix: Water

Date Received: 02/18/25 15:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	645658	LEE	EET CLE	02/21/25 14:06
Total/NA	Prep	9012B			645887	BLW	EET CLE	02/24/25 13:00
Total/NA	Analysis	9012B		1	645903	BLW	EET CLE	02/24/25 15:45
Total/NA	Analysis	OIA-1677		1	609005	Q3HN	ELLE	02/22/25 13:51

Client Sample ID: TB-2-20250217

Lab Sample ID: 240-219113-5

Date Collected: 02/17/25 00:00

Matrix: Water

Date Received: 02/18/25 15:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	645658	LEE	EET CLE	02/21/25 14:24

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield Groundwater

Job ID: 240-219113-1

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-26
A2LA	Dept. of Energy	0001.01	11-30-26
A2LA	ISO/IEC 17025	0001.01	11-30-26
Alabama	State	43200	01-31-26
Alaska	State	PA00009	06-30-25
Alaska (UST)	State	17-027	02-28-25
Arizona	State	AZ0780	03-12-25
Arkansas DEQ	State	88-00660	08-09-25
California	State	2792	01-31-26
Colorado	State	PA00009	06-30-25
Connecticut	State	PH-0746	06-30-25
Delaware (DW)	State	N/A	01-31-26
Florida	NELAP	E87997	06-30-25
Georgia (DW)	State	C048	01-31-26
Illinois	NELAP	200027	01-31-26
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-25
Kentucky (DW)	State	KY90088	12-31-25
Kentucky (UST)	State	0001.01	11-30-26
Kentucky (WW)	State	KY90088	12-31-25
Louisiana (All)	NELAP	02055	06-30-25
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield Groundwater

Job ID: 240-219113-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Michigan	State	9930	01-31-25 *
Minnesota	NELAP	042-999-487	12-31-25
Mississippi	State	023	01-31-26
Missouri	State	450	01-31-28
Montana (DW)	State	0098	01-01-26
Nebraska	State	NE-OS-32-17	01-31-26
New Hampshire	NELAP	2730	01-10-26
New Jersey	NELAP	PA011	06-30-25
New York	NELAP	10670	04-01-25
North Carolina (DW)	State	42705	07-31-25
North Carolina (WW/SW)	State	521	12-31-25
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-25
Oregon	NELAP	PA200001	09-11-25
Pennsylvania	NELAP	36-00037	01-31-26
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-25
South Carolina	State	89002	01-31-25 *
Tennessee	State	02838	01-31-26
Texas	NELAP	T104704194-23-46	08-31-25
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-25
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-25
West Virginia (DW)	State	9906 C	01-31-26
West Virginia DEP	State	055	07-31-25
Wyoming	State	8TMS-L	01-31-26
Wyoming (UST)	A2LA	0001.01	11-30-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Address: ______________________

1.5/3.5

Chain of Custody Record 729932

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Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: Kai Lager-Lowe	Site Contact: ✓	Date:	COC No:
Company Name: August Mack Environmental	Tel/Email: klagerlowe@augustmack.com	Lab Contact: ✓	Carrier:	____ of ____ COCs
Address: 7830 N Central Dr Suite B	Analysis Turnaround Time			Sampler: B. Camp
City/State/Zip: Lewis Center, OH 43035	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 740-548-1500	TAT if different from Below: Standard			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: MSC Canfield J42380	☐ 1 week			
Site: 4600 W Main St, Canfield, OH	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOC Short List 8260	Total RCRA metals + Zinc	Diss RCRA metals + Zinc	Hex. Chromium EPA 7196	Total Cyanide 9012	Free Cyanide 1677	Sample Specific Notes:
SB-43-GW-10-20	2/17/25	1750	G	GW	21	N	Y	X	X		X	X	X	
SB-43-GW-10-20	2/17/25	1750	G	GW	3	Y	Y			X				
SB-45-GW-14-24	2/18/25	0755	G	GW	7	N	N	X	X		X	X	Y	
SB-45-GW-14-24	2/18/25	0755	G	GW	1	Y	N			X				
SB-46-GW-6-16	2/18/25	0840	G	GW	8	N	N	X	X		X	X	X	
~~SB-46-GW-6-16~~	~~2/18/25~~	~~0840~~	~~G~~	~~GW~~	~~1~~	~~Y~~	~~N~~			~~X~~				
SB-47-GW-10-20	2/18/25	0900	G	GW	5	N	N	X	X		X	X	X	
~~SB-47-GW-10-20~~	~~2/18/25~~	~~0900~~	~~G~~	~~GW~~	~~1~~	~~Y~~	~~N~~			~~X~~				
TB-2-20250217	2/17/25	—	G	GW	3	N	N	X						

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other None — 2 | 4 | 4 | 6 | 5 | 5

240-219113 COC

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ________ Months

Special Instructions/QC Requirements & Comments: VOC Short List: TCE; Cis-Dichloroethene; Trans-Dichloroethene; 1,1-Dichloroethene; Vinyl Chloride
Lab Filter Hex. Chrome

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ______ Corr'd: ______		Therm ID No.: ______
Relinquished by: Michael Langemeier	Company: August Mack Environmental	Date/Time: 2/18/25 1:26PM	Received by: [signature]	Company: [illegible]	Date/Time: 2/18/25 326
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Eurofins – Cleveland Sample Receipt Form/Narrative **Login # :** _____
Barberton Facility

Client August Mack Site Name _____ Cooler unpacked by: TF

Cooler Received on 2/18/25 Opened on 2/18/25

FedEx. 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used. Bubble Wrap (Foam) Plastic Bag None Other _____

COOLANT (Wet Ice) Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 20 (CF +2.0 °C) Observed Cooler Temp 1.5 °C Corrected Cooler Temp 3.5 °C

2. *Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity* _____	Yes (No)	**Tests that are not checked for pH by Receiving:** VOAs Oil and Grease TOC
-Were the seals on the outside of the cooler(s) signed & dated?	Yes No (NA)	
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes (No)	
-Were tamper/custody seals intact and uncompromised?	Yes No (NA)	
3 Shippers' packing slip attached to the cooler(s)?	Yes (No)	
4. Did custody papers accompany the sample(s)?	(Yes) No	
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes) No	
6. Was/were the person(s) who collected the samples clearly identified on the COC?	(Yes) No	
7 Did all bottles arrive in good condition (Unbroken)?	(Yes) No	
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes) No	
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes) No	
11 Sufficient quantity received to perform indicated analyses?	(Yes) No	
12 Are these work share samples and all listed on the COC?	Yes (No)	
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes (No) NA	pH Strip Lot# HC448976
14 Were VOAs on the COC?	(Yes) No	
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this	Yes (No) NA	
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Covered	(Yes) No	
17 Was a LL Hg or Me Hg trip blank present? _____	Yes (No)	

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page | Samples processed by:

_____

_____

_____

_____

19 SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired

Sample(s) _____ were received in a broken container

Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory

Time preserved. _____ Preservative(s) added/Lot number(s) _____

VOA Sample Preservation - Date/Time VOAs Frozen. _____

2/18/2025

Login Container Summary Report

240-219113

2/25/2025

Temperature readings _____

Client Sample ID	Lab ID	Container Type	Container pH	Container Temp	Preservation Added	Preservation Lot Number
SB-43-GW-10-20	240-219113-A-1	Voa Vial 40ml - Hydrochloric Acid				
SB-43-GW-10-20	240-219113-A-1 MS	Voa Vial 40ml - Hydrochloric Acid				
SB-43-GW-10-20	240-219113-A-1 MSD	Voa Vial 40ml - Hydrochloric Acid				
SB-43-GW-10-20	240-219113-B-1	Voa Vial 40ml - Hydrochloric Acid				
SB-43-GW-10-20	240-219113-B-1 MS	Voa Vial 40ml - Hydrochloric Acid				
SB-43-GW-10-20	240-219113-B-1 MSD	Voa Vial 40ml - Hydrochloric Acid				
SB-43-GW-10-20	240-219113-C-1	Voa Vial 40ml - Hydrochloric Acid				
SB-43-GW-10-20	240-219113-C-1 MS	Voa Vial 40ml - Hydrochloric Acid				
SB-43-GW-10-20	240-219113-C-1 MSD	Voa Vial 40ml - Hydrochloric Acid				
SB-43-GW-10-20	240-219113-D-1	Amber Plastic 125 mL - NaOH	>12			
SB-43-GW-10-20	240-219113-D-1 MS	Amber Plastic 125 mL - NaOH	>12			
SB-43-GW-10-20	240-219113-D-1 MSD	Amber Plastic 125 mL - NaOH	>12			
SB-43-GW-10-20	240-219113-E-1	Amber Plastic 125 mL - NaOH	>12			
SB-43-GW-10-20	240-219113-E-1 MS	Amber Plastic 125 mL - NaOH	>12			
SB-43-GW-10-20	240-219113-E-1 MSD	Amber Plastic 125 mL - NaOH	>12			
SB-43-GW-10-20	240-219113-F-1	Plastic 500ml - unpreserved				
SB-43-GW-10-20	240-219113-F-1 MS	Plastic 500ml - unpreserved				
SB-43-GW-10-20	240-219113-F-1 MSD	Plastic 500ml - unpreserved				
SB-43-GW-10-20	240-219113-G-1	Plastic 500ml - with Nitric Acid	<2			
SB-43-GW-10-20	240-219113-G-1 MS	Plastic 500ml - with Nitric Acid	<2			
SB-43-GW-10-20	240-219113-G-1 MSD	Plastic 500ml - with Nitric Acid	<2			
SB-43-GW-10-20	240-219113-H-1	Plastic 500ml - w/ Nitric - Dis.	<2			
SB-43-GW-10-20	240-219113-H-1 MS	Plastic 500ml - w/ Nitric - Dis.	<2			
SB-43-GW-10-20	240-219113-H-1 MSD	Plastic 500ml - w/ Nitric - Dis.	<2			
SB-45-GW-14-24	240-219113-A-2	Voa Vial 40ml - Hydrochloric Acid				
SB-45-GW-14-24	240-219113-B-2	Voa Vial 40ml - Hydrochloric Acid				
SB-45-GW-14-24	240-219113-C-2	Voa Vial 40ml - Hydrochloric Acid				
SB-45-GW-14-24	240-219113-D-2	Amber Plastic 125 mL - NaOH	>12			
SB-45-GW-14-24	240-219113-E-2	Amber Plastic 125 mL - NaOH	>12			
SB-45-GW-14-24	240-219113-F-2	Plastic 500ml - unpreserved				
SB-45-GW-14-24	240-219113-G-2	Plastic 500ml - with Nitric Acid	>2			
SB-45-GW-14-24	240-219113-H-2	Plastic 500ml - w/ Nitric - Dis.	<2			

Client Sample ID	Lab ID	Container Type	Container pH	Container Temp	Preservation Added	Preservation Lot Number
SB-46-GW-6-16	240-219113-A-3	Voa Vial 40ml - Hydrochloric Acid				
SB-46-GW-6-16	240-219113-B-3	Voa Vial 40ml - Hydrochloric Acid				
SB-46-GW-6-16	240-219113-C-3	Voa Vial 40ml - Hydrochloric Acid				
SB-46-GW-6-16	240-219113-D-3	Amber Plastic 125 mL - NaOH	>12			
SB-46-GW-6-16	240-219113-E-3	Amber Plastic 125 mL - NaOH	>12			
SB-46-GW-6-16	240-219113-F-3	Plastic 500ml - unpreserved				
SB-47-GW-10-20	240-219113-A-4	Voa Vial 40ml - Hydrochloric Acid				
SB-47-GW-10-20	240-219113-B-4	Voa Vial 40ml - Hydrochloric Acid				
SB-47-GW-10-20	240-219113-C-4	Voa Vial 40ml - Hydrochloric Acid				
SB-47-GW-10-20	240-219113-D-4	Amber Plastic 125 mL - NaOH	>12			
SB-47-GW-10-20	240-219113-E-4	Amber Plastic 125 mL - NaOH	>12			
TB-2-20250217	240-219113-A-5	Voa Vial 40ml - Hydrochloric Acid				
TB-2-20250217	240-219113-D-5	Voa Vial 40ml - Hydrochloric Acid				
TB-2-20250217	240-219113-E-5	Voa Vial 40ml - Hydrochloric Acid				

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kalis, Nicole A	Carrier Tracking No(s): N/A	COC No: 240-198589.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Nicole.Kalis@et.eurofinsus.com	State of Origin: Ohio	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): N/A		Job #: 240-219113-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/3/2025			Preservation Codes: -
City: Lancaster	TAT Requested (days): N/A			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: MSC Canfield	Project #: 24033889			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1677_Free Cyanide, Free	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SB-43-GW-10-20 (240-219113-1)	2/17/25	17:50 Eastern	G	Water			X	1	Use caution! Site contaminated with solvent waste
SP-45-GW-14-24 (240-219113-2)	2/18/25	07:55 Eastern	G	Water			X	1	Use caution! Site contaminated with solvent waste
SB-46-GW-6-16 (240-219113-3)	2/18/25	08:40 Eastern	G	Water			X	1	Use caution! Site contaminated with solvent waste
SB-47-GW-10-20 (240-219113-4)	2/18/25	09:00 Eastern	G	Water			X	1	Use caution! Site contaminated with solvent waste

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
JF	2/18/25	Eurof			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2/20/25 1010	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.9 C: 0.1

HM

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: August Mack Environmental, Inc.

Job Number: 240-219113-1

Login Number: 219113
List Number: 2
Creator: Arroyo, Haley

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 02/20/25 11:05 AM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Received extra samples not listed on COC.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Kain Lager-Lowe
August Mack Environmental, Inc.
7830 North Central Drive, Suite B
Lewis Center, Ohio 43035

Generated 2/25/2025 1:35:30 PM

JOB DESCRIPTION

MSC Canfield - Groundwater

JOB NUMBER

240-219149-1

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton OH 44203

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

Generated
2/25/2025 1:35:30 PM

Authorized for release by
Nicole Kalis, Project Manager I
Nicole.Kalis@et.eurofinsus.com
(330)497-9396

Table of Contents

Definitions/Glossary

Client: August Mack Environmental, Inc. Job ID: 240-219149-1
Project/Site: MSC Canfield - Groundwater

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 240-219149-1 Eurofins Cleveland

Job Narrative
240-219149-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/19/2025 12:21 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 240-645690 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: EB-1-20250218 (240-219149-3), RB-1-20250218 (240-219149-4), TB-3-20250218 (240-219149-5) and (240-219100-B-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method 7196A - Dissolved: The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: SB-47-GW-10-20 (240-219149-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Method Summary

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219149-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CLE
6010D	Metals (ICP)	SW846	EET CLE
7470A	Mercury (CVAA)	SW846	EET CLE
7196A	Chromium, Hexavalent	SW846	EET CLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CLE
5030C	Purge and Trap	SW846	EET CLE
7470A	Preparation, Mercury	SW846	EET CLE
Filtration	Sample Filtration	None	EET CLE

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219149-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-219149-1	SB-46-GW-6-16	Water	02/18/25 16:00	02/19/25 12:21
240-219149-2	SB-47-GW-10-20	Water	02/18/25 09:45	02/19/25 12:21
240-219149-3	EB-1-20250218	Water	02/18/25 18:05	02/19/25 12:21
240-219149-4	RB-1-20250218	Water	02/18/25 18:10	02/19/25 12:21
240-219149-5	TB-3-20250218	Water	02/18/25 00:00	02/19/25 12:21

Detection Summary

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219149-1

Client Sample ID: SB-46-GW-6-16 — Lab Sample ID: 240-219149-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	65		15	4.1	ug/L	1		6010D	Total Recoverable
Barium	240	B	200	1.3	ug/L	1		6010D	Total Recoverable
Cadmium	0.87	J	5.0	0.45	ug/L	1		6010D	Total Recoverable
Chromium	72		10	0.76	ug/L	1		6010D	Total Recoverable
Copper	87		25	3.5	ug/L	1		6010D	Total Recoverable
Lead	54		10	2.8	ug/L	1		6010D	Total Recoverable
Zinc	380		50	23	ug/L	1		6010D	Total Recoverable
Barium	31	J B	200	1.3	ug/L	1		6010D	Dissolved
Chromium	0.93	J	10	0.76	ug/L	1		6010D	Dissolved
Mercury	0.22		0.20	0.13	ug/L	1		7470A	Total/NA
Mercury	0.13	J	0.20	0.13	ug/L	1		7470A	Dissolved

Client Sample ID: SB-47-GW-10-20 — Lab Sample ID: 240-219149-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	210		150	41	ug/L	1		6010D	Total Recoverable
Barium	780	J B	2000	13	ug/L	1		6010D	Total Recoverable
Chromium	270		100	7.6	ug/L	1		6010D	Total Recoverable
Copper	350		250	35	ug/L	1		6010D	Total Recoverable
Lead	190		100	28	ug/L	1		6010D	Total Recoverable
Zinc	1300		500	230	ug/L	1		6010D	Total Recoverable
Barium	28	J B	200	1.3	ug/L	1		6010D	Dissolved
Mercury	0.18	J	0.20	0.13	ug/L	1		7470A	Total/NA
Mercury	0.13	J	0.20	0.13	ug/L	1		7470A	Dissolved

Client Sample ID: EB-1-20250218 — Lab Sample ID: 240-219149-3

No Detections.

Client Sample ID: RB-1-20250218 — Lab Sample ID: 240-219149-4

No Detections.

Client Sample ID: TB-3-20250218 — Lab Sample ID: 240-219149-5

No Detections.

This Detection Summary does not include radiochemical test results.

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219149-1

Client Sample ID: SB-46-GW-6-16

Lab Sample ID: 240-219149-1

Date Collected: 02/18/25 16:00

Matrix: Water

Date Received: 02/19/25 12:21

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**65**		15	4.1	ug/L		02/20/25 14:00	02/21/25 23:18	1
Barium	**240**	**B**	200	1.3	ug/L		02/20/25 14:00	02/21/25 23:18	1
Cadmium	**0.87**	**J**	5.0	0.45	ug/L		02/20/25 14:00	02/21/25 23:18	1
Chromium	**72**		10	0.76	ug/L		02/20/25 14:00	02/21/25 23:18	1
Copper	**87**		25	3.5	ug/L		02/20/25 14:00	02/21/25 23:18	1
Lead	**54**		10	2.8	ug/L		02/20/25 14:00	02/21/25 23:18	1
Selenium	ND		20	6.0	ug/L		02/20/25 14:00	02/21/25 23:18	1
Silver	ND		10	1.4	ug/L		02/20/25 14:00	02/21/25 23:18	1
Zinc	**380**		50	23	ug/L		02/20/25 14:00	02/21/25 23:18	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	4.1	ug/L		02/20/25 14:00	02/21/25 23:22	1
Barium	**31**	**J B**	200	1.3	ug/L		02/20/25 14:00	02/21/25 23:22	1
Cadmium	ND		5.0	0.45	ug/L		02/20/25 14:00	02/21/25 23:22	1
Chromium	**0.93**	**J**	10	0.76	ug/L		02/20/25 14:00	02/21/25 23:22	1
Copper	ND		25	3.5	ug/L		02/20/25 14:00	02/21/25 23:22	1
Lead	ND		10	2.8	ug/L		02/20/25 14:00	02/21/25 23:22	1
Selenium	ND		20	6.0	ug/L		02/20/25 14:00	02/21/25 23:22	1
Silver	ND		10	1.4	ug/L		02/20/25 14:00	02/21/25 23:22	1
Zinc	ND		50	23	ug/L		02/20/25 14:00	02/21/25 23:22	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.22**		0.20	0.13	ug/L		02/20/25 14:00	02/21/25 11:36	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.13**	**J**	0.20	0.13	ug/L		02/20/25 14:00	02/21/25 11:38	1

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219149-1

Client Sample ID: SB-47-GW-10-20

Date Collected: 02/18/25 09:45
Date Received: 02/19/25 12:21

Lab Sample ID: 240-219149-2

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**210**		150	41	ug/L		02/20/25 14:00	02/21/25 23:27	1
Barium	**780**	**J B**	2000	13	ug/L		02/20/25 14:00	02/21/25 23:27	1
Cadmium	ND		50	4.5	ug/L		02/20/25 14:00	02/21/25 23:27	1
Chromium	**270**		100	7.6	ug/L		02/20/25 14:00	02/21/25 23:27	1
Copper	**350**		250	35	ug/L		02/20/25 14:00	02/21/25 23:27	1
Lead	**190**		100	28	ug/L		02/20/25 14:00	02/21/25 23:27	1
Selenium	ND		200	60	ug/L		02/20/25 14:00	02/21/25 23:27	1
Silver	ND		100	14	ug/L		02/20/25 14:00	02/21/25 23:27	1
Zinc	**1300**		500	230	ug/L		02/20/25 14:00	02/21/25 23:27	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	4.1	ug/L		02/20/25 14:00	02/21/25 23:31	1
Barium	**28**	**J B**	200	1.3	ug/L		02/20/25 14:00	02/21/25 23:31	1
Cadmium	ND		5.0	0.45	ug/L		02/20/25 14:00	02/21/25 23:31	1
Chromium	ND		10	0.76	ug/L		02/20/25 14:00	02/21/25 23:31	1
Copper	ND		25	3.5	ug/L		02/20/25 14:00	02/21/25 23:31	1
Lead	ND		10	2.8	ug/L		02/20/25 14:00	02/21/25 23:31	1
Selenium	ND		20	6.0	ug/L		02/20/25 14:00	02/21/25 23:31	1
Silver	ND		10	1.4	ug/L		02/20/25 14:00	02/21/25 23:31	1
Zinc	ND		50	23	ug/L		02/20/25 14:00	02/21/25 23:31	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.18**	**J**	0.20	0.13	ug/L		02/20/25 14:00	02/21/25 11:39	1

Method: SW846 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.13**	**J**	0.20	0.13	ug/L		02/20/25 14:00	02/21/25 11:41	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SW846 7196A)	ND	H H3	1.0	0.35	mg/L			02/19/25 13:35	50

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219149-1

Client Sample ID: EB-1-20250218
Date Collected: 02/18/25 18:05
Date Received: 02/19/25 12:21

Lab Sample ID: 240-219149-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.49	ug/L			02/21/25 17:25	1
cis-1,2-Dichloroethene	ND		1.0	0.46	ug/L			02/21/25 17:25	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/L			02/21/25 17:25	1
Trichloroethene	ND		1.0	0.44	ug/L			02/21/25 17:25	1
Vinyl chloride	ND		1.0	0.45	ug/L			02/21/25 17:25	1
Xylenes, Total	ND		2.0	0.42	ug/L			02/21/25 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*78 - 122*		*02/21/25 17:25*	*1*
Dibromofluoromethane (Surr)	*110*		*73 - 120*		*02/21/25 17:25*	*1*
4-Bromofluorobenzene (Surr)	*74*		*56 - 136*		*02/21/25 17:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*		*62 - 137*		*02/21/25 17:25*	*1*

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219149-1

Client Sample ID: RB-1-20250218
Date Collected: 02/18/25 18:10
Date Received: 02/19/25 12:21

Lab Sample ID: 240-219149-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.49	ug/L			02/21/25 17:49	1
cis-1,2-Dichloroethene	ND		1.0	0.46	ug/L			02/21/25 17:49	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/L			02/21/25 17:49	1
Trichloroethene	ND		1.0	0.44	ug/L			02/21/25 17:49	1
Vinyl chloride	ND		1.0	0.45	ug/L			02/21/25 17:49	1
Xylenes, Total	ND		2.0	0.42	ug/L			02/21/25 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*78 - 122*		*02/21/25 17:49*	*1*
Dibromofluoromethane (Surr)	*114*		*73 - 120*		*02/21/25 17:49*	*1*
4-Bromofluorobenzene (Surr)	*77*		*56 - 136*		*02/21/25 17:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*124*		*62 - 137*		*02/21/25 17:49*	*1*

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219149-1

Client Sample ID: TB-3-20250218
Date Collected: 02/18/25 00:00
Date Received: 02/19/25 12:21

Lab Sample ID: 240-219149-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.49	ug/L			02/21/25 18:12	1
cis-1,2-Dichloroethene	ND		1.0	0.46	ug/L			02/21/25 18:12	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/L			02/21/25 18:12	1
Trichloroethene	ND		1.0	0.44	ug/L			02/21/25 18:12	1
Vinyl chloride	ND		1.0	0.45	ug/L			02/21/25 18:12	1
Xylenes, Total	ND		2.0	0.42	ug/L			02/21/25 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*78 - 122*		*02/21/25 18:12*	*1*
Dibromofluoromethane (Surr)	*115*		*73 - 120*		*02/21/25 18:12*	*1*
4-Bromofluorobenzene (Surr)	*78*		*56 - 136*		*02/21/25 18:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*126*		*62 - 137*		*02/21/25 18:12*	*1*

Surrogate Summary

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219149-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DBFM	BFB	DCA
Lab Sample ID	Client Sample ID	(78-122)	(73-120)	(56-136)	(62-137)
240-219149-3	EB-1-20250218	89	110	74	121
240-219149-4	RB-1-20250218	89	114	77	124
240-219149-5	TB-3-20250218	94	115	78	126
LCS 240-645690/6	Lab Control Sample	103	100	98	101
MB 240-645690/12	Method Blank	93	106	82	117

Surrogate Legend

TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 240-645690/12
Matrix: Water
Analysis Batch: 645690

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.49	ug/L			02/21/25 15:05	1
cis-1,2-Dichloroethene	ND		1.0	0.46	ug/L			02/21/25 15:05	1
trans-1,2-Dichloroethene	ND		1.0	0.51	ug/L			02/21/25 15:05	1
Trichloroethene	ND		1.0	0.44	ug/L			02/21/25 15:05	1
Vinyl chloride	ND		1.0	0.45	ug/L			02/21/25 15:05	1
Xylenes, Total	ND		2.0	0.42	ug/L			02/21/25 15:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*78 - 122*		*02/21/25 15:05*	*1*
Dibromofluoromethane (Surr)	*106*		*73 - 120*		*02/21/25 15:05*	*1*
4-Bromofluorobenzene (Surr)	*82*		*56 - 136*		*02/21/25 15:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*62 - 137*		*02/21/25 15:05*	*1*

Lab Sample ID: LCS 240-645690/6
Matrix: Water
Analysis Batch: 645690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	25.1		ug/L		101	64 - 131
1,1,2,2-Tetrachloroethane	25.0	26.0		ug/L		104	58 - 157
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.8		ug/L		115	51 - 146
1,1,2-Trichloroethane	25.0	26.3		ug/L		105	70 - 138
1,1-Dichloroethane	25.0	25.1		ug/L		100	72 - 127
1,1-Dichloroethene	25.0	24.9		ug/L		100	63 - 134
1,2,4-Trichlorobenzene	25.0	20.9		ug/L		84	44 - 147
1,2-Dibromo-3-Chloropropane	25.0	18.4		ug/L		74	53 - 135
Ethylene Dibromide	25.0	24.5		ug/L		98	71 - 134
1,2-Dichlorobenzene	25.0	25.3		ug/L		101	78 - 120
1,2-Dichloroethane	25.0	24.0		ug/L		96	66 - 128
1,2-Dichloropropane	25.0	24.1		ug/L		97	75 - 133
1,3-Dichlorobenzene	25.0	25.8		ug/L		103	80 - 120
1,4-Dichlorobenzene	25.0	25.0		ug/L		100	80 - 120
2-Butanone (MEK)	50.0	46.2		ug/L		92	54 - 156
2-Hexanone	50.0	49.8		ug/L		100	43 - 167
4-Methyl-2-pentanone (MIBK)	50.0	45.3		ug/L		91	46 - 158
Acetone	50.0	50.3		ug/L		101	50 - 149
Benzene	25.0	24.9		ug/L		100	77 - 123
Dichlorobromomethane	25.0	22.8		ug/L		91	69 - 126
Bromoform	25.0	22.9		ug/L		92	57 - 129
Bromomethane	25.0	21.8		ug/L		87	36 - 142
Carbon disulfide	25.0	20.9		ug/L		83	43 - 140
Carbon tetrachloride	25.0	25.6		ug/L		102	55 - 137
Chlorobenzene	25.0	25.3		ug/L		101	80 - 121
Chloroethane	25.0	26.9		ug/L		108	38 - 152
Chloroform	25.0	24.5		ug/L		98	74 - 122
Chloromethane	25.0	20.1		ug/L		80	47 - 143
cis-1,2-Dichloroethene	25.0	23.6		ug/L		94	77 - 123

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 240-645690/6
Matrix: Water
Analysis Batch: 645690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	25.0	20.4		ug/L		82	64 - 130
Cyclohexane	25.0	26.6		ug/L		107	58 - 146
Chlorodibromomethane	25.0	23.4		ug/L		94	70 - 124
Dichlorodifluoromethane	25.0	15.3		ug/L		61	34 - 153
Ethylbenzene	25.0	24.4		ug/L		98	80 - 121
Isopropylbenzene	25.0	26.3		ug/L		105	74 - 128
Methyl acetate	50.0	47.5		ug/L		95	42 - 169
Methyl tert-butyl ether	25.0	25.5		ug/L		102	65 - 126
Methylcyclohexane	25.0	25.2		ug/L		101	62 - 136
Methylene Chloride	25.0	25.9		ug/L		104	71 - 125
Styrene	25.0	23.0		ug/L		92	80 - 135
Tetrachloroethene	25.0	25.5		ug/L		102	76 - 123
Toluene	25.0	25.0		ug/L		100	80 - 123
trans-1,2-Dichloroethene	25.0	24.8		ug/L		99	75 - 124
trans-1,3-Dichloropropene	25.0	23.6		ug/L		94	57 - 129
Trichloroethene	25.0	22.5		ug/L		90	70 - 122
Trichlorofluoromethane	25.0	29.4		ug/L		117	30 - 170
Vinyl chloride	25.0	24.2		ug/L		97	60 - 144
Xylenes, Total	50.0	48.8		ug/L		98	80 - 121
m-Xylene & p-Xylene	25.0	24.5		ug/L		98	80 - 120
o-Xylene	25.0	24.3		ug/L		97	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*78 - 122*
Dibromofluoromethane (Surr)	*100*		*73 - 120*
4-Bromofluorobenzene (Surr)	*98*		*56 - 136*
1,2-Dichloroethane-d4 (Surr)	*101*		*62 - 137*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-645541/1-A
Matrix: Water
Analysis Batch: 645758

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 645541

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		15	4.1	ug/L		02/20/25 14:00	02/21/25 21:03	1
Barium	2.92	J	200	1.3	ug/L		02/20/25 14:00	02/21/25 21:03	1
Cadmium	ND		5.0	0.45	ug/L		02/20/25 14:00	02/21/25 21:03	1
Chromium	ND		10	0.76	ug/L		02/20/25 14:00	02/21/25 21:03	1
Copper	ND		25	3.5	ug/L		02/20/25 14:00	02/21/25 21:03	1
Lead	ND		10	2.8	ug/L		02/20/25 14:00	02/21/25 21:03	1
Selenium	ND		20	6.0	ug/L		02/20/25 14:00	02/21/25 21:03	1
Silver	ND		10	1.4	ug/L		02/20/25 14:00	02/21/25 21:03	1
Zinc	ND		50	23	ug/L		02/20/25 14:00	02/21/25 21:03	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-645541/2-A
Matrix: Water
Analysis Batch: 645758

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 645541

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	2000	2030		ug/L		102	80 - 120
Barium	2000	1870		ug/L		93	80 - 120
Cadmium	1000	961		ug/L		96	80 - 120
Chromium	1000	936		ug/L		94	80 - 120
Copper	1000	918		ug/L		92	80 - 120
Lead	1000	930		ug/L		93	80 - 120
Selenium	2000	2040		ug/L		102	80 - 120
Silver	100	90.0		ug/L		90	80 - 120
Zinc	1000	1040		ug/L		104	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-645543/1-A
Matrix: Water
Analysis Batch: 645775

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645543

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.13	ug/L		02/20/25 14:00	02/21/25 10:51	1

Lab Sample ID: LCS 240-645543/2-A
Matrix: Water
Analysis Batch: 645775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.09		ug/L		102	80 - 120

GC/MS VOA

Analysis Batch: 645690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219149-3	EB-1-20250218	Total/NA	Water	8260D	
240-219149-4	RB-1-20250218	Total/NA	Water	8260D	
240-219149-5	TB-3-20250218	Total/NA	Water	8260D	
MB 240-645690/12	Method Blank	Total/NA	Water	8260D	
LCS 240-645690/6	Lab Control Sample	Total/NA	Water	8260D	

Metals

Prep Batch: 645541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219149-1	SB-46-GW-6-16	Dissolved	Water	3005A	
240-219149-1	SB-46-GW-6-16	Total Recoverable	Water	3005A	
240-219149-2	SB-47-GW-10-20	Dissolved	Water	3005A	
240-219149-2	SB-47-GW-10-20	Total Recoverable	Water	3005A	
MB 240-645541/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-645541/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 645543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219149-1	SB-46-GW-6-16	Dissolved	Water	7470A	
240-219149-1	SB-46-GW-6-16	Total/NA	Water	7470A	
240-219149-2	SB-47-GW-10-20	Dissolved	Water	7470A	
240-219149-2	SB-47-GW-10-20	Total/NA	Water	7470A	
MB 240-645543/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-645543/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 645758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219149-1	SB-46-GW-6-16	Dissolved	Water	6010D	645541
240-219149-1	SB-46-GW-6-16	Total Recoverable	Water	6010D	645541
240-219149-2	SB-47-GW-10-20	Dissolved	Water	6010D	645541
240-219149-2	SB-47-GW-10-20	Total Recoverable	Water	6010D	645541
MB 240-645541/1-A	Method Blank	Total Recoverable	Water	6010D	645541
LCS 240-645541/2-A	Lab Control Sample	Total Recoverable	Water	6010D	645541

Analysis Batch: 645775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219149-1	SB-46-GW-6-16	Dissolved	Water	7470A	645543
240-219149-1	SB-46-GW-6-16	Total/NA	Water	7470A	645543
240-219149-2	SB-47-GW-10-20	Dissolved	Water	7470A	645543
240-219149-2	SB-47-GW-10-20	Total/NA	Water	7470A	645543
MB 240-645543/1-A	Method Blank	Total/NA	Water	7470A	645543
LCS 240-645543/2-A	Lab Control Sample	Total/NA	Water	7470A	645543

General Chemistry

Analysis Batch: 645414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219149-2	SB-47-GW-10-20	Dissolved	Water	7196A	645441

QC Association Summary

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219149-1

General Chemistry

Filtration Batch: 645441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219149-2	SB-47-GW-10-20	Dissolved	Water	Filtration	

Lab Chronicle

Client: August Mack Environmental, Inc.
Job ID: 240-219149-1
Project/Site: MSC Canfield - Groundwater

Client Sample ID: SB-46-GW-6-16
Lab Sample ID: 240-219149-1
Date Collected: 02/18/25 16:00
Matrix: Water
Date Received: 02/19/25 12:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			645541	XWS6	EET CLE	02/20/25 14:00
Dissolved	Analysis	6010D		1	645758	AJC	EET CLE	02/21/25 23:22
Total Recoverable	Prep	3005A			645541	XWS6	EET CLE	02/20/25 14:00
Total Recoverable	Analysis	6010D		1	645758	AJC	EET CLE	02/21/25 23:18
Dissolved	Prep	7470A			645543	XWS6	EET CLE	02/20/25 14:00
Dissolved	Analysis	7470A		1	645775	S4FJ	EET CLE	02/21/25 11:38
Total/NA	Prep	7470A			645543	XWS6	EET CLE	02/20/25 14:00
Total/NA	Analysis	7470A		1	645775	S4FJ	EET CLE	02/21/25 11:36

Client Sample ID: SB-47-GW-10-20
Lab Sample ID: 240-219149-2
Date Collected: 02/18/25 09:45
Matrix: Water
Date Received: 02/19/25 12:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			645541	XWS6	EET CLE	02/20/25 14:00
Dissolved	Analysis	6010D		1	645758	AJC	EET CLE	02/21/25 23:31
Total Recoverable	Prep	3005A			645541	XWS6	EET CLE	02/20/25 14:00
Total Recoverable	Analysis	6010D		1	645758	AJC	EET CLE	02/21/25 23:27
Dissolved	Prep	7470A			645543	XWS6	EET CLE	02/20/25 14:00
Dissolved	Analysis	7470A		1	645775	S4FJ	EET CLE	02/21/25 11:41
Total/NA	Prep	7470A			645543	XWS6	EET CLE	02/20/25 14:00
Total/NA	Analysis	7470A		1	645775	S4FJ	EET CLE	02/21/25 11:39
Dissolved	Filtration	Filtration			645441	BLW	EET CLE	02/19/25 13:29
Dissolved	Analysis	7196A		50	645414	BLW	EET CLE	02/19/25 13:35

Client Sample ID: EB-1-20250218
Lab Sample ID: 240-219149-3
Date Collected: 02/18/25 18:05
Matrix: Water
Date Received: 02/19/25 12:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	645690	MS	EET CLE	02/21/25 17:25

Client Sample ID: RB-1-20250218
Lab Sample ID: 240-219149-4
Date Collected: 02/18/25 18:10
Matrix: Water
Date Received: 02/19/25 12:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	645690	MS	EET CLE	02/21/25 17:49

Client Sample ID: TB-3-20250218
Lab Sample ID: 240-219149-5
Date Collected: 02/18/25 00:00
Matrix: Water
Date Received: 02/19/25 12:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	645690	MS	EET CLE	02/21/25 18:12

Lab Chronicle

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219149-1

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Groundwater

Job ID: 240-219149-1

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25

Address: ______________________

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2.0/2.0

Chain of Custody Record 729933

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Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: Kai Langer-Lowe	Site Contact:	Date:	COC No:
Company Name: August Mack	Tel/Email: klanger-lowe@augustmack.com	Lab Contact:	Carrier:	____ of ____ COCs
Address: 7830 N Central Dr Suite B	Analysis Turnaround Time			Sampler: B. Camp
City/State/Zip: Lewis Center, OH 43035	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 740-548-1500	TAT if different from Below ______			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: MSC Canfield JY2380	☐ 1 week Standard			
Site: 460 W Main St, Canfield, OH	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Total RCRA 8 Metals + Zn, Cu, Ni	Diss RCRA 8 Metals + Zn, Cu, Ni	Hex. Chromium EPA 7196	VOC Short List 8260	Sample Specific Notes:
SB-46-GW-6-16	2/18/25	1600	G	GW	1	N	N	X				
SB-46-GW-6-16 (Dissolved)	2/18/25	1600	G	GW	1	Y	N		X			
SB-47-GW-10-20	2/19/25	0945	G	GW	2	N	N	X		X		
SB-47-GW-10-20 (Dissolved)	2/18/25	0945	G	GW	1	Y	N		X			
EB-1-20250218	2/18/25	1805	G	GW	3	N	N				X	
RB-1-20250218	2/18/25	1810	G	GW	3	N	N				X	
TB-3-20250218	2/18/25	—	G	GW	3	N	N				X	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other None							[illegible]	4	4	6	2	

240-219149 COC

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ________ Months

Special Instructions/QC Requirements & Comments: VOC Short List: TCE; Cis-Dichloroethene; Trans-Dichloroethene; 1,1-Dichloroethene; Vinyl Chloride
Lab Filter Hex. Chrome

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No.: ____
Relinquished by: Bryce Camp	Company: AMI	Date/Time: 2/19/25 1105	Received by: [signature]	Company: EUR	Date/Time: 2/19/25 1103
Relinquished by: [signature]	Company: EUR	Date/Time: 2/19/25 1221	Received by: JMOROSKO	Company: EURE	Date/Time: 2/19/25 1221
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :
Barberton Facility

Client August Mack Site Name

Cooler unpacked by: JMOROSKO

Cooler Received on 2/19/25 Opened on 2/19/25

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used. Bubble Wrap Foam Plastic Bag None Other

COOLANT Wet Ice Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 13 (CF TO 0 °C) *Observed Cooler Temp.* 2 0 °C *Corrected Cooler Temp.* 2 0 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity	Yes (No)	**Tests that are not checked for pH by Receiving:**
-Were the seals on the outside of the cooler(s) signed & dated?	Yes No (NA)	
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes (No)	**VOAs**
-Were tamper/custody seals intact and uncompromised?	Yes No (NA)	**Oil and Grease**
3 *Shippers' packing slip attached to the cooler(s)?*	Yes (No)	**TOC**
4. Did custody papers accompany the sample(s)?	(Yes) No	
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes) No	
6. Was/were the person(s) who collected the samples clearly identified on the COC?	(Yes) No	
7 Did all bottles arrive in good condition (Unbroken)?	(Yes) No	
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes) No	
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes) No	
11 Sufficient quantity received to perform indicated analyses?	(Yes) No	
12 Are these work share samples and all listed on the COC?	Yes (No)	
If yes, Questions 13-17 have been checked at the originating laboratory		
13 *Were all preserved sample(s) at the correct pH upon receipt?*	(Yes) No NA	*pH Strip Lot# HC448976*
14 Were VOAs on the COC?	(Yes) No	
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this.	Yes (No) NA	
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Covered	(Yes) No	
17 Was a LL Hg or Me Hg trip blank present?	Yes (No)	

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) were received in a broken container

Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory

Time preserved Preservative(s) added/Lot number(s)

VOA Sample Preservation - Date/Time VOAs Frozen.

2/19/2025

Login Container Summary Report

240-219149

2/25/2025

Temperature readings _____

Client Sample ID	Lab ID	Container Type	Container pH	Container Temp	Preservation Added	Preservation Lot Number
SB-46-GW-6-16	240-219149-A-1	Plastic 500ml - with Nitric Acid	<2			
SB-46-GW-6-16	240-219149-B-1	Plastic 500ml - w/ Nitric - Dis.	<2			
SB-47-GW-10-20	240-219149-A-2	Plastic 500ml - unpreserved				
SB-47-GW-10-20	240-219149-B-2	Plastic 500ml - with Nitric Acid	<2			
SB-47-GW-10-20	240-219149-C-2	Plastic 500ml - w/ Nitric - Dis	<2			
EB-1-20250218	240-219149-A-3	Voa Vial 40ml - Hydrochloric Acid				
EB-1-20250218	240-219149-B-3	Voa Vial 40ml - Hydrochloric Acid				
EB-1-20250218	240-219149-C-3	Voa Vial 40ml - Hydrochloric Acid				
RB-1-20250218	240-219149-A-4	Voa Vial 40ml - Hydrochloric Acid				
RB-1-20250218	240-219149-B-4	Voa Vial 40ml - Hydrochloric Acid				
RB-1-20250218	240-219149-C-4	Voa Vial 40ml - Hydrochloric Acid				
TB-3-20250218	240-219149-A-5	Voa Vial 40ml - Hydrochloric Acid				
TB-3-20250218	240-219149-B-5	Voa Vial 40ml - Hydrochloric Acid				
TB-3-20250218	240-219149-C-5	Voa Vial 40ml - Hydrochloric Acid				

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kain Lager-Lowe
August Mack Environmental, Inc.
7830 North Central Drive, Suite B
Lewis Center, Ohio 43035

Generated 3/10/2025 3:43:33 PM

JOB DESCRIPTION

MSC Canfield - Air

JOB NUMBER

240-219150-1

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton OH 44203

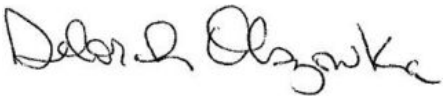
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



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3/10/2025 3:43:33 PM

Authorized for release by
Debbie Olszowka, Project Manager II
Debbie.Olszowka@et.eurofinsus.com
Designee for
Nicole Kalis, Project Manager I
Nicole.Kalis@et.eurofinsus.com
(330)497-9396

Table of Contents

Definitions/Glossary

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Air

Job ID: 240-219150-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 240-219150-1 Eurofins Cleveland

Job Narrative
240-219150-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/19/2025 12:21 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 22.3°C.

Subcontract Work
Method TO-15: This method was subcontracted to Eurofins Air Toxics, Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

Method Summary

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Air

Job ID: 240-219150-1

Method	Method Description	Protocol	Laboratory
Subcontract	TO-15	None	Eurofins

Protocol References:

None = None

Laboratory References:

Eurofins = Eurofins Air Toxics, 180 Blue Ravine Road, Suite B, Folsom, CA 95630

Sample Summary

Client: August Mack Environmental, Inc.
Project/Site: MSC Canfield - Air

Job ID: 240-219150-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-219150-1	SGE-11-5.5-6	Air	02/15/25 08:23	02/19/25 12:21
240-219150-2	SGE-12-5.5-6	Air	02/15/25 09:20	02/19/25 12:21
240-219150-3	SGE-7-5.5-6	Air	02/14/25 17:20	02/19/25 12:21
240-219150-4	SGE-8-6.5-7	Air	02/14/25 15:38	02/19/25 12:21
240-219150-5	SGE-9-6.5-7	Air	02/14/25 13:00	02/19/25 12:21
240-219150-6	DUP-3-20250214	Air	02/14/25 00:00	02/19/25 12:21
240-219150-7	SGE-10-5.5-6	Air	02/14/25 18:00	02/19/25 12:21
240-219150-8	SGSS-460-2-20250217	Air	02/17/25 18:24	02/19/25 12:21
240-219150-9	SGSS-460-1-20250217	Air	02/17/25 18:49	02/19/25 12:21
240-219150-10	AA-460-1-20250217	Air	02/17/25 18:43	02/19/25 12:21
240-219150-11	SGE-1-9.5-10	Air	02/18/25 14:59	02/19/25 12:21
240-219150-12	SGE-5-28.5-29	Air	02/18/25 18:33	02/19/25 12:21
240-219150-13	SGE-4-17-17.5	Air	02/18/25 19:00	02/19/25 12:21
240-219150-14	SGE-6-17.5-18	Air	02/18/25 17:16	02/19/25 12:21
240-219150-15	SGE-3-16.5-17	Air	02/18/25 15:57	02/19/25 12:21
240-219150-16	SGE-2-17-17.5	Air	02/18/25 18:47	02/19/25 12:21
240-219150-17	DUP-2-20250218	Air	02/18/25 00:00	02/19/25 12:21

Analytical Report

3/6/2025
Ms. Nicole Kalis
Eurofins Environment Testing
180 S Van Buren Ave.

Barberton OH 44203

Project Name: MSC Canfield
Project #: 24033889
Workorder #: 2502613A

Dear Ms. Nicole Kalis

The following report includes the data for the above referenced project for sample(s) received on 2/21/2025 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

WORK ORDER #: 2502613A

Work Order Summary

CLIENT:	Ms. Nicole Kalis Eurofins Environment Testing 180 S Van Buren Ave. Barberton, OH 44203	**BILL TO:**	Ms. Nicole Kalis Eurofins Environment Testing 180 S Van Buren Ave. Barberton, OH 44203
PHONE:	330-497-9396 X 295	**P.O. #**	240-219150
FAX:		**PROJECT #**	24033889 MSC Canfield
DATE RECEIVED:	02/21/2025	**CONTACT:**	Jade White
DATE COMPLETED:	03/04/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SGE-11-5.5-6 (240-219150-1)	TO-15	6.0 "Hg	10 psi
02A	SGE-12-5.5-6 (240-219150-2)	TO-15	2.5 "Hg	10 psi
03A	SGE-7-5.5-6 (240-219150-3)	TO-15	7.3 "Hg	9.9 psi
04A	SGE-8-6.5-7 (240-219150-4)	TO-15	14.9 "Hg	10 psi
05A	SGE-9-6.5-7 (240-219150-5)	TO-15	3.5 "Hg	10 psi
06A	DUP-3-20250214 (240-219150-6)	TO-15	13.3 "Hg	10 psi
07A	SGE-10-5.5-6 (240-219150-7)	TO-15	8.6 "Hg	10 psi
08A	SGSS-460-2-20250217 (240-219150-8)	TO-15	3.7 "Hg	2 psi
10A	AA-460-1-20250217 (240-219150-10)	TO-15	0.8 "Hg	1.9 psi
11A	SGE-1-9.5-10 (240-219150-11)	TO-15	1.8 "Hg	10.1 psi
12A	SGE-5-28.5-29 (240-219150-12)	TO-15	6.9 "Hg	9.9 psi
13A	SGE-4-17-17.5 (240-219150-13)	TO-15	10.6 "Hg	10 psi
14A	SGE-6-17.5-18 (240-219150-14)	TO-15	5.3 "Hg	9.8 psi
15A	SGE-3-16.5-17 (240-219150-15)	TO-15	3.3 "Hg	9.8 psi
16A	SGE-2-17-17.5 (240-219150-16)	TO-15	2.8 "Hg	10 psi
17A	DUP-2-20250218 (240-219150-17)	TO-15	5.1 "Hg	10.1 psi
18A	Lab Blank	TO-15	NA	NA
18B	Lab Blank	TO-15	NA	NA
18C	Lab Blank	TO-15	NA	NA
19A	CCV	TO-15	NA	NA
19B	CCV	TO-15	NA	NA
19C	CCV	TO-15	NA	NA
20A	LCS	TO-15	NA	NA

Continued on next page

WORK ORDER #: 2502613A

Work Order Summary

CLIENT:	Ms. Nicole Kalis Eurofins Environment Testing 180 S Van Buren Ave. Barberton, OH 44203	**BILL TO:**	Ms. Nicole Kalis Eurofins Environment Testing 180 S Van Buren Ave. Barberton, OH 44203
PHONE:	330-497-9396 X 295	**P.O. #**	240-219150
FAX:		**PROJECT #**	24033889 MSC Canfield
DATE RECEIVED:	02/21/2025	**CONTACT:**	Jade White
DATE COMPLETED:	03/04/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
20AA	LCSD	TO-15	NA	NA
20B	LCS	TO-15	NA	NA
20BB	LCSD	TO-15	NA	NA
20C	LCS	TO-15	NA	NA
20CC	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Rayos DATE: 03/04/25

Technical Director

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2836569, NH NELAP–209224-A, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-13180, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-21
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

LABORATORY NARRATIVE
EPA Method TO-15
Eurofins Environment Testing
Workorder# 2502613A

Fourteen 1 Liter Summa Canister and two 6 Liter Summa Canister samples were received on February 21, 2025. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

The samples arrived at the laboratory without a Chain of Custody (COC). The client subsequently provided the COC by e-mail on 2/26/25.

The Chain of Custody (COC) was not relinquished properly. A signature, date and time were not provided by the field sampler.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Client ID:	SGE-11-5.5-6 (240-219150-1)		
Lab ID:	2502613A-01A	**Date/Time Analyzed:**	3/1/25 12:04 AM
Date/Time Collected:	2/15/25 08:23 AM	**Dilution Factor:**	2.10
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msd17.i / 17022824

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	1.3	3.7	4.2	Not Detected
Tetrachloroethene	127-18-4	2.4	6.4	7.1	Not Detected
trans-1,2-Dichloroethene	156-60-5	1.6	3.7	4.2	Not Detected
Trichloroethene	79-01-6	0.83	5.1	5.6	Not Detected
Vinyl Chloride	75-01-4	1.2	2.4	2.7	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	92
4-Bromofluorobenzene	460-00-4	70-130	100
Toluene-d8	2037-26-5	70-130	97

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	SGE-12-5.5-6 (240-219150-2)		
Lab ID:	2502613A-02A	**Date/Time Analyzed:**	3/1/25 12:33 AM
Date/Time Collected:	2/15/25 09:20 AM	**Dilution Factor:**	1.83
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msd17.i / 17022825

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	1.1	3.3	3.6	Not Detected
Tetrachloroethene	127-18-4	2.1	5.6	6.2	Not Detected
trans-1,2-Dichloroethene	156-60-5	1.4	3.3	3.6	Not Detected
Trichloroethene	79-01-6	0.72	4.4	4.9	Not Detected
Vinyl Chloride	75-01-4	1.1	2.1	2.3	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	90
4-Bromofluorobenzene	460-00-4	70-130	98
Toluene-d8	2037-26-5	70-130	98

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	SGE-7-5.5-6 (240-219150-3)		
Lab ID:	2502613A-03A	**Date/Time Analyzed:**	3/4/25 12:57 PM
Date/Time Collected:	2/14/25 05:20 PM	**Dilution Factor:**	2.21
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msd60.i / 60030407

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	1.3	3.9	4.4	Not Detected
Tetrachloroethene	127-18-4	2.5	6.7	7.5	Not Detected
trans-1,2-Dichloroethene	156-60-5	1.7	3.9	4.4	Not Detected
Trichloroethene	79-01-6	0.87	5.3	5.9	Not Detected
Vinyl Chloride	75-01-4	1.3	2.5	2.8	1.6 J

J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	115
4-Bromofluorobenzene	460-00-4	70-130	94
Toluene-d8	2037-26-5	70-130	99

Client ID:	SGE-8-6.5-7 (240-219150-4)		
Lab ID:	2502613A-04A	**Date/Time Analyzed:**	3/1/25 01:33 AM
Date/Time Collected:	2/14/25 03:38 PM	**Dilution Factor:**	3.34
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msd17.i / 17022827

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	2.0	6.0	6.6	Not Detected
Tetrachloroethene	127-18-4	3.8	10	11	Not Detected
trans-1,2-Dichloroethene	156-60-5	2.5	6.0	6.6	Not Detected
Trichloroethene	79-01-6	1.3	8.1	9.0	Not Detected
Vinyl Chloride	75-01-4	2.0	3.8	4.3	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	89
4-Bromofluorobenzene	460-00-4	70-130	99
Toluene-d8	2037-26-5	70-130	95

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	SGE-9-6.5-7 (240-219150-5)		
Lab ID:	2502613A-05A	**Date/Time Analyzed:**	3/1/25 02:02 AM
Date/Time Collected:	2/14/25 01:00 PM	**Dilution Factor:**	1.90
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msd17.i / 17022828

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	1.1	3.4	3.8	Not Detected
Tetrachloroethene	127-18-4	2.1	5.8	6.4	5.2 J
trans-1,2-Dichloroethene	156-60-5	1.4	3.4	3.8	Not Detected
Trichloroethene	79-01-6	0.75	4.6	5.1	Not Detected
Vinyl Chloride	75-01-4	1.1	2.2	2.4	2.4 J

J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	90
4-Bromofluorobenzene	460-00-4	70-130	98
Toluene-d8	2037-26-5	70-130	97

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	DUP-3-20250214 (240-219150-6)		
Lab ID:	2502613A-06A	**Date/Time Analyzed:**	3/1/25 02:31 AM
Date/Time Collected:	2/14/25 12:00 AM	**Dilution Factor:**	3.02
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msd17.i / 17022829

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	1.8	5.4	6.0	Not Detected
Tetrachloroethene	127-18-4	3.4	9.2	10	Not Detected
trans-1,2-Dichloroethene	156-60-5	2.3	5.4	6.0	Not Detected
Trichloroethene	79-01-6	1.2	7.3	8.1	Not Detected
Vinyl Chloride	75-01-4	1.8	3.5	3.8	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	89
4-Bromofluorobenzene	460-00-4	70-130	101
Toluene-d8	2037-26-5	70-130	96

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	SGE-10-5.5-6 (240-219150-7)		
Lab ID:	2502613A-07A	**Date/Time Analyzed:**	3/3/25 02:44 PM
Date/Time Collected:	2/14/25 06:00 PM	**Dilution Factor:**	2.36
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msd60.i / 60030310

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	1.4	4.2	4.7	Not Detected
Tetrachloroethene	127-18-4	2.6	7.2	8.0	Not Detected
trans-1,2-Dichloroethene	156-60-5	1.8	4.2	4.7	Not Detected
Trichloroethene	79-01-6	0.93	5.7	6.3	Not Detected
Vinyl Chloride	75-01-4	1.4	2.7	3.0	8.1

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	117
4-Bromofluorobenzene	460-00-4	70-130	101
Toluene-d8	2037-26-5	70-130	106

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	SGSS-460-2-20250217 (240-219150-8)		
Lab ID:	2502613A-08A	**Date/Time Analyzed:**	3/1/25 03:01 AM
Date/Time Collected:	2/17/25 06:24 PM	**Dilution Factor:**	1.30
Media:	6 Liter Summa Canister	**Instrument/Filename:**	msd17.i / 17022830

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	0.78	2.3	2.6	Not Detected
Tetrachloroethene	127-18-4	1.5	4.0	4.4	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.98	2.3	2.6	Not Detected
Trichloroethene	79-01-6	0.51	3.1	3.5	Not Detected
Vinyl Chloride	75-01-4	0.77	1.5	1.7	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	92
4-Bromofluorobenzene	460-00-4	70-130	96
Toluene-d8	2037-26-5	70-130	96

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	AA-460-1-20250217 (240-219150-10)		
Lab ID:	2502613A-10A	**Date/Time Analyzed:**	3/1/25 03:31 AM
Date/Time Collected:	2/17/25 06:43 PM	**Dilution Factor:**	1.16
Media:	6 Liter Summa Canister	**Instrument/Filename:**	msd17.i / 17022831

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	0.70	2.1	2.3	Not Detected
Tetrachloroethene	127-18-4	1.3	3.5	3.9	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.88	2.1	2.3	Not Detected
Trichloroethene	79-01-6	0.46	2.8	3.1	Not Detected
Vinyl Chloride	75-01-4	0.69	1.3	1.5	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	90
4-Bromofluorobenzene	460-00-4	70-130	100
Toluene-d8	2037-26-5	70-130	96

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	SGE-1-9.5-10 (240-219150-11)		
Lab ID:	2502613A-11A	**Date/Time Analyzed:**	3/1/25 04:00 AM
Date/Time Collected:	2/18/25 02:59 PM	**Dilution Factor:**	1.79
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msd17.i / 17022832

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	1.1	3.2	3.5	Not Detected
Tetrachloroethene	127-18-4	2.0	5.5	6.1	Not Detected
trans-1,2-Dichloroethene	156-60-5	1.4	3.2	3.5	Not Detected
Trichloroethene	79-01-6	0.70	4.3	4.8	7.0
Vinyl Chloride	75-01-4	1.1	2.0	2.3	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	91
4-Bromofluorobenzene	460-00-4	70-130	99
Toluene-d8	2037-26-5	70-130	95

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	SGE-5-28.5-29 (240-219150-12)		
Lab ID:	2502613A-12A	**Date/Time Analyzed:**	3/3/25 03:14 PM
Date/Time Collected:	2/18/25 06:33 PM	**Dilution Factor:**	2.17
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msd60.i / 60030311

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	1.3	3.9	4.3	Not Detected
Tetrachloroethene	127-18-4	2.4	6.6	7.4	Not Detected
trans-1,2-Dichloroethene	156-60-5	1.6	3.9	4.3	Not Detected
Trichloroethene	79-01-6	0.85	5.2	5.8	1.1 J
Vinyl Chloride	75-01-4	1.3	2.5	2.8	1.6 J

J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	114
4-Bromofluorobenzene	460-00-4	70-130	91
Toluene-d8	2037-26-5	70-130	98

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	SGE-4-17-17.5 (240-219150-13)		
Lab ID:	2502613A-13A	**Date/Time Analyzed:**	3/3/25 03:44 PM
Date/Time Collected:	2/18/25 07:00 PM	**Dilution Factor:**	2.60
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msd60.i / 60030312

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	1.6	4.6	5.2	Not Detected
Tetrachloroethene	127-18-4	2.9	7.9	8.8	Not Detected
trans-1,2-Dichloroethene	156-60-5	2.0	4.6	5.2	Not Detected
Trichloroethene	79-01-6	1.0	6.3	7.0	Not Detected
Vinyl Chloride	75-01-4	1.5	3.0	3.3	1.7 J

J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	116
4-Bromofluorobenzene	460-00-4	70-130	89
Toluene-d8	2037-26-5	70-130	97

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	SGE-6-17.5-18 (240-219150-14)		
Lab ID:	2502613A-14A	**Date/Time Analyzed:**	3/3/25 04:14 PM
Date/Time Collected:	2/18/25 05:16 PM	**Dilution Factor:**	2.02
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msd60.i / 60030313

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	1.2	3.6	4.0	Not Detected
Tetrachloroethene	127-18-4	2.3	6.2	6.8	Not Detected
trans-1,2-Dichloroethene	156-60-5	1.5	3.6	4.0	Not Detected
Trichloroethene	79-01-6	0.80	4.9	5.4	Not Detected
Vinyl Chloride	75-01-4	1.2	2.3	2.6	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	116
4-Bromofluorobenzene	460-00-4	70-130	93
Toluene-d8	2037-26-5	70-130	99

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	SGE-3-16.5-17 (240-219150-15)		
Lab ID:	2502613A-15A	**Date/Time Analyzed:**	3/3/25 04:43 PM
Date/Time Collected:	2/18/25 03:57 PM	**Dilution Factor:**	1.87
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msd60.i / 60030314

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	1.1	3.3	3.7	Not Detected
Tetrachloroethene	127-18-4	2.1	5.7	6.3	Not Detected
trans-1,2-Dichloroethene	156-60-5	1.4	3.3	3.7	Not Detected
Trichloroethene	79-01-6	0.74	4.5	5.0	3.0 J
Vinyl Chloride	75-01-4	1.1	2.2	2.4	6.9

J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	116
4-Bromofluorobenzene	460-00-4	70-130	101
Toluene-d8	2037-26-5	70-130	95

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	SGE-2-17-17.5 (240-219150-16)		
Lab ID:	2502613A-16A	**Date/Time Analyzed:**	3/3/25 05:13 PM
Date/Time Collected:	2/18/25 06:47 PM	**Dilution Factor:**	1.85
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msd60.i / 60030315

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	1.1	3.3	3.7	Not Detected
Tetrachloroethene	127-18-4	2.1	5.6	6.3	Not Detected
trans-1,2-Dichloroethene	156-60-5	1.4	3.3	3.7	Not Detected
Trichloroethene	79-01-6	0.73	4.5	5.0	1.1 J
Vinyl Chloride	75-01-4	1.1	2.1	2.4	Not Detected

J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	114
4-Bromofluorobenzene	460-00-4	70-130	92
Toluene-d8	2037-26-5	70-130	99

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	DUP-2-20250218 (240-219150-17)		
Lab ID:	2502613A-17A	**Date/Time Analyzed:**	3/3/25 05:43 PM
Date/Time Collected:	2/18/25 12:00 AM	**Dilution Factor:**	2.03
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msd60.i / 60030316

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	1.2	3.6	4.0	Not Detected
Tetrachloroethene	127-18-4	2.3	6.2	6.9	Not Detected
trans-1,2-Dichloroethene	156-60-5	1.5	3.6	4.0	Not Detected
Trichloroethene	79-01-6	0.80	4.9	5.4	1.0 J
Vinyl Chloride	75-01-4	1.2	2.3	2.6	Not Detected

J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	114
4-Bromofluorobenzene	460-00-4	70-130	89
Toluene-d8	2037-26-5	70-130	99

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	Lab Blank		
Lab ID:	2502613A-18A	**Date/Time Analyzed:**	2/28/25 02:16 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd17.i / 17022810d

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	0.60	1.8	2.0	Not Detected
Tetrachloroethene	127-18-4	1.1	3.0	3.4	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.76	1.8	2.0	Not Detected
Trichloroethene	79-01-6	0.39	2.4	2.7	Not Detected
Vinyl Chloride	75-01-4	0.59	1.2	1.3	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	105
4-Bromofluorobenzene	460-00-4	70-130	95
Toluene-d8	2037-26-5	70-130	99

Client ID:	Lab Blank		
Lab ID:	2502613A-18B	**Date/Time Analyzed:**	3/3/25 12:31 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd60.i / 60030307a

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	0.60	1.8	2.0	Not Detected
Tetrachloroethene	127-18-4	1.1	3.0	3.4	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.76	1.8	2.0	Not Detected
Trichloroethene	79-01-6	0.39	2.4	2.7	Not Detected
Vinyl Chloride	75-01-4	0.59	1.2	1.3	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	116
4-Bromofluorobenzene	460-00-4	70-130	87
Toluene-d8	2037-26-5	70-130	103

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	Lab Blank		
Lab ID:	2502613A-18C	**Date/Time Analyzed:**	3/4/25 11:55 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd60.i / 60030406d

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	0.60	1.8	2.0	Not Detected
Tetrachloroethene	127-18-4	1.1	3.0	3.4	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.76	1.8	2.0	Not Detected
Trichloroethene	79-01-6	0.39	2.4	2.7	Not Detected
Vinyl Chloride	75-01-4	0.59	1.2	1.3	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	117
4-Bromofluorobenzene	460-00-4	70-130	85
Toluene-d8	2037-26-5	70-130	103

Client ID:	CCV		
Lab ID:	2502613A-19A	**Date/Time Analyzed:**	2/28/25 01:46 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd17.i / 17022809

Compound	CAS#	%Recovery
cis-1,2-Dichloroethene	156-59-2	111
Tetrachloroethene	127-18-4	102
trans-1,2-Dichloroethene	156-60-5	111
Trichloroethene	79-01-6	100
Vinyl Chloride	75-01-4	118

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	103
4-Bromofluorobenzene	460-00-4	70-130	101
Toluene-d8	2037-26-5	70-130	102

Client ID:	CCV		
Lab ID:	2502613A-19B	**Date/Time Analyzed:**	3/3/25 09:59 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd60.i / 60030303

Compound	CAS#	%Recovery
cis-1,2-Dichloroethene	156-59-2	110
Tetrachloroethene	127-18-4	108
trans-1,2-Dichloroethene	156-60-5	114
Trichloroethene	79-01-6	105
Vinyl Chloride	75-01-4	118

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	110
4-Bromofluorobenzene	460-00-4	70-130	109
Toluene-d8	2037-26-5	70-130	104

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	CCV		
Lab ID:	2502613A-19C	**Date/Time Analyzed:**	3/4/25 10:26 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd60.i / 60030403

Compound	CAS#	%Recovery
cis-1,2-Dichloroethene	156-59-2	113
Tetrachloroethene	127-18-4	110
trans-1,2-Dichloroethene	156-60-5	118
Trichloroethene	79-01-6	105
Vinyl Chloride	75-01-4	120

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	114
4-Bromofluorobenzene	460-00-4	70-130	96
Toluene-d8	2037-26-5	70-130	103

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	LCS		
Lab ID:	2502613A-20A	**Date/Time Analyzed:**	2/28/25 12:49 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd17.i / 17022807

Compound	CAS#	%Recovery
cis-1,2-Dichloroethene	156-59-2	104
Tetrachloroethene	127-18-4	102
trans-1,2-Dichloroethene	156-60-5	108
Trichloroethene	79-01-6	99
Vinyl Chloride	75-01-4	116

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	102
4-Bromofluorobenzene	460-00-4	70-130	101
Toluene-d8	2037-26-5	70-130	100

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	LCSD		
Lab ID:	2502613A-20AA	**Date/Time Analyzed:**	2/28/25 01:18 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd17.i / 17022808

Compound	CAS#	%Recovery
cis-1,2-Dichloroethene	156-59-2	111
Tetrachloroethene	127-18-4	100
trans-1,2-Dichloroethene	156-60-5	109
Trichloroethene	79-01-6	101
Vinyl Chloride	75-01-4	118

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	102
4-Bromofluorobenzene	460-00-4	70-130	100
Toluene-d8	2037-26-5	70-130	99

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	LCS		
Lab ID:	2502613A-20B	**Date/Time Analyzed:**	3/3/25 10:27 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd60.i / 60030304

Compound	CAS#	%Recovery
cis-1,2-Dichloroethene	156-59-2	111
Tetrachloroethene	127-18-4	106
trans-1,2-Dichloroethene	156-60-5	114
Trichloroethene	79-01-6	104
Vinyl Chloride	75-01-4	123

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	111
4-Bromofluorobenzene	460-00-4	70-130	98
Toluene-d8	2037-26-5	70-130	104

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	LCSD		
Lab ID:	2502613A-20BB	**Date/Time Analyzed:**	3/3/25 10:54 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd60.i / 60030305

Compound	CAS#	%Recovery
cis-1,2-Dichloroethene	156-59-2	111
Tetrachloroethene	127-18-4	105
trans-1,2-Dichloroethene	156-60-5	116
Trichloroethene	79-01-6	105
Vinyl Chloride	75-01-4	123

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	111
4-Bromofluorobenzene	460-00-4	70-130	108
Toluene-d8	2037-26-5	70-130	104

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	LCS		
Lab ID:	2502613A-20C	**Date/Time Analyzed:**	3/4/25 10:53 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd60.i / 60030404

Compound	CAS#	%Recovery
cis-1,2-Dichloroethene	156-59-2	105
Tetrachloroethene	127-18-4	105
trans-1,2-Dichloroethene	156-60-5	108
Trichloroethene	79-01-6	102
Vinyl Chloride	75-01-4	108

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	110
4-Bromofluorobenzene	460-00-4	70-130	97
Toluene-d8	2037-26-5	70-130	102

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	LCSD		
Lab ID:	2502613A-20CC	**Date/Time Analyzed:**	3/4/25 11:21 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd60.i / 60030405

Compound	CAS#	%Recovery
cis-1,2-Dichloroethene	156-59-2	108
Tetrachloroethene	127-18-4	104
trans-1,2-Dichloroethene	156-60-5	110
Trichloroethene	79-01-6	103
Vinyl Chloride	75-01-4	110

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	110
4-Bromofluorobenzene	460-00-4	70-130	105
Toluene-d8	2037-26-5	70-130	103

* % Recovery is calculated using unrounded analytical results.

eurofins | Air Toxics

Method : TO-15 (Sh)-c/t-1,2-DCE, PCE, TCE & VC

CAS Number	Compound	Rpt. Limit (ppbv)
75-01-4	Vinyl Chloride	0.50
156-59-2	cis-1,2-Dichloroethene	0.50
79-01-6	Trichloroethene	0.50
127-18-4	Tetrachloroethene	0.50
156-60-5	trans-1,2-Dichloroethene	0.50

	Surrogate	Method Limits
17060-07-0	1,2-Dichloroethane-d4	70-130
2037-26-5	Toluene-d8	70-130
460-00-4	4-Bromofluorobenzene	70-130

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Analytical Report

3/7/2025

Ms. Nicole Kalis

Eurofins Environment Testing

180 S Van Buren Ave.

Barberton OH 44203

Project Name: MSC Canfield

Project #: 24033889

Workorder #: 2502613B

Dear Ms. Nicole Kalis

The following report includes the data for the above referenced project for sample(s) received on 3/3/2025 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

WORK ORDER #: 2502613B

Work Order Summary

CLIENT:	Ms. Nicole Kalis Eurofins Environment Testing 180 S Van Buren Ave. Barberton, OH 44203	**BILL TO:**	Ms. Nicole Kalis Eurofins Environment Testing 180 S Van Buren Ave. Barberton, OH 44203
PHONE:	330-497-9396 X 295	**P.O. #**	240-219150
FAX:		**PROJECT #**	24033889 MSC Canfield
DATE RECEIVED:	03/03/2025	**CONTACT:**	Jade White
DATE COMPLETED:	03/07/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
09A	SGSS-460-1-20250217 (240-219150-9)	TO-15	6.9 "Hg	1.9 psi
10A	Lab Blank	TO-15	NA	NA
11A	CCV	TO-15	NA	NA
12A	LCS	TO-15	NA	NA
12AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 03/07/25

Technical Director

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2836569, NH NELAP–209224-A, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-13180, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-21
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

LABORATORY NARRATIVE
EPA Method TO-15
Eurofins Environment Testing
Workorder# 2502613B

One 6 Liter Summa Canister sample was received on March 03, 2025. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

The Chain of Custody (COC) was not relinquished properly. A time was not provided by the field sampler.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	SGSS-460-1-20250217 (240-219150-9)		
Lab ID:	2502613B-09A	**Date/Time Analyzed:**	3/6/25 02:17 AM
Date/Time Collected:	2/17/25 06:49 PM	**Dilution Factor:**	1.47
Media:	6 Liter Summa Canister	**Instrument/Filename:**	msd60.i / 60030530

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	0.88	2.6	2.9	Not Detected
Tetrachloroethene	127-18-4	1.6	4.5	5.0	Not Detected
trans-1,2-Dichloroethene	156-60-5	1.1	2.6	2.9	9.5
Trichloroethene	79-01-6	0.58	3.6	4.0	Not Detected
Vinyl Chloride	75-01-4	0.87	1.7	1.9	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	117
4-Bromofluorobenzene	460-00-4	70-130	84
Toluene-d8	2037-26-5	70-130	99

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	Lab Blank		
Lab ID:	2502613B-10A	**Date/Time Analyzed:**	3/5/25 11:33 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd60.i / 60030507g

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	156-59-2	0.60	1.8	2.0	Not Detected
Tetrachloroethene	127-18-4	1.1	3.0	3.4	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.76	1.8	2.0	Not Detected
Trichloroethene	79-01-6	0.39	2.4	2.7	Not Detected
Vinyl Chloride	75-01-4	0.59	1.2	1.3	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	118
4-Bromofluorobenzene	460-00-4	70-130	88
Toluene-d8	2037-26-5	70-130	102

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	CCV		
Lab ID:	2502613B-11A	**Date/Time Analyzed:**	3/5/25 09:42 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd60.i / 60030503

Compound	CAS#	%Recovery
cis-1,2-Dichloroethene	156-59-2	112
Tetrachloroethene	127-18-4	107
trans-1,2-Dichloroethene	156-60-5	117
Trichloroethene	79-01-6	105
Vinyl Chloride	75-01-4	119

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	114
4-Bromofluorobenzene	460-00-4	70-130	104
Toluene-d8	2037-26-5	70-130	104

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	LCS		
Lab ID:	2502613B-12A	**Date/Time Analyzed:**	3/5/25 10:09 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd60.i / 60030504

Compound	CAS#	%Recovery
cis-1,2-Dichloroethene	156-59-2	110
Tetrachloroethene	127-18-4	106
trans-1,2-Dichloroethene	156-60-5	111
Trichloroethene	79-01-6	104
Vinyl Chloride	75-01-4	111

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	115
4-Bromofluorobenzene	460-00-4	70-130	96
Toluene-d8	2037-26-5	70-130	104

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS
MSC Canfield

Client ID:	LCSD		
Lab ID:	2502613B-12AA	**Date/Time Analyzed:**	3/5/25 10:36 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd60.i / 60030505

Compound	CAS#	%Recovery
cis-1,2-Dichloroethene	156-59-2	103
Tetrachloroethene	127-18-4	102
trans-1,2-Dichloroethene	156-60-5	109
Trichloroethene	79-01-6	103
Vinyl Chloride	75-01-4	107

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	112
4-Bromofluorobenzene	460-00-4	70-130	110
Toluene-d8	2037-26-5	70-130	104

* % Recovery is calculated using unrounded analytical results.

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Method : TO-15 (Sh)-c/t-1,2-DCE, PCE, TCE & VC

CAS Number	Compound	Rpt. Limit (ppbv)
75-01-4	Vinyl Chloride	0.50
156-59-2	cis-1,2-Dichloroethene	0.50
79-01-6	Trichloroethene	0.50
127-18-4	Tetrachloroethene	0.50
156-60-5	trans-1,2-Dichloroethene	0.50

	Surrogate	Method Limits
17060-07-0	1,2-Dichloroethane-d4	70-130
2037-26-5	Toluene-d8	70-130
460-00-4	4-Bromofluorobenzene	70-130

Analysis Request / Canister Chain of Custody

eurofins | Air Toxics
Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Workorder #:

Instructions

If no TAT is marked, EATL will proceed with Standard TAT

Client: August Mack
Site Name: MSC Canfield JY2380
Project Manager: Kain Lages-Lowe
Sampler: B. Camp & M. Schaeffer

Project Name: MSC Canfield
Project #: JY2380
PO#:

Turnaround Time (Specify Below)
Standard ✓ Rush _____ (Surcharges will apply, per availability)
Samples received after 3PM PST are considered to be received on the following workday.
Requested Date (mm/dd/yy):
OR Number of Days:

Lab ID	Field Sample Identification (Location)	Canister Barcode #	Flow Controller Barcode #	Start Sampling Information		Stop Sampling Information		Requested Analyses: TO-15 Short list				Canister Vacuum/Pressure: Initial (in Hg)	Final (in Hg)	Lab Use Only: Receipt (in "Hg)	Lab Use Only: Final (in psi) Gas: N2 / He
				Date	Time	Date	Time								
	SGe-11-5.5-6	IL1827	25245	2-15-25	0756	2-15-25	0823	X				-26	-4		
	SGe-12-5.5-6	IL2937	25191	2-15-25	0855	2-15-25	0920	X				-26	-3		
	SGe-7-5.5-6	IL3973	26672	2-14-25	1706	2-14-25	1720	X				-28.5	-2		
	SGe-8-6.5-7	IL5021	23249	2-14-25	1441	2-14-25	1538	X				-28.5	-15		
	SGe-9-6.5-7	IL2574	25194	2-14-25	1237	2-14-25	1300	X				-28	-3		
	DUP-3-20250214	IL1593	23205	2-14-25	—	2-14-25	—	X				-28	-16		
	SGe-10-5.5-6	IL2978	23207	2-14-25	1745	2-14-25	1800	X				-26	-3		
	SGSS-460-2-20250217	6L1050	28024	2/17/25	1105	2/17/25	1824	✓				-27	-4		
	SGSS-460-1-20250217	6L1229	25812	2/17/25	1113	2/17/25	1849	✓				-28.5	-4.5		
	AA-460-1-20250217	6L1914	27960 23337	2/17/25	0958	2/17/25	1843	✓				-29.5	-5.5		
	SGe-1-9.5-10	IL4669	2305	2/18/25	1435	2/18/25	1459	✓				-29	-5		
	SGe-5-28.5-29	IL5192	26677	2/18/25	1732	2/18/25	1833	✓				-28	-7		

240-219150 COC

Special Instructions/Notes:
Short List: TCE; cis-Dichloroethene; trans-Dichloroethene; 1,1-Dichloroethene; Vinyl Chloride

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Bryce Camp/ARE	2/19/25	1108		2/19/25	1108
	2/19/25	1221	MALISSA LOAR	2/19/25	12:24

Lab Use Only

Shipper Name:	Custody Seals Intact? Yes No None	Condition:

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

Analysis Request / Canister Chain of Custody

eurofins | Air Toxics

Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Workorder #:

Instructions

If no TAT is marked, EATL will proceed with Standard TAT

Client: August Mack
Site Name: MSC Canfield
Project Manager: Kris Lager-Lowe
Sampler: B. Camp & M. Schaeffer

Project Name: MSC Canfield
Project #: J42380
PO#:

Turnaround Time (Specify Below)
Standard ✓ Rush ____ (Surcharges will apply, per availability)
Samples received after 3PM PST are considered to be received on the following workday.
Requested Date (mm/dd/yy):
OR Number of Days:

Lab ID	Field Sample Identification (Location)	Canister Barcode #	Flow Controller Barcode #	Start Sampling Information		Stop Sampling Information		Requested Analyses: TO-15 Short List				Canister Vacuum/Pressure		Lab Use Only	
				Date	Time	Date	Time					Initial (in Hg)	Final (in Hg)	Receipt (in "Hg)	Final (in psi) Gas: N2 / He
~~S6e-11-5.5-6~~		~~IL1527~~	~~25245~~	~~2-15-25~~	~~0756~~	~~2-15-25~~	~~0852~~	X				~~-26~~	~~-4~~		
~~S6e-12-5.5-6~~		~~IL2937~~	~~25191~~	~~2-15-25~~	~~0853~~	~~2-15-25~~	~~0920~~	X				~~-26.5~~	~~-3~~		
~~S6e-7-5.5-6~~		~~IL3973~~	~~26672~~	~~2-14-25~~	~~1706~~	~~2-14-25~~	~~1720~~	X				~~-28.5~~	~~-2~~		
~~S6e-8-6.5-7~~		~~IL5021~~	~~23249~~	~~2-14-25~~	~~1941~~	~~2-14-25~~	~~1538~~	X				~~-28.5~~	~~-15~~		
~~S6e-4-6.5-7~~		~~IL2574~~	~~25199~~	~~2-14-25~~	~~1737~~	~~2-14-25~~	~~1300~~	X				~~-28~~	~~-3~~		
~~DUP-3-20250214~~		~~IL1593~~	~~23205~~	~~2-14-25~~	—	~~2-14-25~~	—	X				~~-28~~	~~-16~~		
~~S6e-10-5.5-6~~		~~IL2978~~	~~23207~~	~~2-14-25~~	~~1745~~	~~2-14-25~~	~~1550~~	X				~~-26~~	~~-3~~		
	S6e-4-17-17.5	IL2572	24532	2/18/25	1631	2/18/25	1900	X				-28.5	-13		
	S6e-6-17.5-18	IL5337	23211	2/18/25	1655	2/18/25	1716	X				-28	-4.5		
	S6e-3-16.5-17	IL3184	24397	2/18/25	1535	2/18/25	1557	X				-26	-5		
	S6e-2-17-17.5	IL3778	24064	2/18/25	1830	1847 2/18/25		X				-24.5	-4.5		
	DUP-2-20250218	IL1553	24349	2/18/25	—	2/18/25	—	X				-27	-5		

Special Instructions/Notes:
Short List: TCE; cis-Dichloroethene; trans-Dichloroethene; 1,1-Dichloroethene; Vinyl Chloride

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Bryce Camplone	2/19/25	1108		2/19/25	1108
	2/19/25	1221	MALISSA LOAR	2/19/25	1221

Lab Use Only

Shipper Name:	Custody Seals Intact?	Yes	No	None	Condition:

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

Eurofins – Cleveland Sample Receipt Form/Narrative **Login # :**
Barberton Facility

Client AUGUST MACK Site Name

Cooler Received on 2/19/25 Opened on 2/19/25

Cooler unpacked by: MALISSA LOAR

FedEx: 1st Grd Exp UPS FAS (Waypoint) Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # Foam Box Client Cooler (Box) Other

Packing material used: Bubble Wrap Foam Plastic Bag (None) Other

COOLANT Wet Ice Blue Ice Dry Ice Water (None)

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 13 (CF 0 °C) Observed Cooler Temp. 2.3 °C Corrected Cooler Temp 2.3 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity	Yes (No)	
-Were the seals on the outside of the cooler(s) signed & dated?	Yes No (NA)	
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes (No)	
-Were tamper/custody seals intact and uncompromised?	Yes No (NA)	
3 Shippers' packing slip attached to the cooler(s)?	Yes (No)	
4 Did custody papers accompany the sample(s)?	(Yes) No	
5 Were the custody papers relinquished & signed in the appropriate place?	(Yes) No	
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes (No)	
7 Did all bottles arrive in good condition (Unbroken)?	(Yes) No	
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes) No	
9 For each sample, does the COC specify preservatives (Y(N), # of containers (Y(N), and sample type of grab/comp(Y(N)?		
10 Were correct bottle(s) used for the test(s) indicated?	(Yes) No	
11 Sufficient quantity received to perform indicated analyses?	(Yes) No	
12. Are these work share samples and all listed on the COC?	Yes (No)	
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes No (NA)	pH Strip Lot# HC448976
14 Were VOAs on the COC?	Yes (No)	
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this.	Yes No (NA)	
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes (No)	
17 Was a LL Hg or Me Hg trip blank present?	Yes (No)	

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19 SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired

Sample(s) were received in a broken container

Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20 SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory

Time preserved Preservative(s) added/Lot number(s).

VOA Sample Preservation - Date/Time VOAs Frozen