

June 4, 2022

B2204298.00

Iowa City Property Owner, LLC
c/o Kimberly M. Badenoch, LEED AP
Gilbane Development Company
7 Jackson Walkway
Providence, RI 02903

Re: Environmental Sampling and Reporting
Gilbane Iowa City
S. Gilbert Street and Southgate Avenue
Iowa City, Iowa

Dear Ms. Badenoch:

Braun Intertec Corporation (Braun Intertec) is pleased to present the results of the environmental sampling and metals testing of the property located at S. Gilbert Street and Southgate Avenue in Iowa City, Iowa (Site). The objective of the field investigation was to identify the suitability of the off-site stockpile location for soils excavated from 700 S Dubuque Street in Iowa City, Iowa.

Braun Intertec Corporation received authorization from Kimberly M. Badenoch of Gilbane Development Company on behalf of Iowa City Property Owner, LLC to conduct environmental field sampling and reporting of the South Gilbert Street property in Iowa City, Iowa (Site), in accordance with the scope of services described in Braun Intertec's proposal dated May 26, 2022. The field sampling and reporting was prepared in association with the redevelopment of the Site.

This field sampling and reporting was prepared on behalf of and for use by Iowa City Property Owner, LLC and Gilbane Development Company in accordance with the contract between Iowa City Property Owner, LLC and Braun Intertec. No other party has a right to rely on the contents of this field sampling and reporting without the written authorization of Braun Intertec.

Background

Braun Intertec completed a Limited Phase II ESA dated March 4, 2020 that identified arsenic soil concentrations above statewide standards on the most northwest parcels of the site formerly identified as 700 S. Dubuque Street by the City of Iowa City assessor. Braun Intertec recommended in the event of site redevelopment, further soil and groundwater investigation may be warranted including preparing a construction contingency plan to evaluate and manage other environmental issues that may arise during redevelopment of the Site. Braun Intertec perform field soil sampling to identified areas impacted by elevated arsenic concentrations for disposal to the City of Iowa City Landfill on May 31, 2022. Gilbane
AA/EOE

Development Company has requested that, in order to satisfy requirements put forth by Matt Culp with the Iowa Department of Natural Resources (IDNR) additional soil investigation be conducted on the planned stockpile Site located at S. Gilbert Street and Southgate Avenue.

Investigation Methods and Procedures

The field work relating to the investigation was conducted on June 17, 2022. Prior to beginning the field investigation, public utilities were cleared through Iowa One Call by Braun Intertec.

Soil Sampling and Analytical Testing

Twelve (12) soil samples were collected from twelve (12) hand auger borings on the Site at the stockpile location at S Gilbert Street and Southgate Avenue for laboratory analysis. Soil samples were collected from 0 to 2 feet based on the grading plan provided by the client and DeLong Construction, the soil excavation company. Soil samples were submitted to Pace Analytical Laboratory from Lenexa, Kansas, and analyzed for a combination of the following parameters:

- 8 RCRA Metals by using EPA Methods 6010 and 7471

A table reporting the results of the laboratory testing is included in the attachments.

Conclusions

The field sampling and analytical testing identified arsenic impacts in the soil across the Site that was above Iowa Department of Natural Resources Statewide Standards and various concentrations of barium, cadmium, chromium, lead, selenium, silver and mercury all below IDNR Statewide Standards. A figure indicating where samples were taken from the stockpile locations is attached.

Assessment Limitations

Please note the Scope of Services for the proposed investigation, in conjunction with the existing data, is designed to evaluate the potential presence of soil impact and debris. However, because there was a fixed number of sampling locations, the Scope of Services provided may not fully define the extent of contamination that may be present at the Site. Further, please note that identification of contamination may require the property owner to notify the IDNR of an identified release, and additional investigation may be required to evaluate the extent of impacts and to obtain applicable liability assurance letters from the IDNR.

If you have any questions or would like to discuss further, please feel free to contact either Ashley Pasakarnis at (319) 432-9656 or Alec Matthew at (319) 531-6178. We welcome the opportunity to sit down and discuss the ongoing scope and schedule in order to meet your project expectations.

Thank you,

BRAUN INTERTEC CORPORATION



Alexander Matthew
Staff Scientist



Ashley E. Pasakarnis, PE, CGP
Project Engineer

Attachments:

Figure 1 – Site Map

Table 1 – Summary of Analytical Results

Pace Laboratory Analytical Report

cc: Gokhul Ranganath, Sky Sanborn, Broeren Russo Builders, Inc
Chris Hutchins, Rick Brown, Iowa Builder



 HAND AUGER SAMPLE LOCATION

NOTE:
SAMPLE HA-1 WAS PERFORMED ON PRIOR
ROUND OF INVESTIGATION



50' 0 100'

SCALE: 1" = 100'

**BRAUN
INTERTEC**
The Science You Build On.

1901 16th Avenue SW, Suite 2
Cedar Rapids, IA 52404
319.365.0961
braunintertec.com

Project No:
B2204298.00

Drawing No:
B2204298-00

Drawn By: BJB
Date Drawn: 6/14/22
Checked By: AM
Last Modified: 6/21/22

Gilbane - Iowa City

S Gilbert Street and Southgate Avenue

Iowa City, IA

**Investigation
Location Sketch**

TABLE 1
SOIL ANALYTICAL RESULTS
S. GILBERT STREET & SOUTHGATE AVENUE, IOWA CITY, IA
B2204298.00

Sample ID	Collection Date	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
IDNR Statewide Standards		1.9	15000	70	190	400	390	370	23
HA-1 (0-2)	05/31/2022 05:12	7.2	NA	NA	NA	NA	NA	NA	NA
HA-2 (0-2)	6/17/2022 10:29	6.7	166	ND	17.0	40.1	ND	ND	0.15
HA-3 (0-2)	6/17/2022 10:57	7.0	148	ND	16.0	17.4	ND	ND	ND
HA-4 (0-2)	6/17/2022 11:26	5.5	215	ND	15.8	29.9	ND	ND	0.084
HA-5 (0-2)	6/17/2022 11:55	5.6	114	ND	15.7	27.3	ND	ND	0.13
HA-6 (0-2)	6/17/2022 12:25	4.2	42.7	ND	6.4	10.6	ND	ND	ND
HA-7 (0-2)	6/17/2022 12:50	3.5	151	ND	9.7	8.7	ND	ND	ND
HA-8 (0-2)	6/17/2022 13:12	6.0	74.5	ND	19	10.9	ND	ND	0.099
HA-9 (0-2)	6/17/2022 13:31	6.0	122	ND	12.7	12.8	ND	ND	0.082
HA-10 (0-2)	6/17/2022 14:00	4.7	102	0.51	11.3	39.2	ND	ND	0.16
HA-11 (0-2)	6/17/2022 14:19	4.4	113	ND	13.1	22.6	ND	ND	0.076
HA-12 (0-2)	6/17/2022 14:40	6.5	127	ND	15.1	22.8	ND	ND	0.12
HA-13 (0-2)	6/17/2022 15:05	15.6	148	ND	16.6	27.3	ND	ND	0.063
Site Average		6.4	126.9	0.5	14.0	22.5	ND	ND	0.107

Notes

-- Not sampled
mg/kg milligrams per kilogram
Bold Results above IDNR statewide
NA Method not analyzed
ND Not detected above method detection limit
Method EPA 6010 and 7471 for 8 RCRA Metals

June 23, 2022

Alec Matthew
Braun Intertec
1901 16th SW Ave
Suite 2
Cedar Rapids, IA 52404

RE: Project: B2204298.00 S, DUBUQUE ST
Pace Project No.: 60403317

Dear Alec Matthew:

Enclosed are the analytical results for sample(s) received by the laboratory on June 18, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Angie Brown
angie.brown@pacelabs.com
1(913)563-1402
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: B2204298.00 S, DUBUQUE ST

Pace Project No.: 60403317

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 20-020-0

Arkansas Drinking Water

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212020-2

Oklahoma Certification #: 9205/9935

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-21-15

Utah Certification #: KS000212019-9

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

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SAMPLE SUMMARY

Project: B2204298.00 S, DUBUQUE ST

Pace Project No.: 60403317

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60403317001	HA-2 (0-2)	Solid	06/17/22 10:29	06/18/22 12:40
60403317002	HA-3 (0-2)	Solid	06/17/22 10:57	06/18/22 12:40
60403317003	HA-4 (0-2)	Solid	06/17/22 11:26	06/18/22 12:40
60403317004	HA-5 (0-2)	Solid	06/17/22 11:55	06/18/22 12:40
60403317005	HA-6 (0-2)	Solid	06/17/22 12:25	06/18/22 12:40
60403317006	HA-7 (0-2)	Solid	06/17/22 12:50	06/18/22 12:40
60403317007	HA-8 (0-2)	Solid	06/17/22 13:12	06/18/22 12:40
60403317008	HA-9 (0-2)	Solid	06/17/22 13:31	06/18/22 12:40
60403317009	HA-10 (0-2)	Solid	06/17/22 14:00	06/18/22 12:40
60403317010	HA-11 (0-2)	Solid	06/17/22 14:19	06/18/22 12:40
60403317011	HA-12	Solid	06/17/22 14:40	06/18/22 12:40
60403317012	HA-13	Solid	06/17/22 15:05	06/18/22 12:40

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SAMPLE ANALYTE COUNT

Project: B2204298.00 S, DUBUQUE ST

Pace Project No.: 60403317

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60403317001	HA-2 (0-2)	EPA 6010	MA1	7	PASI-K
		EPA 7471	MRV	1	PASI-K
		ASTM D2974	DWC	1	PASI-K
60403317002	HA-3 (0-2)	EPA 6010	MA1	7	PASI-K
		EPA 7471	MRV	1	PASI-K
		ASTM D2974	DWC	1	PASI-K
60403317003	HA-4 (0-2)	EPA 6010	MA1	7	PASI-K
		EPA 7471	MRV	1	PASI-K
		ASTM D2974	DWC	1	PASI-K
60403317004	HA-5 (0-2)	EPA 6010	MA1	7	PASI-K
		EPA 7471	MRV	1	PASI-K
		ASTM D2974	DWC	1	PASI-K
60403317005	HA-6 (0-2)	EPA 6010	MA1	7	PASI-K
		EPA 7471	MRV	1	PASI-K
		ASTM D2974	DWC	1	PASI-K
60403317006	HA-7 (0-2)	EPA 6010	MA1	7	PASI-K
		EPA 7471	MRV	1	PASI-K
		ASTM D2974	DWC	1	PASI-K
60403317007	HA-8 (0-2)	EPA 6010	MA1	7	PASI-K
		EPA 7471	MRV	1	PASI-K
		ASTM D2974	DWC	1	PASI-K
60403317008	HA-9 (0-2)	EPA 6010	MA1	7	PASI-K
		EPA 7471	MRV	1	PASI-K
		ASTM D2974	DWC	1	PASI-K
60403317009	HA-10 (0-2)	EPA 6010	MA1	7	PASI-K
		EPA 7471	MRV	1	PASI-K
		ASTM D2974	DWC	1	PASI-K
60403317010	HA-11 (0-2)	EPA 6010	MA1	7	PASI-K
		EPA 7471	MRV	1	PASI-K
		ASTM D2974	DWC	1	PASI-K
60403317011	HA-12	EPA 6010	MA1	7	PASI-K
		EPA 7471	MRV	1	PASI-K
		ASTM D2974	DWC	1	PASI-K
60403317012	HA-13	EPA 6010	MA1	7	PASI-K
		EPA 7471	MRV	1	PASI-K
		ASTM D2974	DWC	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: B2204298.00 S, DUBUQUE ST

Pace Project No.: 60403317

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
PASI-K = Pace Analytical Services - Kansas City					

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B2204298.00 S, DUBUQUE ST

Pace Project No.: 60403317

Sample: HA-2 (0-2) **Lab ID:** 60403317001 Collected: 06/17/22 10:29 Received: 06/18/22 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Kansas City								
Arsenic	6.7	mg/kg	1.1	1	06/22/22 09:01	06/23/22 11:17	7440-38-2	
Barium	166	mg/kg	0.53	1	06/22/22 09:01	06/23/22 11:17	7440-39-3	
Cadmium	ND	mg/kg	0.53	1	06/22/22 09:01	06/23/22 11:17	7440-43-9	
Chromium	17.0	mg/kg	0.53	1	06/22/22 09:01	06/23/22 11:17	7440-47-3	
Lead	40.1	mg/kg	1.1	1	06/22/22 09:01	06/23/22 11:17	7439-92-1	
Selenium	ND	mg/kg	1.6	1	06/22/22 09:01	06/23/22 11:17	7782-49-2	
Silver	ND	mg/kg	0.75	1	06/22/22 09:01	06/23/22 11:17	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - Kansas City								
Mercury	0.15	mg/kg	0.058	1	06/22/22 11:20	06/22/22 17:10	7439-97-6	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	16.2	%	0.50	1		06/21/22 15:45		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B2204298.00 S, DUBUQUE ST

Pace Project No.: 60403317

Sample: HA-3 (0-2) **Lab ID: 60403317002** Collected: 06/17/22 10:57 Received: 06/18/22 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Kansas City								
Arsenic	7.0	mg/kg	1.0	1	06/22/22 09:01	06/23/22 11:29	7440-38-2	
Barium	148	mg/kg	0.51	1	06/22/22 09:01	06/23/22 11:29	7440-39-3	
Cadmium	ND	mg/kg	0.51	1	06/22/22 09:01	06/23/22 11:29	7440-43-9	
Chromium	16.0	mg/kg	0.51	1	06/22/22 09:01	06/23/22 11:29	7440-47-3	
Lead	17.4	mg/kg	1.0	1	06/22/22 09:01	06/23/22 11:29	7439-92-1	
Selenium	ND	mg/kg	1.5	1	06/22/22 09:01	06/23/22 11:29	7782-49-2	
Silver	ND	mg/kg	0.72	1	06/22/22 09:01	06/23/22 11:29	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - Kansas City								
Mercury	ND	mg/kg	0.051	1	06/22/22 11:20	06/22/22 17:12	7439-97-6	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	16.1	%	0.50	1		06/21/22 15:45		

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ANALYTICAL RESULTS

Project: B2204298.00 S, DUBUQUE ST

Pace Project No.: 60403317

Sample: HA-4 (0-2) **Lab ID:** 60403317003 Collected: 06/17/22 11:26 Received: 06/18/22 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Kansas City								
Arsenic	5.5	mg/kg	1.2	1	06/22/22 09:01	06/23/22 11:31	7440-38-2	
Barium	215	mg/kg	0.62	1	06/22/22 09:01	06/23/22 11:31	7440-39-3	
Cadmium	ND	mg/kg	0.62	1	06/22/22 09:01	06/23/22 11:31	7440-43-9	
Chromium	15.8	mg/kg	0.62	1	06/22/22 09:01	06/23/22 11:31	7440-47-3	
Lead	29.9	mg/kg	1.2	1	06/22/22 09:01	06/23/22 11:31	7439-92-1	
Selenium	ND	mg/kg	1.8	1	06/22/22 09:01	06/23/22 11:31	7782-49-2	
Silver	ND	mg/kg	0.86	1	06/22/22 09:01	06/23/22 11:31	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - Kansas City								
Mercury	0.084	mg/kg	0.055	1	06/22/22 11:20	06/22/22 17:15	7439-97-6	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	22.0	%	0.50	1		06/21/22 15:45		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B2204298.00 S, DUBUQUE ST

Pace Project No.: 60403317

Sample: HA-5 (0-2) **Lab ID:** 60403317004 Collected: 06/17/22 11:55 Received: 06/18/22 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Kansas City								
Arsenic	5.6	mg/kg	1.1	1	06/22/22 09:01	06/23/22 11:33	7440-38-2	
Barium	114	mg/kg	0.53	1	06/22/22 09:01	06/23/22 11:33	7440-39-3	
Cadmium	ND	mg/kg	0.53	1	06/22/22 09:01	06/23/22 11:33	7440-43-9	
Chromium	15.7	mg/kg	0.53	1	06/22/22 09:01	06/23/22 11:33	7440-47-3	
Lead	27.3	mg/kg	1.1	1	06/22/22 09:01	06/23/22 11:33	7439-92-1	
Selenium	ND	mg/kg	1.6	1	06/22/22 09:01	06/23/22 11:33	7782-49-2	
Silver	ND	mg/kg	0.74	1	06/22/22 09:01	06/23/22 11:33	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - Kansas City								
Mercury	0.13	mg/kg	0.048	1	06/22/22 11:20	06/22/22 17:17	7439-97-6	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	12.5	%	0.50	1		06/21/22 15:45		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B2204298.00 S, DUBUQUE ST

Pace Project No.: 60403317

Sample: HA-6 (0-2) **Lab ID:** 60403317005 Collected: 06/17/22 12:25 Received: 06/18/22 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Kansas City								
Arsenic	4.2	mg/kg	0.90	1	06/22/22 09:01	06/23/22 11:35	7440-38-2	
Barium	42.7	mg/kg	0.45	1	06/22/22 09:01	06/23/22 11:35	7440-39-3	
Cadmium	ND	mg/kg	0.45	1	06/22/22 09:01	06/23/22 11:35	7440-43-9	
Chromium	6.4	mg/kg	0.45	1	06/22/22 09:01	06/23/22 11:35	7440-47-3	
Lead	10.6	mg/kg	0.90	1	06/22/22 09:01	06/23/22 11:35	7439-92-1	
Selenium	ND	mg/kg	1.4	1	06/22/22 09:01	06/23/22 11:35	7782-49-2	
Silver	ND	mg/kg	0.63	1	06/22/22 09:01	06/23/22 11:35	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - Kansas City								
Mercury	ND	mg/kg	0.058	1	06/22/22 11:20	06/22/22 17:19	7439-97-6	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	22.0	%	0.50	1		06/21/22 15:46		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B2204298.00 S, DUBUQUE ST

Pace Project No.: 60403317

Sample: HA-7 (0-2) **Lab ID:** 60403317006 Collected: 06/17/22 12:50 Received: 06/18/22 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Kansas City								
Arsenic	3.5	mg/kg	0.87	1	06/22/22 09:01	06/23/22 11:37	7440-38-2	
Barium	151	mg/kg	0.44	1	06/22/22 09:01	06/23/22 11:37	7440-39-3	
Cadmium	ND	mg/kg	0.44	1	06/22/22 09:01	06/23/22 11:37	7440-43-9	
Chromium	9.7	mg/kg	0.44	1	06/22/22 09:01	06/23/22 11:37	7440-47-3	
Lead	8.7	mg/kg	0.87	1	06/22/22 09:01	06/23/22 11:37	7439-92-1	
Selenium	ND	mg/kg	1.3	1	06/22/22 09:01	06/23/22 11:37	7782-49-2	
Silver	ND	mg/kg	0.61	1	06/22/22 09:01	06/23/22 11:37	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - Kansas City								
Mercury	ND	mg/kg	0.051	1	06/22/22 11:20	06/22/22 17:21	7439-97-6	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	13.0	%	0.50	1		06/21/22 15:46		

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ANALYTICAL RESULTS

Project: B2204298.00 S, DUBUQUE ST

Pace Project No.: 60403317

Sample: HA-8 (0-2) **Lab ID:** 60403317007 Collected: 06/17/22 13:12 Received: 06/18/22 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Kansas City								
Arsenic	6.0	mg/kg	1.2	1	06/22/22 09:01	06/23/22 11:39	7440-38-2	
Barium	74.5	mg/kg	0.60	1	06/22/22 09:01	06/23/22 11:39	7440-39-3	
Cadmium	ND	mg/kg	0.60	1	06/22/22 09:01	06/23/22 11:39	7440-43-9	
Chromium	19.0	mg/kg	0.60	1	06/22/22 09:01	06/23/22 11:39	7440-47-3	
Lead	10.9	mg/kg	1.2	1	06/22/22 09:01	06/23/22 11:39	7439-92-1	
Selenium	ND	mg/kg	1.8	1	06/22/22 09:01	06/23/22 11:39	7782-49-2	
Silver	ND	mg/kg	0.84	1	06/22/22 09:01	06/23/22 11:39	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - Kansas City								
Mercury	0.099	mg/kg	0.054	1	06/22/22 11:20	06/22/22 17:24	7439-97-6	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	18.4	%	0.50	1		06/21/22 15:46		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B2204298.00 S, DUBUQUE ST

Pace Project No.: 60403317

Sample: HA-9 (0-2) **Lab ID: 60403317008** Collected: 06/17/22 13:31 Received: 06/18/22 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Kansas City								
Arsenic	6.0	mg/kg	0.89	1	06/22/22 09:01	06/23/22 11:41	7440-38-2	
Barium	122	mg/kg	0.44	1	06/22/22 09:01	06/23/22 11:41	7440-39-3	
Cadmium	ND	mg/kg	0.44	1	06/22/22 09:01	06/23/22 11:41	7440-43-9	
Chromium	12.7	mg/kg	0.44	1	06/22/22 09:01	06/23/22 11:41	7440-47-3	
Lead	12.8	mg/kg	0.89	1	06/22/22 09:01	06/23/22 11:41	7439-92-1	
Selenium	ND	mg/kg	1.3	1	06/22/22 09:01	06/23/22 11:41	7782-49-2	
Silver	ND	mg/kg	0.62	1	06/22/22 09:01	06/23/22 11:41	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - Kansas City								
Mercury	0.082	mg/kg	0.048	1	06/22/22 11:20	06/22/22 17:31	7439-97-6	M1
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	19.7	%	0.50	1		06/21/22 15:46		

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ANALYTICAL RESULTS

Project: B2204298.00 S, DUBUQUE ST

Pace Project No.: 60403317

Sample: HA-10 (0-2) **Lab ID:** 60403317009 **Collected:** 06/17/22 14:00 **Received:** 06/18/22 12:40 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Kansas City								
Arsenic	4.7	mg/kg	1.0	1	06/22/22 09:01	06/23/22 11:43	7440-38-2	
Barium	102	mg/kg	0.50	1	06/22/22 09:01	06/23/22 11:43	7440-39-3	
Cadmium	0.51	mg/kg	0.50	1	06/22/22 09:01	06/23/22 11:43	7440-43-9	
Chromium	11.3	mg/kg	0.50	1	06/22/22 09:01	06/23/22 11:43	7440-47-3	
Lead	39.2	mg/kg	1.0	1	06/22/22 09:01	06/23/22 11:43	7439-92-1	
Selenium	ND	mg/kg	1.5	1	06/22/22 09:01	06/23/22 11:43	7782-49-2	
Silver	ND	mg/kg	0.70	1	06/22/22 09:01	06/23/22 11:43	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - Kansas City								
Mercury	0.16	mg/kg	0.053	1	06/22/22 11:20	06/22/22 17:37	7439-97-6	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	12.3	%	0.50	1		06/21/22 15:46		

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ANALYTICAL RESULTS

Project: B2204298.00 S, DUBUQUE ST

Pace Project No.: 60403317

Sample: HA-11 (0-2) **Lab ID: 60403317010** Collected: 06/17/22 14:19 Received: 06/18/22 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Kansas City								
Arsenic	4.4	mg/kg	1.1	1	06/22/22 09:01	06/23/22 11:51	7440-38-2	
Barium	113	mg/kg	0.53	1	06/22/22 09:01	06/23/22 11:51	7440-39-3	
Cadmium	ND	mg/kg	0.53	1	06/22/22 09:01	06/23/22 11:51	7440-43-9	
Chromium	13.1	mg/kg	0.53	1	06/22/22 09:01	06/23/22 11:51	7440-47-3	
Lead	22.6	mg/kg	1.1	1	06/22/22 09:01	06/23/22 11:51	7439-92-1	
Selenium	ND	mg/kg	1.6	1	06/22/22 09:01	06/23/22 11:51	7782-49-2	
Silver	ND	mg/kg	0.74	1	06/22/22 09:01	06/23/22 11:51	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - Kansas City								
Mercury	0.076	mg/kg	0.050	1	06/22/22 11:20	06/22/22 17:40	7439-97-6	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	22.4	%	0.50	1		06/21/22 15:46		

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ANALYTICAL RESULTS

Project: B2204298.00 S, DUBUQUE ST

Pace Project No.: 60403317

Sample: HA-12 **Lab ID:** 60403317011 **Collected:** 06/17/22 14:40 **Received:** 06/18/22 12:40 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Kansas City								
Arsenic	6.5	mg/kg	0.88	1	06/22/22 09:01	06/23/22 11:53	7440-38-2	
Barium	127	mg/kg	0.44	1	06/22/22 09:01	06/23/22 11:53	7440-39-3	
Cadmium	ND	mg/kg	0.44	1	06/22/22 09:01	06/23/22 11:53	7440-43-9	
Chromium	15.1	mg/kg	0.44	1	06/22/22 09:01	06/23/22 11:53	7440-47-3	
Lead	22.8	mg/kg	0.88	1	06/22/22 09:01	06/23/22 11:53	7439-92-1	
Selenium	ND	mg/kg	1.3	1	06/22/22 09:01	06/23/22 11:53	7782-49-2	
Silver	ND	mg/kg	0.61	1	06/22/22 09:01	06/23/22 11:53	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - Kansas City								
Mercury	0.12	mg/kg	0.058	1	06/22/22 11:20	06/22/22 17:42	7439-97-6	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	16.3	%	0.50	1		06/21/22 15:46		

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ANALYTICAL RESULTS

Project: B2204298.00 S, DUBUQUE ST

Pace Project No.: 60403317

Sample: HA-13 **Lab ID: 60403317012** Collected: 06/17/22 15:05 Received: 06/18/22 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Kansas City								
Arsenic	15.6	mg/kg	1.0	1	06/22/22 09:01	06/23/22 11:55	7440-38-2	
Barium	148	mg/kg	0.51	1	06/22/22 09:01	06/23/22 11:55	7440-39-3	
Cadmium	ND	mg/kg	0.51	1	06/22/22 09:01	06/23/22 11:55	7440-43-9	
Chromium	16.6	mg/kg	0.51	1	06/22/22 09:01	06/23/22 11:55	7440-47-3	
Lead	27.3	mg/kg	1.0	1	06/22/22 09:01	06/23/22 11:55	7439-92-1	
Selenium	ND	mg/kg	1.5	1	06/22/22 09:01	06/23/22 11:55	7782-49-2	
Silver	ND	mg/kg	0.72	1	06/22/22 09:01	06/23/22 11:55	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - Kansas City								
Mercury	0.063	mg/kg	0.050	1	06/22/22 11:20	06/22/22 17:44	7439-97-6	
Percent Moisture								
Analytical Method: ASTM D2974								
Pace Analytical Services - Kansas City								
Percent Moisture	22.4	%	0.50	1		06/21/22 15:46		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: B2204298.00 S, DUBUQUE ST
Pace Project No.: 60403317

QC Batch:	793718	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60403317001, 60403317002, 60403317003, 60403317004, 60403317005, 60403317006, 60403317007, 60403317008, 60403317009, 60403317010, 60403317011, 60403317012

METHOD BLANK:	3162108	Matrix:	Solid
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Associated Lab Samples: 60403317001, 60403317002, 60403317003, 60403317004, 60403317005, 60403317006, 60403317007, 60403317008, 60403317009, 60403317010, 60403317011, 60403317012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.050	06/22/22 17:05	

LABORATORY CONTROL SAMPLE: 3162109						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.5	0.52	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3162110 3162111												
Parameter	Units	60403317008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.082	0.49	0.49	0.88	0.77	162	140	75-125	13	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: B2204298.00 S, DUBUQUE ST

Pace Project No.: 60403317

QC Batch:	793673	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60403317001, 60403317002, 60403317003, 60403317004, 60403317005, 60403317006, 60403317007, 60403317008, 60403317009, 60403317010, 60403317011, 60403317012		

METHOD BLANK: 3161933

Matrix: Solid

Associated Lab Samples: 60403317001, 60403317002, 60403317003, 60403317004, 60403317005, 60403317006, 60403317007, 60403317008, 60403317009, 60403317010, 60403317011, 60403317012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	06/23/22 11:15	
Barium	mg/kg	ND	0.50	06/23/22 11:15	
Cadmium	mg/kg	ND	0.50	06/23/22 11:15	
Chromium	mg/kg	ND	0.50	06/23/22 11:15	
Lead	mg/kg	ND	1.0	06/23/22 11:15	
Selenium	mg/kg	ND	1.5	06/23/22 11:15	
Silver	mg/kg	ND	0.70	06/23/22 11:15	

LABORATORY CONTROL SAMPLE: 3161934

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	100	83.5	84	80-120	
Barium	mg/kg	100	96.4	96	80-120	
Cadmium	mg/kg	100	95.7	96	80-120	
Chromium	mg/kg	100	97.3	97	80-120	
Lead	mg/kg	100	97.0	97	80-120	
Selenium	mg/kg	100	80.8	81	80-120	
Silver	mg/kg	50	44.5	89	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161935 3161936

Parameter	Units	60403317001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	6.7	107	111	89.3	92.1	77	77	75-125	3	20	
Barium	mg/kg	166	107	111	269	256	97	82	75-125	5	20	
Cadmium	mg/kg	ND	107	111	92.9	94.8	87	85	75-125	2	20	
Chromium	mg/kg	17.0	107	111	116	118	93	91	75-125	2	20	
Lead	mg/kg	40.1	107	111	139	135	93	86	75-125	3	20	
Selenium	mg/kg	ND	107	111	81.1	83.3	76	75	75-125	3	20	
Silver	mg/kg	ND	53.2	55.3	45.1	46.5	85	84	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: B2204298.00 S, DUBUQUE ST

Pace Project No.: 60403317

QC Batch:	793545	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60403317001, 60403317002, 60403317003, 60403317004, 60403317005, 60403317006, 60403317007, 60403317008, 60403317009, 60403317010, 60403317011, 60403317012		

METHOD BLANK:	3161409	Matrix:	Solid
Associated Lab Samples:	60403317001, 60403317002, 60403317003, 60403317004, 60403317005, 60403317006, 60403317007, 60403317008, 60403317009, 60403317010, 60403317011, 60403317012		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	06/21/22 15:45	

SAMPLE DUPLICATE: 3161410

Parameter	Units	60403317001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.2	16.2	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: B2204298.00 S, DUBUQUE ST

Pace Project No.: 60403317

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B2204298.00 S, DUBUQUE ST

Pace Project No.: 60403317

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60403317001	HA-2 (0-2)	EPA 3050	793673	EPA 6010	793814
60403317002	HA-3 (0-2)	EPA 3050	793673	EPA 6010	793814
60403317003	HA-4 (0-2)	EPA 3050	793673	EPA 6010	793814
60403317004	HA-5 (0-2)	EPA 3050	793673	EPA 6010	793814
60403317005	HA-6 (0-2)	EPA 3050	793673	EPA 6010	793814
60403317006	HA-7 (0-2)	EPA 3050	793673	EPA 6010	793814
60403317007	HA-8 (0-2)	EPA 3050	793673	EPA 6010	793814
60403317008	HA-9 (0-2)	EPA 3050	793673	EPA 6010	793814
60403317009	HA-10 (0-2)	EPA 3050	793673	EPA 6010	793814
60403317010	HA-11 (0-2)	EPA 3050	793673	EPA 6010	793814
60403317011	HA-12	EPA 3050	793673	EPA 6010	793814
60403317012	HA-13	EPA 3050	793673	EPA 6010	793814
60403317001	HA-2 (0-2)	EPA 7471	793718	EPA 7471	793819
60403317002	HA-3 (0-2)	EPA 7471	793718	EPA 7471	793819
60403317003	HA-4 (0-2)	EPA 7471	793718	EPA 7471	793819
60403317004	HA-5 (0-2)	EPA 7471	793718	EPA 7471	793819
60403317005	HA-6 (0-2)	EPA 7471	793718	EPA 7471	793819
60403317006	HA-7 (0-2)	EPA 7471	793718	EPA 7471	793819
60403317007	HA-8 (0-2)	EPA 7471	793718	EPA 7471	793819
60403317008	HA-9 (0-2)	EPA 7471	793718	EPA 7471	793819
60403317009	HA-10 (0-2)	EPA 7471	793718	EPA 7471	793819
60403317010	HA-11 (0-2)	EPA 7471	793718	EPA 7471	793819
60403317011	HA-12	EPA 7471	793718	EPA 7471	793819
60403317012	HA-13	EPA 7471	793718	EPA 7471	793819
60403317001	HA-2 (0-2)	ASTM D2974	793545		
60403317002	HA-3 (0-2)	ASTM D2974	793545		
60403317003	HA-4 (0-2)	ASTM D2974	793545		
60403317004	HA-5 (0-2)	ASTM D2974	793545		
60403317005	HA-6 (0-2)	ASTM D2974	793545		
60403317006	HA-7 (0-2)	ASTM D2974	793545		
60403317007	HA-8 (0-2)	ASTM D2974	793545		
60403317008	HA-9 (0-2)	ASTM D2974	793545		
60403317009	HA-10 (0-2)	ASTM D2974	793545		
60403317010	HA-11 (0-2)	ASTM D2974	793545		
60403317011	HA-12	ASTM D2974	793545		
60403317012	HA-13	ASTM D2974	793545		

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WO#: 60403317



60403317



DC#_Title: ENV-FRM-LENE-0009_

Revision: 2

Effective Date: 01/12/2022

Issued By: Lenexa

Client Name: Braun IntertecCourier: FedEx ☒ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☐ Other ☐Tracking #: 2744 8297 8732 Pace Shipping Label Used? Yes ☐ No ☐Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☐ No ☐Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Other ☐Thermometer Used: T301 Type of Ice: Wet Blue ☐ None ☐Cooler Temperature (°C): As-read 4.7 Corr. Factor -1.0 Corrected 3.7Date and initials of person
examining contents: Sm 6/26/22

Temperature should be above freezing to 6°C

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	
Short Hold Time analyses (<72hr):	☐ Yes ☒ No ☐ N/A	
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	
Sufficient volume:	☒ Yes ☐ No ☐ N/A	
Correct containers used:	☒ Yes ☐ No ☐ N/A	
Pace containers used:	☒ Yes ☐ No ☐ N/A	
Containers intact:	☒ Yes ☐ No ☐ N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐ Yes ☐ No ☒ N/A	
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A	
Sample labels match COC: Date / time / ID / analyses	☒ Yes ☐ No ☐ N/A	
Samples contain multiple phases? Matrix: <u>SV</u>	☒ Yes ☒ No ☐ N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#:	☐ Yes ☐ No ☒ N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	☐ Yes ☐ No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐ Yes ☐ No	
Trip Blank present:	☐ Yes ☐ No ☒ N/A	
Headspace in VOA vials (>6mm):	☐ Yes ☐ No ☒ N/A	
Samples from USDA Regulated Area: State:	☐ Yes ☒ No ☐ N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐ Yes ☒ No ☐ N/A	

Client Notification/ Resolution:

Copy COC to Client? Y / N

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

