

**MEMORANDUM**700 SW Higgins Ste. 15  
Missoula MT 59803T: 406.549.8270  
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**To:** Sara Sparks  
Remedial Project Manager

**From:** David Tooke PhD.  
Project Coordinator

**Project No:** 350.0065.001

**Subject:** Metal and Common Ion Results for 5-23-18 Water Samples Collected at  
The former Smurfit-Stone / Frenchtown Mill Site

**Date:** June 6, 2018

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Sara,

Please see the brief summary of metals and common ion results below for water samples collected on 5/23/18 during high river flows in the Clark Fork River (CFR) at the former Smurfit-Stone / Frenchtown Mill (Site).

In summary, aluminum, copper, iron and lead were detected in the background samples upriver from the mill at concentrations above relevant water quality standards. A sample of “tea-colored” water was collected from floodwaters adjacent to pond HP-13A. This “tea colored” water was first observed in the CFR after the PRP’s placed additional fill material along the inner berm in this area to minimize “boils” observed in the immediate vicinity. Samples of “tea water” collected adjacent to the Site, and pond water, and groundwater collected on the Site contained concentrations of arsenic above relevant water quality standards and background concentrations. These samples also contained manganese above background concentrations. As with previous risk assessment screening at the site, a constituent of potential concern (COPC) is defined as a contaminant that exceeds a risk-based screening level (i.e.: water quality standard) and significantly exceeds the background concentration. Sample (CFR-2) collected in the CFR immediately downgradient of the ‘tea-water’ sample did not contain any COPCs.

**Sampling and Analysis**

As part of the ongoing work concerning potential impacts to the CFR during high flows, the Potential Responsible Parties (PRPs) collected surface water and groundwater samples as directed by the EPA and in accordance with a work plan approved by EPA on 5/23/18. Two (2) water samples were collected from pond 13A and pond 2 on the Site adjacent to the river. Two (2) background surface water samples were collected in the river upstream (CFR-HB-1) and along the southern part of the Site (CFR-1). A sample of ‘tea-colored’ water (CFR-HP-13A) was collected from floodwaters on the river side of the southern berm of HP-13A. CFR-2 was collected about 200 yards downstream of the ‘tea-water’ location in CFR floodwaters where the tea-water appeared to be mixing with turbid upstream CFR water. Sample locations are shown on **Figure 1** (attached). Results of metals and common ion analysis are provided in the attached **Table 1** and **Table 2** respectively.



## Screening

Metal concentrations were compared to applicable Federal and State water quality standards and background concentrations to identify COPCs. In accordance with previous risk assessment screening done by EPA at this Site, a chemical is identified as a COPC if the maximum detected concentration exceeds an available water quality standard, and Site concentrations for that chemical are significantly higher than background concentrations.

*Water Quality Standards* - Surface water results were compared to Montana DEQ Circular-7 human health and aquatic life standards (MDEQ, 2017). The aquatic life standards for some metals were adjusted to water hardness in the samples (**Table 3**). Groundwater was compared to EPA Maximum Contaminant Levels (MCLs) (EPA, 2018) and the Montana DEQ Circular-7 groundwater standards (MDEQ, 2017).

*Background Samples* - Four wells within the boundary of the Smurfit-Stone/Frenchtown Mill Site (County MW, SMW1, SMW5, SMW6) have been identified as background groundwater locations for shallow groundwater at the Site (EPA 2017). These wells were identified as being upgradient from any potential Site contamination. Up to five groundwater samples have been collected from each of these wells between April 2014 and December 2017 as part of ongoing RI activities (NewFields 2018).

Two background surface water samples were collected on May 23, 2018. These include CFR-HB-1 collected on the east side of the river at Harpers Bridge, and CFR-1 collected on the east side of the river adjacent to the production well field at the southern end of the site near the CFR1 staff gage (**Figure 1**). The highest observed concentrations from the background samples were used as upper threshold values for comparison to downgradient samples.

## Results

The results presented in **Table 1** and **Table 2** show the following:

- The 'tea-water', pond water, and groundwater samples contained arsenic at concentrations higher than relevant water quality standards and background levels.
- Copper was detected above water quality standards in all surface water samples collected, including the background river samples.
- Background (upriver) samples contained aluminum, copper, iron and lead concentrations above relevant water quality standards.
- The surface water sample collected at CFR-2 downgradient to the 'tea-water' sample in the river did not contain any COPCs. This sample was collected adjacent to the CFR berm.
- Concentrations of analytes observed in the groundwater sample (SMW11) are consistent with previous groundwater sample results.
- Aluminum, iron and manganese were detected in the groundwater sample (SMW11) above secondary MCLs and background concentrations.
- The water quality profile of the pond water and groundwater samples (sodium sulfate signature) are similar and distinct from the water quality profile of the CFR water (calcium carbonate signature). The 'tea-water' sample has a calcium carbonate profile similar to the CFR samples but is higher in TDS and has slightly higher sodium and sulfate than the CFR water.



Exceedances of water quality standards are highlighted with a yellow background in **Table**

**1.** Exceedances of background levels are shown with **bold font** and, groundwater concentrations and relevant groundwater standards are shown with blue font in **Table 1.**

A field duplicate and a field blank were collected to help measure the precision and accuracy of the sample results. The field blank consisted of deionized (Millipore) water and preservative respective of analytical methods. Original laboratory results are also attached for your review.

#### References

EPA, 2017. Draft Human Health Risk Assessment for the Smurfit-Stone/Frenchtown Mill Operable Unit 3 Site Located in Missoula County, Montana. December.

EPA, 2018. Regional Screening Levels for Chemical Contaminants at Superfund Sites, May. on-line. <https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables>. Office of Superfund Remediation and Technology Innovation.

MTDEQ, 2017. Water Quality Circulars by Program, DEQ7. <http://deq.mt.gov/wqinfo/circulars.mcp>, Accessed May 2018. Montana Department of Environmental Quality.

NewFields, 2018. December 2017 Groundwater Data Summary Report. Smurfit Stone / Frenchtown Mill Site, Missoula County Montana. April. 2873p.



Attachment A  
Figure 1



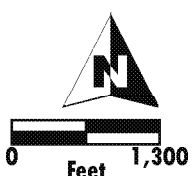
Aerial Photo Source: NAIP 2011 and Newfields 2016 (Within Site Boundary)

\*Floodplain Source: As defined by the Federal Emergency Management Agency (FEMA) 2013 Digital Flood Insurance Rate Map (DFIRM). (NFIP 2013)

**Notes**

- AG - Agricultural Land
- AB - Aeration Stabilization Basin
- CFR - Clark Fork River
- CL - Clarifier
- FP - Floodplain
- HP - Holding or Storage Pond
- IB - Rapid Infiltration Basin
- NPP - North Polishing Pond
- P - Settling Pond
- SB - Spoils Basin
- SPP - South Polishing Pond
- SWB - Solid Waste Basin
- WVR - West of River

May 23, 2018 Sample Locations  
Former Frenchtown Mill Site  
Missoula County, Montana  
FIGURE 1



**NewFields**



# Attachment B

## Tables

**TABLE 1 - Total and Dissolved Metals (ug/L) in Surface Water and Groundwater Samples Collected on 5/23/18**  
**Former Smurfit-Stone / Frenchtown Mill Site**  
**Missoula County, Montana**

Total Metals	Sample Date	Description	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
<b>Sample Results</b>																				
SMW-11	5/23/2018	Groundwater	175 J	0.87	37.5	161	0.11 J	0.028 U	4.3	0.51	0.58 J	1530	0.27	6830	5.6	0.69	0.17 U	0.028 U	22.1	1.6 J
CFR-HB-1	5/23/2018	Background SW	1260	0.3 J	4.6	85.6	0.089 J	0.1	1.2	0.54	15.4	1170	2.4	71.4	1.1	0.17 U	0.17 U	0.028 U	2	23.6
CFR-1	5/23/2018	Background SW	1220	0.26 J	4.6	85.2	0.091 J	0.088	1.1	0.54	15	1180	2.5	72.9	1.1	0.17 U	0.17 U	0.028 U	2	24.1
HP-2 Pond	5/23/2018	Upgradient Pondwater	218 J	1.3	5.4	105	0.079 J	0.3	1.6	1.6	13.8	480	0.63	428	4.3	0.24 J	0.17 U	0.028 U	5.3	22
HP-13A Pond	5/23/2018	Upgradient Pondwater	138 J	1.4	16.2	90.3	0.064 U	0.43	1.5	0.75	19.6	615	1	953	3.4	0.36 J	0.17 U	0.028 U	6.9	43
CFR-HP-13A	5/23/2018	'tea-water'	81.8 J	0.57	21.5	123	0.064 U	0.27	0.41 UJ	0.31 J	24.5	159	0.62	277	0.86	0.17 U	0.19 J	0.028 U	1.3	13.9
CFR-2	5/23/2018	Downgradient to tea-water	747	0.29 J	7.3	81.8	0.064 U	0.086	0.75	0.4 J	13.1	721	1.6	163	0.91	0.17 U	0.17 U	0.028 U	1.9	15.3
<b>Quality Control Samples</b>																				
SW-DUP	5/23/2018	'tea-water'	87.3 J	0.56	22.2	127	0.064 U	0.24	0.41 UJ	0.32 J	25.4	163	0.62	287	0.88	0.17 U	0.2 J	0.028 U	1.3	13.3
Field Blank	5/23/2018	Blank	48.6	0.12 U	0.21 U	0.8	0.064 U	0.028 U	0.41 J	0.15 U	0.22 J	37.5 J	0.072 J	1.7	0.28 J	0.17 U	0.17 U	0.028 U	0.27 U	1.4 J
<b>Water Quality Standards<sup>a</sup> and Background Concentrations</b>																				
		Background Groundwater (Total)	34.6	0.25	5.1	359	0	0.08	4.6	0.5	2.4	50	0.1	2.2	0.8	0.5	0.5	0.1	1.6	5
		EPA MCL		6	10	2000	4	5	100		1300		15			50		2		
		EPA secondary MCL	50								1000	300		50			100			5000
		MDEQ-7 Human Health Standard for Groundwater			10	1000		5	100		1300		15		100	50	100	2		2000
		MDEQ-7 Human Health Standard for Surface Water			10	1000		5	100		1300		15		100	50	100	0.24		7400
		MDEQ-7 Acute Aquatic Life Standard	750		340			1.04			7.86		37.4		279.3	20	1.41			71.3
		MDEQ-7 Chronic Aquatic Life Standard	87		150			0.48			5.53	1000	1.46		31.1	5				71.3

Dissolved Metals	Sample Date	Description	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
<b>Sample Results</b>																				
SMW-11	5/23/2018	Groundwater	152	0.87	36.6	163	0.098 J	0.028 U	4	0.48 J	0.58 J	1440	0.31	7300	4.9	0.6	0.17 U	0.028 U	21.3	2.5 J
CFR-HB-1	5/23/2018	Background SW	61.2	0.23 J	3.1	60.8	0.064 U	0.028 U	0.34 J	0.37 J	4	53.4	0.13	18.9	0.29 J	0.17 U	0.17 U	0.028 U	0.59 J	4.1 J
CFR-1	5/23/2018	Background SW	69.4	0.24 J	2.8	55.8	0.064 U	0.029 J	0.27 J	0.15 U	3.8	54.5	0.13	17.7	0.4 J	0.17 U	0.17 U	0.028 U	0.53 J	4.4 J
HP-2 Pond	5/23/2018	Upgradient Pondwater	76.6	1.2	5.1	100	0.064 U	0.24	1.2	1.9	11.2	266	0.39	360	3.7	0.3 J	0.17 U	0.028 U	4.8	14.6
HP-13A Pond	5/23/2018	Upgradient Pondwater	48.6	1.6	14.4	84.3	0.064 U	0.28	1.1	0.74	14.8	398	0.73	897	2.9	0.38 J	0.17 U	0.028 U	6.5	26
CFR-HP-13A	5/23/2018	'tea-water'	32.1	0.92	21.5	120	0.064 U	0.19	0.5 J	0.43 J	18.8	91.6	0.36	247	0.97	0.17 U	0.17 U	0.028 U	1.4	10
CFR-2	5/23/2018	Downgradient to tea-water	70.9	0.5 J	6.2	67.4	0.064 U	0.048 J	0.25 UJ	0.22 J	6.1	73.5	0.25	118	0.46 J	0.17 U	0.17 U	0.028 U	0.95 J	7.3
<b>Quality Control Samples</b>																				
SW-DUP	5/23/2018	'tea-water'	36.6	0.74	21.8	120	0.064 U	0.2	0.34 J	0.34 J	19.2	95.2	0.38	247	0.85	0.17 U	0.17 U	0.028 U	1.3	9.5
Field Blank	5/23/2018	blank	2.9 J	0.12 U	0.21 U	0.14 U	0.064 U	0.028 U	0.25 J	0.15 U	0.2 U	6.8 U	0.028 U	0.26 J	0.12 U	0.17 U	0.17 U	0.028 U	0.27 U	1.4 J
<b>Background Concentrations</b>																				
		Background Groundwater (Dissolved)	11.3	0.84	5.6	363	0	0.08	1.1	0.5	3.4	50	0.18	68.5	1	0.5	0.5	0.1	1.8	5.6

**Notes:**

CFR - Clark Fork River

J - Concentration is considered estimated.

U - Concentration is below the reporting limit. Reporting limit shown

DUP - duplicate sample (associated natural sample)

ug/L - All units in micrograms per liter (ug/L)

- exceeds the lowest applicable water quality standard

**BOLD** - exceeds background sample concentration

**BLUE** - Groundwater concentrations and standards

<sup>a</sup> Some aquatic-life water quality standards have been adjusted to account for changes in sample hardness. Adjusted values are shown with green font. Calculations are shown in Table 3. Calculations were completed in accordance with MDEQ Circular-7 guidance.

**TABLE 2 - Common Ions in Surface Water and Groundwater Samples Collected on 5/23/18**  
**Former Smurfit-Stone / Frenchtown Mill Site**  
**Missoula County, Montana**

Sample Identification	Sample Date	Chloride (mg/L)	Fluoride (mg/L)	Nitrogen, NO2 plus NO3 (mg/L)	Phosphorus (mg/L)	Sulfate (mg/L)	Alkalinity, Bicarbonate (CaCO3) (mg/L)	Alkalinity, Carbonate (CaCO3) (mg/L)	Total Dissolved Solids (mg/L)	Total Organic Carbon (mg/L)	Specific Conductance (uS/cm)	pH (s.u.)	Calcium (ug/L)	Magnesium (ug/L)	Potassium (ug/L)	Sodium (ug/L)	Calcium, Dissolved (ug/L)	Magnesium, Dissolved (ug/L)	Potassium, Dissolved (ug/L)	Sodium, Dissolved (ug/L)
<b>Sample Results</b>																				
CFR-HB-1	5/23/2018	1.2 J	0.089 J	0.024 J	0.11	5.8 J	56.3	1 U	99	5	124	7.8 J	18100	5550	1470	3200	15800 J	4380	1010	2640 J
CFR-1	5/23/2018	1.2 J	0.086 J	0.053 J	0.097 J	5.5 J	56.5	1 U	100	4.9	160	7 J	17400	5240	1430	2900	14900 J	4120	978	2530 J
HP-2 Pond	5/23/2018	37.3 J	0.22 J	0.016 J	0.24	1220 J	341	1 U	2120	37.5	2970	8.1 J	99300	57700	46800	611000	97100 J	55500	46400	590000 J
SMW-11	5/23/2018	54.3 J	0.22 J	0.011 U	0.77	947 J	846	1 U	2450	41.4	3210	7.5 J	108000	32500	29700	773000	112000 J	33500	29900	773000 J
HP-13A Pond	5/23/2018	78.5 J	0.27 J	0.023 J	0.28	1540 J	545	43.4	2980	50.5	4240	8.2 J	91300	45500	44400	957000	85600 J	41900	41200	885000 J
CFR-HP-13A	5/23/2018	10 J	0.12 J	0.011 U	0.27	45.7 J	172	1 U	296	17.2	419	6.8 J	30900	8800	7490	54900	28600 J	8430	7220	55500 J
CFR-2	5/23/2018	3.8 J	0.096 J	0.038 J	0.1	17 J	79.8	1 U	123	5.7	199	7 J	19000	5640	2050	22500	17500 J	4970	1720	20400 J
<b>Quality Control Samples</b>																				
CFR HP13A (Dup)	5/23/2018	9.8 J	0.12 J	0.019 J	0.3	44.5 J	165	1 U	293	17.7	423	7.6 J	31400 J	9380	7840	57600 J	40000 J	8400	7100	78200 J
Filtered DI Water	5/23/2018	0.37 J	0.015 UJ	0.011 U	0.043 U	0.53 J	1 U	1 U	50 U	0.42 J	1.7	4.6 J	176	75.1	19.8 J	21.7 J	31.3 J	5.5 J	12.5 U	153 J

Notes:

- CFR - Clark Fork River
- J - Concentration is considered estimated.
- U - Concentration is below the reporting limit. Reporting limit shown
- DUP (NM) - duplicate sample (associated natural sample)
- NM - natural sample
- mg/L - milligrams per liter
- ug/L - micrograms per liter
- s.u. - standard units
- uS/cm - micro Siemens per centimeter

**TABLE 3 - MDEQ-7 Aquatic Life Standards Adjusted for Hardness Concentrations  
Former Smurfit-Stone / Frenchtown Mill Site  
Missoula County, Montana**

Sample Results					Freshwater Aquatic Life Standards (ug/L)													
					Acute							Chronic						
Sample	Calcium Dissolved (ug/L)	Magnesium Dissolved (ug/L)	Hardness (mg/L)	Hardness, limits (mg/L) <sup>1</sup>	Cadmium	Copper	Chromium (III)	Lead	Nickel	Silver	Zinc	Cadmium	Copper	Chromium (III)	Lead	Nickel	Silver	Zinc
CFR-HB-1	15800	4380	57.5	57.5	1.11	8.31	1146	40.4	294	1.57	75.0	0.508	5.81	54.8	1.57	32.7	--	75.0
CFR-1	14900	4120	54.2	54.2	1.04	7.86	1091	37.4	279	1.41	71.3	0.485	5.53	52.2	1.46	31.1	--	71.3
HP-2 Pond	97100	55500	471	400	7.38	51.7	5612	476.8	1516	44.0	387.8	2.39	30.5	268.2	18.6	168.5	--	387.8
HP-13A Pond	85600	41900	386	386	7.13	50.0	5454	456.1	1472	41.5	376.5	2.32	29.6	260.7	17.8	163.6	--	376.5
CFR-HP-13A	28600	8430	106	106	2.01	14.8	1893	88.1	493	4.50	126.0	0.829	9.82	90.5	3.43	54.9	--	126.0
CFR-2	17500	4970	64.2	64.2	1.23	9.22	1254	46.4	322	1.89	82.3	0.555	6.39	59.9	1.81	35.8	--	82.3
SW-DUP	40000	8400	134	134	2.54	18.5	2298	119.0	603	6.76	154.0	1.00	12.0	109.8	4.64	67.0	--	154.0
Lowest Adjusted Standard					1.04	7.86	1091	37.4	279	1.41	71.3	0.48	5.53	52.2	1.46	31.1	--	71.3

Notes:

- 1 If hardness is <25 mg/L as CaCO<sub>3</sub>, 25 must be used in calculation
- If hardness is ≥400 mg/L as CaCO<sub>3</sub>, 400 must be used in calculation

Memorandum  
Metal and Common Ion Results for 5-23-18 Water Samples  
Smurfit-Stone / Frenchtown Mill Site  
NewFields Project No. 350.0065.001  
June 6, 2018

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# Attachment C

## Laboratory Report

June 04, 2018

David Tooke  
Newfields  
700 SW Higgins Ave.  
Suite 15  
Missoula, MT 59803

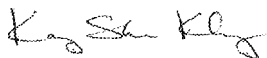
RE: Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

Dear David Tooke:

Enclosed are the analytical results for sample(s) received by the laboratory on May 25, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Kang Khang  
kang.khang@pacelabs.com  
(406)254-7226  
Project Manager

Enclosures

cc: Accounts Payable (Donna McCammon), Newfields  
Companies LLC  
Chris Cerquone, Newfields  
Adam Johnson, NewFields  
Katie Sittler, Newfields  
Sydney Stewart, Newfields



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

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### Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485  
A2LA Certification #: 2926.01  
Alabama Certification #: 40770  
Alaska Contaminated Sites Certification #: 17-009  
Alaska DW Certification #: MN00064  
Arizona Certification #: AZ0014  
Arkansas Certification #: 88-0680  
California Certification #: 2929  
CNMI Saipan Certification #: MP0003  
Colorado Certification #: MN00064  
Connecticut Certification #: PH-0256  
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137  
Florida Certification #: E87605  
Georgia Certification #: 959  
Guam EPA Certification #: MN00064  
Hawaii Certification #: MN00064  
Idaho Certification #: MN00064  
Illinois Certification #: 200011  
Indiana Certification #: C-MN-01  
Iowa Certification #: 368  
Kansas Certification #: E-10167  
Kentucky DW Certification #: 90062  
Kentucky WWV Certification #: 90062  
Louisiana DEQ Certification #: 03086  
Louisiana DW Certification #: MN00064  
Maine Certification #: MN00064  
Maryland Certification #: 322  
Massachusetts Certification #: M-MN064

Michigan Certification #: 9909  
Minnesota Certification #: 027-053-137  
Mississippi Certification #: MN00064  
Montana Certification #: CERT0092  
Nebraska Certification #: NE-OS-18-06  
Nevada Certification #: MN00064  
New Hampshire Certification #: 2081  
New Jersey Certification #: MN002  
New York Certification #: 11647  
North Carolina DW Certification #: 27700  
North Carolina WWV Certification #: 530  
North Dakota Certification #: R-036  
Ohio DW Certification #: 41244  
Ohio VAP Certification #: CL101  
Oklahoma Certification #: 9507  
Oregon NwTPH Certification #: MN300001  
Oregon Secondary Certification #: MN200001  
Pennsylvania Certification #: 68-00563  
Puerto Rico Certification #: MN00064  
South Carolina Certification #: 74003001  
Tennessee Certification #: TN02818  
Texas Certification #: T104704192  
Utah Certification #: MN00064  
Virginia Certification #: 460163  
Washington Certification #: C486  
West Virginia DW Certification #: 9952 C  
West Virginia DEP Certification #: 382  
Wisconsin Certification #: 999407970

### Virginia Minnesota Certification ID's

315 Chestnut Street, Virginia, MN 55792  
California Certification #2973  
Montana Certificate #CERT0103  
California Certification #2973  
Alaska Certification UST-107  
Alaska Certification UST-107  
Alaska Certification #MN01084  
Arizona Department of Health Certification #AZ0785

Minnesota Dept of Health Certification #: 027-137-445  
North Dakota Certification: # R-203  
Wisconsin DNR Certification #: 998027470  
WA Department of Ecology Lab ID# C1007  
Nevada DNR #MN010842018-1  
Oklahoma Department of Environmental Quality  
California Certification #2973

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: 350.0065.001 Ph15 Frenchtown

Pace Project No.: 10432836

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10432836001	CFR-1	Water	05/23/18 19:10	05/25/18 10:00
10432836002	CFR-2	Water	05/23/18 17:40	05/25/18 10:00
10432836003	SMW-11	Water	05/23/18 15:40	05/25/18 10:00
10432836004	HP-13A Pond	Water	05/23/18 16:15	05/25/18 10:00
10432836005	HP-2 Pond	Water	05/23/18 18:40	05/25/18 10:00
10432836006	CFR-HB-1	Water	05/23/18 19:50	05/25/18 10:00
10432836007	SW-DUP	Water	05/23/18 00:00	05/25/18 10:00
10432836008	ERB	Water	05/23/18 20:55	05/25/18 10:00
10432831001	CFR-HP-13A	Water	05/23/18 16:40	05/25/18 10:00

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10432836001	CFR-1	EPA 6020A	TT3	22	PASI-M
		EPA 6020A	TT3	22	PASI-M
		SM 2320B	AR3	2	PASI-M
		SM 2540C	NAS	1	PASI-M
		SM 4500-H+B	AR3	1	PASI-M
		SM 2510	AR3	1	PASI-M
		EPA 300.0	KEO	3	PASI-M
		EPA 353.2	JFP	1	PASI-M
		SM 5310C	JK1	1	PASI-V
		SM 4500-P E	KEO	1	PASI-M
10432836002	CFR-2	EPA 6020A	TT3	22	PASI-M
		EPA 6020A	TT3	22	PASI-M
		SM 2320B	AR3	2	PASI-M
		SM 2540C	NAS	1	PASI-M
		SM 4500-H+B	AR3	1	PASI-M
		SM 2510	AR3	1	PASI-M
		EPA 300.0	KEO	3	PASI-M
		EPA 353.2	JFP	1	PASI-M
		SM 5310C	JK1	1	PASI-V
		SM 4500-P E	KEO	1	PASI-M
10432836003	SMW-11	EPA 6020A	TT3	22	PASI-M
		EPA 6020A	TT3	22	PASI-M
		SM 2320B	AR3	2	PASI-M
		SM 2540C	NAS	1	PASI-M
		SM 4500-H+B	AR3	1	PASI-M
		SM 2510	AR3	1	PASI-M
		EPA 300.0	KEO	3	PASI-M
		EPA 353.2	JFP	1	PASI-M
		SM 5310C	JK1	1	PASI-V
		SM 4500-P E	KEO	1	PASI-M
10432836004	HP-13A Pond	EPA 6020A	TT3	22	PASI-M
		EPA 6020A	TT3	22	PASI-M
		SM 2320B	AR3	2	PASI-M
		SM 2540C	NAS	1	PASI-M
		SM 4500-H+B	AR3	1	PASI-M
		SM 2510	AR3	1	PASI-M
EPA 300.0	KEO	3	PASI-M		

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10432836005	HP-2 Pond	EPA 353.2	JFP	1	PASI-M
		SM 5310C	JK1	1	PASI-V
		SM 4500-P E	KEO	1	PASI-M
		EPA 6020A	TT3	22	PASI-M
		EPA 6020A	TT3	22	PASI-M
		SM 2320B	AR3	2	PASI-M
		SM 2540C	NAS	1	PASI-M
		SM 4500-H+B	AR3	1	PASI-M
		SM 2510	AR3	1	PASI-M
		EPA 300.0	KEO	3	PASI-M
10432836006	CFR-HB-1	EPA 353.2	JFP	1	PASI-M
		SM 5310C	JK1	1	PASI-V
		SM 4500-P E	KEO	1	PASI-M
		EPA 6020A	TT3	22	PASI-M
		EPA 6020A	TT3	22	PASI-M
		SM 2320B	AR3	2	PASI-M
		SM 2540C	NAS	1	PASI-M
		SM 4500-H+B	AR3	1	PASI-M
		SM 2510	AR3	1	PASI-M
		EPA 300.0	KEO	3	PASI-M
10432836007	SW-DUP	EPA 353.2	JFP	1	PASI-M
		SM 5310C	JK1	1	PASI-V
		SM 4500-P E	KEO	1	PASI-M
		EPA 6020A	TT3	22	PASI-M
		EPA 6020A	TT3	22	PASI-M
		SM 2320B	AR3	2	PASI-M
		SM 2540C	NAS	1	PASI-M
		SM 4500-H+B	AR3	1	PASI-M
		SM 2510	AR3	1	PASI-M
		EPA 300.0	KEO	3	PASI-M
10432836008	ERB	EPA 353.2	JFP	1	PASI-M
		SM 5310C	JK1	1	PASI-V
		SM 4500-P E	KEO	1	PASI-M
		EPA 6020A	TT3	22	PASI-M
		EPA 6020A	TT3	22	PASI-M
		SM 2320B	AR3	2	PASI-M
SM 2540C	NAS	1	PASI-M		

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-H+B	AR3	1	PASI-M
		SM 2510	AR3	1	PASI-M
		EPA 300.0	KEO	3	PASI-M
		EPA 353.2	JFP	1	PASI-M
		SM 5310C	JK1	1	PASI-V
		SM 4500-P E	KEO	1	PASI-M
<b>10432831001</b>	<b>CFR-HP-13A</b>	EPA 6020A	TT3	22	PASI-M
		EPA 6020A	TT3	22	PASI-M
		SM 2320B	AR3	2	PASI-M
		SM 2540C	NAS	1	PASI-M
		SM 4500-H+B	AR3	1	PASI-M
		SM 2510	AR3	1	PASI-M
		EPA 300.0	KEO	3	PASI-M
		EPA 353.2	JFP	1	PASI-M
		SM 5310C	JK1	1	PASI-V
		SM 4500-P E	KEO	1	PASI-M

**REPORT OF LABORATORY ANALYSIS**

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## PROJECT NARRATIVE

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

---

**Method:** EPA 6020A  
**Description:** 6020A MET ICPMS  
**Client:** Newfields  
**Date:** June 04, 2018

**General Information:**

9 samples were analyzed for EPA 6020A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3020 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

---

**Method:** EPA 6020A  
**Description:** 6020A MET ICPMS, Dissolved  
**Client:** Newfields  
**Date:** June 04, 2018

### General Information:

9 samples were analyzed for EPA 6020A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3020 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 541156

B: Analyte was detected in the associated method blank.

- BLANK for HBN 541156 [MPRP/824 (Lab ID: 2943635)
- Manganese, Dissolved

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 541156

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10432836001

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

- MS (Lab ID: 2943637)
  - Calcium, Dissolved
- MSD (Lab ID: 2943638)
  - Calcium, Dissolved

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

---

**Method:** SM 2320B  
**Description:** 2320B Alkalinity  
**Client:** Newfields  
**Date:** June 04, 2018

**General Information:**

9 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

---

**Method:** SM 2540C  
**Description:** 2540C Total Dissolved Solids  
**Client:** Newfields  
**Date:** June 04, 2018

**General Information:**

9 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

---

**Method:** SM 4500-H+B  
**Description:** 4500H+ pH, Electrometric  
**Client:** Newfields  
**Date:** June 04, 2018

### General Information:

9 samples were analyzed for SM 4500-H+B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.

- CFR-1 (Lab ID: 10432836001)
- CFR-2 (Lab ID: 10432836002)
- CFR-HB-1 (Lab ID: 10432836006)
- CFR-HP-13A (Lab ID: 10432831001)
- ERB (Lab ID: 10432836008)
- HP-13A Pond (Lab ID: 10432836004)
- HP-2 Pond (Lab ID: 10432836005)
- SMW-11 (Lab ID: 10432836003)
- SW-DUP (Lab ID: 10432836007)

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

---

**Method:** SM 2510  
**Description:** SM2510 Specific Conductance  
**Client:** Newfields  
**Date:** June 04, 2018

**General Information:**

9 samples were analyzed for SM 2510. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

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## PROJECT NARRATIVE

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

---

**Method:** EPA 300.0  
**Description:** 300.0 IC Anions  
**Client:** Newfields  
**Date:** June 04, 2018

### General Information:

9 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 541303

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10431928006,10432489006

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

- MS (Lab ID: 2944285)
  - Fluoride
- MS (Lab ID: 2944309)
  - Chloride
  - Sulfate
- MSD (Lab ID: 2944286)
  - Fluoride
- MSD (Lab ID: 2944310)
  - Chloride
  - Sulfate

### Additional Comments:

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## PROJECT NARRATIVE

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

---

**Method:** EPA 353.2  
**Description:** 353.2 Nitrate + Nitrite  
**Client:** Newfields  
**Date:** June 04, 2018

**General Information:**

9 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

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## PROJECT NARRATIVE

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

---

**Method:** SM 5310C  
**Description:** 5310C TOC  
**Client:** Newfields  
**Date:** June 04, 2018

**General Information:**

9 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

---

**Method:** SM 4500-P E  
**Description:** SM4500P-E, Total Phosphorus  
**Client:** Newfields  
**Date:** June 04, 2018

### General Information:

9 samples were analyzed for SM 4500-P E. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with SM 4500-P B with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 541342

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10432366001,10432717001

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 2944466)
  - Phosphorus
- MSD (Lab ID: 2944467)
  - Phosphorus

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

Sample: CFR-1	Lab ID: 10432836001	Collected: 05/23/18 19:10	Received: 05/25/18 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020A MET ICPMS</b>								
Analytical Method: EPA 6020A Preparation Method: EPA 3020								
Aluminum	1220	ug/L	10.0	1	05/30/18 08:53	06/01/18 10:12	7429-90-5	
Antimony	0.26J	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:12	7440-36-0	
Arsenic	4.6	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:12	7440-38-2	
Barium	85.2	ug/L	0.30	1	05/30/18 08:53	06/01/18 10:12	7440-39-3	
Beryllium	0.091J	ug/L	0.20	1	05/30/18 08:53	06/01/18 10:12	7440-41-7	
Cadmium	0.088	ug/L	0.080	1	05/30/18 08:53	06/01/18 10:12	7440-43-9	
Calcium	17400	ug/L	40.0	1	05/30/18 08:53	06/01/18 10:12	7440-70-2	
Chromium	1.1	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:12	7440-47-3	
Cobalt	0.54	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:12	7440-48-4	
Copper	15.0	ug/L	1.0	1	05/30/18 08:53	06/01/18 10:12	7440-50-8	
Iron	1180	ug/L	50.0	1	05/30/18 08:53	06/01/18 10:12	7439-89-6	
Lead	2.5	ug/L	0.10	1	05/30/18 08:53	06/01/18 10:12	7439-92-1	
Magnesium	5240	ug/L	10.0	1	05/30/18 08:53	06/01/18 10:12	7439-95-4	
Manganese	72.9	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:12	7439-96-5	
Nickel	1.1	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:12	7440-02-0	
Potassium	1430	ug/L	50.0	1	05/30/18 08:53	06/01/18 10:12	7440-09-7	
Selenium	ND	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:12	7782-49-2	
Silver	ND	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:12	7440-22-4	
Sodium	2900	ug/L	50.0	1	05/30/18 08:53	06/01/18 10:12	7440-23-5	
Thallium	ND	ug/L	0.10	1	05/30/18 08:53	06/01/18 10:12	7440-28-0	
Vanadium	2.0	ug/L	1.0	1	05/30/18 08:53	06/01/18 10:12	7440-62-2	
Zinc	24.1	ug/L	5.0	1	05/30/18 08:53	06/01/18 10:12	7440-66-6	
<b>6020A MET ICPMS, Dissolved</b>								
Analytical Method: EPA 6020A Preparation Method: EPA 3020								
Aluminum, Dissolved	69.4	ug/L	10.0	1	05/30/18 09:28	06/01/18 20:45	7429-90-5	
Antimony, Dissolved	0.24J	ug/L	0.50	1	05/30/18 09:28	06/01/18 20:45	7440-36-0	
Arsenic, Dissolved	2.8	ug/L	0.50	1	05/30/18 09:28	06/01/18 20:45	7440-38-2	
Barium, Dissolved	55.8	ug/L	0.30	1	05/30/18 09:28	06/01/18 20:45	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	05/30/18 09:28	06/01/18 20:45	7440-41-7	
Cadmium, Dissolved	0.029J	ug/L	0.080	1	05/30/18 09:28	06/01/18 20:45	7440-43-9	
Calcium, Dissolved	14900	ug/L	40.0	1	05/30/18 09:28	06/01/18 20:45	7440-70-2	M1
Chromium, Dissolved	0.27J	ug/L	0.50	1	05/30/18 09:28	06/01/18 20:45	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	05/30/18 09:28	06/01/18 20:45	7440-48-4	
Copper, Dissolved	3.8	ug/L	1.0	1	05/30/18 09:28	06/01/18 20:45	7440-50-8	
Iron, Dissolved	54.5	ug/L	50.0	1	05/30/18 09:28	06/01/18 20:45	7439-89-6	
Lead, Dissolved	0.13	ug/L	0.10	1	05/30/18 09:28	06/01/18 20:45	7439-92-1	
Magnesium, Dissolved	4120	ug/L	10.0	1	05/30/18 09:28	06/01/18 20:45	7439-95-4	
Manganese, Dissolved	17.7	ug/L	0.50	1	05/30/18 09:28	06/01/18 20:45	7439-96-5	
Nickel, Dissolved	0.40J	ug/L	0.50	1	05/30/18 09:28	06/01/18 20:45	7440-02-0	
Potassium, Dissolved	978	ug/L	50.0	1	05/30/18 09:28	06/01/18 20:45	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	05/30/18 09:28	06/01/18 20:45	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	05/30/18 09:28	06/01/18 20:45	7440-22-4	
Sodium, Dissolved	2530	ug/L	50.0	1	05/30/18 09:28	06/01/18 20:45	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	05/30/18 09:28	06/01/18 20:45	7440-28-0	
Vanadium, Dissolved	0.53J	ug/L	1.0	1	05/30/18 09:28	06/01/18 20:45	7440-62-2	
Zinc, Dissolved	4.4J	ug/L	5.0	1	05/30/18 09:28	06/01/18 20:45	7440-66-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

Sample: CFR-1	Lab ID: 10432836001	Collected: 05/23/18 19:10	Received: 05/25/18 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2320B Alkalinity</b>	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	<b>56.5</b>	mg/L	5.0	1		05/29/18 16:24		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1		05/29/18 16:24		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>100</b>	mg/L	10.0	1		05/30/18 20:26		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	<b>7.0</b>	Std. Units	0.10	1		05/29/18 17:51		H6
<b>SM2510 Specific Conductance</b>	Analytical Method: SM 2510							
Specific Conductance	<b>160</b>	umhos/cm	1.0	1		05/29/18 16:44		
<b>300.0 IC Anions</b>	Analytical Method: EPA 300.0							
Chloride	<b>1.2</b>	mg/L	1.2	1		05/30/18 04:04	16887-00-6	
Fluoride	<b>0.086</b>	mg/L	0.050	1		05/30/18 04:04	16984-48-8	
Sulfate	<b>5.5</b>	mg/L	1.2	1		05/30/18 04:04	14808-79-8	
<b>353.2 Nitrate + Nitrite</b>	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	<b>0.053J</b>	mg/L	0.10	1		05/31/18 09:35		
<b>5310C TOC</b>	Analytical Method: SM 5310C							
Total Organic Carbon	<b>4.9</b>	mg/L	1.0	1		05/29/18 14:08	7440-44-0	
<b>SM4500P-E, Total Phosphorus</b>	Analytical Method: SM 4500-P E Preparation Method: SM 4500-P B							
Phosphorus	<b>0.097J</b>	mg/L	0.10	1	05/30/18 09:39	05/30/18 12:53	7723-14-0	

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### ANALYTICAL RESULTS

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

Sample: CFR-2	Lab ID: 10432836002	Collected: 05/23/18 17:40	Received: 05/25/18 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020A MET ICPMS</b>								
Analytical Method: EPA 6020A Preparation Method: EPA 3020								
Aluminum	747	ug/L	10.0	1	05/30/18 08:53	06/01/18 10:09	7429-90-5	
Antimony	0.29J	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:09	7440-36-0	
Arsenic	7.3	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:09	7440-38-2	
Barium	81.8	ug/L	0.30	1	05/30/18 08:53	06/01/18 10:09	7440-39-3	
Beryllium	ND	ug/L	0.20	1	05/30/18 08:53	06/01/18 10:09	7440-41-7	
Cadmium	0.086	ug/L	0.080	1	05/30/18 08:53	06/01/18 10:09	7440-43-9	
Calcium	19000	ug/L	40.0	1	05/30/18 08:53	06/01/18 10:09	7440-70-2	
Chromium	0.75	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:09	7440-47-3	
Cobalt	0.40J	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:09	7440-48-4	
Copper	13.1	ug/L	1.0	1	05/30/18 08:53	06/01/18 10:09	7440-50-8	
Iron	721	ug/L	50.0	1	05/30/18 08:53	06/01/18 10:09	7439-89-6	
Lead	1.6	ug/L	0.10	1	05/30/18 08:53	06/01/18 10:09	7439-92-1	
Magnesium	5640	ug/L	10.0	1	05/30/18 08:53	06/01/18 10:09	7439-95-4	
Manganese	163	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:09	7439-96-5	
Nickel	0.91	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:09	7440-02-0	
Potassium	2050	ug/L	50.0	1	05/30/18 08:53	06/01/18 10:09	7440-09-7	
Selenium	ND	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:09	7782-49-2	
Silver	ND	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:09	7440-22-4	
Sodium	22500	ug/L	250	5	05/30/18 08:53	06/01/18 10:33	7440-23-5	
Thallium	ND	ug/L	0.10	1	05/30/18 08:53	06/01/18 10:09	7440-28-0	
Vanadium	1.9	ug/L	1.0	1	05/30/18 08:53	06/01/18 10:09	7440-62-2	
Zinc	15.3	ug/L	5.0	1	05/30/18 08:53	06/01/18 10:09	7440-66-6	
<b>6020A MET ICPMS, Dissolved</b>								
Analytical Method: EPA 6020A Preparation Method: EPA 3020								
Aluminum, Dissolved	70.9	ug/L	10.0	1	05/30/18 09:28	06/04/18 08:34	7429-90-5	
Antimony, Dissolved	0.50J	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:34	7440-36-0	
Arsenic, Dissolved	6.2	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:34	7440-38-2	
Barium, Dissolved	67.4	ug/L	0.30	1	05/30/18 09:28	06/04/18 08:34	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	05/30/18 09:28	06/01/18 21:27	7440-41-7	
Cadmium, Dissolved	0.048J	ug/L	0.080	1	05/30/18 09:28	06/04/18 08:34	7440-43-9	
Calcium, Dissolved	17500	ug/L	40.0	1	05/30/18 09:28	06/04/18 08:34	7440-70-2	
Chromium, Dissolved	0.24J	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:34	7440-47-3	
Cobalt, Dissolved	0.22J	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:34	7440-48-4	
Copper, Dissolved	6.1	ug/L	1.0	1	05/30/18 09:28	06/04/18 08:34	7440-50-8	
Iron, Dissolved	73.5	ug/L	50.0	1	05/30/18 09:28	06/04/18 08:34	7439-89-6	
Lead, Dissolved	0.25	ug/L	0.10	1	05/30/18 09:28	06/04/18 08:34	7439-92-1	
Magnesium, Dissolved	4970	ug/L	10.0	1	05/30/18 09:28	06/04/18 08:34	7439-95-4	
Manganese, Dissolved	118	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:34	7439-96-5	
Nickel, Dissolved	0.46J	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:34	7440-02-0	
Potassium, Dissolved	1720	ug/L	50.0	1	05/30/18 09:28	06/04/18 08:34	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	05/30/18 09:28	06/01/18 21:27	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:34	7440-22-4	
Sodium, Dissolved	20400	ug/L	50.0	1	05/30/18 09:28	06/04/18 08:34	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	05/30/18 09:28	06/04/18 08:34	7440-28-0	
Vanadium, Dissolved	0.95J	ug/L	1.0	1	05/30/18 09:28	06/04/18 08:34	7440-62-2	
Zinc, Dissolved	7.3	ug/L	5.0	1	05/30/18 09:28	06/04/18 08:34	7440-66-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

Sample: CFR-2	Lab ID: 10432836002	Collected: 05/23/18 17:40	Received: 05/25/18 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2320B Alkalinity</b>	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	79.8	mg/L	5.0	1		05/29/18 16:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1		05/29/18 16:28		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	123	mg/L	10.0	1		05/30/18 20:26		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	7.0	Std. Units	0.10	1		05/29/18 17:52		H6
<b>SM2510 Specific Conductance</b>	Analytical Method: SM 2510							
Specific Conductance	199	umhos/cm	1.0	1		05/29/18 16:46		
<b>300.0 IC Anions</b>	Analytical Method: EPA 300.0							
Chloride	3.8	mg/L	1.2	1		05/30/18 04:19	16887-00-6	
Fluoride	0.096	mg/L	0.050	1		05/30/18 04:19	16984-48-8	
Sulfate	17.0	mg/L	1.2	1		05/30/18 04:19	14808-79-8	
<b>353.2 Nitrate + Nitrite</b>	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	0.038J	mg/L	0.10	1		05/31/18 09:36		
<b>5310C TOC</b>	Analytical Method: SM 5310C							
Total Organic Carbon	5.7	mg/L	1.0	1		05/29/18 14:21	7440-44-0	
<b>SM4500P-E, Total Phosphorus</b>	Analytical Method: SM 4500-P E Preparation Method: SM 4500-P B							
Phosphorus	0.10	mg/L	0.10	1	05/30/18 09:39	05/30/18 12:54	7723-14-0	

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### ANALYTICAL RESULTS

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

Sample: SMW-11	Lab ID: 10432836003	Collected: 05/23/18 15:40	Received: 05/25/18 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020A MET ICPMS</b>								
Analytical Method: EPA 6020A Preparation Method: EPA 3020								
Aluminum	175	ug/L	10.0	1	05/30/18 08:53	06/01/18 10:36	7429-90-5	
Antimony	0.87	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:36	7440-36-0	
Arsenic	37.5	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:36	7440-38-2	
Barium	161	ug/L	0.30	1	05/30/18 08:53	06/01/18 10:36	7440-39-3	
Beryllium	0.11J	ug/L	0.20	1	05/30/18 08:53	06/01/18 10:36	7440-41-7	
Cadmium	ND	ug/L	0.080	1	05/30/18 08:53	06/01/18 10:36	7440-43-9	
Calcium	108000	ug/L	2000	50	05/30/18 08:53	06/01/18 10:43	7440-70-2	
Chromium	4.3	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:36	7440-47-3	
Cobalt	0.51	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:36	7440-48-4	
Copper	0.58J	ug/L	1.0	1	05/30/18 08:53	06/01/18 10:36	7440-50-8	
Iron	1530	ug/L	50.0	1	05/30/18 08:53	06/01/18 10:36	7439-89-6	
Lead	0.27	ug/L	0.10	1	05/30/18 08:53	06/01/18 10:36	7439-92-1	
Magnesium	32500	ug/L	500	50	05/30/18 08:53	06/01/18 10:43	7439-95-4	
Manganese	6830	ug/L	25.0	50	05/30/18 08:53	06/01/18 10:43	7439-96-5	
Nickel	5.6	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:36	7440-02-0	
Potassium	29700	ug/L	2500	50	05/30/18 08:53	06/01/18 10:43	7440-09-7	
Selenium	0.69	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:36	7782-49-2	
Silver	ND	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:36	7440-22-4	
Sodium	773000	ug/L	2500	50	05/30/18 08:53	06/01/18 10:43	7440-23-5	
Thallium	ND	ug/L	0.10	1	05/30/18 08:53	06/01/18 10:36	7440-28-0	
Vanadium	22.1	ug/L	1.0	1	05/30/18 08:53	06/01/18 10:36	7440-62-2	
Zinc	1.6J	ug/L	5.0	1	05/30/18 08:53	06/01/18 10:36	7440-66-6	
<b>6020A MET ICPMS, Dissolved</b>								
Analytical Method: EPA 6020A Preparation Method: EPA 3020								
Aluminum, Dissolved	152	ug/L	10.0	1	05/30/18 09:28	06/04/18 08:21	7429-90-5	
Antimony, Dissolved	0.87	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:21	7440-36-0	
Arsenic, Dissolved	36.6	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:21	7440-38-2	
Barium, Dissolved	163	ug/L	0.30	1	05/30/18 09:28	06/04/18 08:21	7440-39-3	
Beryllium, Dissolved	0.098J	ug/L	0.20	1	05/30/18 09:28	06/01/18 21:10	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	05/30/18 09:28	06/04/18 08:21	7440-43-9	
Calcium, Dissolved	112000	ug/L	2000	50	05/30/18 09:28	06/04/18 08:23	7440-70-2	
Chromium, Dissolved	4.0	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:21	7440-47-3	
Cobalt, Dissolved	0.48J	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:21	7440-48-4	
Copper, Dissolved	0.58J	ug/L	1.0	1	05/30/18 09:28	06/04/18 08:21	7440-50-8	
Iron, Dissolved	1440	ug/L	50.0	1	05/30/18 09:28	06/04/18 08:21	7439-89-6	
Lead, Dissolved	0.31	ug/L	0.10	1	05/30/18 09:28	06/04/18 08:21	7439-92-1	
Magnesium, Dissolved	33500	ug/L	500	50	05/30/18 09:28	06/04/18 08:23	7439-95-4	
Manganese, Dissolved	7300	ug/L	25.0	50	05/30/18 09:28	06/04/18 08:23	7439-96-5	
Nickel, Dissolved	4.9	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:21	7440-02-0	
Potassium, Dissolved	29900	ug/L	2500	50	05/30/18 09:28	06/04/18 08:23	7440-09-7	
Selenium, Dissolved	0.60	ug/L	0.50	1	05/30/18 09:28	06/01/18 21:10	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:21	7440-22-4	
Sodium, Dissolved	773000	ug/L	2500	50	05/30/18 09:28	06/04/18 08:23	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	05/30/18 09:28	06/04/18 08:21	7440-28-0	
Vanadium, Dissolved	21.3	ug/L	1.0	1	05/30/18 09:28	06/04/18 08:21	7440-62-2	
Zinc, Dissolved	2.5J	ug/L	5.0	1	05/30/18 09:28	06/04/18 08:21	7440-66-6	

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### ANALYTICAL RESULTS

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

Sample: SMW-11	Lab ID: 10432836003	Collected: 05/23/18 15:40	Received: 05/25/18 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2320B Alkalinity</b>	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	<b>846</b>	mg/L	5.0	1		05/29/18 16:32		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1		05/29/18 16:32		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>2450</b>	mg/L	100	1		05/30/18 20:26		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	<b>7.5</b>	Std. Units	0.10	1		05/29/18 17:54		H6
<b>SM2510 Specific Conductance</b>	Analytical Method: SM 2510							
Specific Conductance	<b>3210</b>	umhos/cm	1.0	1		05/29/18 16:48		
<b>300.0 IC Anions</b>	Analytical Method: EPA 300.0							
Chloride	<b>54.3</b>	mg/L	1.2	1		05/30/18 04:34	16887-00-6	
Fluoride	<b>0.22</b>	mg/L	0.050	1		05/30/18 04:34	16984-48-8	
Sulfate	<b>947</b>	mg/L	24.0	20		05/30/18 10:11	14808-79-8	
<b>353.2 Nitrate + Nitrite</b>	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		05/31/18 09:37		FS
<b>5310C TOC</b>	Analytical Method: SM 5310C							
Total Organic Carbon	<b>41.4</b>	mg/L	1.0	1		05/29/18 15:01	7440-44-0	
<b>SM4500P-E, Total Phosphorus</b>	Analytical Method: SM 4500-P E Preparation Method: SM 4500-P B							
Phosphorus	<b>0.77</b>	mg/L	0.10	1	05/30/18 09:39	05/30/18 12:54	7723-14-0	

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### ANALYTICAL RESULTS

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

Sample: HP-13A Pond	Lab ID: 10432836004	Collected: 05/23/18 16:15	Received: 05/25/18 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020A MET ICPMS</b>								
Analytical Method: EPA 6020A Preparation Method: EPA 3020								
Aluminum	138	ug/L	10.0	1	05/30/18 08:53	06/01/18 10:38	7429-90-5	
Antimony	1.4	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:38	7440-36-0	
Arsenic	16.2	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:38	7440-38-2	
Barium	90.3	ug/L	0.30	1	05/30/18 08:53	06/01/18 10:38	7440-39-3	
Beryllium	ND	ug/L	0.20	1	05/30/18 08:53	06/01/18 10:38	7440-41-7	
Cadmium	0.43	ug/L	0.080	1	05/30/18 08:53	06/01/18 10:38	7440-43-9	
Calcium	91300	ug/L	2000	50	05/30/18 08:53	06/01/18 10:48	7440-70-2	
Chromium	1.5	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:38	7440-47-3	
Cobalt	0.75	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:38	7440-48-4	
Copper	19.6	ug/L	1.0	1	05/30/18 08:53	06/01/18 10:38	7440-50-8	
Iron	615	ug/L	50.0	1	05/30/18 08:53	06/01/18 10:38	7439-89-6	
Lead	1.0	ug/L	0.10	1	05/30/18 08:53	06/01/18 10:38	7439-92-1	
Magnesium	45500	ug/L	500	50	05/30/18 08:53	06/01/18 10:48	7439-95-4	
Manganese	953	ug/L	25.0	50	05/30/18 08:53	06/01/18 10:48	7439-96-5	
Nickel	3.4	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:38	7440-02-0	
Potassium	44400	ug/L	2500	50	05/30/18 08:53	06/01/18 10:48	7440-09-7	
Selenium	0.36J	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:38	7782-49-2	
Silver	ND	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:38	7440-22-4	
Sodium	957000	ug/L	2500	50	05/30/18 08:53	06/01/18 10:48	7440-23-5	
Thallium	ND	ug/L	0.10	1	05/30/18 08:53	06/01/18 10:38	7440-28-0	
Vanadium	6.9	ug/L	1.0	1	05/30/18 08:53	06/01/18 10:38	7440-62-2	
Zinc	43.0	ug/L	5.0	1	05/30/18 08:53	06/01/18 10:38	7440-66-6	
<b>6020A MET ICPMS, Dissolved</b>								
Analytical Method: EPA 6020A Preparation Method: EPA 3020								
Aluminum, Dissolved	48.6	ug/L	10.0	1	05/30/18 09:28	06/04/18 08:25	7429-90-5	
Antimony, Dissolved	1.6	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:25	7440-36-0	
Arsenic, Dissolved	14.4	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:25	7440-38-2	
Barium, Dissolved	84.3	ug/L	0.30	1	05/30/18 09:28	06/04/18 08:25	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	05/30/18 09:28	06/01/18 21:15	7440-41-7	
Cadmium, Dissolved	0.28	ug/L	0.080	1	05/30/18 09:28	06/04/18 08:25	7440-43-9	
Calcium, Dissolved	85600	ug/L	2000	50	05/30/18 09:28	06/04/18 08:27	7440-70-2	
Chromium, Dissolved	1.1	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:25	7440-47-3	
Cobalt, Dissolved	0.74	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:25	7440-48-4	
Copper, Dissolved	14.8	ug/L	1.0	1	05/30/18 09:28	06/04/18 08:25	7440-50-8	
Iron, Dissolved	398	ug/L	50.0	1	05/30/18 09:28	06/04/18 08:25	7439-89-6	
Lead, Dissolved	0.73	ug/L	0.10	1	05/30/18 09:28	06/04/18 08:25	7439-92-1	
Magnesium, Dissolved	41900	ug/L	500	50	05/30/18 09:28	06/04/18 08:27	7439-95-4	
Manganese, Dissolved	897	ug/L	25.0	50	05/30/18 09:28	06/04/18 08:27	7439-96-5	
Nickel, Dissolved	2.9	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:25	7440-02-0	
Potassium, Dissolved	41200	ug/L	2500	50	05/30/18 09:28	06/04/18 08:27	7440-09-7	
Selenium, Dissolved	0.38J	ug/L	0.50	1	05/30/18 09:28	06/01/18 21:15	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:25	7440-22-4	
Sodium, Dissolved	885000	ug/L	2500	50	05/30/18 09:28	06/04/18 08:27	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	05/30/18 09:28	06/04/18 08:25	7440-28-0	
Vanadium, Dissolved	6.5	ug/L	1.0	1	05/30/18 09:28	06/04/18 08:25	7440-62-2	
Zinc, Dissolved	26.0	ug/L	5.0	1	05/30/18 09:28	06/04/18 08:25	7440-66-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

Sample: HP-13A Pond		Lab ID: 10432836004	Collected: 05/23/18 16:15	Received: 05/25/18 10:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity,Bicarbonate (CaCO3)	<b>545</b>	mg/L	5.0	1		05/30/18 13:13		
Alkalinity,Carbonate (CaCO3)	<b>43.4</b>	mg/L	5.0	1		05/30/18 13:13		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C						
Total Dissolved Solids	<b>2980</b>	mg/L	200	1		05/30/18 20:26		
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	<b>8.2</b>	Std. Units	0.10	1		05/29/18 17:55		H6
<b>SM2510 Specific Conductance</b>		Analytical Method: SM 2510						
Specific Conductance	<b>4240</b>	umhos/cm	1.0	1		05/29/18 16:49		
<b>300.0 IC Anions</b>		Analytical Method: EPA 300.0						
Chloride	<b>78.5</b>	mg/L	1.2	1		05/30/18 05:19	16887-00-6	
Fluoride	<b>0.27</b>	mg/L	0.050	1		05/30/18 05:19	16984-48-8	
Sulfate	<b>1540</b>	mg/L	24.0	20		05/30/18 10:28	14808-79-8	
<b>353.2 Nitrate + Nitrite</b>		Analytical Method: EPA 353.2						
Nitrogen, NO2 plus NO3	<b>0.023J</b>	mg/L	0.10	1		05/31/18 09:38		FS
<b>5310C TOC</b>		Analytical Method: SM 5310C						
Total Organic Carbon	<b>50.5</b>	mg/L	2.0	2		05/30/18 08:00	7440-44-0	
<b>SM4500P-E, Total Phosphorus</b>		Analytical Method: SM 4500-P E Preparation Method: SM 4500-P B						
Phosphorus	<b>0.28</b>	mg/L	0.10	1	05/30/18 09:39	05/30/18 12:55	7723-14-0	

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### ANALYTICAL RESULTS

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

Sample: HP-2 Pond								Lab ID: 10432836005	Collected: 05/23/18 18:40	Received: 05/25/18 10:00	Matrix: Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual			
<b>6020A MET ICPMS</b>											
Analytical Method: EPA 6020A Preparation Method: EPA 3020											
Aluminum	218	ug/L	10.0	1	05/30/18 08:53	06/01/18 10:41	7429-90-5				
Antimony	1.3	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:41	7440-36-0				
Arsenic	5.4	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:41	7440-38-2				
Barium	105	ug/L	0.30	1	05/30/18 08:53	06/01/18 10:41	7440-39-3				
Beryllium	0.079J	ug/L	0.20	1	05/30/18 08:53	06/01/18 10:41	7440-41-7				
Cadmium	0.30	ug/L	0.080	1	05/30/18 08:53	06/01/18 10:41	7440-43-9				
Calcium	99300	ug/L	2000	50	05/30/18 08:53	06/01/18 10:51	7440-70-2				
Chromium	1.6	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:41	7440-47-3				
Cobalt	1.6	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:41	7440-48-4				
Copper	13.8	ug/L	1.0	1	05/30/18 08:53	06/01/18 10:41	7440-50-8				
Iron	480	ug/L	50.0	1	05/30/18 08:53	06/01/18 10:41	7439-89-6				
Lead	0.63	ug/L	0.10	1	05/30/18 08:53	06/01/18 10:41	7439-92-1				
Magnesium	57700	ug/L	500	50	05/30/18 08:53	06/01/18 10:51	7439-95-4				
Manganese	428	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:41	7439-96-5				
Nickel	4.3	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:41	7440-02-0				
Potassium	46800	ug/L	2500	50	05/30/18 08:53	06/01/18 10:51	7440-09-7				
Selenium	0.24J	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:41	7782-49-2				
Silver	ND	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:41	7440-22-4				
Sodium	611000	ug/L	2500	50	05/30/18 08:53	06/01/18 10:51	7440-23-5				
Thallium	ND	ug/L	0.10	1	05/30/18 08:53	06/01/18 10:41	7440-28-0				
Vanadium	5.3	ug/L	1.0	1	05/30/18 08:53	06/01/18 10:41	7440-62-2				
Zinc	22.0	ug/L	5.0	1	05/30/18 08:53	06/01/18 10:41	7440-66-6				
<b>6020A MET ICPMS, Dissolved</b>											
Analytical Method: EPA 6020A Preparation Method: EPA 3020											
Aluminum, Dissolved	76.6	ug/L	10.0	1	05/30/18 09:28	06/04/18 08:30	7429-90-5				
Antimony, Dissolved	1.2	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:30	7440-36-0				
Arsenic, Dissolved	5.1	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:30	7440-38-2				
Barium, Dissolved	100	ug/L	0.30	1	05/30/18 09:28	06/04/18 08:30	7440-39-3				
Beryllium, Dissolved	ND	ug/L	0.20	1	05/30/18 09:28	06/01/18 21:21	7440-41-7				
Cadmium, Dissolved	0.24	ug/L	0.080	1	05/30/18 09:28	06/04/18 08:30	7440-43-9				
Calcium, Dissolved	97100	ug/L	2000	50	05/30/18 09:28	06/04/18 08:32	7440-70-2				
Chromium, Dissolved	1.2	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:30	7440-47-3				
Cobalt, Dissolved	1.9	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:30	7440-48-4				
Copper, Dissolved	11.2	ug/L	1.0	1	05/30/18 09:28	06/04/18 08:30	7440-50-8				
Iron, Dissolved	266	ug/L	50.0	1	05/30/18 09:28	06/04/18 08:30	7439-89-6				
Lead, Dissolved	0.39	ug/L	0.10	1	05/30/18 09:28	06/04/18 08:30	7439-92-1				
Magnesium, Dissolved	55500	ug/L	500	50	05/30/18 09:28	06/04/18 08:32	7439-95-4				
Manganese, Dissolved	360	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:30	7439-96-5				
Nickel, Dissolved	3.7	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:30	7440-02-0				
Potassium, Dissolved	46400	ug/L	2500	50	05/30/18 09:28	06/04/18 08:32	7440-09-7				
Selenium, Dissolved	0.30J	ug/L	0.50	1	05/30/18 09:28	06/01/18 21:21	7782-49-2				
Silver, Dissolved	ND	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:30	7440-22-4				
Sodium, Dissolved	590000	ug/L	2500	50	05/30/18 09:28	06/04/18 08:32	7440-23-5				
Thallium, Dissolved	ND	ug/L	0.10	1	05/30/18 09:28	06/04/18 08:30	7440-28-0				
Vanadium, Dissolved	4.8	ug/L	1.0	1	05/30/18 09:28	06/04/18 08:30	7440-62-2				
Zinc, Dissolved	14.6	ug/L	5.0	1	05/30/18 09:28	06/04/18 08:30	7440-66-6				

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### ANALYTICAL RESULTS

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

Sample: HP-2 Pond	Lab ID: 10432836005	Collected: 05/23/18 18:40	Received: 05/25/18 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2320B Alkalinity</b>	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	<b>341</b>	mg/L	5.0	1		05/30/18 13:46		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1		05/30/18 13:46		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>2120</b>	mg/L	100	1		05/30/18 20:26		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	<b>8.1</b>	Std. Units	0.10	1		05/29/18 17:57		H6
<b>SM2510 Specific Conductance</b>	Analytical Method: SM 2510							
Specific Conductance	<b>2970</b>	umhos/cm	1.0	1		05/29/18 16:50		
<b>300.0 IC Anions</b>	Analytical Method: EPA 300.0							
Chloride	<b>37.3</b>	mg/L	1.2	1		05/30/18 05:34	16887-00-6	
Fluoride	<b>0.22</b>	mg/L	0.050	1		05/30/18 05:34	16984-48-8	
Sulfate	<b>1220</b>	mg/L	24.0	20		05/30/18 10:45	14808-79-8	
<b>353.2 Nitrate + Nitrite</b>	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	<b>0.016J</b>	mg/L	0.10	1		05/31/18 09:39		
<b>5310C TOC</b>	Analytical Method: SM 5310C							
Total Organic Carbon	<b>37.5</b>	mg/L	1.0	1		05/29/18 15:54	7440-44-0	
<b>SM4500P-E, Total Phosphorus</b>	Analytical Method: SM 4500-P E Preparation Method: SM 4500-P B							
Phosphorus	<b>0.24</b>	mg/L	0.10	1	05/30/18 09:39	05/30/18 12:56	7723-14-0	

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### ANALYTICAL RESULTS

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

Sample: CFR-HB-1	Lab ID: 10432836006	Collected: 05/23/18 19:50	Received: 05/25/18 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020A MET ICPMS</b>								
Analytical Method: EPA 6020A Preparation Method: EPA 3020								
Aluminum	1260	ug/L	10.0	1	05/30/18 08:53	06/01/18 10:46	7429-90-5	
Antimony	0.30J	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:46	7440-36-0	
Arsenic	4.6	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:46	7440-38-2	
Barium	85.6	ug/L	0.30	1	05/30/18 08:53	06/01/18 10:46	7440-39-3	
Beryllium	0.089J	ug/L	0.20	1	05/30/18 08:53	06/01/18 10:46	7440-41-7	
Cadmium	0.10	ug/L	0.080	1	05/30/18 08:53	06/01/18 10:46	7440-43-9	
Calcium	18100	ug/L	40.0	1	05/30/18 08:53	06/01/18 10:46	7440-70-2	
Chromium	1.2	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:46	7440-47-3	
Cobalt	0.54	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:46	7440-48-4	
Copper	15.4	ug/L	1.0	1	05/30/18 08:53	06/01/18 10:46	7440-50-8	
Iron	1170	ug/L	50.0	1	05/30/18 08:53	06/01/18 10:46	7439-89-6	
Lead	2.4	ug/L	0.10	1	05/30/18 08:53	06/01/18 10:46	7439-92-1	
Magnesium	5550	ug/L	10.0	1	05/30/18 08:53	06/01/18 10:46	7439-95-4	
Manganese	71.4	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:46	7439-96-5	
Nickel	1.1	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:46	7440-02-0	
Potassium	1470	ug/L	50.0	1	05/30/18 08:53	06/01/18 10:46	7440-09-7	
Selenium	ND	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:46	7782-49-2	
Silver	ND	ug/L	0.50	1	05/30/18 08:53	06/01/18 10:46	7440-22-4	
Sodium	3200	ug/L	50.0	1	05/30/18 08:53	06/01/18 10:46	7440-23-5	
Thallium	ND	ug/L	0.10	1	05/30/18 08:53	06/01/18 10:46	7440-28-0	
Vanadium	2.0	ug/L	1.0	1	05/30/18 08:53	06/01/18 10:46	7440-62-2	
Zinc	23.6	ug/L	5.0	1	05/30/18 08:53	06/01/18 10:46	7440-66-6	
<b>6020A MET ICPMS, Dissolved</b>								
Analytical Method: EPA 6020A Preparation Method: EPA 3020								
Aluminum, Dissolved	61.2	ug/L	10.0	1	05/30/18 09:28	06/04/18 08:48	7429-90-5	
Antimony, Dissolved	0.23J	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:48	7440-36-0	
Arsenic, Dissolved	3.1	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:48	7440-38-2	
Barium, Dissolved	60.8	ug/L	0.30	1	05/30/18 09:28	06/04/18 08:48	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	05/30/18 09:28	06/01/18 22:09	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	05/30/18 09:28	06/04/18 08:48	7440-43-9	
Calcium, Dissolved	15800	ug/L	40.0	1	05/30/18 09:28	06/04/18 08:48	7440-70-2	
Chromium, Dissolved	0.34J	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:48	7440-47-3	
Cobalt, Dissolved	0.37J	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:48	7440-48-4	
Copper, Dissolved	4.0	ug/L	1.0	1	05/30/18 09:28	06/04/18 08:48	7440-50-8	
Iron, Dissolved	53.4	ug/L	50.0	1	05/30/18 09:28	06/04/18 08:48	7439-89-6	
Lead, Dissolved	0.13	ug/L	0.10	1	05/30/18 09:28	06/04/18 08:48	7439-92-1	
Magnesium, Dissolved	4380	ug/L	10.0	1	05/30/18 09:28	06/04/18 08:48	7439-95-4	
Manganese, Dissolved	18.9	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:48	7439-96-5	
Nickel, Dissolved	0.29J	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:48	7440-02-0	
Potassium, Dissolved	1010	ug/L	50.0	1	05/30/18 09:28	06/04/18 08:48	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	05/30/18 09:28	06/01/18 22:09	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:48	7440-22-4	
Sodium, Dissolved	2640	ug/L	50.0	1	05/30/18 09:28	06/04/18 08:48	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	05/30/18 09:28	06/04/18 08:48	7440-28-0	
Vanadium, Dissolved	0.59J	ug/L	1.0	1	05/30/18 09:28	06/04/18 08:48	7440-62-2	
Zinc, Dissolved	4.1J	ug/L	5.0	1	05/30/18 09:28	06/04/18 08:48	7440-66-6	

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### ANALYTICAL RESULTS

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

Sample: CFR-HB-1	Lab ID: 10432836006	Collected: 05/23/18 19:50	Received: 05/25/18 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2320B Alkalinity</b>	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	56.3	mg/L	5.0	1		05/30/18 13:50		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1		05/30/18 13:50		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	99.0	mg/L	10.0	1		05/30/18 20:26		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	7.8	Std. Units	0.10	1		05/29/18 17:59		H6
<b>SM2510 Specific Conductance</b>	Analytical Method: SM 2510							
Specific Conductance	124	umhos/cm	1.0	1		05/29/18 16:51		
<b>300.0 IC Anions</b>	Analytical Method: EPA 300.0							
Chloride	1.2	mg/L	1.2	1		05/30/18 05:49	16887-00-6	
Fluoride	0.089	mg/L	0.050	1		05/30/18 05:49	16984-48-8	
Sulfate	5.8	mg/L	1.2	1		05/30/18 05:49	14808-79-8	
<b>353.2 Nitrate + Nitrite</b>	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	0.024J	mg/L	0.10	1		05/31/18 09:43		
<b>5310C TOC</b>	Analytical Method: SM 5310C							
Total Organic Carbon	5.0	mg/L	1.0	1		05/29/18 16:07	7440-44-0	
<b>SM4500P-E, Total Phosphorus</b>	Analytical Method: SM 4500-P E Preparation Method: SM 4500-P B							
Phosphorus	0.11	mg/L	0.10	1	05/30/18 09:39	05/30/18 12:57	7723-14-0	

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### ANALYTICAL RESULTS

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

Sample: SW-DUP	Lab ID: 10432836007	Collected: 05/23/18 00:00	Received: 05/25/18 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020A MET ICPMS</b>								
Analytical Method: EPA 6020A Preparation Method: EPA 3020								
Aluminum	87.3	ug/L	10.0	1	05/30/18 08:53	06/01/18 11:05	7429-90-5	
Antimony	0.56	ug/L	0.50	1	05/30/18 08:53	06/01/18 11:05	7440-36-0	
Arsenic	22.2	ug/L	0.50	1	05/30/18 08:53	06/01/18 11:05	7440-38-2	
Barium	127	ug/L	0.30	1	05/30/18 08:53	06/01/18 11:05	7440-39-3	
Beryllium	ND	ug/L	0.20	1	05/30/18 08:53	06/01/18 11:05	7440-41-7	
Cadmium	0.24	ug/L	0.080	1	05/30/18 08:53	06/01/18 11:05	7440-43-9	
Calcium	31400	ug/L	200	5	05/30/18 08:53	06/01/18 11:09	7440-70-2	
Chromium	0.37J	ug/L	0.50	1	05/30/18 08:53	06/01/18 11:05	7440-47-3	
Cobalt	0.32J	ug/L	0.50	1	05/30/18 08:53	06/01/18 11:05	7440-48-4	
Copper	25.4	ug/L	1.0	1	05/30/18 08:53	06/01/18 11:05	7440-50-8	
Iron	163	ug/L	50.0	1	05/30/18 08:53	06/01/18 11:05	7439-89-6	
Lead	0.62	ug/L	0.10	1	05/30/18 08:53	06/01/18 11:05	7439-92-1	
Magnesium	9380	ug/L	10.0	1	05/30/18 08:53	06/01/18 11:05	7439-95-4	
Manganese	287	ug/L	0.50	1	05/30/18 08:53	06/01/18 11:05	7439-96-5	
Nickel	0.88	ug/L	0.50	1	05/30/18 08:53	06/01/18 11:05	7440-02-0	
Potassium	7840	ug/L	50.0	1	05/30/18 08:53	06/01/18 11:05	7440-09-7	
Selenium	ND	ug/L	0.50	1	05/30/18 08:53	06/01/18 11:05	7782-49-2	
Silver	0.20J	ug/L	0.50	1	05/30/18 08:53	06/01/18 11:05	7440-22-4	
Sodium	57600	ug/L	250	5	05/30/18 08:53	06/01/18 11:09	7440-23-5	
Thallium	ND	ug/L	0.10	1	05/30/18 08:53	06/01/18 11:05	7440-28-0	
Vanadium	1.3	ug/L	1.0	1	05/30/18 08:53	06/01/18 11:05	7440-62-2	
Zinc	13.3	ug/L	5.0	1	05/30/18 08:53	06/01/18 11:05	7440-66-6	
<b>6020A MET ICPMS, Dissolved</b>								
Analytical Method: EPA 6020A Preparation Method: EPA 3020								
Aluminum, Dissolved	36.6	ug/L	10.0	1	05/30/18 09:28	06/04/18 08:38	7429-90-5	
Antimony, Dissolved	0.74	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:38	7440-36-0	
Arsenic, Dissolved	21.8	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:38	7440-38-2	
Barium, Dissolved	120	ug/L	0.30	1	05/30/18 09:28	06/04/18 08:38	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	05/30/18 09:28	06/01/18 21:32	7440-41-7	
Cadmium, Dissolved	0.20	ug/L	0.080	1	05/30/18 09:28	06/04/18 08:38	7440-43-9	
Calcium, Dissolved	40000	ug/L	200	5	05/30/18 09:28	06/04/18 08:40	7440-70-2	
Chromium, Dissolved	0.34J	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:38	7440-47-3	
Cobalt, Dissolved	0.34J	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:38	7440-48-4	
Copper, Dissolved	19.2	ug/L	1.0	1	05/30/18 09:28	06/04/18 08:38	7440-50-8	
Iron, Dissolved	95.2	ug/L	50.0	1	05/30/18 09:28	06/04/18 08:38	7439-89-6	
Lead, Dissolved	0.38	ug/L	0.10	1	05/30/18 09:28	06/04/18 08:38	7439-92-1	
Magnesium, Dissolved	8400	ug/L	10.0	1	05/30/18 09:28	06/04/18 08:38	7439-95-4	
Manganese, Dissolved	247	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:38	7439-96-5	
Nickel, Dissolved	0.85	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:38	7440-02-0	
Potassium, Dissolved	7100	ug/L	50.0	1	05/30/18 09:28	06/04/18 08:38	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	05/30/18 09:28	06/01/18 21:32	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:38	7440-22-4	
Sodium, Dissolved	78200	ug/L	250	5	05/30/18 09:28	06/04/18 08:40	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	05/30/18 09:28	06/04/18 08:38	7440-28-0	
Vanadium, Dissolved	1.3	ug/L	1.0	1	05/30/18 09:28	06/04/18 08:38	7440-62-2	
Zinc, Dissolved	9.5	ug/L	5.0	1	05/30/18 09:28	06/04/18 08:38	7440-66-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

Sample: SW-DUP		Lab ID: 10432836007	Collected: 05/23/18 00:00	Received: 05/25/18 10:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B						
Alkalinity,Bicarbonate (CaCO3)	165	mg/L	5.0	1		05/30/18 13:57		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1		05/30/18 13:57		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C						
Total Dissolved Solids	293	mg/L	10.0	1		05/30/18 20:26		
<b>4500H+ pH, Electrometric</b>		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	7.6	Std. Units	0.10	1		05/29/18 17:59		H6
<b>SM2510 Specific Conductance</b>		Analytical Method: SM 2510						
Specific Conductance	423	umhos/cm	1.0	1		05/29/18 16:52		
<b>300.0 IC Anions</b>		Analytical Method: EPA 300.0						
Chloride	9.8	mg/L	1.2	1		05/30/18 06:05	16887-00-6	
Fluoride	0.12	mg/L	0.050	1		05/30/18 06:05	16984-48-8	
Sulfate	44.5	mg/L	1.2	1		05/30/18 06:05	14808-79-8	
<b>353.2 Nitrate + Nitrite</b>		Analytical Method: EPA 353.2						
Nitrogen, NO2 plus NO3	0.019J	mg/L	0.10	1		05/31/18 09:44		
<b>5310C TOC</b>		Analytical Method: SM 5310C						
Total Organic Carbon	17.7	mg/L	1.0	1		05/29/18 16:20	7440-44-0	
<b>SM4500P-E, Total Phosphorus</b>		Analytical Method: SM 4500-P E Preparation Method: SM 4500-P B						
Phosphorus	0.30	mg/L	0.10	1	05/30/18 09:39	05/30/18 12:58	7723-14-0	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

Sample: ERB	Lab ID: 10432836008	Collected: 05/23/18 20:55	Received: 05/25/18 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020A MET ICPMS</b>								
Analytical Method: EPA 6020A Preparation Method: EPA 3020								
Aluminum	48.6	ug/L	10.0	1	05/30/18 08:53	06/01/18 11:12	7429-90-5	
Antimony	ND	ug/L	0.50	1	05/30/18 08:53	06/01/18 11:12	7440-36-0	
Arsenic	ND	ug/L	0.50	1	05/30/18 08:53	06/01/18 11:12	7440-38-2	
Barium	0.80	ug/L	0.30	1	05/30/18 08:53	06/01/18 11:12	7440-39-3	
Beryllium	ND	ug/L	0.20	1	05/30/18 08:53	06/01/18 11:12	7440-41-7	
Cadmium	ND	ug/L	0.080	1	05/30/18 08:53	06/01/18 11:12	7440-43-9	
Calcium	176	ug/L	40.0	1	05/30/18 08:53	06/01/18 11:12	7440-70-2	
Chromium	0.41J	ug/L	0.50	1	05/30/18 08:53	06/01/18 11:12	7440-47-3	
Cobalt	ND	ug/L	0.50	1	05/30/18 08:53	06/01/18 11:12	7440-48-4	
Copper	0.22J	ug/L	1.0	1	05/30/18 08:53	06/01/18 11:12	7440-50-8	
Iron	37.5J	ug/L	50.0	1	05/30/18 08:53	06/01/18 11:12	7439-89-6	
Lead	0.072J	ug/L	0.10	1	05/30/18 08:53	06/01/18 11:12	7439-92-1	
Magnesium	75.1	ug/L	10.0	1	05/30/18 08:53	06/01/18 11:12	7439-95-4	
Manganese	1.7	ug/L	0.50	1	05/30/18 08:53	06/01/18 11:12	7439-96-5	
Nickel	0.28J	ug/L	0.50	1	05/30/18 08:53	06/01/18 11:12	7440-02-0	
Potassium	19.8J	ug/L	50.0	1	05/30/18 08:53	06/01/18 11:12	7440-09-7	
Selenium	ND	ug/L	0.50	1	05/30/18 08:53	06/01/18 11:12	7782-49-2	
Silver	ND	ug/L	0.50	1	05/30/18 08:53	06/01/18 11:12	7440-22-4	
Sodium	21.7J	ug/L	50.0	1	05/30/18 08:53	06/01/18 11:12	7440-23-5	
Thallium	ND	ug/L	0.10	1	05/30/18 08:53	06/01/18 11:12	7440-28-0	
Vanadium	ND	ug/L	1.0	1	05/30/18 08:53	06/01/18 11:12	7440-62-2	
Zinc	1.4J	ug/L	5.0	1	05/30/18 08:53	06/01/18 11:12	7440-66-6	
<b>6020A MET ICPMS, Dissolved</b>								
Analytical Method: EPA 6020A Preparation Method: EPA 3020								
Aluminum, Dissolved	2.9J	ug/L	10.0	1	05/30/18 09:28	06/04/18 08:50	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:50	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:50	7440-38-2	
Barium, Dissolved	ND	ug/L	0.30	1	05/30/18 09:28	06/04/18 08:50	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	05/30/18 09:28	06/01/18 22:06	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	05/30/18 09:28	06/04/18 08:50	7440-43-9	
Calcium, Dissolved	31.3J	ug/L	40.0	1	05/30/18 09:28	06/04/18 08:50	7440-70-2	
Chromium, Dissolved	0.25J	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:50	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:50	7440-48-4	
Copper, Dissolved	ND	ug/L	1.0	1	05/30/18 09:28	06/04/18 08:50	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	05/30/18 09:28	06/04/18 08:50	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	05/30/18 09:28	06/04/18 08:50	7439-92-1	
Magnesium, Dissolved	5.5J	ug/L	10.0	1	05/30/18 09:28	06/04/18 08:50	7439-95-4	B
Manganese, Dissolved	0.26J	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:50	7439-96-5	B
Nickel, Dissolved	ND	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:50	7440-02-0	
Potassium, Dissolved	ND	ug/L	50.0	1	05/30/18 09:28	06/04/18 08:50	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	05/30/18 09:28	06/01/18 22:06	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	05/30/18 09:28	06/04/18 08:50	7440-22-4	
Sodium, Dissolved	153	ug/L	50.0	1	05/30/18 09:28	06/04/18 08:50	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	05/30/18 09:28	06/04/18 08:50	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	05/30/18 09:28	06/04/18 08:50	7440-62-2	
Zinc, Dissolved	1.4J	ug/L	5.0	1	05/30/18 09:28	06/04/18 08:50	7440-66-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

Sample: ERB	Lab ID: 10432836008	Collected: 05/23/18 20:55	Received: 05/25/18 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2320B Alkalinity</b>	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1		05/30/18 14:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1		05/30/18 14:02		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	ND	mg/L	100	1		05/30/18 20:26		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	4.6	Std. Units	0.10	1		05/29/18 18:06		H6
<b>SM2510 Specific Conductance</b>	Analytical Method: SM 2510							
Specific Conductance	1.7	umhos/cm	1.0	1		05/29/18 16:53		
<b>300.0 IC Anions</b>	Analytical Method: EPA 300.0							
Chloride	0.37J	mg/L	1.2	1		05/30/18 06:20	16887-00-6	
Fluoride	ND	mg/L	0.050	1		05/30/18 06:20	16984-48-8	
Sulfate	0.53J	mg/L	1.2	1		05/30/18 06:20	14808-79-8	
<b>353.2 Nitrate + Nitrite</b>	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		05/31/18 09:45		
<b>5310C TOC</b>	Analytical Method: SM 5310C							
Total Organic Carbon	0.42J	mg/L	1.0	1		05/29/18 16:32	7440-44-0	
<b>SM4500P-E, Total Phosphorus</b>	Analytical Method: SM 4500-P E Preparation Method: SM 4500-P B							
Phosphorus	ND	mg/L	0.10	1	05/30/18 09:39	05/30/18 12:59	7723-14-0	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

Sample: CFR-HP-13A	Lab ID: 10432831001	Collected: 05/23/18 16:40	Received: 05/25/18 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020A MET ICPMS</b>								
Analytical Method: EPA 6020A Preparation Method: EPA 3020								
Aluminum	81.8	ug/L	10.0	1	05/30/18 08:53	06/01/18 09:40	7429-90-5	
Antimony	0.57	ug/L	0.50	1	05/30/18 08:53	06/01/18 09:40	7440-36-0	
Arsenic	21.5	ug/L	0.50	1	05/30/18 08:53	06/01/18 09:40	7440-38-2	
Barium	123	ug/L	0.30	1	05/30/18 08:53	06/01/18 09:40	7440-39-3	
Beryllium	ND	ug/L	0.20	1	05/30/18 08:53	06/01/18 09:40	7440-41-7	
Cadmium	0.27	ug/L	0.080	1	05/30/18 08:53	06/01/18 09:40	7440-43-9	
Calcium	30900	ug/L	200	5	05/30/18 08:53	06/01/18 09:44	7440-70-2	
Chromium	0.38J	ug/L	0.50	1	05/30/18 08:53	06/01/18 09:40	7440-47-3	
Cobalt	0.31J	ug/L	0.50	1	05/30/18 08:53	06/01/18 09:40	7440-48-4	
Copper	24.5	ug/L	1.0	1	05/30/18 08:53	06/01/18 09:40	7440-50-8	
Iron	159	ug/L	50.0	1	05/30/18 08:53	06/01/18 09:40	7439-89-6	
Lead	0.62	ug/L	0.10	1	05/30/18 08:53	06/01/18 09:40	7439-92-1	
Magnesium	8800	ug/L	10.0	1	05/30/18 08:53	06/01/18 09:40	7439-95-4	
Manganese	277	ug/L	0.50	1	05/30/18 08:53	06/01/18 09:40	7439-96-5	
Nickel	0.86	ug/L	0.50	1	05/30/18 08:53	06/01/18 09:40	7440-02-0	
Potassium	7490	ug/L	50.0	1	05/30/18 08:53	06/01/18 09:40	7440-09-7	
Selenium	ND	ug/L	0.50	1	05/30/18 08:53	06/01/18 09:40	7782-49-2	
Silver	0.19J	ug/L	0.50	1	05/30/18 08:53	06/01/18 09:40	7440-22-4	
Sodium	54900	ug/L	250	5	05/30/18 08:53	06/01/18 09:44	7440-23-5	
Thallium	ND	ug/L	0.10	1	05/30/18 08:53	06/01/18 09:40	7440-28-0	
Vanadium	1.3	ug/L	1.0	1	05/30/18 08:53	06/01/18 09:40	7440-62-2	
Zinc	13.9	ug/L	5.0	1	05/30/18 08:53	06/01/18 09:40	7440-66-6	
<b>6020A MET ICPMS, Dissolved</b>								
Analytical Method: EPA 6020A Preparation Method: EPA 3020								
Aluminum, Dissolved	32.1	ug/L	10.0	1	05/30/18 09:28	06/01/18 20:42	7429-90-5	
Antimony, Dissolved	0.92	ug/L	0.50	1	05/30/18 09:28	06/01/18 20:42	7440-36-0	
Arsenic, Dissolved	21.5	ug/L	0.50	1	05/30/18 09:28	06/01/18 20:42	7440-38-2	
Barium, Dissolved	120	ug/L	0.30	1	05/30/18 09:28	06/01/18 20:42	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	05/30/18 09:28	06/01/18 20:42	7440-41-7	
Cadmium, Dissolved	0.19	ug/L	0.080	1	05/30/18 09:28	06/01/18 20:42	7440-43-9	
Calcium, Dissolved	28600	ug/L	200	5	05/30/18 09:28	06/01/18 20:59	7440-70-2	
Chromium, Dissolved	0.50J	ug/L	0.50	1	05/30/18 09:28	06/01/18 20:42	7440-47-3	
Cobalt, Dissolved	0.43J	ug/L	0.50	1	05/30/18 09:28	06/01/18 20:42	7440-48-4	
Copper, Dissolved	18.8	ug/L	1.0	1	05/30/18 09:28	06/01/18 20:42	7440-50-8	
Iron, Dissolved	91.6	ug/L	50.0	1	05/30/18 09:28	06/01/18 20:42	7439-89-6	
Lead, Dissolved	0.36	ug/L	0.10	1	05/30/18 09:28	06/01/18 20:42	7439-92-1	
Magnesium, Dissolved	8430	ug/L	10.0	1	05/30/18 09:28	06/01/18 20:42	7439-95-4	
Manganese, Dissolved	247	ug/L	0.50	1	05/30/18 09:28	06/01/18 20:42	7439-96-5	
Nickel, Dissolved	0.97	ug/L	0.50	1	05/30/18 09:28	06/01/18 20:42	7440-02-0	
Potassium, Dissolved	7220	ug/L	50.0	1	05/30/18 09:28	06/01/18 20:42	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	05/30/18 09:28	06/01/18 20:42	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	05/30/18 09:28	06/01/18 20:42	7440-22-4	
Sodium, Dissolved	55500	ug/L	250	5	05/30/18 09:28	06/01/18 20:59	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	05/30/18 09:28	06/01/18 20:42	7440-28-0	
Vanadium, Dissolved	1.4	ug/L	1.0	1	05/30/18 09:28	06/01/18 20:42	7440-62-2	
Zinc, Dissolved	10	ug/L	5.0	1	05/30/18 09:28	06/01/18 20:42	7440-66-6	

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### ANALYTICAL RESULTS

Project: 350.0065.001 Ph15 Frenchtown  
 Pace Project No.: 10432836

Sample: CFR-HP-13A	Lab ID: 10432831001	Collected: 05/23/18 16:40	Received: 05/25/18 10:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>2320B Alkalinity</b>	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	172	mg/L	5.0	1		05/29/18 16:19		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1		05/29/18 16:19		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	296	mg/L	10.0	1		05/30/18 20:26		
<b>4500H+ pH, Electrometric</b>	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	6.8	Std. Units	0.10	1		05/29/18 17:50		H6
<b>SM2510 Specific Conductance</b>	Analytical Method: SM 2510							
Specific Conductance	419	umhos/cm	1.0	1		05/29/18 16:37		
<b>300.0 IC Anions</b>	Analytical Method: EPA 300.0							
Chloride	10.0	mg/L	1.2	1		05/30/18 03:49	16887-00-6	
Fluoride	0.12	mg/L	0.050	1		05/30/18 03:49	16984-48-8	
Sulfate	45.7	mg/L	1.2	1		05/30/18 03:49	14808-79-8	
<b>353.2 Nitrate + Nitrite</b>	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		05/31/18 09:31		
<b>5310C TOC</b>	Analytical Method: SM 5310C							
Total Organic Carbon	17.2	mg/L	1.0	1		05/29/18 13:28	7440-44-0	
<b>SM4500P-E, Total Phosphorus</b>	Analytical Method: SM 4500-P E Preparation Method: SM 4500-P B							
Phosphorus	0.27	mg/L	0.10	1	05/30/18 09:39	05/30/18 12:53	7723-14-0	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

QC Batch: 541158 Analysis Method: EPA 6020A  
QC Batch Method: EPA 3020 Analysis Description: 6020A Water UPD4  
Associated Lab Samples: 10432831001, 10432836001, 10432836002, 10432836003, 10432836004, 10432836005, 10432836006, 10432836007, 10432836008

METHOD BLANK: 2943643 Matrix: Water  
Associated Lab Samples: 10432831001, 10432836001, 10432836002, 10432836003, 10432836004, 10432836005, 10432836006, 10432836007, 10432836008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	3.4J	10.0	06/01/18 09:22	
Antimony	ug/L	ND	0.50	06/01/18 09:22	
Arsenic	ug/L	ND	0.50	06/01/18 09:22	
Barium	ug/L	ND	0.30	06/01/18 09:22	
Beryllium	ug/L	ND	0.20	06/01/18 09:22	
Cadmium	ug/L	ND	0.080	06/01/18 09:22	
Calcium	ug/L	ND	40.0	06/01/18 09:22	
Chromium	ug/L	ND	0.50	06/01/18 09:22	
Cobalt	ug/L	ND	0.50	06/01/18 09:22	
Copper	ug/L	ND	1.0	06/01/18 09:22	
Iron	ug/L	ND	50.0	06/01/18 09:22	
Lead	ug/L	ND	0.10	06/01/18 09:22	
Magnesium	ug/L	5.6J	10.0	06/01/18 09:22	
Manganese	ug/L	ND	0.50	06/01/18 09:22	
Nickel	ug/L	ND	0.50	06/01/18 09:22	
Potassium	ug/L	ND	50.0	06/01/18 09:22	
Selenium	ug/L	ND	0.50	06/01/18 09:22	
Silver	ug/L	ND	0.50	06/01/18 09:22	
Sodium	ug/L	ND	50.0	06/01/18 09:22	
Thallium	ug/L	ND	0.10	06/01/18 09:22	
Vanadium	ug/L	ND	1.0	06/01/18 09:22	
Zinc	ug/L	ND	5.0	06/01/18 09:22	

LABORATORY CONTROL SAMPLE: 2943644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	2000	2170	109	80-120	
Antimony	ug/L	100	105	105	80-120	
Arsenic	ug/L	100	104	104	80-120	
Barium	ug/L	100	104	104	80-120	
Beryllium	ug/L	100	116	116	80-120	
Cadmium	ug/L	100	107	107	80-120	
Calcium	ug/L	2000	2240	112	80-120	
Chromium	ug/L	100	111	111	80-120	
Cobalt	ug/L	100	109	109	80-120	
Copper	ug/L	100	111	111	80-120	
Iron	ug/L	2000	2260	113	80-120	
Lead	ug/L	100	106	106	80-120	

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### QUALITY CONTROL DATA

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

LABORATORY CONTROL SAMPLE: 2943644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	ug/L	2000	2250	112	80-120	
Manganese	ug/L	100	108	108	80-120	
Nickel	ug/L	100	111	111	80-120	
Potassium	ug/L	2000	2190	110	80-120	
Selenium	ug/L	100	114	114	80-120	
Silver	ug/L	50	49.9	100	80-120	
Sodium	ug/L	2000	2230	112	80-120	
Thallium	ug/L	100	105	105	80-120	
Vanadium	ug/L	100	108	108	80-120	
Zinc	ug/L	100	109	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2943645 2943646

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10432836001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Aluminum	ug/L	1220	2000	2000	3530	3590	115	118	75-125	2	20	
Antimony	ug/L	0.26J	100	100	104	105	103	105	75-125	1	20	
Arsenic	ug/L	4.6	100	100	109	112	104	107	75-125	2	20	
Barium	ug/L	85.2	100	100	192	193	107	108	75-125	0	20	
Beryllium	ug/L	0.091J	100	100	113	109	112	109	75-125	3	20	
Cadmium	ug/L	0.088	100	100	108	110	107	110	75-125	3	20	
Calcium	ug/L	17400	2000	2000	19500	19500	104	108	75-125	0	20	
Chromium	ug/L	1.1	100	100	114	114	113	113	75-125	1	20	
Cobalt	ug/L	0.54	100	100	110	112	109	111	75-125	2	20	
Copper	ug/L	15.0	100	100	126	128	111	113	75-125	2	20	
Iron	ug/L	1180	2000	2000	3470	3480	114	115	75-125	0	20	
Lead	ug/L	2.5	100	100	108	111	106	109	75-125	3	20	
Magnesium	ug/L	5240	2000	2000	7460	7460	111	111	75-125	0	20	
Manganese	ug/L	72.9	100	100	181	184	108	111	75-125	2	20	
Nickel	ug/L	1.1	100	100	110	112	109	111	75-125	2	20	
Potassium	ug/L	1430	2000	2000	3600	3650	108	111	75-125	2	20	
Selenium	ug/L	ND	100	100	111	108	111	108	75-125	3	20	
Silver	ug/L	ND	50	50	50.5	51.2	101	102	75-125	1	20	
Sodium	ug/L	2900	2000	2000	5140	5080	112	109	75-125	1	20	
Thallium	ug/L	ND	100	100	105	108	105	108	75-125	3	20	
Vanadium	ug/L	2.0	100	100	112	113	110	111	75-125	1	20	
Zinc	ug/L	24.1	100	100	132	134	108	110	75-125	1	20	

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### QUALITY CONTROL DATA

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

QC Batch: 541156 Analysis Method: EPA 6020A  
QC Batch Method: EPA 3020 Analysis Description: 6020A Water Dissolved UPD4  
Associated Lab Samples: 10432831001, 10432836001, 10432836002, 10432836003, 10432836004, 10432836005, 10432836006, 10432836007, 10432836008

METHOD BLANK: 2943635 Matrix: Water  
Associated Lab Samples: 10432831001, 10432836001, 10432836002, 10432836003, 10432836004, 10432836005, 10432836006, 10432836007, 10432836008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	10.0	06/01/18 20:39	
Antimony, Dissolved	ug/L	ND	0.50	06/01/18 20:39	
Arsenic, Dissolved	ug/L	ND	0.50	06/01/18 20:39	
Barium, Dissolved	ug/L	ND	0.30	06/01/18 20:39	
Beryllium, Dissolved	ug/L	ND	0.20	06/01/18 20:39	
Cadmium, Dissolved	ug/L	ND	0.080	06/01/18 20:39	
Calcium, Dissolved	ug/L	ND	40.0	06/01/18 20:39	
Chromium, Dissolved	ug/L	ND	0.50	06/01/18 20:39	
Cobalt, Dissolved	ug/L	ND	0.50	06/01/18 20:39	
Copper, Dissolved	ug/L	ND	1.0	06/01/18 20:39	
Iron, Dissolved	ug/L	ND	50.0	06/01/18 20:39	
Lead, Dissolved	ug/L	ND	0.10	06/01/18 20:39	
Magnesium, Dissolved	ug/L	ND	10.0	06/01/18 20:39	
Manganese, Dissolved	ug/L	0.20J	0.50	06/01/18 20:39	
Nickel, Dissolved	ug/L	ND	0.50	06/01/18 20:39	
Potassium, Dissolved	ug/L	ND	50.0	06/01/18 20:39	
Selenium, Dissolved	ug/L	ND	0.50	06/01/18 20:39	
Silver, Dissolved	ug/L	ND	0.50	06/01/18 20:39	
Sodium, Dissolved	ug/L	ND	50.0	06/01/18 20:39	
Thallium, Dissolved	ug/L	ND	0.10	06/01/18 20:39	
Vanadium, Dissolved	ug/L	ND	1.0	06/01/18 20:39	
Zinc, Dissolved	ug/L	ND	5.0	06/01/18 20:39	

LABORATORY CONTROL SAMPLE: 2943636

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	2000	2170	108	80-120	
Antimony, Dissolved	ug/L	100	107	107	80-120	
Arsenic, Dissolved	ug/L	100	106	106	80-120	
Barium, Dissolved	ug/L	100	108	108	80-120	
Beryllium, Dissolved	ug/L	100	106	106	80-120	
Cadmium, Dissolved	ug/L	100	108	108	80-120	
Calcium, Dissolved	ug/L	2000	2310	115	80-120	
Chromium, Dissolved	ug/L	100	112	112	80-120	
Cobalt, Dissolved	ug/L	100	107	107	80-120	
Copper, Dissolved	ug/L	100	108	108	80-120	
Iron, Dissolved	ug/L	2000	2250	112	80-120	
Lead, Dissolved	ug/L	100	111	111	80-120	

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### QUALITY CONTROL DATA

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

LABORATORY CONTROL SAMPLE: 2943636

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium, Dissolved	ug/L	2000	2240	112	80-120	
Manganese, Dissolved	ug/L	100	110	110	80-120	
Nickel, Dissolved	ug/L	100	109	109	80-120	
Potassium, Dissolved	ug/L	2000	2170	109	80-120	
Selenium, Dissolved	ug/L	100	104	104	80-120	
Silver, Dissolved	ug/L	50	56.1	112	80-120	
Sodium, Dissolved	ug/L	2000	2240	112	80-120	
Thallium, Dissolved	ug/L	100	109	109	80-120	
Vanadium, Dissolved	ug/L	100	108	108	80-120	
Zinc, Dissolved	ug/L	100	110	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2943637 2943638

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10432836001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Aluminum, Dissolved	ug/L	69.4	2000	2000	2230	2220	108	108	75-125	0	20	
Antimony, Dissolved	ug/L	0.24J	100	100	107	108	107	108	75-125	1	20	
Arsenic, Dissolved	ug/L	2.8	100	100	109	110	107	107	75-125	1	20	
Barium, Dissolved	ug/L	55.8	100	100	168	168	112	112	75-125	0	20	
Beryllium, Dissolved	ug/L	ND	100	100	111	111	111	111	75-125	0	20	
Cadmium, Dissolved	ug/L	0.029J	100	100	106	108	106	108	75-125	2	20	
Calcium, Dissolved	ug/L	14900	2000	2000	18600	18200	184	167	75-125	2	20	M1
Chromium, Dissolved	ug/L	0.27J	100	100	111	110	110	110	75-125	0	20	
Cobalt, Dissolved	ug/L	ND	100	100	105	105	105	105	75-125	0	20	
Copper, Dissolved	ug/L	3.8	100	100	108	109	105	105	75-125	0	20	
Iron, Dissolved	ug/L	54.5	2000	2000	2280	2290	111	112	75-125	0	20	
Lead, Dissolved	ug/L	0.13	100	100	109	108	108	108	75-125	0	20	
Magnesium, Dissolved	ug/L	4120	2000	2000	6610	6540	124	121	75-125	1	20	
Manganese, Dissolved	ug/L	17.7	100	100	125	126	108	108	75-125	0	20	
Nickel, Dissolved	ug/L	0.40J	100	100	106	106	106	106	75-125	0	20	
Potassium, Dissolved	ug/L	978	2000	2000	3230	3190	113	111	75-125	1	20	
Selenium, Dissolved	ug/L	ND	100	100	107	109	107	109	75-125	1	20	
Silver, Dissolved	ug/L	ND	50	50	54.9	55.6	110	111	75-125	1	20	
Sodium, Dissolved	ug/L	2530	2000	2000	4900	4840	119	116	75-125	1	20	
Thallium, Dissolved	ug/L	ND	100	100	108	108	108	108	75-125	0	20	
Vanadium, Dissolved	ug/L	0.53J	100	100	110	110	109	109	75-125	0	20	
Zinc, Dissolved	ug/L	4.4J	100	100	112	112	108	108	75-125	0	20	

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**QUALITY CONTROL DATA**

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

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QC Batch: 541240 Analysis Method: SM 2320B  
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity  
Associated Lab Samples: 10432831001, 10432836001, 10432836002, 10432836003

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METHOD BLANK: 2944027 Matrix: Water  
Associated Lab Samples: 10432831001, 10432836001, 10432836002, 10432836003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	05/29/18 14:07	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	05/29/18 14:07	

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### QUALITY CONTROL DATA

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

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QC Batch: 541421 Analysis Method: SM 2320B  
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity  
Associated Lab Samples: 10432836004, 10432836005, 10432836006, 10432836007, 10432836008

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METHOD BLANK: 2944820 Matrix: Water  
Associated Lab Samples: 10432836004, 10432836005, 10432836006, 10432836007, 10432836008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	05/30/18 12:27	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	05/30/18 12:27	

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### QUALITY CONTROL DATA

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

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QC Batch: 541393 Analysis Method: SM 2540C  
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids  
Associated Lab Samples: 10432831001, 10432836001, 10432836002, 10432836003, 10432836004, 10432836005, 10432836006, 10432836007, 10432836008

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METHOD BLANK: 2944685 Matrix: Water  
Associated Lab Samples: 10432831001, 10432836001, 10432836002, 10432836003, 10432836004, 10432836005, 10432836006, 10432836007, 10432836008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/30/18 20:26	

LABORATORY CONTROL SAMPLE: 2944686

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	954	95	80-120	

SAMPLE DUPLICATE: 2944687

Parameter	Units	10432831001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	296	288	3	10	

SAMPLE DUPLICATE: 2944688

Parameter	Units	10432836001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	100	97.9	2	10	

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**QUALITY CONTROL DATA**

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

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QC Batch: 541214 Analysis Method: SM 4500-H+B  
QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH  
Associated Lab Samples: 10432831001, 10432836001, 10432836002, 10432836003, 10432836004, 10432836005, 10432836006, 10432836007, 10432836008

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LABORATORY CONTROL SAMPLE: 2943914

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH at 25 Degrees C	Std. Units	5	5.0	100	98-102	H6

SAMPLE DUPLICATE: 2943915

Parameter	Units	10432836004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.2	8.2	0	3	H6

SAMPLE DUPLICATE: 2943945

Parameter	Units	10431815003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.5	0	3	H6

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**QUALITY CONTROL DATA**

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

QC Batch: 541303 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 10432831001, 10432836001, 10432836002, 10432836003, 10432836004, 10432836005, 10432836006, 10432836007, 10432836008

METHOD BLANK: 2944283 Matrix: Water  
Associated Lab Samples: 10432831001, 10432836001, 10432836002, 10432836003, 10432836004, 10432836005, 10432836006, 10432836007, 10432836008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.2	05/30/18 01:52	
Fluoride	mg/L	ND	0.050	05/30/18 01:52	
Sulfate	mg/L	ND	1.2	05/30/18 01:52	

LABORATORY CONTROL SAMPLE: 2944284

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	12.5	12.4	99	90-110	
Fluoride	mg/L	1	1.0	102	90-110	
Sulfate	mg/L	12.5	12.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2944285 2944286

Parameter	Units	10431928006		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Chloride	mg/L	5.4	12.5	12.5	17.3	17.3	95	95	90-110	0	20		
Fluoride	mg/L	ND	1	1	0.71	0.72	71	72	90-110	1	20	M1	
Sulfate	mg/L	10	12.5	12.5	22.5	22.6	100	101	90-110	1	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2944309 2944310

Parameter	Units	10432489006		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Chloride	mg/L	14.1	12.5	12.5	24.9	25.1	87	88	90-110	1	20	M1	
Fluoride	mg/L	0.66	1	1	1.6	1.6	96	97	90-110	1	20		
Sulfate	mg/L	43.3	12.5	12.5	51.5	51.9	66	69	90-110	1	20	M1	

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### QUALITY CONTROL DATA

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

QC Batch: 541432 Analysis Method: EPA 353.2  
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved  
Associated Lab Samples: 10432831001, 10432836001, 10432836002, 10432836003, 10432836004, 10432836005, 10432836006, 10432836007, 10432836008

METHOD BLANK: 2944878 Matrix: Water  
Associated Lab Samples: 10432831001, 10432836001, 10432836002, 10432836003, 10432836004, 10432836005, 10432836006, 10432836007, 10432836008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	05/31/18 10:03	FS

LABORATORY CONTROL SAMPLE: 2944879

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	1	0.98	98	90-110	FS

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2944880 2944881

Parameter	Units	10432831001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	ND	1	1	0.96	1.0	96	103	90-110	7	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2944882 2944883

Parameter	Units	10432698005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	8.4	10	10	18.0	18.3	96	98	90-110	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

QC Batch: 143886 Analysis Method: SM 5310C  
QC Batch Method: SM 5310C Analysis Description: 5310C TOC  
Associated Lab Samples: 10432831001, 10432836001, 10432836002, 10432836003, 10432836004, 10432836005, 10432836006, 10432836007, 10432836008

METHOD BLANK: 568093 Matrix: Water  
Associated Lab Samples: 10432831001, 10432836001, 10432836002, 10432836003, 10432836004, 10432836005, 10432836006, 10432836007, 10432836008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	05/29/18 13:01	

LABORATORY CONTROL SAMPLE: 568094

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	25.8	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 568095 568096

Parameter	Units	10432831001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	17.2	25	25	43.7	43.1	106	104	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 568097 568098

Parameter	Units	10432836002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	5.7	25	25	32.2	31.8	106	104	80-120	1	20	

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### QUALITY CONTROL DATA

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

QC Batch: 541342 Analysis Method: SM 4500-P E  
QC Batch Method: SM 4500-P B Analysis Description: SM4500P-E, Total Phosphorus  
Associated Lab Samples: 10432831001, 10432836001, 10432836002, 10432836003, 10432836004, 10432836005, 10432836006, 10432836007, 10432836008

METHOD BLANK: 2944464 Matrix: Water  
Associated Lab Samples: 10432831001, 10432836001, 10432836002, 10432836003, 10432836004, 10432836005, 10432836006, 10432836007, 10432836008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.10	05/30/18 12:44	

LABORATORY CONTROL SAMPLE: 2944465

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	1	1.0	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2944466 2944467

Parameter	Units	10432366001 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Conc.	Result	Result	% Rec	% Rec						
Phosphorus	mg/L	180	1	1	173	175	-705	-520	80-120	1	30	M6		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2944468 2944469

Parameter	Units	10432717001 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Conc.	Result	Result	% Rec	% Rec						
Phosphorus	mg/L	ND	1	1	0.99	1.0	96	101	80-120	4	30			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

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### 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.  
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.  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis  
PASI-V Pace Analytical Services - Virginia

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.  
FS The sample was filtered in the laboratory prior to analysis.  
H6 Analysis initiated outside of the 15 minute EPA required holding time.  
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.  
M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10432831001	CFR-HP-13A	EPA 3020	541158	EPA 6020A	541946
10432836001	CFR-1	EPA 3020	541158	EPA 6020A	541946
10432836002	CFR-2	EPA 3020	541158	EPA 6020A	541946
10432836003	SMW-11	EPA 3020	541158	EPA 6020A	541946
10432836004	HP-13A Pond	EPA 3020	541158	EPA 6020A	541946
10432836005	HP-2 Pond	EPA 3020	541158	EPA 6020A	541946
10432836006	CFR-HB-1	EPA 3020	541158	EPA 6020A	541946
10432836007	SW-DUP	EPA 3020	541158	EPA 6020A	541946
10432836008	ERB	EPA 3020	541158	EPA 6020A	541946
10432831001	CFR-HP-13A	EPA 3020	541156	EPA 6020A	542050
10432836001	CFR-1	EPA 3020	541156	EPA 6020A	542050
10432836002	CFR-2	EPA 3020	541156	EPA 6020A	542050
10432836003	SMW-11	EPA 3020	541156	EPA 6020A	542050
10432836004	HP-13A Pond	EPA 3020	541156	EPA 6020A	542050
10432836005	HP-2 Pond	EPA 3020	541156	EPA 6020A	542050
10432836006	CFR-HB-1	EPA 3020	541156	EPA 6020A	542050
10432836007	SW-DUP	EPA 3020	541156	EPA 6020A	542050
10432836008	ERB	EPA 3020	541156	EPA 6020A	542050
10432831001	CFR-HP-13A	SM 2320B	541240		
10432836001	CFR-1	SM 2320B	541240		
10432836002	CFR-2	SM 2320B	541240		
10432836003	SMW-11	SM 2320B	541240		
10432836004	HP-13A Pond	SM 2320B	541421		
10432836005	HP-2 Pond	SM 2320B	541421		
10432836006	CFR-HB-1	SM 2320B	541421		
10432836007	SW-DUP	SM 2320B	541421		
10432836008	ERB	SM 2320B	541421		
10432831001	CFR-HP-13A	SM 2540C	541393		
10432836001	CFR-1	SM 2540C	541393		
10432836002	CFR-2	SM 2540C	541393		
10432836003	SMW-11	SM 2540C	541393		
10432836004	HP-13A Pond	SM 2540C	541393		
10432836005	HP-2 Pond	SM 2540C	541393		
10432836006	CFR-HB-1	SM 2540C	541393		
10432836007	SW-DUP	SM 2540C	541393		
10432836008	ERB	SM 2540C	541393		
10432831001	CFR-HP-13A	SM 4500-H+B	541214		
10432836001	CFR-1	SM 4500-H+B	541214		
10432836002	CFR-2	SM 4500-H+B	541214		
10432836003	SMW-11	SM 4500-H+B	541214		
10432836004	HP-13A Pond	SM 4500-H+B	541214		
10432836005	HP-2 Pond	SM 4500-H+B	541214		
10432836006	CFR-HB-1	SM 4500-H+B	541214		
10432836007	SW-DUP	SM 4500-H+B	541214		
10432836008	ERB	SM 4500-H+B	541214		
10432831001	CFR-HP-13A	SM 2510	541212		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 350.0065.001 Ph15 Frenchtown  
Pace Project No.: 10432836

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10432836001	CFR-1	SM 2510	541212		
10432836002	CFR-2	SM 2510	541212		
10432836003	SMW-11	SM 2510	541212		
10432836004	HP-13A Pond	SM 2510	541212		
10432836005	HP-2 Pond	SM 2510	541212		
10432836006	CFR-HB-1	SM 2510	541212		
10432836007	SW-DUP	SM 2510	541212		
10432836008	ERB	SM 2510	541212		
10432831001	CFR-HP-13A	EPA 300.0	541303		
10432836001	CFR-1	EPA 300.0	541303		
10432836002	CFR-2	EPA 300.0	541303		
10432836003	SMW-11	EPA 300.0	541303		
10432836004	HP-13A Pond	EPA 300.0	541303		
10432836005	HP-2 Pond	EPA 300.0	541303		
10432836006	CFR-HB-1	EPA 300.0	541303		
10432836007	SW-DUP	EPA 300.0	541303		
10432836008	ERB	EPA 300.0	541303		
10432831001	CFR-HP-13A	EPA 353.2	541432		
10432836001	CFR-1	EPA 353.2	541432		
10432836002	CFR-2	EPA 353.2	541432		
10432836003	SMW-11	EPA 353.2	541432		
10432836004	HP-13A Pond	EPA 353.2	541432		
10432836005	HP-2 Pond	EPA 353.2	541432		
10432836006	CFR-HB-1	EPA 353.2	541432		
10432836007	SW-DUP	EPA 353.2	541432		
10432836008	ERB	EPA 353.2	541432		
10432831001	CFR-HP-13A	SM 5310C	143886		
10432836001	CFR-1	SM 5310C	143886		
10432836002	CFR-2	SM 5310C	143886		
10432836003	SMW-11	SM 5310C	143886		
10432836004	HP-13A Pond	SM 5310C	143886		
10432836005	HP-2 Pond	SM 5310C	143886		
10432836006	CFR-HB-1	SM 5310C	143886		
10432836007	SW-DUP	SM 5310C	143886		
10432836008	ERB	SM 5310C	143886		
10432831001	CFR-HP-13A	SM 4500-P B	541342	SM 4500-P E	541437
10432836001	CFR-1	SM 4500-P B	541342	SM 4500-P E	541437
10432836002	CFR-2	SM 4500-P B	541342	SM 4500-P E	541437
10432836003	SMW-11	SM 4500-P B	541342	SM 4500-P E	541437
10432836004	HP-13A Pond	SM 4500-P B	541342	SM 4500-P E	541437
10432836005	HP-2 Pond	SM 4500-P B	541342	SM 4500-P E	541437
10432836006	CFR-HB-1	SM 4500-P B	541342	SM 4500-P E	541437
10432836007	SW-DUP	SM 4500-P B	541342	SM 4500-P E	541437
10432836008	ERB	SM 4500-P B	541342	SM 4500-P E	541437

### REPORT OF LABORATORY ANALYSIS

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**Sample Condition Upon Receipt**

Client Name: New Fields Project #: \_\_\_\_\_

WO#: 10432836

PM: KSK1 Due Date: 06/04/18  
CLIENT: 11 Newfields

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  SpeedDee  Other: \_\_\_\_\_

Tracking Number: 7475 9638 9857  
6752 4211 4256

Custody Seal on Cooler/Box Present?  Yes  No Seals Intact?  Yes  No

Optional: Proj. Due Date: \_\_\_\_\_ Proj. Name: \_\_\_\_\_

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_ Temp Blank?  Yes  No

Thermometer  G87A9170600254  G87A9155100842  
 Used: \_\_\_\_\_ Type of Ice:  Wet  Blue  None  Dry  Melted

Cooler Temp Read (°C): 3.9, 3.0 Cooler Temp Corrected (°C): 3.9, 3.0 Biological Tissue Frozen?  Yes  No  N/A  
 Temp should be above freezing to 6°C Correction Factor: true Date and Initials of Person Examining Contents: MD 5/25/18

USDA Regulated Soil (  N/A, water sample)  
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?  Yes  No  
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time? <input type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9. <u>unpres. and sulfuric containers poured off into subcut containers.</u>
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered Volume Received for Dissolved Tests? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Is sufficient information available to reconcile the samples to the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Matrix: <u>WT</u>	12.
All containers needing acid/base preservation have been checked? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A All containers needing preservation are found to be in compliance with EPA recommendation? <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	13. <input checked="" type="checkbox"/> HNO <sub>3</sub> <input checked="" type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH Positive for Res. Chlorine? Y N Sample #1-8: <u>2/2 1,3,5-7: 1/1 2,4,8: 3/2</u>
Headspace in VOA Vials (>6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed: <u>MD</u> Lot # of added preservative: <u>3117051</u>
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Pace Trip Blank Lot # (if purchased): _____	

**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/Resolution: \_\_\_\_\_

Project Manager Review: Ky K Date: 5/25/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers).





**Sample Condition Upon Receipt**

Client Name: New Fields Project #:

**WO#: 10432831**  
**PM: KSK1 Due Date: 05/30/18**  
**CLIENT: 11 Newfields**

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  SpeeDee  Other:

Tracking Number: 7475 9638 9857  
6752 4211 4250

Custody Seal on Cooler/Box Present?  Yes  No Seals Intact?  Yes  No

Optional: Proj. Due Date: Proj. Name:

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: Temp Blank?  Yes  No

Thermometer Used:  G87A9170600254  G87A9155100842 Type of Ice:  Wet  Blue  None  Dry  Melted

Cooler Temp Read (°C): 3.9, 3.0 Cooler Temp Corrected (°C): 3.9, 3.0 Biological Tissue Frozen?  Yes  No  N/A  
 Temp should be above freezing to 6°C Correction Factor: true Date and Initials of Person Examining Contents: MD 5/25/18

USDA Regulated Soil (  N/A, water sample)  
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?  Yes  No  
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No  
**If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.**

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9. <u>unpres. &amp; sulfuric volumes split for sub outs</u>
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered Volume Received for Dissolved Tests? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Is sufficient information available to reconcile the samples to the COC? Matrix: <u>WT</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
All containers needing acid/base preservation have been checked? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO <sub>3</sub> <input checked="" type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH Positive for Res. Chlorine? Y N Sample #: <u>3/2</u> <u>1/1</u>
Headspace in VOA Vials (>6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed: Lot # of added preservative:
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Pace Trip Blank Lot # (if purchased):	

**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/Resolution: \_\_\_\_\_

Project Manager Review: KSK Date: \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

**Table 11**  
**Groundwater Sample Methods, Containers and Preservatives**  
**2018 and 2019 Groundwater Monitoring Plan**  
**Frenchtown Mill Site, Missoula County, Montana**

Parameter Group	Analytical Method & Parameters	Number of Containers	Container Type	Preservative / Additive	Hold Time
Field Parameters	Flow Cell / In Field; pH, conductivity, DO, ORP, temperature, turbidity	0	---	---	---
Dioxins / Furans	8290; congeners PCDD/F (Cl4-Cl8) 2005 WHO	2	1-liter amber glass bottle	Cool to 6°C, sodium thiosulfate	Store at <6°C, or lower, in the dark. Extract within 30 days and analyze within 45 days of extraction. Analyze within 1 year if sample extracts stored in the dark at <- 10°C.
Total and Dissolved Metals	6020; Ag, Al, As, Ba, Cd, Cr, Co, Cu, Fe, Pb, Mn, Ni, Sb, Se, Tl, V, 7471B; Hg 6010; Ca, Mg, Na, K	1	250-mL HDPE bottle (Dissolved, Field-Filtered)	Cool to 6°C; nitric acid to pH <2; water to be sampled for dissolved metals must be field- filtered.	6 months with the exception of mercury (28 days).
Volatile Organic Compounds (VOCs)	8260; See FSP Table D-5	3	40 mL VOA vial	Cool to 6°C; hydrochloric acid to pH <2; Sodium Thiosulfate (Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ) if Cl present	14 days.
Semi-Volatile Organic Compounds (SVOCs)	8270; See FSP Table D-5	2	1-liter amber glass bottle	Cool to 6°C	Extract within 7 days after sample collection. Analyze within 40 days of extraction.
Polychlorinated Biphenyls (PCBs)	8082; PCBs (Aroclors )	2	1-liter amber glass bottle	Cool to 6°C but above freezing	Extract within 1 year of sample collection. Analyze within 40 days of extraction.
Nutrients	353.2; Nitrate+Nitrite SM 4500-P-E; Phosphate SM 5310C; TOC	1	250-mL HDPE bottle	Cool to 6°C, sulfuric acid to pH <2	28 days
Ions	300.0; SO <sub>4</sub> , Cl, F SM2320B; Alkalinity SM 2540-C; TDS Electrode; Conductivity, pH	1	500-mL HDPE bottle	Cool to 6°C	All analytes 28 days except TDS (7 days).

**Notes:**

- |      |                             |                 |                                 |
|------|-----------------------------|-----------------|---------------------------------|
| ---  | - not applicable            | Hg              | - mercury                       |
| Ag   | - silver                    | K               | - potassium                     |
| Al   | - aluminum                  | Mg              | - magnesium                     |
| As   | - arsenic                   | mL              | - milliliter                    |
| Ba   | - barium                    | mn              | - manganese                     |
| Ca   | - calcium                   | Na              | - sodium                        |
| Cd   | - cadmium                   | Ni              | - nickel                        |
| Cl   | - chloride                  | ORP             | - oxidation reduction potential |
| Co   | - cobalt                    | Pb              | - lead                          |
| Cr   | - chromium                  | Se              | - selenium                      |
| Cu   | - copper                    | SO <sub>4</sub> | - sulfate                       |
| °C   | - degrees celsius           | TDS             | - total dissolved solids        |
| DO   | - dissolved oxygen          | Tl              | - thallium                      |
| Fe   | - iron                      | TOC             | - total organic carbon          |
| HDPE | - high density polyethylene | V               | - vanadium                      |
|      |                             | Zn              | - zinc                          |

FSP - NewFields 2015, Field Sampling Plan, Appendix D of the Remedial Investigation Work Plan, November 2015

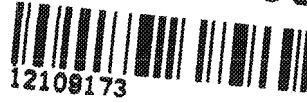


**Sample Condition Upon Receipt**

Client Name: Pace MN

Project #:

**WO#: 12109173**



Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_

Tracking Number: \_\_\_\_\_

Custody Seal on Cooler/Box Present?  Yes  No      Seals Intact?  Yes  No      Optional: Proj. Due Date: \_\_\_\_\_ Proj. Name: \_\_\_\_\_

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_      Temp Blank?  Yes  No

Thermometer Used:  140792808      Type of Ice:  Wet  Blue  None  Samples on ice, cooling process has begun

Cooler Temp Read °C: 2.9      Cooler Temp Corrected °C: 2.8      Biological Tissue Frozen?  Yes  No  NA  
 Temp should be above freezing to 6°C      Correction Factor 0.7      Date and Initials of Person Examining Contents: 5-28-18 DC

Comments:

Chain of Custody Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1
Chain of Custody Filled Out?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2
Chain of Custody Relinquished?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3
Sampler Name and Signature on COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4
Samples Arrived within Hold Time?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5. If Fecal: <input type="checkbox"/> <8 hours <input type="checkbox"/> >8, <24 hours <input type="checkbox"/> >24 hours
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7
Sufficient Volume?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8
Correct Containers Used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9
-Pace Containers Used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved containers.
Sample Labels Match COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12
-Includes Date/Time/ID/Analysis Matrix		
All containers needing acid/base preservation will be checked and documented in the pH logbook.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	See pH log for results and additional preservation documentation
Headspace in Methyl Mercury Container	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

FECAL WAIVER ON FILE Y N

TEMPERATURE WAIVER ON FILE Y N

Project Manager Review: [Signature]

Date: 5/29/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)