

February 28, 2022

Project No. 19121567

R. M. SCHAHFER GENERATING STATION 2021 GROUNDWATER DATA PACKAGE

On behalf of Northern Indiana Public Service Company LLC (NIPSCO LLC), Golder Associates USA Inc. (Golder) prepared this 2021 groundwater data package to provide additional information collected in 2021 for the R. M. Schahfer Generating Station Coal Combustion Residual Units: Landfill Phases V, VI, and VII, Waste Disposal Area, Material Storage Runoff Basin, Metal Cleaning Waste Basin, and Drying Area. This package includes the following:

- The depth to water and water level elevations collected as part of the April and September 2021 semi-annual sampling events.
- Groundwater elevation contour maps showing groundwater elevations across the entire site in April and September 2021.
- The Pace Analytical Laboratory reports containing all CCR data collected for the Landfill Phases V, VI, and VII, Waste Disposal Area, Material Storage Runoff Basin, Metal Cleaning Waste Basin, and Drying Area.
- The Data Usability Summary Report for the 2021 groundwater samples.

Attachment A: 2021 Water Level Data

Attachment B: April 2021 Contour Map

Attachment C: September 2021 Contour Map

Attachment D: April 2021 Laboratory Analytical Reports

Attachment E: September 2021 Laboratory Analytical Reports

Attachment F: 2021 R. M. Schahfer Generating Station Data Usability Report

ATTACHMENT A

2021 Water Level Data

Attachment A: 2021 Water Level Data
NIPSCO R.M. Schahfer Generating Station

Monitoring Well Locations	Northing (ft)	Easting (ft)	Ground Surface Elevation (ft-NAVD88) (ft-msl)	Top of Casing Elevation (ft-NAVD88)	Screen Interval		Well Diameter (in)	Stick Up (ft)	4/8/2021-4/9/2021		9/8/2021	
					Top (ft-bgs)	Bottom (ft-bgs)			Depth To Water (ft- btoc)	Groundwater Elevation (ft-NAVD88)	Depth To Water (ft- btoc)	Groundwater Elevation (ft-NAVD88)
CCR Wells												
GAMW01	2,169,108.22	2,968,518.99	664.90	668.23	5	15	2	3.33	8.76	659.47	8.55	659.68
GAMW01B	2,169,107.37	2,968,525.20	665.20	667.87	26	36	2	2.67	8.30	659.57	8.11	659.76
GAMW03	2,169,821.53	2,971,646.34	665.14	668.20	5	15	2	3.06	6.28	661.92	8.58	659.62
GAMW03B	2,169,813.71	2,971,647.06	665.29	668.16	25	35	2	2.87	6.22	661.94	8.57	659.59
GAMW04	2,170,947.82	2,971,503.36	665.81	669.24	5	15	2	3.43	7.90	661.34	9.56	659.68
GAMW07	2,172,327.53	2,970,256.34	666.55	669.94	5	15	2	3.39	10.02	659.92	10.46	659.48
GAMW07B	2,172,318.59	2,970,251.36	666.83	669.39	30	40	2	2.56	9.45	659.94	9.89	659.50
GAMW08	2,173,335.20	2,970,799.89	665.95	669.76	5	15	2	3.81	10.07	659.69	10.60	659.16
GAMW08B	2,173,334.70	2,970,790.59	665.92	668.47	26	36	2	2.55	8.87	659.60	9.39	659.08
GAMW09	2,172,509.36	2,971,291.29	665.10	668.56	5	15	2	3.46	8.21	660.35	8.83	659.73
GAMW09B	2,172,502.57	2,971,291.67	665.35	668.29	25	35	2	2.94	7.91	660.38	8.54	659.75
GAMW12	2,169,576.84	2,968,314.48	664.35	667.29	5	15	2	2.94	8.18	659.11	8.44	658.85
GAMW12B	2,169,580.32	2,968,309.54	664.23	666.81	25	35	2	2.58	7.60	659.21	7.88	658.93
GAMW13	2,170,059.98	2,968,285.46	664.31	667.24	5	15	2	2.93	8.29	658.95	8.71	658.53
GAMW13B	2,170,055.88	2,968,285.69	664.23	667.12	25	35	2	2.89	8.16	658.96	8.64	658.48
GAMW14	2,170,532.49	2,968,467.96	664.76	667.96	5	15	2	3.20	9.01	658.95	9.13	658.83
GAMW14B	2,170,534.66	2,968,471.60	664.62	667.94	25	35	2	3.32	8.98	658.96	9.73	658.21
GAMW15	2,172,753.76	2,970,258.35	665.01	668.25	5	15	2	3.24	9.13	659.12	8.96	659.29
GAMW15B	2,172,749.68	2,970,258.92	665.14	668.05	28	38	2	2.91	8.92	659.13	8.72	659.33
GAMW16R	2,173,189.51	2,970,396.68	664.35	667.17	10	20	2	2.82	7.68	659.49	7.96	659.21
GAMW16BR	2,173,189.53	2,970,399.45	664.39	667.32	30	40	2	2.93	7.77	659.55	8.17	659.15
GAMW17	2,173,164.44	2,970,944.07	668.81	671.93	5	15	2	3.12	12.17	659.76	12.78	659.15
GAMW17B	2,173,164.84	2,970,947.44	668.86	670.60	25	35	2	1.74	10.85	659.75	11.47	659.13
GAMW18	2,171,919.78	2,971,272.41	666.04	669.07	5	15	2	3.03	8.54	660.53	9.38	659.69
GAMW18B	2,171,910.00	2,971,272.53	665.94	668.47	25	35	2	2.53	7.67	660.80	8.51	659.96
GAMW20	2,171,579.62	2,974,761.60	664.61	667.21	6	16	2	2.60	9.28	657.93	9.41	657.80
GAMW24	2,171,048.72	2,974,868.68	662.09	665.39	6	16	2	3.30	6.65	658.74	7.26	658.13
GAMW24B	2,171,050.67	2,974,866.89	662.13	665.33	21	31	2	3.20	6.57	658.76	7.12	658.21
GAMW25	2,171,586.03	2,973,730.34	665.26	668.05	6	16	2	2.79	9.48	658.57	9.97	658.08
GAMW25B	2,171,588.49	2,973,730.66	665.26	667.95	25	35	2	2.69	9.41	658.54	9.84	658.11
GAMW26	2,172,243.83	2,973,744.80	664.89	667.71	6	16	2	2.82	9.66	658.05	9.91	657.80
GAMW26B	2,172,245.87	2,973,744.66	664.91	667.75	23	33	2	2.84	9.67	658.08	9.90	657.85
GAMW27	2,172,624.68	2,973,958.32	662.68	665.51	6	16	2	2.83	7.63	657.88	7.80	657.71
GAMW27B	2,172,624.95	2,973,960.21	662.65	665.44	21	31	2	2.79	7.51	657.93	7.70	657.74
GAMW29	2,173,593.41	2,975,290.48	666.58	669.49	6	16	2	2.91	11.41	658.08	11.87	657.62
GAMW29B	2,173,594.69	2,975,292.88	666.64	669.45	26	36	2	2.81	11.25	658.20	11.71	657.74
GAMW30	2,173,602.07	2,974,396.02	664.27	666.92	6	16	2	2.65	8.86	658.06	9.39	657.53
GAMW30B	2,173,601.53	2,974,399.23	664.27	666.88	22	32	2	2.61	8.77	658.11	9.29	657.59
GAMW31	2,174,043.93	2,974,076.43	662.68	665.40	6	16	2	2.72	7.40	658.00	7.95	657.45
GAMW31B	2,174,041.68	2,974,075.83	662.69	665.41	20	30	2	2.72	7.36	658.05	7.95	657.46
GAMW32	2,174,364.59	2,974,353.14	665.44	668.08	8	18	2	2.64	10.03	658.05	10.55	657.53
GAMW32B	2,174,364.70	2,974,350.09	665.53	668.28	24	34	2	2.75	10.17	658.11	10.75	657.53
GAMW33	2,174,015.71	2,976,811.15	662.63	665.29	6	16	2	2.66	7.11	658.18	7.75	657.54
GAMW33B	2,174,015.85	2,976,814.01	662.43	665.29	21	31	2	2.86	7.07	658.22	7.70	657.59
GAMW34	2,173,123.80	2,976,637.58	661.78	664.82	6	16	2	3.04	6.15	658.67	6.94	657.88
GAMW34B	2,173,126.75	2,976,637.84	661.65	664.84	19	29	2	3.19	6.15	658.69	6.94	657.90
GAMW35B	2,172,046.64	2,976,576.97	661.78	664.62	14	24	2	2.84	5.57	659.05	6.35	658.27
GAMW36	2,174,145.14	2,977,866.72	662.24	665.00	6	16	2	2.76	6.42	658.58	7.60	657.40
GAMW36B	2,174,142.51	2,977,866.95	662.35	665.07	24.5	34.5	2	2.72	6.44	658.63	7.62	657.45
GAMW37B	2,173,307.54	2,977,852.54	662.68	665.32	15	25	2	2.64	6.24	659.08	7.40	657.92
GAMW38	2,173,106.90	2,974,209.73	660.93	663.29	5	15	2	2.36	5.21	658.08	5.60	657.69
GAMW38B	2,173,104.46	2,974,206.66	660.81	663.31	19.5	29.5	2	2.50	5.24	658.07	5.65	657.66
GAMW39	2,173,099.95	2,974,491.99	661.04	663.53	5	15	2	2.49	5.39	658.14	5.80	657.73
GAMW39B	2,173,103.21	2,974,490.70	660.96	663.49	19.5	29.5	2	2.53	5.39	658.10	5.80	657.69
GAMW40	2,173,336.21	2,974,705.88	664.11	666.56	5	15	2	2.45	7.36	659.20	8.82	657.74
GAMW40B	2,173,336.05	2,974,709.34	664.05	666.40	21.5	31.5	2	2.35	8.22	658.18	8.70	657.70
GAMW41	2,173,334.04	2,975,014.68	660.09	662.43	5	15	2	2.34	4.19	658.24	4.65	657.78
GAMW41B	2,173,337.10	2,975,019.42	660.08	662.17	17	27	2	2.09	3.94	658.23	4.42	657.75
GAMW42	2,170,186.91	2,967,937.39	663.12	665.80	5	15	2	2.68	6.85	658.95	7.50	658.30
GAMW42B	2,170,182.55	2,967,943.17	663.15	665.66	26	36	2	2.51	6.72	658.94	7.40	658.26
GAMW42C	2,170,207.09	2,967,974.69	663.20	666.30	40	50	2	3.09	7.36	658.94	8.00	658.30
GAMW43	2,170,878.63	2,967,926.92	663.14	665.59	5	15	2	2.45	6.85	658.74	7.70	657.89
GAMW43B	2,170,876.91	2,967,926.66	663.12	665.53	16	26	2	2.41	6.76	658.77	7.64	657.89
GAMW44	2,171,240.72	2,967,833.09	664.11	666.31	5	15	2	2.20	7.64	658.67	8.55	657.76
GAMW44B	2,171,239.72	2,967,834.35	664.11	666.25	26	36	2	2.14	7.59	658.66	8.50	657.75
GAMW46	2,178,839.03	2,973,531.39	661.99	664.80	5	15	2	2.81	8.28	656.52	9.09	655.71
GAMW46B	2,178,838.97	2,973,532.88	661.98	664.79	22	32	2	2.81	8.25	656.54	9.06	655.73
GAMW48	2,178,605.72	2,975,279.25	660.81	663.38	5	15	2	2.57	7.67	655.71	8.30	655.08
GAMW48B	2,178,606.46	2,975,283.24	660.44	663.33	20	30	2	2.89	7.65	655.68	8.27	655.06
GAMW49	2,176,111.21	2,976,600.94	662.00	664.64	5	15	2	2.64	6.72	657.92	7.70	656.94
GAMW49B	2,176,115.76	2,976,600.61	662.12	664.52	23	33	2	2.40	6.52	658.00	7.48	657.04
GAMW50	2,174,957.14	2,977,953.35	662.52	665.17	5	15	2	2.65	6.89	658.28	8.00	657.17
GAMW50B	2,174,961.01	2,977,953.31	662.28	664.90	21	31	2	2.62	6.62	658.28	7.70	65

Attachment A: 2021 Water Level Data
NIPSCO R.M. Schahfer Generating Station

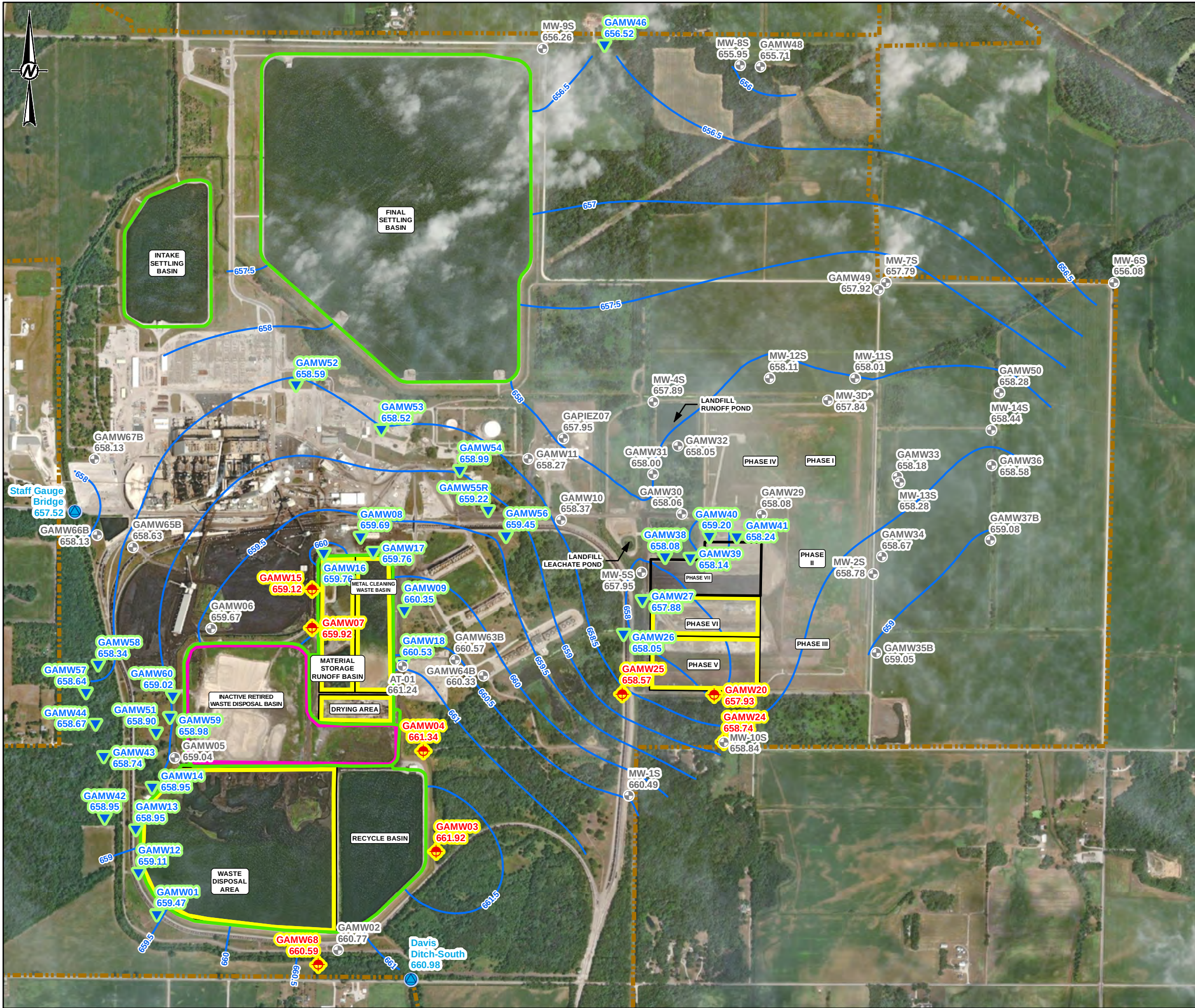
Monitoring Well Locations	Northing (ft)	Easting (ft)	Ground Surface Elevation (ft-NAVD88) (ft-msl)	Top of Casing Elevation (ft-NAVD88)	Screen Interval		Well Diameter (in)	Stick Up (ft)	4/8/2021-4/9/2021		9/8/2021	
					Top (ft-bgs)	Bottom (ft-bgs)			Depth To Water (ft- btoc)	Groundwater Elevation (ft-NAVD88)	Depth To Water (ft- btoc)	Groundwater Elevation (ft-NAVD88)
Non-CCR Wells												
GAMW02	2168720.879	2970548.504	666.08	669.57	5	15	2	3.49	8.80	660.77	8.07	661.50
GAMW05	2,170,870.00	2,968,721.92	666.69	669.75	7	17	2	3.06	10.71	659.04	11.51	658.24
GAMW06	2,172,320.06	2,969,128.60	667.50	670.81	5	15	2	3.31	11.14	659.67	11.99	658.82
GAMW10	2,173,531.42	2,973,046.25	663.99	667.83	5	15	2	3.84	9.46	658.37	10.08	657.75
GAMW11	2,174,218.62	2,972,678.78	663.60	667.17	5	15	2	3.57	8.90	658.27	9.30	657.87
GAMW20B	2,171,579.95	2,974,757.37	664.48	667.40	25	35	2	2.92	9.39	658.01	9.49	657.91
GAMW63B	2,171,969.16	2,971,860.97	666.31	668.76	23	33	2	2.45	8.19	660.57	9.42	659.34
GAMW64B	2,171,789.81	2,972,174.66	664.42	666.85	21	31	2	2.43	6.52	660.33	7.83	659.02
GAMW65B	2,173,229.48	2,968,253.82	665.45	668.67	25	35	2	3.22	10.04	658.63	10.83	657.84
GAMW66B	2,173,363.62	2,967,853.20	669.20	672.99	34	44	2	3.79	14.86	658.13	15.60	657.39
GAMW67B	2,174,213.30	2,967,604.35	664.65	667.97	30.5	40.5	2	3.32	9.84	658.13	10.64	657.33
AT-01	2,171,895.27	2,971,270.60	666.10	669.04	23.5	33.5	6	2.94	7.80	661.24	8.68	660.36
MW-1D	2,170,444.66	2,973,803.93	666.36	668.86	NA	NA	2	2.50	8.35	660.51	9.84	659.02
MW-1S	2,170,448.45	2,973,804.12	666.43	668.81	NA	NA	2	2.38	8.32	660.49	9.80	659.01
MW-2D	2,172,923.21	2,976,537.73	662.17	663.73	NA	NA	2	1.56	4.95	658.78	5.74	657.99
MW-2S	2,172,927.27	2,976,537.53	662.10	664.10	NA	NA	2	2.00	5.32	658.78	6.10	658.00
MW-3D	2,174,870.23	2,976,027.54	664.84	667.58	NA	NA	2	2.74	9.74	657.84	10.25	657.33
MW-4D	2,174,850.60	2,974,079.08	664.13	666.56	NA	NA	2	2.43	8.66	657.90	9.10	657.46
MW-4S	2,174,854.87	2,974,079.61	664.26	666.90	NA	NA	2	2.64	9.01	657.89	9.42	657.48
MW-5D	2,172,943.39	2,973,945.41	662.75	664.37	NA	NA	2	1.62	6.43	657.94	6.65	657.72
MW-5S	2,172,947.23	2,973,945.85	662.72	664.29	NA	NA	2	1.57	6.34	657.95	6.60	657.69
MW-6D	2,176,184.18	2,979,231.84	661.79	664.64	NA	NA	2	2.85	8.55	656.09	9.62	655.02
MW-6S	2,176,188.28	2,979,232.00	662.01	664.61	NA	NA	2	2.60	8.53	656.08	9.62	654.99
MW-7D	2,176,190.40	2,976,682.13	662.01	664.72	NA	NA	2	2.71	6.94	657.78	7.89	656.83
MW-7S	2,176,191.61	2,976,686.00	661.99	664.80	NA	NA	2	2.81	7.01	657.79	7.89	656.91
MW-8D	2,178,623.38	2,975,045.91	661.34	663.52	NA	NA	2	2.18	7.57	655.95	8.28	655.24
MW-8S	2,178,621.41	2,975,050.02	661.42	663.75	NA	NA	2	2.33	7.80	655.95	8.65	655.10
MW-9D	2,178,811.93	2,972,837.80	661.84	662.68	NA	NA	2	0.84	6.41	656.27	7.03	655.65
MW-9S	2,178,809.97	2,972,839.72	661.83	662.42	NA	NA	2	0.59	6.16	656.26	6.79	655.63
MW-10D	2,171,037.13	2,974,845.36	662.20	663.18	NA	NA	2	0.98	4.32	658.86	4.95	658.23
MW-10S	2,171,039.40	2,974,843.76	661.95	662.53	NA	NA	2	0.58	3.69	658.84	4.32	658.21
MW-11D	2,175,123.58	2,976,338.85	661.51	663.57	NA	NA	2	2.06	5.55	658.02	8.20	655.37
MW-11S	2,175,119.58	2,976,338.76	661.46	663.25	NA	NA	2	1.79	5.24	658.01	7.90	655.35
MW-12D	2,175,120.55	2,975,384.31	661.58	663.60	NA	NA	2	2.02	5.44	658.16	6.15	657.45
MW-12S	2,175,120.73	2,975,379.24	661.54	663.48	NA	NA	2	1.94	5.37	658.11	6.05	657.43
MW-13D	2,173,960.00	2,976,837.35	662.03	664.80	NA	NA	2	2.77	6.52	658.28	7.18	657.62
MW-13S	2,173,953.77	2,976,836.91	662.22	664.67	NA	NA	2	2.45	6.39	658.28	7.05	657.62
MW-14D	2,174,539.53	2,977,869.79	662.64	665.41	NA	NA	2	2.77	6.98	658.43	8.10	657.31
MW-14S	2,174,539.18	2,977,863.55	662.57	665.24	NA	NA	2	2.67	6.80	658.44	7.95	657.29
GAPIEZ07	2,174,443.92	2,973,071.62	665.15	668.77	5	15	2	3.62	10.82	657.95	11.10	657.67
SW-4	2,174,898.62	2,973,926.86	NA	658.63	-	-	-	-	-	-	0.60	658.03
SW-10	2,170,976.92	2,975,340.79	NA	660.45	-	-	-	-	1.89	658.56	1.90	658.55
Davis Ditch (West Gate @ Bridge)	2,173,623.30	2,967,604.35	NA	668.17	-	-	-	-	10.65	657.52	11.30	656.87
Davis Ditch (South of Site @ Culvert)	2,168,387.49	2,971,366.64	NA	662.83	-	-	-	-	1.85	660.98	1.42	661.41

Prepared by: TDH
Checked by: DFSC
Reviewed by: MAH

Notes:
Locations surveyed in US State Plane Indiana West Zone North American Datum of 1983 and North American Vertical Datum of 1988 (ft)
ft-bgs = feet below ground surface
ft-btoc = feet below top of casing
ft-NAVD88 = feet relative to NAVD88
NA = not available
≡ PVC pipe cut down in order to open well
(1) Top of pump encountered

ATTACHMENT B

April 2021 Contour Map



LEGEND

- Background Monitoring Well
- Downgradient Monitoring Well
- Non-CCR Well
- Surface Water Location
- April 2021 Groundwater Elevation Contour (0.5 ft interval)
- Slurry Wall
- Approximate Property Line
- CCR Units
- Inactive Retired Waste Disposal Basin
- Phase VII

0 1,100 2,200
1" = 1,100 feet Feet

FIGURE NARRATIVE
THIS FIGURE DEPICTS THE GROUNDWATER ELEVATION, AS MEASURED IN 77 MONITORING WELLS SCREENED WITHIN THE UPPER PORTION OF THE SURFICIAL AQUIFER, AND IS INTENDED TO REPRESENT THE APPROXIMATE ELEVATION OF THE GROUNDWATER POTENTIOMETRIC SURFACE. THE POSTED DATA WERE CALCULATED FROM DEPTH TO WATER MEASUREMENTS MADE BY GOLDER ON APRIL 8-9, 2021.

THE DIRECTION OF HORIZONTAL GROUNDWATER FLOW AT AND NEAR THE POTENTIOMETRIC SURFACE CAN BE GENERALLY INTERPRETED AS BEING PERPENDICULAR TO THE GROUNDWATER ELEVATION CONTOURS. GOLDER INFERRED THE ELEVATION CONTOURS BASED ON THE DATA ILLUSTRATED.

THE ACTUAL ELEVATION OF THE POTENTIOMETRIC SURFACE IS LIKELY MORE HETEROGENEOUS THAN SHOWN AND ACTUAL CONDITIONS WILL VARY. OTHER INTERPRETATIONS ARE POSSIBLE. THE DEPTH TO GROUNDWATER IS KNOWN TO VARY WITH TIME.

NOTE(S)
1. NS INDICATES LOCATION WAS NOT SAMPLED.
2. * INDICATES NOT USED IN CONTOURING

REFERENCE(S)
1. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRIID, IGN, AND THE GIS USER COMMUNITY

CLIENT

NORTHERN INDIANA PUBLIC SERVICE COMPANY LLC

PROJECT

R.M. SCHAHFER GENERATING STATION
WHEATFIELD, INDIANA

TITLE

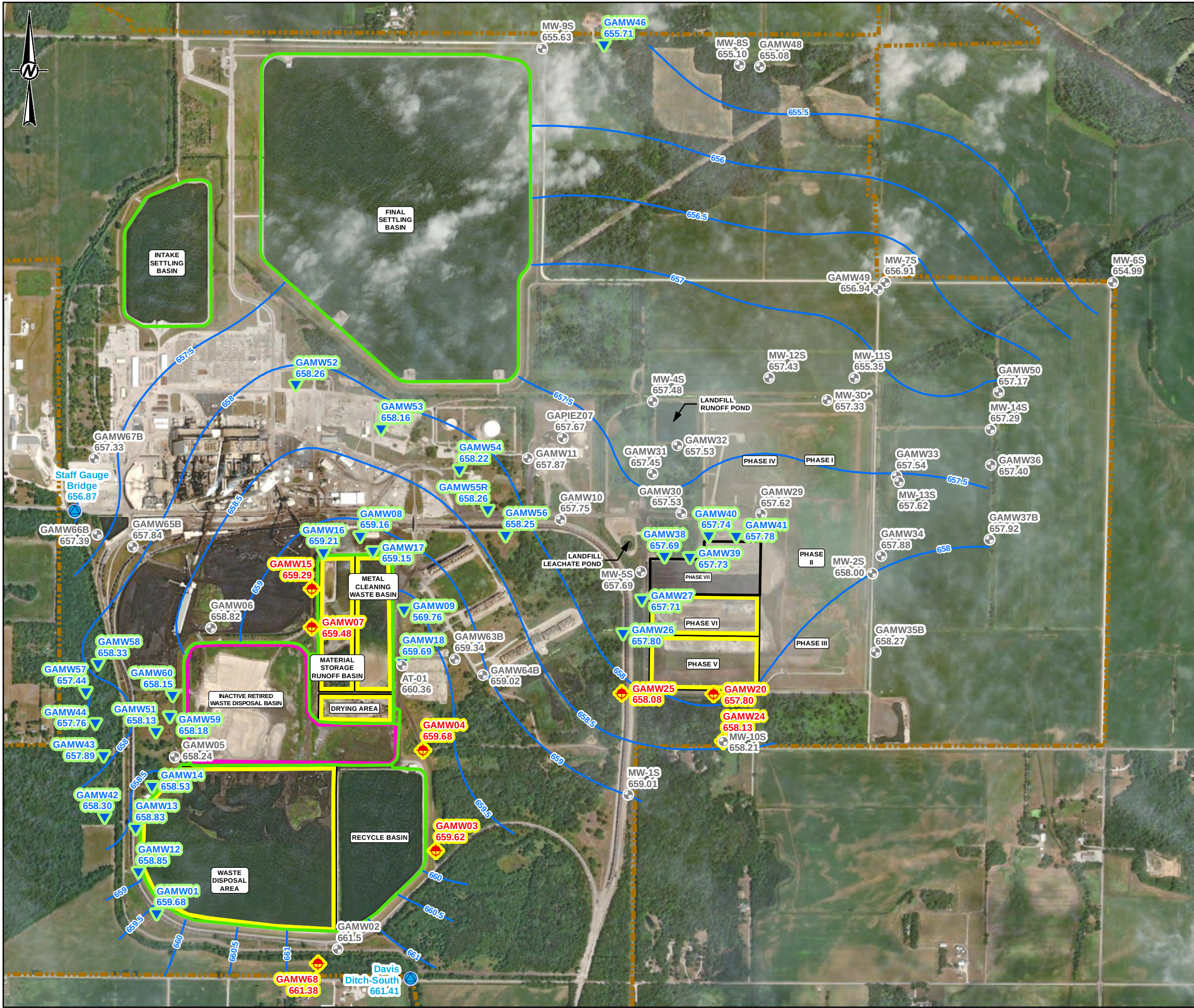
MONITORING WELL LOCATIONS AND GROUNDWATER ELEVATION CONTOURS (APRIL 2021)

CONSULTANT	YYYY-MM-DD	2022-02-25
	DESIGNED	DFS
	PREPARED	DTD
	REVIEWED	TDH
	APPROVED	MAH

PROJECT NO.	CONTROL	REV.	FIGURE
19121567	A	0	1

ATTACHMENT C

September 2021 Contour Map



LEGEND

- Background Monitoring Well
- Downgradient Monitoring Well
- Non-CCR Well
- Surface Water Location
- September 2021 Groundwater Elevation Contour (0.5 ft interval)
- Slurry Wall
- Approximate Property Line
- CCR Units
- Inactive Retired Waste Disposal Basin
- Phase VII

FIGURE NARRATIVE

THIS FIGURE DEPICTS THE GROUNDWATER ELEVATION, AS MEASURED IN 77 MONITORING WELLS SCREENED WITHIN THE UPPER PORTION OF THE SURFICIAL AQUIFER, AND IS INTENDED TO REPRESENT THE APPROXIMATE ELEVATION OF THE GROUNDWATER POTENTIOMETRIC SURFACE. THE POSTED DATA WERE CALCULATED FROM DEPTH TO WATER MEASUREMENTS MADE BY GOLDER ON SEPTEMBER 9, 2021.

THE DIRECTION OF HORIZONTAL GROUNDWATER FLOW AT AND NEAR THE POTENTIOMETRIC SURFACE CAN BE GENERALLY INTERPRETED AS BEING PERPENDICULAR TO THE GROUNDWATER ELEVATION CONTOURS. GOLDER INFERRED THE ELEVATION CONTOURS BASED ON THE DATA ILLUSTRATED.

THE ACTUAL ELEVATION OF THE POTENTIOMETRIC SURFACE IS LIKELY MORE HETEROGENEOUS THAN SHOWN AND ACTUAL CONDITIONS WILL VARY. OTHER INTERPRETATIONS ARE POSSIBLE. THE DEPTH TO GROUNDWATER IS KNOWN TO VARY WITH TIME.

NOTE(S)

1. NS INDICATES LOCATION WAS NOT SAMPLED.
2. * INDICATES NOT USED IN CONTOURING

REFERENCE(S)

1. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRIID, IGN, AND THE GIS USER COMMUNITY

CLIENT

NORTHERN INDIANA PUBLIC SERVICE COMPANY LLC

PROJECT

R.M. SCHAHFER GENERATING STATION
WHEATFIELD, INDIANA

TITLE

MONITORING WELL LOCATIONS AND GROUNDWATER ELEVATION CONTOURS (SEPTEMBER 2021)

CONSULTANT	YYYY-MM-DD	2022-02-25
	DESIGNED	DFS
	PREPARED	DTD
	REVIEWED	TDH
	APPROVED	MAH

PROJECT NO.	CONTROL	REV.	FIGURE
19121567	A	0	1

ATTACHMENT D

April 2021 Laboratory Analytical Reports

April 29, 2021

Mr. Jim Peace
Golder
670 North Commercial Street
Suite 103
Manchester, NH 03101

RE: Project: RMSGS-LF Detection Monitoring
Pace Project No.: 50284673

Dear Mr. Peace:

Enclosed are the analytical results for sample(s) received by the laboratory between April 13, 2021 and April 15, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Indianapolis

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

Sincerely,



Tina Sayer
tina.sayer@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Ms. Krysta Cione, Golder
Accounts Payable., NiSource
Ms. Danielle Sylvia, Golder



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50284673001	GAMW-20-041221	Water	04/12/21 10:35	04/13/21 09:00
50284673002	GAMW-24-041221	Water	04/12/21 16:03	04/13/21 09:00
50284673003	GAMW-25-041221	Water	04/12/21 13:35	04/13/21 09:00
50284673004	GAMW-25B-041221	Water	04/12/21 12:30	04/13/21 09:00
50284673005	GAMW-26-041221	Water	04/12/21 13:50	04/13/21 09:00
50284673006	GAMW-26B-041221	Water	04/12/21 12:46	04/13/21 09:00
50284673007	FD-01-041221	Water	04/12/21 12:00	04/13/21 09:00
50284673008	FB-01-041221	Water	04/12/21 14:05	04/13/21 09:00
50284793001	GAMW-24B-041321	Water	04/13/21 10:10	04/14/21 09:15
50284793002	GAMW-27-041321	Water	04/13/21 12:15	04/14/21 09:15
50284793003	GAMW-27B-041321	Water	04/13/21 13:05	04/14/21 09:15
50284793004	GAMW-38-041321	Water	04/13/21 14:25	04/14/21 09:15
50284793005	GAMW-38B-041321	Water	04/13/21 15:40	04/14/21 09:15
50284793006	GAMW-39-041321	Water	04/13/21 12:10	04/14/21 09:15
50284793007	GAMW-39B-041321	Water	04/13/21 09:48	04/14/21 09:15
50284793008	GAMW-41B-041321	Water	04/13/21 14:35	04/14/21 09:15
50284793009	FD-02-041321	Water	04/13/21 12:00	04/14/21 09:15
50284793010	FB-02-041321	Water	04/13/21 12:30	04/14/21 09:15
50284881001	GAMW-40-041421	Water	04/14/21 09:15	04/15/21 08:45
50284881002	GAMW-40B-041421	Water	04/14/21 09:55	04/15/21 08:45
50284881003	GAMW-41-041421	Water	04/14/21 12:45	04/15/21 08:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50284673001	GAMW-20-041221	EPA 9056	HBS	3	PASI-I
		EPA 6010	RAM	2	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
50284673002	GAMW-24-041221	EPA 9056	HBS	3	PASI-I
		EPA 6010	RAM	2	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
50284673003	GAMW-25-041221	EPA 9056	HBS	3	PASI-I
		EPA 6010	RAM	2	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
50284673004	GAMW-25B-041221	EPA 9056	HBS	3	PASI-I
		EPA 6010	RAM	2	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
50284673005	GAMW-26-041221	EPA 9056	HBS	3	PASI-I
		EPA 6010	RAM	2	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
50284673006	GAMW-26B-041221	EPA 9056	HBS	3	PASI-I
		EPA 6010	RAM	2	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
50284673007	FD-01-041221	EPA 9056	HBS	3	PASI-I
		EPA 6010	RAM	2	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
50284673008	FB-01-041221	EPA 9056	HBS	3	PASI-I
		EPA 6010	RAM	2	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
50284793001	GAMW-24B-041321	EPA 9056	RMR	3	PASI-I
		EPA 6010	RAM	2	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
50284793002	GAMW-27-041321	EPA 9056	RMR	3	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50284793003	GAMW-27B-041321	EPA 6010	RAM	2	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	RAM	2	PASI-I
50284793004	GAMW-38-041321	SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	RAM	2	PASI-I
		SM 2540C	WZE	1	PASI-I
50284793005	GAMW-38B-041321	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	RAM	2	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50284793006	GAMW-39-041321	EPA 9056	RMR	3	PASI-I
		EPA 6010	RAM	2	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
50284793007	GAMW-39B-041321	EPA 6010	RAM	2	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	RAM	2	PASI-I
50284793008	GAMW-41B-041321	SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	RAM	2	PASI-I
		SM 2540C	WZE	1	PASI-I
50284793009	FD-02-041321	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	RAM	2	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50284793010	FB-02-041321	EPA 9056	RMR	3	PASI-I
		EPA 6010	RAM	2	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
50284881001	GAMW-40-041421	EPA 6010	RAM	2	PASI-I
		EPA 9056	RMR	3	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50284881002	GAMW-40B-041421	SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	RAM	2	PASI-I
		SM 2540C	WZE	1	PASI-I
50284881003	GAMW-41-041421	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	RAM	2	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50284673001	GAMW-20-041221					
EPA 9056	Chloride	11.4	mg/L	0.25	04/23/21 03:26	
EPA 9056	Fluoride	0.19	mg/L	0.050	04/23/21 03:26	
EPA 9056	Sulfate	500	mg/L	25.0	04/26/21 08:18	
EPA 6010	Boron	2.8	mg/L	0.10	04/27/21 09:08	
EPA 6010	Calcium	164	mg/L	1.0	04/27/21 09:08	
SM 2540C	Total Dissolved Solids	1050	mg/L	20.0	04/16/21 17:23	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	04/15/21 10:27	H3
50284673002	GAMW-24-041221					
EPA 9056	Chloride	18.5	mg/L	5.0	04/23/21 05:14	
EPA 9056	Fluoride	0.083	mg/L	0.050	04/23/21 04:58	
EPA 9056	Sulfate	70.0	mg/L	5.0	04/23/21 05:14	
EPA 6010	Calcium	80.2	mg/L	1.0	04/27/21 09:10	
SM 2540C	Total Dissolved Solids	318	mg/L	10.0	04/16/21 17:23	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/15/21 11:15	H3
50284673003	GAMW-25-041221					
EPA 9056	Chloride	4.3	mg/L	0.25	04/23/21 05:29	
EPA 9056	Fluoride	1.1	mg/L	0.050	04/23/21 05:29	
EPA 9056	Sulfate	44.9	mg/L	5.0	04/23/21 06:16	
EPA 6010	Boron	0.17	mg/L	0.10	04/27/21 09:13	
EPA 6010	Calcium	76.4	mg/L	1.0	04/27/21 09:13	
SM 2540C	Total Dissolved Solids	288	mg/L	10.0	04/16/21 17:24	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/15/21 11:02	H3
50284673004	GAMW-25B-041221					
EPA 9056	Chloride	8.6	mg/L	0.25	04/23/21 07:33	
EPA 9056	Fluoride	0.18	mg/L	0.050	04/23/21 07:33	
EPA 9056	Sulfate	67.2	mg/L	5.0	04/23/21 07:48	
EPA 6010	Boron	0.13	mg/L	0.10	04/27/21 09:28	
EPA 6010	Calcium	94.2	mg/L	1.0	04/27/21 09:28	
SM 2540C	Total Dissolved Solids	377	mg/L	10.0	04/16/21 17:25	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	04/15/21 10:53	H3
50284673005	GAMW-26-041221					
EPA 9056	Chloride	11.5	mg/L	0.25	04/23/21 08:04	
EPA 9056	Fluoride	2.9	mg/L	0.050	04/23/21 08:04	
EPA 9056	Sulfate	55.2	mg/L	5.0	04/23/21 08:19	
EPA 6010	Boron	0.18	mg/L	0.10	04/27/21 09:30	
EPA 6010	Calcium	84.7	mg/L	1.0	04/27/21 09:30	
SM 2540C	Total Dissolved Solids	350	mg/L	10.0	04/16/21 17:25	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	04/15/21 11:09	H3
50284673006	GAMW-26B-041221					
EPA 9056	Chloride	14.6	mg/L	5.0	04/23/21 08:50	
EPA 9056	Fluoride	0.18	mg/L	0.050	04/23/21 08:34	
EPA 9056	Sulfate	86.6	mg/L	5.0	04/23/21 08:50	
EPA 6010	Boron	0.21	mg/L	0.10	04/27/21 09:32	
EPA 6010	Calcium	93.3	mg/L	1.0	04/27/21 09:32	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50284673006	GAMW-26B-041221					
SM 2540C	Total Dissolved Solids	437	mg/L	10.0	04/16/21 17:26	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	04/15/21 10:57	H3
50284673007	FD-01-041221					
EPA 9056	Chloride	8.7	mg/L	0.25	04/23/21 09:05	
EPA 9056	Fluoride	0.18	mg/L	0.050	04/23/21 09:05	
EPA 9056	Sulfate	67.2	mg/L	5.0	04/23/21 09:21	
EPA 6010	Boron	0.13	mg/L	0.10	04/27/21 09:34	
EPA 6010	Calcium	94.0	mg/L	1.0	04/27/21 09:34	
SM 2540C	Total Dissolved Solids	378	mg/L	10.0	04/16/21 17:26	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	04/15/21 10:40	H3
50284673008	FB-01-041221					
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/15/21 11:13	H3
50284793001	GAMW-24B-041321					
EPA 9056	Chloride	3.3	mg/L	0.25	04/27/21 04:04	
EPA 9056	Fluoride	0.12	mg/L	0.050	04/27/21 04:04	
EPA 9056	Sulfate	26.7	mg/L	2.5	04/29/21 09:43	
EPA 6010	Calcium	46.9	mg/L	1.0	04/27/21 09:39	
SM 2540C	Total Dissolved Solids	184	mg/L	10.0	04/17/21 23:30	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	04/15/21 11:20	H3
50284793002	GAMW-27-041321					
EPA 9056	Chloride	20.4	mg/L	2.5	04/27/21 04:48	
EPA 9056	Fluoride	0.63	mg/L	0.050	04/27/21 04:33	
EPA 9056	Sulfate	701	mg/L	25.0	04/28/21 20:53	
EPA 6010	Boron	4.1	mg/L	0.10	04/27/21 09:41	
EPA 6010	Calcium	279	mg/L	2.0	04/27/21 11:50	
SM 2540C	Total Dissolved Solids	1270	mg/L	20.0	04/17/21 23:31	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/15/21 11:22	H3
50284793003	GAMW-27B-041321					
EPA 9056	Chloride	408	mg/L	250	04/27/21 14:10	
EPA 9056	Sulfate	6190	mg/L	250	04/27/21 14:10	
EPA 6010	Boron	12.1	mg/L	0.10	04/27/21 09:43	
EPA 6010	Calcium	364	mg/L	2.0	04/27/21 11:52	
SM 2540C	Total Dissolved Solids	9980	mg/L	200	04/17/21 23:31	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	04/16/21 12:28	H3
50284793004	GAMW-38-041321					
EPA 9056	Chloride	4.7	mg/L	0.25	04/27/21 06:02	
EPA 9056	Fluoride	0.15	mg/L	0.050	04/27/21 06:02	
EPA 9056	Sulfate	211	mg/L	2.5	04/29/21 09:58	
EPA 6010	Boron	0.87	mg/L	0.10	04/27/21 09:50	
EPA 6010	Calcium	90.4	mg/L	1.0	04/27/21 09:50	
SM 2540C	Total Dissolved Solids	522	mg/L	10.0	04/17/21 23:31	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	04/16/21 12:31	H3

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50284793005	GAMW-38B-041321					
EPA 9056	Chloride	35.1	mg/L	2.5	04/27/21 06:46	
EPA 9056	Sulfate	687	mg/L	25.0	04/27/21 11:27	
EPA 6010	Boron	6.2	mg/L	0.10	04/27/21 09:52	
EPA 6010	Calcium	249	mg/L	2.0	04/27/21 11:54	
SM 2540C	Total Dissolved Solids	1400	mg/L	20.0	04/17/21 23:32	
SM 4500-H+B	pH at 25 Degrees C	6.8	Std. Units	0.10	04/16/21 12:31	H3
50284793006	GAMW-39-041321					
EPA 9056	Chloride	10.2	mg/L	0.25	04/27/21 07:01	
EPA 9056	Fluoride	0.14	mg/L	0.050	04/27/21 07:01	
EPA 9056	Sulfate	359	mg/L	25.0	04/27/21 11:42	
EPA 6010	Boron	1.1	mg/L	0.10	04/27/21 09:54	
EPA 6010	Calcium	173	mg/L	1.0	04/27/21 09:54	
SM 2540C	Total Dissolved Solids	816	mg/L	20.0	04/19/21 13:52	
SM 4500-H+B	pH at 25 Degrees C	6.9	Std. Units	0.10	04/16/21 12:32	H3
50284793007	GAMW-39B-041321					
EPA 9056	Chloride	61.9	mg/L	2.5	04/27/21 07:46	
EPA 9056	Sulfate	1140	mg/L	25.0	04/27/21 11:57	
EPA 6010	Boron	10.1	mg/L	0.10	04/27/21 09:57	
EPA 6010	Calcium	409	mg/L	5.0	04/27/21 11:56	
SM 2540C	Total Dissolved Solids	2230	mg/L	40.0	04/19/21 13:53	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	04/16/21 12:36	H3
50284793008	GAMW-41B-041321					
EPA 9056	Chloride	571	mg/L	250	04/27/21 13:10	
EPA 9056	Fluoride	0.79	mg/L	0.50	04/27/21 08:15	
EPA 9056	Sulfate	6320	mg/L	250	04/27/21 13:10	
EPA 6010	Boron	26.2	mg/L	0.10	04/27/21 09:59	
EPA 6010	Calcium	223	mg/L	2.0	04/27/21 12:03	
SM 2540C	Total Dissolved Solids	10500	mg/L	20.0	04/19/21 13:53	C0,PP
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	04/16/21 12:37	H3
50284793009	FD-02-041321					
EPA 9056	Chloride	20.9	mg/L	2.5	04/27/21 09:14	
EPA 9056	Fluoride	0.66	mg/L	0.050	04/27/21 08:59	
EPA 9056	Sulfate	693	mg/L	25.0	04/27/21 12:12	
EPA 6010	Boron	4.2	mg/L	0.10	04/27/21 10:01	
EPA 6010	Calcium	276	mg/L	2.0	04/27/21 12:05	
SM 2540C	Total Dissolved Solids	1250	mg/L	20.0	04/19/21 13:54	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	04/16/21 12:38	H3
50284793010	FB-02-041321					
SM 4500-H+B	pH at 25 Degrees C	6.1	Std. Units	0.10	04/16/21 12:46	H3
50284881001	GAMW-40-041421					
EPA 9056	Chloride	12.8	mg/L	2.5	04/28/21 01:15	
EPA 9056	Fluoride	0.067	mg/L	0.050	04/28/21 01:01	
EPA 9056	Sulfate	388	mg/L	25.0	04/28/21 01:30	
EPA 6010	Boron	2.8	mg/L	0.10	04/27/21 11:17	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50284881001	GAMW-40-041421					
EPA 6010	Calcium	273	mg/L	2.0	04/27/21 12:34	
SM 2540C	Total Dissolved Solids	1360	mg/L	20.0	04/20/21 15:20	
SM 4500-H+B	pH at 25 Degrees C	6.8	Std. Units	0.10	04/16/21 13:07	H3
50284881002	GAMW-40B-041421					
EPA 9056	Chloride	859	mg/L	25.0	04/28/21 02:14	
EPA 9056	Fluoride	0.79	mg/L	0.50	04/28/21 02:00	
EPA 9056	Sulfate	6420	mg/L	250	04/28/21 21:38	
EPA 6010	Boron	30.0	mg/L	0.10	04/27/21 11:20	
EPA 6010	Calcium	225	mg/L	2.0	04/27/21 12:36	
SM 2540C	Total Dissolved Solids	9860	mg/L	200	04/20/21 15:21	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	04/16/21 13:09	H3
50284881003	GAMW-41-041421					
EPA 9056	Chloride	119	mg/L	25.0	04/28/21 03:43	
EPA 9056	Fluoride	0.20	mg/L	0.050	04/28/21 03:14	
EPA 9056	Sulfate	2220	mg/L	25.0	04/28/21 03:43	
EPA 6010	Boron	10	mg/L	0.10	04/27/21 11:22	
EPA 6010	Calcium	123	mg/L	1.0	04/27/21 11:22	
SM 2540C	Total Dissolved Solids	3250	mg/L	40.0	04/20/21 15:21	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	04/16/21 13:12	H3

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Method: EPA 9056

Description: 9056 IC Anions

Client: NiSource_Golder

Date: April 29, 2021

General Information:

21 samples were analyzed for EPA 9056 by Pace Analytical Services Indianapolis. 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.

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.

Surrogates:

All surrogates 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:

Analyte Comments:

QC Batch: 617559

P8: Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

- MS (Lab ID: 2845523)
 - Sulfate
- MSD (Lab ID: 2845524)
 - Sulfate

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PROJECT NARRATIVE

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Method: EPA 6010

Description: 6010 MET ICP

Client: NiSource_Golder

Date: April 29, 2021

General Information:

21 samples were analyzed for EPA 6010 by Pace Analytical Services Indianapolis. 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 3010 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.

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: 615858

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50284881003

P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

- MSD (Lab ID: 2838125)
 - Boron
 - Calcium

Additional Comments:

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PROJECT NARRATIVE

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: NiSource_Golder

Date: April 29, 2021

General Information:

21 samples were analyzed for SM 2540C by Pace Analytical Services Indianapolis. 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:

Analyte Comments:

QC Batch: 615896

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

- FB-01-041221 (Lab ID: 50284673008)
- Total Dissolved Solids

QC Batch: 616209

C0: Result confirmed by second analysis.

- GAMW-41B-041321 (Lab ID: 50284793008)
- Total Dissolved Solids

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

- FB-02-041321 (Lab ID: 50284793010)
- Total Dissolved Solids

PP: The mass of dried residue obtained did not meet the test method requirements based on volume used.

- GAMW-41B-041321 (Lab ID: 50284793008)
- Total Dissolved Solids

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PROJECT NARRATIVE

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: NiSource_Golder

Date: April 29, 2021

General Information:

21 samples were analyzed for SM 4500-H+B by Pace Analytical Services Indianapolis. 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.

H3: Sample was received or analysis requested beyond the recognized method holding time.

- FB-01-041221 (Lab ID: 50284673008)
- FB-02-041321 (Lab ID: 50284793010)
- FD-01-041221 (Lab ID: 50284673007)
- FD-02-041321 (Lab ID: 50284793009)
- GAMW-20-041221 (Lab ID: 50284673001)
- GAMW-24-041221 (Lab ID: 50284673002)
- GAMW-24B-041321 (Lab ID: 50284793001)
- GAMW-25-041221 (Lab ID: 50284673003)
- GAMW-25B-041221 (Lab ID: 50284673004)
- GAMW-26-041221 (Lab ID: 50284673005)
- GAMW-26B-041221 (Lab ID: 50284673006)
- GAMW-27-041321 (Lab ID: 50284793002)
- GAMW-27B-041321 (Lab ID: 50284793003)
- GAMW-38-041321 (Lab ID: 50284793004)
- GAMW-38B-041321 (Lab ID: 50284793005)
- GAMW-39-041321 (Lab ID: 50284793006)
- GAMW-39B-041321 (Lab ID: 50284793007)
- GAMW-40-041421 (Lab ID: 50284881001)
- GAMW-40B-041421 (Lab ID: 50284881002)
- GAMW-41-041421 (Lab ID: 50284881003)
- GAMW-41B-041321 (Lab ID: 50284793008)

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: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: NiSource_Golder

Date: April 29, 2021

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

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ANALYTICAL RESULTS

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Sample: GAMW-20-041221		Lab ID: 50284673001		Collected: 04/12/21 10:35		Received: 04/13/21 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	11.4	mg/L	0.25	1		04/23/21 03:26	16887-00-6		
Fluoride	0.19	mg/L	0.050	1		04/23/21 03:26	16984-48-8		
Sulfate	500	mg/L	25.0	100		04/26/21 08:18	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	2.8	mg/L	0.10	1	04/21/21 06:15	04/27/21 09:08	7440-42-8		
Calcium	164	mg/L	1.0	1	04/21/21 06:15	04/27/21 09:08	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1050	mg/L	20.0	1		04/16/21 17:23			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.3	Std. Units	0.10	1		04/15/21 10:27		H3	

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ANALYTICAL RESULTS

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Sample: GAMW-24-041221		Lab ID: 50284673002		Collected: 04/12/21 16:03		Received: 04/13/21 09:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056							
		Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL							
		Pace Analytical Services - Indianapolis							
Chloride	18.5	mg/L	5.0	20		04/23/21 05:14	16887-00-6		
Fluoride	0.083	mg/L	0.050	1		04/23/21 04:58	16984-48-8		
Sulfate	70.0	mg/L	5.0	20		04/23/21 05:14	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
		Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL							
		Pace Analytical Services - Indianapolis							
Boron	ND	mg/L	0.10	1	04/21/21 06:15	04/27/21 09:10	7440-42-8		
Calcium	80.2	mg/L	1.0	1	04/21/21 06:15	04/27/21 09:10	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
		Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL							
		Pace Analytical Services - Indianapolis							
Total Dissolved Solids	318	mg/L	10.0	1		04/16/21 17:23			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
		Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	1		04/15/21 11:15			H3

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ANALYTICAL RESULTS

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Sample: GAMW-25-041221		Lab ID: 50284673003		Collected: 04/12/21 13:35		Received: 04/13/21 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	4.3	mg/L	0.25	1		04/23/21 05:29	16887-00-6		
Fluoride	1.1	mg/L	0.050	1		04/23/21 05:29	16984-48-8		
Sulfate	44.9	mg/L	5.0	20		04/23/21 06:16	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	0.17	mg/L	0.10	1	04/21/21 06:15	04/27/21 09:13	7440-42-8		
Calcium	76.4	mg/L	1.0	1	04/21/21 06:15	04/27/21 09:13	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	288	mg/L	10.0	1		04/16/21 17:24			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	1		04/15/21 11:02		H3	

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ANALYTICAL RESULTS

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Sample: GAMW-25B-041221		Lab ID: 50284673004		Collected: 04/12/21 12:30		Received: 04/13/21 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	8.6	mg/L	0.25	1		04/23/21 07:33	16887-00-6		
Fluoride	0.18	mg/L	0.050	1		04/23/21 07:33	16984-48-8		
Sulfate	67.2	mg/L	5.0	20		04/23/21 07:48	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	0.13	mg/L	0.10	1	04/21/21 06:15	04/27/21 09:28	7440-42-8		
Calcium	94.2	mg/L	1.0	1	04/21/21 06:15	04/27/21 09:28	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	377	mg/L	10.0	1		04/16/21 17:25			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.0	Std. Units	0.10	1		04/15/21 10:53		H3	

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ANALYTICAL RESULTS

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Sample: GAMW-26-041221		Lab ID: 50284673005		Collected: 04/12/21 13:50		Received: 04/13/21 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	11.5	mg/L	0.25	1		04/23/21 08:04	16887-00-6		
Fluoride	2.9	mg/L	0.050	1		04/23/21 08:04	16984-48-8		
Sulfate	55.2	mg/L	5.0	20		04/23/21 08:19	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	0.18	mg/L	0.10	1	04/21/21 06:15	04/27/21 09:30	7440-42-8		
Calcium	84.7	mg/L	1.0	1	04/21/21 06:15	04/27/21 09:30	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	350	mg/L	10.0	1		04/16/21 17:25			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.3	Std. Units	0.10	1		04/15/21 11:09		H3	

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ANALYTICAL RESULTS

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Sample: GAMW-26B-041221		Lab ID: 50284673006		Collected: 04/12/21 12:46		Received: 04/13/21 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	14.6	mg/L	5.0	20		04/23/21 08:50	16887-00-6		
Fluoride	0.18	mg/L	0.050	1		04/23/21 08:34	16984-48-8		
Sulfate	86.6	mg/L	5.0	20		04/23/21 08:50	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	0.21	mg/L	0.10	1	04/21/21 06:15	04/27/21 09:32	7440-42-8		
Calcium	93.3	mg/L	1.0	1	04/21/21 06:15	04/27/21 09:32	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	437	mg/L	10.0	1		04/16/21 17:26			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.5	Std. Units	0.10	1		04/15/21 10:57		H3	

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ANALYTICAL RESULTS

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Sample: FD-01-041221		Lab ID: 50284673007		Collected: 04/12/21 12:00		Received: 04/13/21 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	8.7	mg/L	0.25	1		04/23/21 09:05	16887-00-6		
Fluoride	0.18	mg/L	0.050	1		04/23/21 09:05	16984-48-8		
Sulfate	67.2	mg/L	5.0	20		04/23/21 09:21	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	0.13	mg/L	0.10	1	04/21/21 06:15	04/27/21 09:34	7440-42-8		
Calcium	94.0	mg/L	1.0	1	04/21/21 06:15	04/27/21 09:34	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	378	mg/L	10.0	1		04/16/21 17:26			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.1	Std. Units	0.10	1		04/15/21 10:40		H3	

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ANALYTICAL RESULTS

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Sample: FB-01-041221		Lab ID: 50284673008		Collected: 04/12/21 14:05		Received: 04/13/21 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions	Analytical Method: EPA 9056								
	Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL								
	Pace Analytical Services - Indianapolis								
	Chloride	ND	mg/L	0.25	1		04/23/21 09:36	16887-00-6	
Fluoride	ND	mg/L	0.050	1		04/23/21 09:36	16984-48-8		
Sulfate	ND	mg/L	0.25	1		04/23/21 09:36	14808-79-8		
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
	Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
	Pace Analytical Services - Indianapolis								
	Boron	ND	mg/L	0.10	1	04/21/21 06:15	04/27/21 09:37	7440-42-8	
Calcium	ND	mg/L	1.0	1	04/21/21 06:15	04/27/21 09:37	7440-70-2		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
	Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL								
	Pace Analytical Services - Indianapolis								
	Total Dissolved Solids	ND	mg/L	10.0	1		04/16/21 17:26		PL
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
	Pace Analytical Services - Indianapolis								
	pH at 25 Degrees C	7.4	Std. Units	0.10	1		04/15/21 11:13		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Sample: GAMW-24B-041321		Lab ID: 50284793001		Collected: 04/13/21 10:10		Received: 04/14/21 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	3.3	mg/L	0.25	1		04/27/21 04:04	16887-00-6		
Fluoride	0.12	mg/L	0.050	1		04/27/21 04:04	16984-48-8		
Sulfate	26.7	mg/L	2.5	10		04/29/21 09:43	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	ND	mg/L	0.10	1	04/21/21 06:15	04/27/21 09:39	7440-42-8		
Calcium	46.9	mg/L	1.0	1	04/21/21 06:15	04/27/21 09:39	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	184	mg/L	10.0	1		04/17/21 23:30			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.7	Std. Units	0.10	1		04/15/21 11:20		H3	

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ANALYTICAL RESULTS

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Sample: GAMW-27-041321		Lab ID: 50284793002		Collected: 04/13/21 12:15		Received: 04/14/21 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	20.4	mg/L	2.5	10		04/27/21 04:48	16887-00-6		
Fluoride	0.63	mg/L	0.050	1		04/27/21 04:33	16984-48-8		
Sulfate	701	mg/L	25.0	100		04/28/21 20:53	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	4.1	mg/L	0.10	1	04/21/21 06:15	04/27/21 09:41	7440-42-8		
Calcium	279	mg/L	2.0	2	04/21/21 06:15	04/27/21 11:50	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1270	mg/L	20.0	1		04/17/21 23:31			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	1		04/15/21 11:22		H3	

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ANALYTICAL RESULTS

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Sample: GAMW-27B-041321		Lab ID: 50284793003		Collected: 04/13/21 13:05		Received: 04/14/21 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	408	mg/L	250	1000		04/27/21 14:10	16887-00-6		
Fluoride	ND	mg/L	0.050	1		04/27/21 05:03	16984-48-8		
Sulfate	6190	mg/L	250	1000		04/27/21 14:10	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	12.1	mg/L	0.10	1	04/21/21 06:15	04/27/21 09:43	7440-42-8		
Calcium	364	mg/L	2.0	2	04/21/21 06:15	04/27/21 11:52	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 5 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	9980	mg/L	200	1		04/17/21 23:31			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.0	Std. Units	0.10	1		04/16/21 12:28		H3	

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ANALYTICAL RESULTS

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Sample: GAMW-38-041321		Lab ID: 50284793004		Collected: 04/13/21 14:25		Received: 04/14/21 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	4.7	mg/L	0.25	1		04/27/21 06:02	16887-00-6		
Fluoride	0.15	mg/L	0.050	1		04/27/21 06:02	16984-48-8		
Sulfate	211	mg/L	2.5	10		04/29/21 09:58	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	0.87	mg/L	0.10	1	04/21/21 06:15	04/27/21 09:50	7440-42-8		
Calcium	90.4	mg/L	1.0	1	04/21/21 06:15	04/27/21 09:50	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	522	mg/L	10.0	1		04/17/21 23:31			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.1	Std. Units	0.10	1		04/16/21 12:31		H3	

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ANALYTICAL RESULTS

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Sample: GAMW-38B-041321		Lab ID: 50284793005		Collected: 04/13/21 15:40		Received: 04/14/21 09:15		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	35.1	mg/L	2.5	10		04/27/21 06:46	16887-00-6		
Fluoride	ND	mg/L	0.050	1		04/27/21 06:32	16984-48-8		
Sulfate	687	mg/L	25.0	100		04/27/21 11:27	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	6.2	mg/L	0.10	1	04/21/21 06:15	04/27/21 09:52	7440-42-8		
Calcium	249	mg/L	2.0	2	04/21/21 06:15	04/27/21 11:54	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1400	mg/L	20.0	1		04/17/21 23:32			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.8	Std. Units	0.10	1		04/16/21 12:31			H3

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ANALYTICAL RESULTS

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Sample: GAMW-39-041321		Lab ID: 50284793006		Collected: 04/13/21 12:10		Received: 04/14/21 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	10.2	mg/L	0.25	1		04/27/21 07:01	16887-00-6		
Fluoride	0.14	mg/L	0.050	1		04/27/21 07:01	16984-48-8		
Sulfate	359	mg/L	25.0	100		04/27/21 11:42	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	1.1	mg/L	0.10	1	04/21/21 06:15	04/27/21 09:54	7440-42-8		
Calcium	173	mg/L	1.0	1	04/21/21 06:15	04/27/21 09:54	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	816	mg/L	20.0	1		04/19/21 13:52			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.9	Std. Units	0.10	1		04/16/21 12:32		H3	

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ANALYTICAL RESULTS

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Sample: GAMW-39B-041321		Lab ID: 50284793007		Collected: 04/13/21 09:48		Received: 04/14/21 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	61.9	mg/L	2.5	10		04/27/21 07:46	16887-00-6		
Fluoride	ND	mg/L	0.050	1		04/27/21 07:31	16984-48-8		
Sulfate	1140	mg/L	25.0	100		04/27/21 11:57	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	10.1	mg/L	0.10	1	04/21/21 06:15	04/27/21 09:57	7440-42-8		
Calcium	409	mg/L	5.0	5	04/21/21 06:15	04/27/21 11:56	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	2230	mg/L	40.0	1		04/19/21 13:53			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.2	Std. Units	0.10	1		04/16/21 12:36		H3	

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ANALYTICAL RESULTS

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Sample: GAMW-41B-041321		Lab ID: 50284793008	Collected: 04/13/21 14:35	Received: 04/14/21 09:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis						
Chloride	571	mg/L	250	1000		04/27/21 13:10	16887-00-6	
Fluoride	0.79	mg/L	0.50	10		04/27/21 08:15	16984-48-8	
Sulfate	6320	mg/L	250	1000		04/27/21 13:10	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis						
Boron	26.2	mg/L	0.10	1	04/21/21 06:15	04/27/21 09:59	7440-42-8	
Calcium	223	mg/L	2.0	2	04/21/21 06:15	04/27/21 12:03	7440-70-2	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis						
Total Dissolved Solids	10500	mg/L	20.0	1		04/19/21 13:53		C0,PP
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.7	Std. Units	0.10	1		04/16/21 12:37		H3

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ANALYTICAL RESULTS

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Sample: FD-02-041321		Lab ID: 50284793009		Collected: 04/13/21 12:00		Received: 04/14/21 09:15		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	20.9	mg/L	2.5	10		04/27/21 09:14	16887-00-6		
Fluoride	0.66	mg/L	0.050	1		04/27/21 08:59	16984-48-8		
Sulfate	693	mg/L	25.0	100		04/27/21 12:12	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	4.2	mg/L	0.10	1	04/21/21 06:15	04/27/21 10:01	7440-42-8		
Calcium	276	mg/L	2.0	2	04/21/21 06:15	04/27/21 12:05	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1250	mg/L	20.0	1		04/19/21 13:54			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.5	Std. Units	0.10	1		04/16/21 12:38			H3

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ANALYTICAL RESULTS

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Sample: FB-02-041321		Lab ID: 50284793010		Collected: 04/13/21 12:30		Received: 04/14/21 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056							
		Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL							
		Pace Analytical Services - Indianapolis							
Chloride	ND	mg/L	0.25	1		04/27/21 14:24	16887-00-6		
Fluoride	ND	mg/L	0.050	1		04/27/21 14:24	16984-48-8		
Sulfate	ND	mg/L	0.25	1		04/27/21 14:24	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
		Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL							
		Pace Analytical Services - Indianapolis							
Boron	ND	mg/L	0.10	1	04/21/21 06:15	04/27/21 10:03	7440-42-8		
Calcium	ND	mg/L	1.0	1	04/21/21 06:15	04/27/21 10:03	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
		Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL							
		Pace Analytical Services - Indianapolis							
Total Dissolved Solids	ND	mg/L	10.0	1		04/19/21 13:54		PL	
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
		Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.1	Std. Units	0.10	1		04/16/21 12:46		H3	

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ANALYTICAL RESULTS

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Sample: GAMW-40-041421		Lab ID: 50284881001		Collected: 04/14/21 09:15		Received: 04/15/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	12.8	mg/L	2.5	10		04/28/21 01:15	16887-00-6		
Fluoride	0.067	mg/L	0.050	1		04/28/21 01:01	16984-48-8		
Sulfate	388	mg/L	25.0	100		04/28/21 01:30	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	2.8	mg/L	0.10	1	04/22/21 06:20	04/27/21 11:17	7440-42-8		
Calcium	273	mg/L	2.0	2	04/22/21 06:20	04/27/21 12:34	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1360	mg/L	20.0	1		04/20/21 15:20			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.8	Std. Units	0.10	1		04/16/21 13:07		H3	

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ANALYTICAL RESULTS

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Sample: GAMW-40B-041421		Lab ID: 50284881002		Collected: 04/14/21 09:55		Received: 04/15/21 08:45		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	859	mg/L	25.0	100		04/28/21 02:14	16887-00-6		
Fluoride	0.79	mg/L	0.50	10		04/28/21 02:00	16984-48-8		
Sulfate	6420	mg/L	250	1000		04/28/21 21:38	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	30.0	mg/L	0.10	1	04/22/21 06:20	04/27/21 11:20	7440-42-8		
Calcium	225	mg/L	2.0	2	04/22/21 06:20	04/27/21 12:36	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 5 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	9860	mg/L	200	1		04/20/21 15:21			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	1		04/16/21 13:09			H3

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ANALYTICAL RESULTS

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Sample: GAMW-41-041421		Lab ID: 50284881003		Collected: 04/14/21 12:45		Received: 04/15/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	119	mg/L	25.0	100		04/28/21 03:43	16887-00-6		
Fluoride	0.20	mg/L	0.050	1		04/28/21 03:14	16984-48-8		
Sulfate	2220	mg/L	25.0	100		04/28/21 03:43	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	10	mg/L	0.10	1	04/22/21 06:20	04/27/21 11:22	7440-42-8		
Calcium	123	mg/L	1.0	1	04/22/21 06:20	04/27/21 11:22	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	3250	mg/L	40.0	1		04/20/21 15:21			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.2	Std. Units	0.10	1		04/16/21 13:12		H3	

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QUALITY CONTROL DATA

Project: RMSGS-LF Detection Monitoring
Pace Project No.: 50284673

QC Batch:	616883	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50284673001

METHOD BLANK: 2842699 Matrix: Water
Associated Lab Samples: 50284673001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	04/22/21 11:57	
Fluoride	mg/L	ND	0.050	04/22/21 11:57	
Sulfate	mg/L	ND	0.25	04/22/21 11:57	

LABORATORY CONTROL SAMPLE: 2842700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	98	80-120	
Fluoride	mg/L	0.5	0.50	99	80-120	
Sulfate	mg/L	2.5	2.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2842701 2842702

Parameter	Units	50284604003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	24.0	12.5	12.5	37.6	37.6	109	109	80-120	0	15	
Fluoride	mg/L	0.22	0.5	0.5	0.72	0.74	101	105	80-120	2	15	
Sulfate	mg/L	920	250	250	1220	1220	120	120	80-120	0	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

QC Batch:	616905	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50284673002, 50284673003, 50284673004, 50284673005, 50284673006, 50284673007, 50284673008		

METHOD BLANK: 2842826 Matrix: Water
Associated Lab Samples: 50284673002, 50284673003, 50284673004, 50284673005, 50284673006, 50284673007, 50284673008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	04/23/21 04:28	
Fluoride	mg/L	ND	0.050	04/23/21 04:28	
Sulfate	mg/L	ND	0.25	04/23/21 04:28	

LABORATORY CONTROL SAMPLE: 2842827

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	98	80-120	
Fluoride	mg/L	0.5	0.52	105	80-120	
Sulfate	mg/L	2.5	2.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2842828 2842829

Parameter	Units	50284673003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.3	1.2	1.2	5.6	5.6	98	98	80-120	0	15	
Fluoride	mg/L	1.1	0.5	0.5	1.7	1.7	108	108	80-120	0	15	
Sulfate	mg/L	44.9	50	50	94.0	94.4	98	99	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

QC Batch:	617333	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50284793001, 50284793002, 50284793003, 50284793004, 50284793005, 50284793006, 50284793007, 50284793008, 50284793009, 50284793010		

METHOD BLANK: 2844890

Matrix: Water

Associated Lab Samples: 50284793001, 50284793002, 50284793003, 50284793004, 50284793005, 50284793006, 50284793007, 50284793008, 50284793009, 50284793010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	04/26/21 21:10	
Fluoride	mg/L	ND	0.050	04/26/21 21:10	
Sulfate	mg/L	ND	0.25	04/26/21 21:10	

LABORATORY CONTROL SAMPLE: 2844891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	92	80-120	
Fluoride	mg/L	0.5	0.51	103	80-120	
Sulfate	mg/L	2.5	2.4	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2844892 2844893

Parameter	Units	50284750003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	37.2	12.5	12.5	52.1	51.8	119	117	80-120	1	15	
Fluoride	mg/L	1.3	0.5	0.5	1.8	1.8	97	103	80-120	2	15	
Sulfate	mg/L	296	250	250	537	537	97	97	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

QC Batch:	617559	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50284881001, 50284881002, 50284881003		

METHOD BLANK: 2845517 Matrix: Water

Associated Lab Samples: 50284881001, 50284881002, 50284881003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	04/27/21 15:24	
Fluoride	mg/L	ND	0.050	04/27/21 15:24	
Sulfate	mg/L	ND	0.25	04/27/21 15:24	

LABORATORY CONTROL SAMPLE: 2845518

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	93	80-120	
Fluoride	mg/L	0.5	0.49	98	80-120	
Sulfate	mg/L	2.5	2.4	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2845523 2845524

Parameter	Units	50284865001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	42.3	12.5	12.5	56.3	56.2	112	111	80-120	0	15	
Fluoride	mg/L	1.1	0.5	0.5	1.6	1.6	96	96	80-120	0	15	
Sulfate	mg/L	76.5	25	25	103	103	105	104	80-120	0	15	P8

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QUALITY CONTROL DATA

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

QC Batch:	615605	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50284673001, 50284673002, 50284673003, 50284673004, 50284673005, 50284673006, 50284673007, 50284673008, 50284793001, 50284793002, 50284793003, 50284793004, 50284793005, 50284793006, 50284793007, 50284793008, 50284793009, 50284793010		

METHOD BLANK:	2836823	Matrix:	Water
Associated Lab Samples:	50284673001, 50284673002, 50284673003, 50284673004, 50284673005, 50284673006, 50284673007, 50284673008, 50284793001, 50284793002, 50284793003, 50284793004, 50284793005, 50284793006, 50284793007, 50284793008, 50284793009, 50284793010		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	04/27/21 09:04	
Calcium	mg/L	ND	1.0	04/27/21 09:04	

LABORATORY CONTROL SAMPLE: 2836824

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.99	99	80-120	
Calcium	mg/L	10	10.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			2836825	2836826								
Parameter	Units	50284673003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.17	1	1	1.2	1.2	104	100	75-125	3	20	
Calcium	mg/L	76.4	10	10	88.7	86.3	123	99	75-125	3	20	

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QUALITY CONTROL DATA

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

QC Batch:	615858	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50284881001, 50284881002, 50284881003		

METHOD BLANK: 2838122 Matrix: Water

Associated Lab Samples: 50284881001, 50284881002, 50284881003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	04/27/21 11:14	
Calcium	mg/L	ND	1.0	04/27/21 11:14	

LABORATORY CONTROL SAMPLE: 2838123

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.99	99	80-120	
Calcium	mg/L	10	9.9	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2838124 2838125

Parameter	Units	50284881003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	10	1	1	10.9	11.3	92	137	75-125	4	20	P6
Calcium	mg/L	123	10	10	131	136	86	136	75-125	4	20	P6

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QUALITY CONTROL DATA

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

QC Batch:	615896	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50284673001, 50284673002, 50284673003, 50284673004, 50284673005, 50284673006, 50284673007, 50284673008		

METHOD BLANK:	2838262	Matrix:	Water
Associated Lab Samples:	50284673001, 50284673002, 50284673003, 50284673004, 50284673005, 50284673006, 50284673007, 50284673008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	04/16/21 17:16	

LABORATORY CONTROL SAMPLE: 2838263						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	271	90	80-120	

SAMPLE DUPLICATE: 2838264						
Parameter	Units	50284594002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	457	458	0	10	

SAMPLE DUPLICATE: 2838265						
		50284673003	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Total Dissolved Solids	mg/L	288	284	1	10	

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QUALITY CONTROL DATA

Project: RMSGS-LF Detection Monitoring
Pace Project No.: 50284673

QC Batch: 616080 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50284793001, 50284793002, 50284793003, 50284793004, 50284793005

METHOD BLANK: 2839499 Matrix: Water
Associated Lab Samples: 50284793001, 50284793002, 50284793003, 50284793004, 50284793005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	04/17/21 23:22	

LABORATORY CONTROL SAMPLE: 2839501

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	259	86	80-120	

SAMPLE DUPLICATE: 2839500

Parameter	Units	50284739005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	386	372	4	10	

SAMPLE DUPLICATE: 2839502

Parameter	Units	50284740001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	14200000 ug/L	14700	4	10	

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QUALITY CONTROL DATA

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

QC Batch:	616209	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50284793006, 50284793007, 50284793008, 50284793009, 50284793010		

METHOD BLANK: 2839872 Matrix: Water
Associated Lab Samples: 50284793006, 50284793007, 50284793008, 50284793009, 50284793010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	04/19/21 13:51	

LABORATORY CONTROL SAMPLE: 2839873

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	276	92	80-120	

SAMPLE DUPLICATE: 2839874

Parameter	Units	50284793006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	816	824	1	10	

SAMPLE DUPLICATE: 2839875

Parameter	Units	50284822005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	182	184	1	10	

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QUALITY CONTROL DATA

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

QC Batch:	616362	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50284881001, 50284881002, 50284881003		

METHOD BLANK: 2840433 Matrix: Water

Associated Lab Samples: 50284881001, 50284881002, 50284881003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	04/20/21 12:42	

LABORATORY CONTROL SAMPLE: 2840434

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	272	91	80-120	

SAMPLE DUPLICATE: 2840435

Parameter	Units	50284863004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2340	2280	2	10	

SAMPLE DUPLICATE: 2840436

Parameter	Units	50284928010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	230	231	0	10	

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QUALITY CONTROL DATA

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

QC Batch:	615687	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50284673001, 50284673002, 50284673003, 50284673004, 50284673005, 50284673006, 50284673007, 50284673008, 50284793001, 50284793002		

SAMPLE DUPLICATE: 2837062

Parameter	Units	50284673003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.4	1	2	H3

SAMPLE DUPLICATE: 2837063

Parameter	Units	50284820001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.7	0	2	H3

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QUALITY CONTROL DATA

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

QC Batch:	615943	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50284793003, 50284793004, 50284793005, 50284793006, 50284793007, 50284793008, 50284793009, 50284793010, 50284881001, 50284881002, 50284881003		

SAMPLE DUPLICATE: 2838538

Parameter	Units	50284793003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.0	7.0	0	2	H3

SAMPLE DUPLICATE: 2838539

Parameter	Units	50284873001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.3	1	2	H3

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QUALIFIERS

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

C0 Result confirmed by second analysis.

H3 Sample was received or analysis requested beyond the recognized method holding time.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

P8 Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

PL The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

PP The mass of dried residue obtained did not meet the test method requirements based on volume used.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50284673001	GAMW-20-041221	EPA 9056	616883		
50284673002	GAMW-24-041221	EPA 9056	616905		
50284673003	GAMW-25-041221	EPA 9056	616905		
50284673004	GAMW-25B-041221	EPA 9056	616905		
50284673005	GAMW-26-041221	EPA 9056	616905		
50284673006	GAMW-26B-041221	EPA 9056	616905		
50284673007	FD-01-041221	EPA 9056	616905		
50284673008	FB-01-041221	EPA 9056	616905		
50284793001	GAMW-24B-041321	EPA 9056	617333		
50284793002	GAMW-27-041321	EPA 9056	617333		
50284793003	GAMW-27B-041321	EPA 9056	617333		
50284793004	GAMW-38-041321	EPA 9056	617333		
50284793005	GAMW-38B-041321	EPA 9056	617333		
50284793006	GAMW-39-041321	EPA 9056	617333		
50284793007	GAMW-39B-041321	EPA 9056	617333		
50284793008	GAMW-41B-041321	EPA 9056	617333		
50284793009	FD-02-041321	EPA 9056	617333		
50284793010	FB-02-041321	EPA 9056	617333		
50284881001	GAMW-40-041421	EPA 9056	617559		
50284881002	GAMW-40B-041421	EPA 9056	617559		
50284881003	GAMW-41-041421	EPA 9056	617559		
50284673001	GAMW-20-041221	EPA 3010	615605	EPA 6010	617508
50284673002	GAMW-24-041221	EPA 3010	615605	EPA 6010	617508
50284673003	GAMW-25-041221	EPA 3010	615605	EPA 6010	617508
50284673004	GAMW-25B-041221	EPA 3010	615605	EPA 6010	617508
50284673005	GAMW-26-041221	EPA 3010	615605	EPA 6010	617508
50284673006	GAMW-26B-041221	EPA 3010	615605	EPA 6010	617508
50284673007	FD-01-041221	EPA 3010	615605	EPA 6010	617508
50284673008	FB-01-041221	EPA 3010	615605	EPA 6010	617508
50284793001	GAMW-24B-041321	EPA 3010	615605	EPA 6010	617508
50284793002	GAMW-27-041321	EPA 3010	615605	EPA 6010	617508
50284793003	GAMW-27B-041321	EPA 3010	615605	EPA 6010	617508
50284793004	GAMW-38-041321	EPA 3010	615605	EPA 6010	617508
50284793005	GAMW-38B-041321	EPA 3010	615605	EPA 6010	617508
50284793006	GAMW-39-041321	EPA 3010	615605	EPA 6010	617508
50284793007	GAMW-39B-041321	EPA 3010	615605	EPA 6010	617508
50284793008	GAMW-41B-041321	EPA 3010	615605	EPA 6010	617508
50284793009	FD-02-041321	EPA 3010	615605	EPA 6010	617508
50284793010	FB-02-041321	EPA 3010	615605	EPA 6010	617508
50284881001	GAMW-40-041421	EPA 3010	615858	EPA 6010	617522
50284881002	GAMW-40B-041421	EPA 3010	615858	EPA 6010	617522
50284881003	GAMW-41-041421	EPA 3010	615858	EPA 6010	617522
50284673001	GAMW-20-041221	SM 2540C	615896		
50284673002	GAMW-24-041221	SM 2540C	615896		
50284673003	GAMW-25-041221	SM 2540C	615896		
50284673004	GAMW-25B-041221	SM 2540C	615896		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS-LF Detection Monitoring

Pace Project No.: 50284673

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50284673005	GAMW-26-041221	SM 2540C	615896		
50284673006	GAMW-26B-041221	SM 2540C	615896		
50284673007	FD-01-041221	SM 2540C	615896		
50284673008	FB-01-041221	SM 2540C	615896		
50284793001	GAMW-24B-041321	SM 2540C	616080		
50284793002	GAMW-27-041321	SM 2540C	616080		
50284793003	GAMW-27B-041321	SM 2540C	616080		
50284793004	GAMW-38-041321	SM 2540C	616080		
50284793005	GAMW-38B-041321	SM 2540C	616080		
50284793006	GAMW-39-041321	SM 2540C	616209		
50284793007	GAMW-39B-041321	SM 2540C	616209		
50284793008	GAMW-41B-041321	SM 2540C	616209		
50284793009	FD-02-041321	SM 2540C	616209		
50284793010	FB-02-041321	SM 2540C	616209		
50284881001	GAMW-40-041421	SM 2540C	616362		
50284881002	GAMW-40B-041421	SM 2540C	616362		
50284881003	GAMW-41-041421	SM 2540C	616362		
50284673001	GAMW-20-041221	SM 4500-H+B	615687		
50284673002	GAMW-24-041221	SM 4500-H+B	615687		
50284673003	GAMW-25-041221	SM 4500-H+B	615687		
50284673004	GAMW-25B-041221	SM 4500-H+B	615687		
50284673005	GAMW-26-041221	SM 4500-H+B	615687		
50284673006	GAMW-26B-041221	SM 4500-H+B	615687		
50284673007	FD-01-041221	SM 4500-H+B	615687		
50284673008	FB-01-041221	SM 4500-H+B	615687		
50284793001	GAMW-24B-041321	SM 4500-H+B	615687		
50284793002	GAMW-27-041321	SM 4500-H+B	615687		
50284793003	GAMW-27B-041321	SM 4500-H+B	615943		
50284793004	GAMW-38-041321	SM 4500-H+B	615943		
50284793005	GAMW-38B-041321	SM 4500-H+B	615943		
50284793006	GAMW-39-041321	SM 4500-H+B	615943		
50284793007	GAMW-39B-041321	SM 4500-H+B	615943		
50284793008	GAMW-41B-041321	SM 4500-H+B	615943		
50284793009	FD-02-041321	SM 4500-H+B	615943		
50284793010	FB-02-041321	SM 4500-H+B	615943		
50284881001	GAMW-40-041421	SM 4500-H+B	615943		
50284881002	GAMW-40B-041421	SM 4500-H+B	615943		
50284881003	GAMW-41-041421	SM 4500-H+B	615943		

REPORT OF LABORATORY ANALYSIS

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WO#: 50284673



50284673

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:

Company: NiSource Golder	Report To: Jim Peace
Address: 670 North Commercial Street Suite 103	Copy To: krysta_cione@golder.com
Manchester, NH 03101	danielle_sylvia@golder.com
Email: jim_peace@golder.com	Purchase Order #: 12747
Phone: Fax:	Project Name: RMSGS - Landfill Detection Monitoring
Requested Due Date: standard	Project #: 19121567

Section C

Invoice Information:

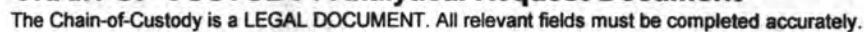
Attention: Jeff Loewe- U126177
Company Name: NIPSCO LLC
Address:
Pace Quote:
Pace Project Manager: tina.sayer@pacelabs.com
Pace Profile #: 9045

Page: 1 of 2

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analyses Test	Residual Chlorine (Y/N)		
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other						
						DATE	TIME	DATE	TIME																
1	GAMW-20 -041221	WT			4/12/21	1035	3	2	1										X	X	X	X			001
2	GAMW-24 -041221	WT				1603	3	2	1										X	X	X	X			002
3	GAMW-24B -041221	WT					3	2	1										X	X	X	X			003
4	GAMW-25 -041221	WT				1335	3	2	1										X	X	X	X			004
5	GAMW-25B -041221	WT				1230	3	2	1										X	X	X	X			005
6	GAMW-26 -041221	WT				1350	3	2	1										X	X	X	X			006
7	GAMW-26B -041221	WT				1246	3	2	1										X	X	X	X			007
8	GAMW-27 KB	WT																							
9	GAMW-27B KB	WT																							
10	GAMW-38 KB	WT																							
11	GAMW-38B KB	WT																							
12	GAMW-66 KB	WT																							

ADDITIONAL COMMENTS	RECEIVED BY / APPLICATION	DATE	TIME	RECEIVED BY / APPLICATION	DATE	TIME	SAMPLED BY
Level II report	Katherine Bartels / Golder	4/12/21	1800	FedEx			
	FedEx			agm	4/13/21	0900	0.3 Y Y Y

SAMPLER NAME AND SIGNATURE	TEMP in C	Received on	Sealed	Custody	Cooper	Y/N	Samples	Intact	Y/N
PRINT Name of SAMPLER: Katherine Bartels									
SIGNATURE of SAMPLER: <i>[Signature]</i>	DATE Signed: 4/12/21								



Page : 2 Of 2

SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: <i>Katherine Bantels</i> SIGNATURE of SAMPLER: <i>[Signature]</i>		DATE Signed: <i>4/12/21</i>	TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooker Cooler (Y/N)	Samples Intact (Y/N)	(Y/N)



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: QJR 4/13/21 1340

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER _____

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: 0.3/0.3

Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☐ Bubble Wrap ☐ Bubble Bags

☒ None ☐ Other _____

6. Ice Type: ☒ Wet ☐ Blue ☐ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis:		☒	Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	☒		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			<u>Present</u>	<u>Absent</u>	<u>N/A</u>
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			☒
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Custody Signatures Present?	☒		Headspace Wisconsin Sulfide?			☒
	☒		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Containers Intact?:	☒					☒
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Trip Blank Present?		☒	
Extra labels on Terracore Vials? (soils only)		☒	Trip Blank Custody Seals?:			☒

COMMENTS:

[illegible]

Container Codes

Glass			Plastic / Misc.		
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass
DG9H	40mL HCl amber vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic
WGFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass		

BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Ac plastic

AF	Air Filter
C	Air Cassettes
R	Terra core kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

WT	Water
SL	Solid
NAL	Non-aqueous liquid
WP	Wipe

Sample Container Count

Sample Line Item	WG <u>FU</u>	SBS DI BK Kit	R	DG9H VG9H	VOA VIAL HS (≥8mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

WT ✓

WT ✓

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac		
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic		
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic		
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic		
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic		
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic		
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic		
WGUFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
JGUFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)		
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass				

AF	Air Filter
C	Air Cassettes
R	Terra core kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

WT	Water
SL	Solid
NAL	Non-aqueous liquid
WP	Wipe



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www.faceanalytical.com



The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Invoice Information:

Attention: Jeff Loewe- U126177
Company Name: NIPSCO LLC
Address:
Pace Quote:
Pace Project Manager: tina.sayer@pacelabs.com,
Pace Profile #: 9045

SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: <u>Natharine Bartels</u> SIGNATURE of SAMPLER: <u>[Signature]</u>		DATE Signed: <u>4/3/21</u>	TEMP IN C	Received on Ice (Y/N)	Custody Sealed Cooper (Y/N)	Samples Intact (Y/N)



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:

Company: NiSource_Golder
Address: 670 North Commercial Street Suite 103
Manchester, NH 03101
Email: jim_peace@golder.com
Phone: Fax:
Requested Due Date: standard

Section B

Required Project Information:

Report To: Jim Peace
Copy To: krysta_cione@golder.com,
danielle_sylvia@golder.com
Purchase Order #: 12747
Project Name: RMSGS - Landfill Detection Monitoring
Project #: 19121567

Section C

Invoice Information:

Attention: Jeff Loewe- U126177
Company Name: NIPSCO LLC
Address:
Pace Quote:
Pace Project Manager: tina.sayer@pacelabs.com,
Pace Profile #: 9045

Page: 2 Of 2

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Vials	Regulated Analytes (EPA 1231)										Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Total B,Ca by 8010	Cl,F,SO4 by 9056		TDS	pH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

ADDITIONAL COMMENTS		RECEIVED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE ID	
Level II report		Katherine Bartels/Golder		4/13/21	1705	FedEx					
		FedEx		4-14-21	9:15	Bailey		4-14-21	9:15	See page 1	

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:					
Katherine Bartels					
DATE Signed: 4/13/21					



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: BC 12:42 4-14-21

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER _____

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: 0.6 / 0.7
Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☐ Bubble Wrap ☐ Bubble Bags
☒ None ☐ Other _____

6. Ice Type: ☒ Wet ☐ Blue ☐ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	✓		
Short Hold Time Analysis (48 hours or less)? Analysis:		✓	Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab	Time: <u>13:02</u>			Present	Absent	N/A
Rush TAT Requested (4 days or less):		✓	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
Custody Signatures Present?	✓		Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Containers Intact?:	✓		Headspace Wisconsin Sulfide?			✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent ✓
Extra labels on Terracore Vials? (soils only)		✓	Trip Blank Present?		✓	
			Trip Blank Custody Seals?:			✓

COMMENTS:

[illegible]

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H ₂ SO ₄ plastic
DG9M	40mL MeOH clear vial	AG1S	1L H ₂ SO ₄ amber glass	BP1N	1L HNO ₃ plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H ₂ SO ₄ plastic		
DG9S	40mL H ₂ SO ₄ amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO ₃ amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
DG9U	40mL unpreserved amber vial	AG2S	500mL H ₂ SO ₄ amber glass	BP2A	500mL NaOH, Asc Acid plastic	C	Air Cassettes
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO ₃ plastic	R	Terra core kit
VG9T	40mL Na Thio. clear vial	AG3S	250mL H ₂ SO ₄ amber glass	BP2O	500mL NaOH plastic	SP5T	120mL Coliform Na Thiosulfate
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H ₂ SO ₄ plastic	U	Summa Can
VGFx	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	ZPLC	Ziploc Bag
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H ₂ SO ₄ clear glass	BP3B	250mL NaOH plastic	WT	Water
WGFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO ₃ plastic	SL	Solid
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO ₃ plastic (field filtered)	NAL	Non-aqueous liquid
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass			WP	Wipe

[illegible]

Container Codes

Glass				Plastic / Misc.	
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass
DG9H	40mL HCl amber vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic
WGFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass		

BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Ac plastic

AF	Air Filter
C	Air Cassettes
R	Terra core kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

WT	Water
SL	Solid
NAL	Non-aqueous liquid
WP	Wipe



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DM 4/15/21 0955

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER _____

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: 0.6/0.6

Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☒ Bubble Wrap ☒ Bubble Bags

☐ None

☐ Other _____

6. Ice Type: ☒ Wet ☐ Blue ☐ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis:		/	Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	/		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			<u>Present</u>	<u>Absent</u>	<u>N/A</u>
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			/
Rush TAT Requested (4 days or less):		/	Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
Custody Signatures Present?	/		Headspace Wisconsin Sulfide?			/
	/		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	No VOA Vials Sent
Containers Intact?:	/					/
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		Trip Blank Present?		/	
Extra labels on Terracore Vials? (soils only)		/	Trip Blank Custody Seals?:			/

COMMENTS:

[illegible]

Container Codes

Glass				Plastic / Misc.	
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic
WGFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass		

BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Ac plastic

AF	Air Filter
C	Air Cassettes
R	Terra core kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

WT	Water
SL	Solid
NAL	Non-aqueous liquid
WP	Wipe

May 07, 2021

Mr. Jim Peace
Golder
670 North Commercial Street
Suite 103
Manchester, NH 03101

RE: Project: RMSGS Assessment April 21
Pace Project No.: 50284873

Dear Mr. Peace:

Enclosed are the analytical results for sample(s) received by the laboratory between April 15, 2021 and April 23, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Indianapolis

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

Sincerely,



Tina Sayer
tina.sayer@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Ms. Krysta Cione, Golder
Accounts Payable., NiSource
Ms. Danielle Sylvia, Golder



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50284873001	GAMW-01-041421	Water	04/14/21 10:50	04/15/21 08:45
50284873002	GAMW-01B-041421	Water	04/14/21 12:10	04/15/21 08:45
50284873003	GAMW-03-041421	Water	04/14/21 15:15	04/15/21 08:45
50284873004	GAMW-17-041421	Water	04/14/21 15:08	04/15/21 08:45
50284873005	GAMW-17B-041421	Water	04/14/21 14:15	04/15/21 08:45
50285068001	GAMW-12B-041521	Water	04/15/21 13:00	04/16/21 09:00
50285068002	GAMW-03B-041521	Water	04/15/21 14:25	04/16/21 09:00
50285068003	GAMW-04-041521	Water	04/15/21 15:35	04/16/21 09:00
50285068004	FD-01-041521	Water	04/15/21 12:00	04/16/21 09:00
50285068005	GAMW-12-041521	Water	04/15/21 10:55	04/16/21 09:00
50285157001	GAMW-07B-041621	Water	04/16/21 09:10	04/17/21 09:00
50285157002	GAMW-07-041621	Water	04/16/21 10:35	04/17/21 09:00
50285157003	GAMW-15-041621	Water	04/16/21 13:40	04/17/21 09:00
50285157004	GAMW-52-041621	Water	04/16/21 11:25	04/17/21 09:00
50285157005	GAMW-52B-041621	Water	04/16/21 10:25	04/17/21 09:00
50285157006	GAMW-53-041621	Water	04/16/21 13:35	04/17/21 09:00
50285157007	GAMW-53B-041621	Water	04/16/21 15:15	04/17/21 09:00
50285157008	FB-01-041621	Water	04/16/21 11:43	04/17/21 09:00
50285157009	GAMW-15B-041621	Water	04/16/21 14:35	04/17/21 09:00
50285157010	FD-02-041621	Water	04/16/21 12:00	04/17/21 09:00
50285295001	GAMW-13-041921	Water	04/19/21 14:45	04/20/21 09:15
50285295002	GAMW-13B-041921	Water	04/19/21 13:30	04/20/21 09:15
50285295003	GAMW-14-041921	Water	04/19/21 10:45	04/20/21 09:15
50285295004	GAMW-14B-041921	Water	04/19/21 09:00	04/20/21 09:15
50285295005	FD-03-041921	Water	04/19/21 12:00	04/20/21 09:15
50285295006	FB-02-041921	Water	04/19/21 10:27	04/20/21 09:15
50285295007	GAMW-54-041921	Water	04/19/21 11:25	04/20/21 09:15
50285295008	GAMW-54B-041921	Water	04/19/21 13:55	04/20/21 09:15
50285463001	FD-04-042021	Water	04/20/21 12:00	04/21/21 08:50
50285463002	FB-03-042021	Water	04/20/21 13:17	04/21/21 08:50
50285463003	GAMW-18--042021	Water	04/20/21 13:35	04/21/21 08:50
50285463004	GAMW-09B-042021	Water	04/20/21 12:30	04/21/21 08:50
50285463005	GAMW-09-042021	Water	04/20/21 10:40	04/21/21 08:50
50285463006	GAMW-55R-042021	Water	04/20/21 11:40	04/21/21 08:50
50285463007	GAMW-55B-042021	Water	04/20/21 10:45	04/21/21 08:50
50285463008	GAMW-56-042021	Water	04/20/21 13:25	04/21/21 08:50
50285591001	GAMW-56B-042121	Water	04/21/21 12:40	04/22/21 08:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50285591002	GAMW-51-042121	Water	04/21/21 15:15	04/22/21 08:45
50285591003	GAMW-51B-042121	Water	04/21/21 12:40	04/22/21 08:45
50285591004	GAMW-60-042121	Water	04/21/21 10:45	04/22/21 08:45
50285591005	GAMW-60B-042121	Water	04/21/21 09:35	04/22/21 08:45
50285591006	GAMW-18B-042121	Water	04/21/21 10:00	04/22/21 08:45
50285591007	FB-04-042121	Water	04/21/21 11:03	04/22/21 08:45
50285591008	GAMW-59-042121	Water	04/21/21 15:30	04/22/21 08:45
50285705001	GAMW-16R-042221	Water	04/22/21 09:45	04/23/21 08:40
50285705002	GAMW-16BR-042221	Water	04/22/21 12:20	04/23/21 08:40
50285705003	GAMW-59B-042221	Water	04/22/21 10:05	04/23/21 08:40
50285705004	GAMW-08-042221	Water	04/22/21 13:25	04/23/21 08:40
50285705005	GAMW-08B-042221	Water	04/22/21 14:55	04/23/21 08:40
50285705006	GAMW-68-042221	Water	04/22/21 12:15	04/23/21 08:40
50285705007	GAMW-68B-042221	Water	04/22/21 13:55	04/23/21 08:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50284873001	GAMW-01-041421	EPA 9056	RMR	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50284873002	GAMW-01B-041421	EPA 9056	RMR	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50284873003	GAMW-03-041421	EPA 9056	RMR	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50284873004	GAMW-17-041421	EPA 9056	RMR	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50284873005	GAMW-17B-041421	EPA 9056	RMR	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50285068001	GAMW-12B-041521	EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50285068002	GAMW-03B-041521	EPA 9056	HBS	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50285068003	GAMW-04-041521	EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	WZE	1	PASI-I
50285068004	FD-01-041521	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
50285068005	GAMW-12-041521	EPA 7470	ILP	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
50285157001	GAMW-07B-041621	EPA 6010	RAM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	RAM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
50285157002	GAMW-07-041621	SM 4500-H+B	WDB	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	RAM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	RAM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
50285157003	GAMW-15-041621	EPA 6010	RAM	3	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	RAM	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50285157004	GAMW-52-041621	EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	RAM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
50285157005	GAMW-52B-041621	SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	RAM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
50285157006	GAMW-53-041621	EPA 9056	RMR	3	PASI-I
		EPA 6010	RAM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	RAM	3	PASI-I
50285157007	GAMW-53B-041621	EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	RAM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
50285157008	FB-01-041621	SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	RAM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
50285157009	GAMW-15B-041621	EPA 9056	RMR	3	PASI-I
		EPA 6010	RAM	3	PASI-I
		EPA 6020	DMT	11	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50285157010	FD-02-041621	EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	RAM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
50285295001	GAMW-13-041921	SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	JPk	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	WZE	1	PASI-I
50285295002	GAMW-13B-041921	SM 4500-H+B	WDB	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	JPk	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
50285295003	GAMW-14-041921	EPA 9056	HBS	3	PASI-I
		EPA 6010	JPk	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		EPA 9056	HBS	3	PASI-I
50285295004	GAMW-14B-041921	EPA 6010	JPk	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	WDB	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	JPk	3	PASI-I
50285295005	FD-03-041921	EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	JPk	3	PASI-I
		EPA 6020	DMT	11	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50285295006	FB-02-041921	SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	JPk	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
50285295007	GAMW-54-041921	SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	JPk	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
50285295008	GAMW-54B-041921	SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	JPk	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
50285463001	FD-04-042021	SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	RAM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
50285463002	FB-03-042021	SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	RAM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
50285463003	GAMW-18--042021	SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	RAM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	WZE	1	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50285463004	GAMW-09B-042021	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	RAM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	WZE	1	PASI-I
50285463005	GAMW-09-042021	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	RAM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	WZE	1	PASI-I
50285463006	GAMW-55R-042021	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	RAM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	WZE	1	PASI-I
50285463007	GAMW-55B-042021	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	RAM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	WZE	1	PASI-I
50285463008	GAMW-56-042021	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	RAM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	WZE	1	PASI-I
50285591001	GAMW-56B-042121	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50285591002	GAMW-51-042121	EPA 9056	RID	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50285591003	GAMW-51B-042121	EPA 9056	RID	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50285591004	GAMW-60-042121	EPA 9056	RID	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50285591005	GAMW-60B-042121	EPA 9056	RID	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50285591006	GAMW-18B-042121	EPA 9056	RID	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50285591007	FB-04-042121	EPA 9056	RID	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50285591008	GAMW-59-042121	EPA 9056	RID	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50285705001	GAMW-16R-042221	EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
50285705002	GAMW-16BR-042221	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
50285705003	GAMW-59B-042221	EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
50285705004	GAMW-08-042221	EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
50285705005	GAMW-08B-042221	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
50285705006	GAMW-68-042221	EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50285705007	GAMW-68B-042221	EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50284873001	GAMW-01-041421					
EPA 9056	Chloride	10.1	mg/L	0.25	04/27/21 20:20	
EPA 9056	Fluoride	0.29	mg/L	0.050	04/27/21 20:20	
EPA 9056	Sulfate	157	mg/L	2.5	04/27/21 20:35	P8
EPA 6010	Boron	0.78	mg/L	0.10	04/23/21 23:06	
EPA 6010	Calcium	95.2	mg/L	1.0	04/23/21 23:06	
EPA 6020	Arsenic	0.012	mg/L	0.0010	04/23/21 09:43	
EPA 6020	Barium	0.051	mg/L	0.0010	04/23/21 09:43	
EPA 6020	Cobalt	0.0019	mg/L	0.0010	04/23/21 09:43	
EPA 6020	Molybdenum	0.011	mg/L	0.0010	04/23/21 09:43	
EPA 6020	Selenium	0.010	mg/L	0.0010	04/23/21 09:43	
SM 2540C	Total Dissolved Solids	574	mg/L	10.0	04/20/21 12:45	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	04/16/21 12:56	H3
50284873002	GAMW-01B-041421					
EPA 9056	Chloride	20.8	mg/L	2.5	04/27/21 21:48	
EPA 9056	Fluoride	0.076	mg/L	0.050	04/27/21 21:34	
EPA 9056	Sulfate	85.2	mg/L	2.5	04/27/21 21:48	
EPA 6010	Boron	0.35	mg/L	0.10	04/23/21 23:08	
EPA 6010	Calcium	103	mg/L	1.0	04/23/21 23:08	
EPA 6020	Barium	0.17	mg/L	0.0010	04/23/21 10:16	
EPA 6020	Cobalt	0.0010	mg/L	0.0010	04/23/21 10:16	
SM 2540C	Total Dissolved Solids	450	mg/L	10.0	04/20/21 12:46	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	04/16/21 12:58	H3
50284873003	GAMW-03-041421					
EPA 9056	Chloride	4.3	mg/L	0.25	04/27/21 22:18	
EPA 9056	Fluoride	0.13	mg/L	0.050	04/27/21 22:18	
EPA 9056	Sulfate	97.5	mg/L	2.5	04/27/21 22:33	
EPA 6010	Boron	0.22	mg/L	0.10	04/23/21 23:10	
EPA 6010	Calcium	90.3	mg/L	1.0	04/23/21 23:10	
EPA 6020	Arsenic	0.0094	mg/L	0.0010	04/23/21 10:20	
EPA 6020	Barium	0.074	mg/L	0.0010	04/23/21 10:20	
EPA 6020	Cobalt	0.0055	mg/L	0.0010	04/23/21 10:20	
EPA 6020	Molybdenum	0.011	mg/L	0.0010	04/23/21 10:20	
SM 2540C	Total Dissolved Solids	390	mg/L	10.0	04/20/21 12:46	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	04/16/21 13:00	H3
50284873004	GAMW-17-041421					
EPA 9056	Chloride	79.0	mg/L	2.5	04/27/21 23:17	
EPA 9056	Fluoride	1.2	mg/L	0.050	04/27/21 23:02	
EPA 9056	Sulfate	358	mg/L	25.0	04/27/21 23:32	
EPA 6010	Boron	4.3	mg/L	0.10	04/23/21 23:12	
EPA 6010	Calcium	139	mg/L	1.0	04/23/21 23:12	
EPA 6020	Arsenic	0.0024	mg/L	0.0010	04/23/21 10:25	
EPA 6020	Barium	0.059	mg/L	0.0010	04/23/21 10:25	
EPA 6020	Cobalt	0.0012	mg/L	0.0010	04/23/21 10:25	
EPA 6020	Molybdenum	0.012	mg/L	0.0010	04/23/21 10:25	
EPA 6020	Selenium	0.010	mg/L	0.0010	04/23/21 10:25	
SM 2540C	Total Dissolved Solids	806	mg/L	10.0	04/20/21 12:46	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50284873004	GAMW-17-041421					
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/16/21 13:01	H3
50284873005	GAMW-17B-041421					
EPA 9056	Chloride	135	mg/L	25.0	04/28/21 00:46	
EPA 9056	Fluoride	0.30	mg/L	0.050	04/28/21 00:16	
EPA 9056	Sulfate	549	mg/L	25.0	04/28/21 00:46	
EPA 6010	Boron	10.2	mg/L	0.10	04/23/21 23:14	
EPA 6010	Calcium	164	mg/L	1.0	04/23/21 23:14	
EPA 6020	Arsenic	0.0012	mg/L	0.0010	04/23/21 10:30	
EPA 6020	Barium	0.094	mg/L	0.0010	04/23/21 10:30	
EPA 6020	Cobalt	0.0015	mg/L	0.0010	04/23/21 10:30	
EPA 6020	Molybdenum	0.0058	mg/L	0.0010	04/23/21 10:30	
SM 2540C	Total Dissolved Solids	1250	mg/L	20.0	04/20/21 12:47	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	04/16/21 13:03	H3
50285068001	GAMW-12B-041521					
EPA 9056	Chloride	20.8	mg/L	2.5	04/29/21 20:25	
EPA 9056	Fluoride	0.082	mg/L	0.050	04/29/21 20:10	
EPA 9056	Sulfate	66.5	mg/L	2.5	04/29/21 20:25	
EPA 6010	Boron	0.31	mg/L	0.10	04/28/21 09:52	
EPA 6010	Calcium	104	mg/L	1.0	04/28/21 09:52	
EPA 6020	Barium	0.13	mg/L	0.0010	04/27/21 13:48	
EPA 6020	Molybdenum	0.0012	mg/L	0.0010	04/27/21 13:48	
SM 2540C	Total Dissolved Solids	430	mg/L	10.0	04/21/21 17:08	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	04/16/21 13:50	H3
50285068002	GAMW-03B-041521					
EPA 9056	Chloride	20.1	mg/L	2.5	04/29/21 21:12	
EPA 9056	Fluoride	0.20	mg/L	0.050	04/29/21 20:56	
EPA 9056	Sulfate	58.0	mg/L	2.5	04/29/21 21:12	
EPA 6010	Boron	0.25	mg/L	0.10	04/28/21 09:54	
EPA 6010	Calcium	96.4	mg/L	1.0	04/28/21 09:54	
EPA 6020	Barium	0.11	mg/L	0.0010	04/27/21 13:53	
EPA 6020	Molybdenum	0.0051	mg/L	0.0010	04/27/21 13:53	
SM 2540C	Total Dissolved Solids	400	mg/L	10.0	04/21/21 17:08	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	04/16/21 13:51	H3
50285068003	GAMW-04-041521					
EPA 9056	Chloride	6.2	mg/L	0.25	04/29/21 23:46	
EPA 9056	Fluoride	0.20	mg/L	0.050	04/29/21 23:46	
EPA 9056	Sulfate	375	mg/L	25.0	04/30/21 00:17	
EPA 6010	Boron	1.1	mg/L	0.10	04/28/21 10:29	
EPA 6010	Calcium	178	mg/L	1.0	04/28/21 10:29	
EPA 6020	Arsenic	0.0019	mg/L	0.0010	04/27/21 14:07	
EPA 6020	Barium	0.079	mg/L	0.0010	04/27/21 14:07	
EPA 6020	Cobalt	0.0016	mg/L	0.0010	04/27/21 14:07	
EPA 6020	Molybdenum	0.066	mg/L	0.0010	04/27/21 14:07	
EPA 6020	Selenium	0.0033	mg/L	0.0010	04/27/21 14:07	
SM 2540C	Total Dissolved Solids	726	mg/L	10.0	04/21/21 17:08	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50285068003	GAMW-04-041521					
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	04/16/21 13:53	H3
50285068004	FD-01-041521					
EPA 9056	Chloride	20.5	mg/L	2.5	04/30/21 00:48	
EPA 9056	Fluoride	0.079	mg/L	0.050	04/30/21 00:32	
EPA 9056	Sulfate	63.8	mg/L	2.5	04/30/21 00:48	
EPA 6010	Boron	0.29	mg/L	0.10	04/28/21 10:31	
EPA 6010	Calcium	103	mg/L	1.0	04/28/21 10:31	
EPA 6020	Barium	0.13	mg/L	0.0010	04/27/21 14:21	
EPA 6020	Molybdenum	0.0012	mg/L	0.0010	04/27/21 14:21	
SM 2540C	Total Dissolved Solids	435	mg/L	10.0	04/21/21 17:09	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/16/21 13:54	H3
50285068005	GAMW-12-041521					
EPA 9056	Chloride	2.3	mg/L	0.25	04/30/21 01:50	
EPA 9056	Fluoride	0.16	mg/L	0.050	04/30/21 01:50	
EPA 9056	Sulfate	9.2	mg/L	0.25	04/30/21 01:50	
EPA 6010	Calcium	87.0	mg/L	1.0	04/28/21 10:33	
EPA 6020	Arsenic	0.012	mg/L	0.0010	04/27/21 14:25	
EPA 6020	Barium	0.095	mg/L	0.0010	04/27/21 14:25	
EPA 6020	Cobalt	0.0025	mg/L	0.0010	04/27/21 14:25	
EPA 6020	Molybdenum	0.0028	mg/L	0.0010	04/27/21 14:25	
SM 2540C	Total Dissolved Solids	336	mg/L	10.0	04/21/21 17:09	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	04/16/21 13:55	H3
50285157001	GAMW-07B-041621					
EPA 9056	Chloride	38.0	mg/L	2.5	04/29/21 13:29	
EPA 9056	Fluoride	0.79	mg/L	0.050	04/29/21 13:14	
EPA 9056	Sulfate	1010	mg/L	25.0	04/29/21 13:44	
EPA 6010	Boron	5.9	mg/L	0.10	04/27/21 10:06	
EPA 6010	Calcium	327	mg/L	2.0	04/27/21 12:07	
EPA 6020	Arsenic	0.0022	mg/L	0.0010	04/27/21 14:30	
EPA 6020	Barium	0.041	mg/L	0.0010	04/27/21 14:30	
EPA 6020	Cobalt	0.0011	mg/L	0.0010	04/27/21 14:30	
EPA 6020	Molybdenum	0.029	mg/L	0.0010	04/27/21 14:30	
SM 2540C	Total Dissolved Solids	1700	mg/L	20.0	04/22/21 10:23	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/20/21 12:04	H3
50285157002	GAMW-07-041621					
EPA 9056	Chloride	11.7	mg/L	2.5	04/29/21 14:13	
EPA 9056	Fluoride	0.66	mg/L	0.050	04/29/21 13:59	
EPA 9056	Sulfate	352	mg/L	25.0	04/29/21 14:28	
EPA 6010	Boron	0.81	mg/L	0.10	04/27/21 10:08	
EPA 6010	Calcium	198	mg/L	1.0	04/27/21 10:08	
EPA 6020	Barium	0.046	mg/L	0.0010	04/27/21 14:35	
EPA 6020	Cobalt	0.0056	mg/L	0.0010	04/27/21 14:35	
EPA 6020	Molybdenum	0.0078	mg/L	0.0010	04/27/21 14:35	
EPA 6020	Selenium	0.0069	mg/L	0.0010	04/27/21 14:35	
SM 2540C	Total Dissolved Solids	846	mg/L	20.0	04/22/21 10:24	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285157002	GAMW-07-041621					
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	04/20/21 12:09	H3
50285157003	GAMW-15-041621					
EPA 9056	Chloride	99.3	mg/L	2.5	04/29/21 14:58	
EPA 9056	Fluoride	0.76	mg/L	0.050	04/29/21 14:43	
EPA 9056	Sulfate	371	mg/L	25.0	04/29/21 15:42	
EPA 6010	Boron	8.0	mg/L	0.10	04/27/21 10:29	
EPA 6010	Calcium	160	mg/L	1.0	04/27/21 10:29	
EPA 6020	Arsenic	0.046	mg/L	0.0010	04/27/21 14:39	
EPA 6020	Barium	0.058	mg/L	0.0010	04/27/21 14:39	
EPA 6020	Cobalt	0.0030	mg/L	0.0010	04/27/21 14:39	
EPA 6020	Molybdenum	0.028	mg/L	0.0010	04/27/21 14:39	
EPA 6020	Selenium	0.0036	mg/L	0.0010	04/27/21 14:39	
SM 2540C	Total Dissolved Solids	770	mg/L	20.0	04/22/21 10:28	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	04/20/21 12:32	H3
50285157004	GAMW-52-041621					
EPA 9056	Chloride	18.7	mg/L	2.5	04/29/21 16:12	
EPA 9056	Fluoride	0.22	mg/L	0.050	04/29/21 15:57	
EPA 9056	Sulfate	55.8	mg/L	2.5	04/29/21 16:12	
EPA 6010	Boron	0.10	mg/L	0.10	04/27/21 10:31	
EPA 6010	Calcium	59.9	mg/L	1.0	04/27/21 10:31	
EPA 6020	Barium	0.011	mg/L	0.0010	04/27/21 14:53	
EPA 6020	Molybdenum	0.0021	mg/L	0.0010	04/27/21 14:53	
EPA 6020	Selenium	0.0011	mg/L	0.0010	04/27/21 14:53	
SM 2540C	Total Dissolved Solids	269	mg/L	10.0	04/22/21 10:29	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	04/20/21 12:13	H3
50285157005	GAMW-52B-041621					
EPA 9056	Chloride	131	mg/L	25.0	04/29/21 17:11	
EPA 9056	Fluoride	0.24	mg/L	0.050	04/29/21 16:41	
EPA 9056	Sulfate	181	mg/L	2.5	04/29/21 16:56	
EPA 6010	Boron	1.2	mg/L	0.10	04/27/21 10:45	
EPA 6010	Calcium	94.9	mg/L	1.0	04/27/21 10:45	
EPA 6020	Arsenic	0.0011	mg/L	0.0010	04/27/21 15:26	
EPA 6020	Barium	0.15	mg/L	0.0010	04/27/21 15:26	
EPA 6020	Molybdenum	0.013	mg/L	0.0010	04/27/21 15:26	
SM 2540C	Total Dissolved Solids	673	mg/L	10.0	04/22/21 10:30	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/20/21 12:08	H3
50285157006	GAMW-53-041621					
EPA 9056	Chloride	2.4	mg/L	0.25	04/29/21 17:25	
EPA 9056	Sulfate	35.2	mg/L	2.5	04/29/21 17:40	
EPA 6010	Calcium	17.5	mg/L	1.0	04/27/21 10:47	
EPA 6020	Arsenic	0.0012	mg/L	0.0010	04/27/21 15:30	
EPA 6020	Barium	0.027	mg/L	0.0010	04/27/21 15:30	
EPA 6020	Molybdenum	0.0052	mg/L	0.0010	04/27/21 15:30	
SM 2540C	Total Dissolved Solids	97	mg/L	10.0	04/22/21 11:47	
SM 4500-H+B	pH at 25 Degrees C	5.9	Std. Units	0.10	04/20/21 12:28	H3

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285157007	GAMW-53B-041621					
EPA 9056	Chloride	84.8	mg/L	2.5	04/29/21 18:54	
EPA 9056	Fluoride	0.40	mg/L	0.050	04/29/21 18:39	
EPA 9056	Sulfate	304	mg/L	25.0	04/29/21 19:09	
EPA 6010	Boron	1.9	mg/L	0.10	04/27/21 10:49	
EPA 6010	Calcium	142	mg/L	1.0	04/27/21 10:49	
EPA 6020	Barium	0.067	mg/L	0.0010	04/27/21 15:35	
EPA 6020	Molybdenum	0.015	mg/L	0.0010	04/27/21 15:35	
SM 2540C	Total Dissolved Solids	748	mg/L	20.0	04/22/21 11:48	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	04/20/21 12:37	H3
50285157008	FB-01-041621					
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/20/21 12:16	H3
50285157009	GAMW-15B-041621					
EPA 9056	Chloride	396	mg/L	25.0	04/29/21 20:08	
EPA 9056	Fluoride	0.35	mg/L	0.050	04/29/21 19:38	
EPA 9056	Sulfate	643	mg/L	25.0	04/29/21 20:08	
EPA 6010	Boron	32.5	mg/L	0.10	04/27/21 10:53	
EPA 6010	Calcium	321	mg/L	2.0	04/27/21 12:09	
EPA 6010	Lithium	0.012	mg/L	0.0080	04/27/21 10:53	
EPA 6020	Barium	0.18	mg/L	0.0010	04/27/21 15:44	
EPA 6020	Cobalt	0.0010	mg/L	0.0010	04/27/21 15:44	
EPA 6020	Molybdenum	0.0012	mg/L	0.0010	04/27/21 15:44	
SM 2540C	Total Dissolved Solids	1870	mg/L	40.0	04/22/21 11:50	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	04/20/21 12:33	H3
50285157010	FD-02-041621					
EPA 9056	Chloride	372	mg/L	25.0	04/29/21 20:52	
EPA 9056	Fluoride	0.37	mg/L	0.050	04/29/21 20:23	
EPA 9056	Sulfate	596	mg/L	25.0	04/29/21 20:52	
EPA 6010	Boron	32.7	mg/L	0.10	04/27/21 10:55	
EPA 6010	Calcium	335	mg/L	2.0	04/27/21 12:11	
EPA 6010	Lithium	0.011	mg/L	0.0080	04/27/21 10:55	
EPA 6020	Barium	0.18	mg/L	0.0020	04/28/21 06:10	
EPA 6020	Cobalt	0.0011	mg/L	0.0010	04/27/21 15:49	
EPA 6020	Molybdenum	0.0012	mg/L	0.0010	04/27/21 15:49	
SM 2540C	Total Dissolved Solids	1740	mg/L	40.0	04/22/21 11:50	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	04/20/21 12:20	H3
50285295001	GAMW-13-041921					
EPA 9056	Chloride	4.3	mg/L	0.25	05/04/21 00:45	
EPA 9056	Fluoride	0.27	mg/L	0.050	05/04/21 00:45	
EPA 9056	Sulfate	48.6	mg/L	2.5	05/04/21 01:01	
EPA 6010	Boron	0.16	mg/L	0.10	04/29/21 23:05	
EPA 6010	Calcium	95.6	mg/L	1.0	04/29/21 23:05	
EPA 6020	Arsenic	0.027	mg/L	0.0010	04/29/21 10:55	
EPA 6020	Barium	0.11	mg/L	0.0010	04/29/21 10:55	
EPA 6020	Cobalt	0.0012	mg/L	0.0010	04/29/21 10:55	
EPA 6020	Molybdenum	0.0096	mg/L	0.0010	04/29/21 10:55	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285295001	GAMW-13-041921					
SM 2540C	Total Dissolved Solids	355	mg/L	10.0	04/23/21 09:58	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	04/23/21 14:16	H3
50285295002	GAMW-13B-041921					
EPA 9056	Chloride	28.3	mg/L	2.5	05/04/21 02:18	
EPA 9056	Fluoride	0.31	mg/L	0.050	05/04/21 02:03	
EPA 9056	Sulfate	146	mg/L	2.5	05/04/21 02:18	
EPA 6010	Boron	0.71	mg/L	0.10	04/29/21 23:07	
EPA 6010	Calcium	82.7	mg/L	1.0	04/29/21 23:07	
EPA 6020	Arsenic	0.0012	mg/L	0.0010	04/29/21 10:59	
EPA 6020	Barium	0.081	mg/L	0.0010	04/29/21 10:59	
EPA 6020	Molybdenum	0.016	mg/L	0.0010	04/29/21 10:59	
SM 2540C	Total Dissolved Solids	376	mg/L	10.0	04/23/21 09:59	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	04/23/21 14:14	H3
50285295003	GAMW-14-041921					
EPA 9056	Chloride	11.3	mg/L	0.25	05/04/21 02:49	
EPA 9056	Fluoride	0.26	mg/L	0.050	05/04/21 02:49	
EPA 9056	Sulfate	40.6	mg/L	2.5	05/04/21 03:04	
EPA 6010	Boron	0.29	mg/L	0.10	04/29/21 23:14	
EPA 6010	Calcium	67.7	mg/L	1.0	04/29/21 23:14	
EPA 6020	Arsenic	0.018	mg/L	0.0010	04/29/21 11:04	
EPA 6020	Barium	0.061	mg/L	0.0010	04/29/21 11:04	
EPA 6020	Cobalt	0.017	mg/L	0.0010	04/29/21 11:04	
EPA 6020	Molybdenum	0.0073	mg/L	0.0010	04/29/21 11:04	
SM 2540C	Total Dissolved Solids	270	mg/L	10.0	04/23/21 09:59	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	04/23/21 14:10	H3
50285295004	GAMW-14B-041921					
EPA 9056	Chloride	108	mg/L	2.5	05/04/21 03:51	
EPA 9056	Fluoride	0.29	mg/L	0.050	05/04/21 03:35	
EPA 9056	Sulfate	1350	mg/L	25.0	05/04/21 04:06	
EPA 6010	Boron	2.8	mg/L	0.10	04/29/21 23:16	
EPA 6010	Calcium	143	mg/L	1.0	04/29/21 23:16	
EPA 6020	Barium	0.080	mg/L	0.0010	04/29/21 11:36	
EPA 6020	Molybdenum	0.028	mg/L	0.0010	04/29/21 11:36	
SM 2540C	Total Dissolved Solids	1740	mg/L	40.0	04/23/21 10:00	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/23/21 15:30	H3
50285295005	FD-03-041921					
EPA 9056	Chloride	112	mg/L	2.5	05/04/21 05:07	
EPA 9056	Fluoride	0.29	mg/L	0.050	05/04/21 04:52	
EPA 9056	Sulfate	1330	mg/L	25.0	05/04/21 05:23	
EPA 6010	Boron	2.8	mg/L	0.10	04/29/21 23:18	
EPA 6010	Calcium	146	mg/L	1.0	04/29/21 23:18	
EPA 6020	Barium	0.080	mg/L	0.0010	04/29/21 11:41	
EPA 6020	Molybdenum	0.028	mg/L	0.0010	04/29/21 11:41	
SM 2540C	Total Dissolved Solids	1730	mg/L	40.0	04/23/21 10:00	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/23/21 15:35	H3

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50285295006	FB-02-041921					
SM 4500-H+B	pH at 25 Degrees C	6.1	Std. Units	0.10	04/23/21 15:42	H3
50285295007	GAMW-54-041921					
EPA 9056	Chloride	53.9	mg/L	2.5	05/04/21 06:09	
EPA 9056	Fluoride	0.20	mg/L	0.050	05/04/21 05:54	
EPA 9056	Sulfate	492	mg/L	25.0	05/04/21 06:24	
EPA 6010	Boron	0.50	mg/L	0.10	04/29/21 23:23	
EPA 6010	Calcium	164	mg/L	1.0	04/29/21 23:23	
EPA 6020	Arsenic	0.0075	mg/L	0.0010	04/29/21 12:00	
EPA 6020	Barium	0.071	mg/L	0.0010	04/29/21 12:00	
EPA 6020	Cobalt	0.0011	mg/L	0.0010	04/29/21 12:00	
EPA 6020	Molybdenum	0.011	mg/L	0.0010	04/29/21 12:00	
EPA 6020	Selenium	0.0044	mg/L	0.0010	04/29/21 12:00	
SM 2540C	Total Dissolved Solids	735	mg/L	10.0	04/23/21 10:01	
SM 4500-H+B	pH at 25 Degrees C	6.7	Std. Units	0.10	04/23/21 15:44	H3
50285295008	GAMW-54B-041921					
EPA 9056	Chloride	83.9	mg/L	2.5	05/04/21 06:55	
EPA 9056	Fluoride	0.53	mg/L	0.050	05/04/21 06:40	
EPA 9056	Sulfate	891	mg/L	25.0	05/04/21 07:10	
EPA 6010	Boron	3.1	mg/L	0.10	04/29/21 23:25	
EPA 6010	Calcium	236	mg/L	2.0	04/29/21 23:34	
EPA 6020	Arsenic	0.0044	mg/L	0.0010	04/29/21 12:04	
EPA 6020	Barium	0.063	mg/L	0.0010	04/29/21 12:04	
EPA 6020	Molybdenum	0.017	mg/L	0.0010	04/29/21 12:04	
SM 2540C	Total Dissolved Solids	1120	mg/L	20.0	04/23/21 10:01	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	04/23/21 15:48	H3
50285463001	FD-04-042021					
EPA 9056	Chloride	102	mg/L	2.5	05/04/21 18:42	
EPA 9056	Fluoride	1.4	mg/L	0.050	05/04/21 18:26	
EPA 9056	Sulfate	582	mg/L	25.0	05/05/21 14:05	
EPA 6010	Boron	6.1	mg/L	0.10	05/04/21 07:55	
EPA 6010	Calcium	169	mg/L	1.0	05/04/21 07:55	
EPA 6020	Arsenic	0.0033	mg/L	0.0010	04/29/21 12:09	
EPA 6020	Barium	0.036	mg/L	0.0010	04/29/21 12:09	
EPA 6020	Molybdenum	0.012	mg/L	0.0010	04/29/21 12:09	
SM 2540C	Total Dissolved Solids	1030	mg/L	20.0	04/26/21 13:58	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	04/23/21 15:56	H3
50285463002	FB-03-042021					
SM 4500-H+B	pH at 25 Degrees C	6.9	Std. Units	0.10	04/23/21 16:07	H3
50285463003	GAMW-18--042021					
EPA 9056	Chloride	40.3	mg/L	2.5	05/04/21 19:43	
EPA 9056	Fluoride	0.16	mg/L	0.050	05/04/21 19:28	
EPA 9056	Sulfate	1310	mg/L	25.0	05/04/21 19:59	
EPA 6010	Boron	3.1	mg/L	0.10	05/04/21 08:00	
EPA 6010	Calcium	436	mg/L	5.0	05/04/21 09:02	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285463003	GAMW-18--042021					
EPA 6020	Barium	0.044	mg/L	0.0010	04/29/21 12:18	
EPA 6020	Molybdenum	0.082	mg/L	0.0010	04/29/21 12:18	
EPA 6020	Selenium	0.042	mg/L	0.0010	04/29/21 12:18	
SM 2540C	Total Dissolved Solids	1440	mg/L	20.0	04/26/21 14:17	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	04/23/21 16:09	H3
50285463004	GAMW-09B-042021					
EPA 9056	Chloride	94.0	mg/L	2.5	05/04/21 20:30	
EPA 9056	Fluoride	1.4	mg/L	0.050	05/04/21 20:14	
EPA 9056	Sulfate	1040	mg/L	25.0	05/04/21 20:45	
EPA 6010	Boron	6.2	mg/L	0.10	05/04/21 08:02	
EPA 6010	Calcium	171	mg/L	1.0	05/04/21 08:02	
EPA 6020	Arsenic	0.0034	mg/L	0.0010	04/29/21 12:32	
EPA 6020	Barium	0.035	mg/L	0.0010	04/29/21 12:32	
EPA 6020	Molybdenum	0.012	mg/L	0.0010	04/29/21 12:32	
SM 2540C	Total Dissolved Solids	982	mg/L	20.0	04/26/21 14:18	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	04/23/21 16:14	H3
50285463005	GAMW-09-042021					
EPA 9056	Chloride	41.6	mg/L	2.5	05/04/21 21:47	
EPA 9056	Fluoride	0.26	mg/L	0.050	05/04/21 21:31	
EPA 9056	Sulfate	418	mg/L	25.0	05/04/21 22:02	
EPA 6010	Boron	3.5	mg/L	0.10	05/04/21 08:09	
EPA 6010	Calcium	168	mg/L	1.0	05/04/21 08:09	
EPA 6020	Barium	0.037	mg/L	0.0010	04/29/21 12:37	
EPA 6020	Molybdenum	0.040	mg/L	0.0010	04/29/21 12:37	
EPA 6020	Selenium	0.0053	mg/L	0.0010	04/29/21 12:37	
SM 2540C	Total Dissolved Solids	659	mg/L	10.0	04/26/21 14:19	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	04/23/21 16:17	H3
50285463006	GAMW-55R-042021					
EPA 9056	Chloride	51.4	mg/L	2.5	05/04/21 22:33	
EPA 9056	Fluoride	0.46	mg/L	0.050	05/04/21 22:17	
EPA 9056	Sulfate	867	mg/L	25.0	05/04/21 22:48	
EPA 6010	Boron	0.87	mg/L	0.10	05/04/21 08:11	
EPA 6010	Calcium	237	mg/L	5.0	05/04/21 15:34	
EPA 6020	Barium	0.032	mg/L	0.0010	04/29/21 12:42	
EPA 6020	Molybdenum	0.013	mg/L	0.0010	04/29/21 12:42	
EPA 6020	Selenium	0.0029	mg/L	0.0010	04/29/21 12:42	
SM 2540C	Total Dissolved Solids	842	mg/L	20.0	04/26/21 14:19	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	04/23/21 16:20	H3
50285463007	GAMW-55B-042021					
EPA 9056	Chloride	120	mg/L	2.5	05/04/21 23:19	
EPA 9056	Fluoride	0.30	mg/L	0.050	05/04/21 23:04	
EPA 9056	Sulfate	985	mg/L	25.0	05/04/21 23:34	
EPA 6010	Boron	9.9	mg/L	0.10	05/04/21 08:13	
EPA 6010	Calcium	254	mg/L	5.0	05/04/21 09:04	
EPA 6020	Barium	0.061	mg/L	0.0010	04/29/21 12:46	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285463007	GAMW-55B-042021					
EPA 6020	Molybdenum	0.0068	mg/L	0.0010	04/29/21 12:46	
SM 2540C	Total Dissolved Solids	1370	mg/L	20.0	04/26/21 14:20	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	04/23/21 16:21	H3
50285463008	GAMW-56-042021					
EPA 9056	Chloride	2.9	mg/L	0.25	05/05/21 00:20	
EPA 9056	Sulfate	57.6	mg/L	2.5	05/05/21 00:36	
EPA 6010	Boron	0.23	mg/L	0.10	05/04/21 08:15	
EPA 6010	Calcium	130	mg/L	1.0	05/04/21 08:15	
EPA 6020	Arsenic	0.0070	mg/L	0.0010	04/29/21 12:51	
EPA 6020	Barium	0.042	mg/L	0.0010	04/29/21 12:51	
EPA 6020	Cobalt	0.016	mg/L	0.0010	04/29/21 12:51	
EPA 6020	Molybdenum	0.0083	mg/L	0.0010	04/29/21 12:51	
EPA 6020	Selenium	0.0011	mg/L	0.0010	04/29/21 12:51	
SM 2540C	Total Dissolved Solids	480	mg/L	10.0	04/26/21 14:21	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	04/23/21 16:24	H3
50285591001	GAMW-56B-042121					
EPA 9056	Chloride	70.8	mg/L	2.5	05/04/21 20:16	
EPA 9056	Fluoride	0.41	mg/L	0.050	05/04/21 19:27	
EPA 9056	Sulfate	277	mg/L	25.0	05/04/21 21:05	
EPA 6010	Boron	1.6	mg/L	0.10	05/05/21 09:01	
EPA 6010	Calcium	157	mg/L	1.0	05/05/21 09:01	
EPA 6020	Barium	0.071	mg/L	0.0010	05/04/21 09:40	
EPA 6020	Molybdenum	0.0074	mg/L	0.0010	05/04/21 09:40	
SM 2540C	Total Dissolved Solids	738	mg/L	20.0	04/27/21 12:01	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	04/24/21 11:17	H3
50285591002	GAMW-51-042121					
EPA 9056	Chloride	1.5	mg/L	0.25	05/04/21 22:27	
EPA 9056	Fluoride	0.26	mg/L	0.050	05/04/21 22:27	
EPA 9056	Sulfate	196	mg/L	2.5	05/04/21 22:43	
EPA 6010	Boron	0.43	mg/L	0.10	05/05/21 09:10	
EPA 6010	Calcium	144	mg/L	1.0	05/05/21 09:10	
EPA 6020	Arsenic	0.0016	mg/L	0.0010	05/04/21 09:45	
EPA 6020	Barium	0.10	mg/L	0.0010	05/04/21 09:45	
EPA 6020	Cobalt	0.0033	mg/L	0.0010	05/04/21 09:45	
EPA 6020	Molybdenum	0.011	mg/L	0.0010	05/04/21 09:45	
SM 2540C	Total Dissolved Solids	604	mg/L	10.0	04/27/21 12:02	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	04/24/21 11:19	H3
50285591003	GAMW-51B-042121					
EPA 9056	Chloride	54.8	mg/L	2.5	05/04/21 23:32	
EPA 9056	Fluoride	0.45	mg/L	0.050	05/04/21 23:16	
EPA 9056	Sulfate	1490	mg/L	25.0	05/04/21 23:48	
EPA 6010	Boron	7.2	mg/L	0.10	05/05/21 09:13	
EPA 6010	Calcium	261	mg/L	5.0	05/05/21 09:55	
EPA 6010	Lithium	0.071	mg/L	0.0080	05/05/21 09:13	
EPA 6020	Arsenic	0.0040	mg/L	0.0010	05/04/21 09:50	

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SUMMARY OF DETECTION

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285591003	GAMW-51B-042121					
EPA 6020	Barium	0.072	mg/L	0.0010	05/04/21 09:50	
EPA 6020	Molybdenum	0.16	mg/L	0.0010	05/04/21 09:50	
SM 2540C	Total Dissolved Solids	2180	mg/L	40.0	04/27/21 12:16	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	04/24/21 11:21	H3
50285591004	GAMW-60-042121					
EPA 9056	Chloride	17.2	mg/L	2.5	05/05/21 00:21	
EPA 9056	Fluoride	0.30	mg/L	0.050	05/05/21 00:04	
EPA 9056	Sulfate	748	mg/L	25.0	05/05/21 00:37	
EPA 6010	Boron	1.0	mg/L	0.10	05/05/21 09:24	
EPA 6010	Calcium	343	mg/L	5.0	05/05/21 10:08	
EPA 6010	Lithium	0.012	mg/L	0.0080	05/05/21 09:24	
EPA 6020	Barium	0.027	mg/L	0.0010	05/04/21 09:54	
EPA 6020	Cobalt	0.0013	mg/L	0.0010	05/04/21 09:54	
EPA 6020	Molybdenum	0.013	mg/L	0.0010	05/04/21 09:54	
EPA 6020	Selenium	0.0017	mg/L	0.0010	05/04/21 09:54	
SM 2540C	Total Dissolved Solids	1300	mg/L	20.0	04/27/21 12:17	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	04/24/21 11:22	H3
50285591005	GAMW-60B-042121					
EPA 9056	Chloride	14.3	mg/L	2.5	05/05/21 01:42	
EPA 9056	Fluoride	0.34	mg/L	0.050	05/05/21 01:26	
EPA 9056	Sulfate	1140	mg/L	25.0	05/05/21 01:58	
EPA 6010	Boron	6.5	mg/L	0.10	05/05/21 09:26	
EPA 6010	Calcium	351	mg/L	5.0	05/05/21 10:10	
EPA 6010	Lithium	0.034	mg/L	0.0080	05/05/21 09:26	
EPA 6020	Barium	0.077	mg/L	0.0010	05/04/21 09:59	
EPA 6020	Molybdenum	0.35	mg/L	0.0020	05/05/21 09:54	
SM 2540C	Total Dissolved Solids	2710	mg/L	20.0	04/27/21 12:18	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	04/24/21 11:25	H3
50285591006	GAMW-18B-042121					
EPA 9056	Chloride	112	mg/L	2.5	05/05/21 02:31	
EPA 9056	Fluoride	0.35	mg/L	0.050	05/05/21 02:15	
EPA 9056	Sulfate	1260	mg/L	25.0	05/05/21 02:47	
EPA 6010	Boron	8.4	mg/L	0.10	05/05/21 09:28	
EPA 6010	Calcium	317	mg/L	5.0	05/05/21 10:13	
EPA 6010	Lithium	0.037	mg/L	0.0080	05/05/21 09:28	
EPA 6020	Arsenic	0.0025	mg/L	0.0010	05/04/21 10:13	
EPA 6020	Barium	0.041	mg/L	0.0010	05/04/21 10:13	
EPA 6020	Molybdenum	0.074	mg/L	0.0010	05/04/21 10:13	
SM 2540C	Total Dissolved Solids	3340	mg/L	40.0	04/27/21 12:19	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	04/24/21 11:25	H3
50285591007	FB-04-042121					
SM 4500-H+B	pH at 25 Degrees C	6.8	Std. Units	0.10	04/24/21 11:31	H3
50285591008	GAMW-59-042121					
EPA 9056	Chloride	11.3	mg/L	0.25	05/05/21 05:55	

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SUMMARY OF DETECTION

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285591008	GAMW-59-042121					
EPA 9056	Fluoride	0.42	mg/L	0.050	05/05/21 05:55	
EPA 9056	Sulfate	473	mg/L	25.0	05/05/21 06:25	P8
EPA 6010	Boron	0.89	mg/L	0.10	05/05/21 09:37	
EPA 6010	Calcium	209	mg/L	5.0	05/05/21 10:15	
EPA 6010	Lithium	0.012	mg/L	0.0080	05/05/21 09:37	
EPA 6020	Arsenic	0.0012	mg/L	0.0010	05/04/21 10:22	
EPA 6020	Barium	0.048	mg/L	0.0010	05/04/21 10:22	
EPA 6020	Molybdenum	0.030	mg/L	0.0010	05/04/21 10:22	
SM 2540C	Total Dissolved Solids	756	mg/L	20.0	04/27/21 12:21	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/24/21 11:34	H3
50285705001	GAMW-16R-042221					
EPA 9056	Chloride	81.1	mg/L	2.5	05/06/21 19:12	
EPA 9056	Fluoride	0.39	mg/L	0.050	05/06/21 18:55	
EPA 9056	Sulfate	1060	mg/L	25.0	05/07/21 11:30	
EPA 6010	Boron	3.6	mg/L	0.10	05/05/21 09:39	
EPA 6010	Calcium	410	mg/L	5.0	05/05/21 10:17	
EPA 6020	Arsenic	0.0042	mg/L	0.0010	05/04/21 10:27	
EPA 6020	Barium	0.074	mg/L	0.0010	05/04/21 10:27	
EPA 6020	Cobalt	0.0064	mg/L	0.0010	05/04/21 10:27	
EPA 6020	Molybdenum	0.027	mg/L	0.0010	05/04/21 10:27	
SM 2540C	Total Dissolved Solids	1850	mg/L	20.0	04/27/21 17:14	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	04/24/21 11:42	H3
50285705002	GAMW-16BR-042221					
EPA 9056	Chloride	331	mg/L	25.0	05/07/21 11:46	
EPA 9056	Fluoride	0.41	mg/L	0.050	05/06/21 19:28	
EPA 9056	Sulfate	723	mg/L	25.0	05/07/21 11:46	
EPA 6010	Boron	24.8	mg/L	0.10	05/05/21 09:42	
EPA 6010	Calcium	380	mg/L	5.0	05/05/21 10:19	
EPA 6010	Lithium	0.033	mg/L	0.0080	05/05/21 09:42	
EPA 6020	Barium	0.073	mg/L	0.0010	05/04/21 10:31	
SM 2540C	Total Dissolved Solids	2080	mg/L	40.0	04/27/21 17:14	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	04/24/21 11:45	H3
50285705003	GAMW-59B-042221					
EPA 9056	Chloride	52.0	mg/L	2.5	05/06/21 20:50	
EPA 9056	Fluoride	0.45	mg/L	0.050	05/06/21 20:33	
EPA 9056	Sulfate	1180	mg/L	25.0	05/07/21 12:03	
EPA 6010	Boron	5.4	mg/L	0.10	05/05/21 09:44	
EPA 6010	Calcium	292	mg/L	5.0	05/05/21 10:28	
EPA 6010	Lithium	0.017	mg/L	0.0080	05/05/21 09:44	
EPA 6020	Barium	0.037	mg/L	0.0010	05/04/21 10:45	
EPA 6020	Molybdenum	0.044	mg/L	0.0010	05/04/21 10:45	
SM 2540C	Total Dissolved Solids	1860	mg/L	40.0	04/27/21 17:14	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/24/21 11:47	H3
50285705004	GAMW-08-042221					
EPA 9056	Chloride	50.0	mg/L	2.5	05/06/21 21:22	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285705004	GAMW-08-042221					
EPA 9056	Fluoride	0.97	mg/L	0.050	05/06/21 21:06	
EPA 9056	Sulfate	477	mg/L	25.0	05/07/21 12:19	
EPA 6010	Boron	0.89	mg/L	0.10	05/05/21 09:46	
EPA 6010	Calcium	266	mg/L	5.0	05/05/21 10:30	
EPA 6010	Lithium	0.012	mg/L	0.0080	05/05/21 09:46	
EPA 6020	Barium	0.070	mg/L	0.0010	05/04/21 10:50	
EPA 6020	Cobalt	0.017	mg/L	0.0010	05/04/21 10:50	
EPA 6020	Molybdenum	0.034	mg/L	0.0010	05/04/21 10:50	
EPA 6020	Selenium	0.010	mg/L	0.0010	05/04/21 10:50	
SM 2540C	Total Dissolved Solids	1120	mg/L	20.0	04/27/21 17:15	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	04/24/21 11:48	H3
50285705005	GAMW-08B-042221					
EPA 9056	Chloride	178	mg/L	25.0	05/07/21 12:35	
EPA 9056	Fluoride	0.90	mg/L	0.050	05/06/21 21:38	
EPA 9056	Sulfate	751	mg/L	25.0	05/07/21 12:35	
EPA 6010	Boron	7.7	mg/L	0.10	05/05/21 09:49	
EPA 6010	Calcium	198	mg/L	1.0	05/05/21 09:49	
EPA 6010	Lithium	0.012	mg/L	0.0080	05/05/21 09:49	
EPA 6020	Barium	0.039	mg/L	0.0010	05/04/21 10:54	
EPA 6020	Molybdenum	0.011	mg/L	0.0010	05/04/21 10:54	
SM 2540C	Total Dissolved Solids	1620	mg/L	20.0	04/27/21 17:15	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/24/21 11:49	H3
50285705006	GAMW-68-042221					
EPA 9056	Chloride	22.8	mg/L	2.5	05/06/21 22:27	
EPA 9056	Fluoride	0.16	mg/L	0.050	05/06/21 22:11	
EPA 9056	Sulfate	68.6	mg/L	2.5	05/06/21 22:27	
EPA 6010	Calcium	60.7	mg/L	1.0	05/05/21 09:51	
EPA 6020	Barium	0.085	mg/L	0.0010	05/04/21 10:59	
EPA 6020	Molybdenum	0.0035	mg/L	0.0010	05/04/21 10:59	
SM 2540C	Total Dissolved Solids	320	mg/L	10.0	04/27/21 17:16	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	04/24/21 11:50	H3
50285705007	GAMW-68B-042221					
EPA 9056	Chloride	19.5	mg/L	2.5	05/06/21 23:00	
EPA 9056	Fluoride	0.10	mg/L	0.050	05/06/21 22:44	
EPA 9056	Sulfate	62.5	mg/L	2.5	05/06/21 23:00	
EPA 6010	Calcium	43.5	mg/L	1.0	05/05/21 09:53	
EPA 6020	Barium	0.11	mg/L	0.0010	05/04/21 11:04	
EPA 6020	Molybdenum	0.0022	mg/L	0.0010	05/04/21 11:04	
SM 2540C	Total Dissolved Solids	2040	mg/L	40.0	04/27/21 17:16	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	04/24/21 11:51	H3

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Method: EPA 9056

Description: 9056 IC Anions

Client: NiSource_Golder

Date: May 07, 2021

General Information:

51 samples were analyzed for EPA 9056 by Pace Analytical Services Indianapolis. 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.

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.

Surrogates:

All surrogates 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:

Analyte Comments:

QC Batch: 617559

P8: Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

- GAMW-01-041421 (Lab ID: 50284873001)
 - Sulfate
- MS (Lab ID: 2845523)
 - Sulfate
- MSD (Lab ID: 2845524)
 - Sulfate

QC Batch: 618018

P8: Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

- MS (Lab ID: 2847456)
 - Chloride

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PROJECT NARRATIVE

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Method: EPA 9056

Description: 9056 IC Anions

Client: NiSource_Golder

Date: May 07, 2021

Analyte Comments:

QC Batch: 618018

P8: Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

- MSD (Lab ID: 2847457)
- Chloride

QC Batch: 618739

P8: Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

- GAMW-59-042121 (Lab ID: 50285591008)
- Sulfate

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PROJECT NARRATIVE

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Method: EPA 6010

Description: 6010 MET ICP

Client: NiSource_Golder

Date: May 07, 2021

General Information:

51 samples were analyzed for EPA 6010 by Pace Analytical Services Indianapolis. 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 3010 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.

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: 615857

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50284835003,50284835009

P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

- MS (Lab ID: 2838120)
 - Calcium
- MSD (Lab ID: 2838121)
 - Calcium

QC Batch: 617239

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50285630006,50285630010

P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

- MS (Lab ID: 2844634)
 - Calcium
- MS (Lab ID: 2844636)
 - Calcium
- MSD (Lab ID: 2844635)
 - Calcium

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PROJECT NARRATIVE

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Method: EPA 6010

Description: 6010 MET ICP

Client: NiSource_Golder

Date: May 07, 2021

QC Batch: 617242

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50285591003

P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

- MS (Lab ID: 2844644)
 - Calcium
- MSD (Lab ID: 2844645)
 - Boron
 - Calcium

Additional Comments:

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PROJECT NARRATIVE

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Method: EPA 6020

Description: 6020 MET ICPMS

Client: NiSource_Golder

Date: May 07, 2021

General Information:

51 samples were analyzed for EPA 6020 by Pace Analytical Services Indianapolis. 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 200.2 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:

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PROJECT NARRATIVE

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Method: EPA 7470

Description: 7470 Mercury

Client: NiSource_Golder

Date: May 07, 2021

General Information:

51 samples were analyzed for EPA 7470 by Pace Analytical Services Indianapolis. 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 7470 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.

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:

Analyte Comments:

QC Batch: 617558

2d: Bracketing CRDL recovery = 76%. FRW 4/29/21

- FB-01-041621 (Lab ID: 50285157008)
 - Mercury
- FD-02-041621 (Lab ID: 50285157010)
 - Mercury
- GAMW-07-041621 (Lab ID: 50285157002)
 - Mercury
- GAMW-07B-041621 (Lab ID: 50285157001)
 - Mercury
- GAMW-15-041621 (Lab ID: 50285157003)
 - Mercury
- GAMW-15B-041621 (Lab ID: 50285157009)
 - Mercury

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Method: EPA 7470

Description: 7470 Mercury

Client: NiSource_Golder

Date: May 07, 2021

Analyte Comments:

QC Batch: 617558

2d: Bracketing CRDL recovery = 76%. FRW 4/29/21

- GAMW-52B-041621 (Lab ID: 50285157005)
 - Mercury
- GAMW-53-041621 (Lab ID: 50285157006)
 - Mercury
- GAMW-53B-041621 (Lab ID: 50285157007)
 - Mercury

QC Batch: 617905

3d: CRDL recovery = 77%. FRW 5/5/21

- FB-04-042121 (Lab ID: 50285591007)
 - Mercury
- GAMW-18B-042121 (Lab ID: 50285591006)
 - Mercury
- GAMW-51-042121 (Lab ID: 50285591002)
 - Mercury
- GAMW-51B-042121 (Lab ID: 50285591003)
 - Mercury
- GAMW-56B-042121 (Lab ID: 50285591001)
 - Mercury
- GAMW-59-042121 (Lab ID: 50285591008)
 - Mercury
- GAMW-60-042121 (Lab ID: 50285591004)
 - Mercury
- GAMW-60B-042121 (Lab ID: 50285591005)
 - Mercury

QC Batch: 618451

3d: CRDL recovery = 77%. FRW 5/5/21

- GAMW-08-042221 (Lab ID: 50285705004)
 - Mercury
- GAMW-08B-042221 (Lab ID: 50285705005)
 - Mercury
- GAMW-16BR-042221 (Lab ID: 50285705002)
 - Mercury
- GAMW-16R-042221 (Lab ID: 50285705001)
 - Mercury
- GAMW-59B-042221 (Lab ID: 50285705003)
 - Mercury
- GAMW-68-042221 (Lab ID: 50285705006)
 - Mercury
- GAMW-68B-042221 (Lab ID: 50285705007)
 - Mercury

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: NiSource_Golder

Date: May 07, 2021

General Information:

51 samples were analyzed for SM 2540C by Pace Analytical Services Indianapolis. 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.

QC Batch: 617527

R1: RPD value was outside control limits.

- DUP (Lab ID: 2845384)
- Total Dissolved Solids

QC Batch: 617528

R1: RPD value was outside control limits.

- DUP (Lab ID: 2845389)
- Total Dissolved Solids

Additional Comments:

Analyte Comments:

QC Batch: 616837

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

- FB-01-041621 (Lab ID: 50285157008)
- Total Dissolved Solids

QC Batch: 617072

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

- FB-02-041921 (Lab ID: 50285295006)
- Total Dissolved Solids

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PROJECT NARRATIVE

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: NiSource_Golder

Date: May 07, 2021

Analyte Comments:

QC Batch: 617321

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

- FB-03-042021 (Lab ID: 50285463002)
- Total Dissolved Solids

QC Batch: 617528

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

- FB-04-042121 (Lab ID: 50285591007)
- Total Dissolved Solids

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: NiSource_Golder

Date: May 07, 2021

General Information:

51 samples were analyzed for SM 4500-H+B by Pace Analytical Services Indianapolis. 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.

H3: Sample was received or analysis requested beyond the recognized method holding time.

- FB-01-041621 (Lab ID: 50285157008)
- FB-02-041921 (Lab ID: 50285295006)
- FB-03-042021 (Lab ID: 50285463002)
- FB-04-042121 (Lab ID: 50285591007)
- FD-01-041521 (Lab ID: 50285068004)
- FD-02-041621 (Lab ID: 50285157010)
- FD-03-041921 (Lab ID: 50285295005)
- FD-04-042021 (Lab ID: 50285463001)
- GAMW-01-041421 (Lab ID: 50284873001)
- GAMW-01B-041421 (Lab ID: 50284873002)
- GAMW-03-041421 (Lab ID: 50284873003)
- GAMW-03B-041521 (Lab ID: 50285068002)
- GAMW-04-041521 (Lab ID: 50285068003)
- GAMW-07-041621 (Lab ID: 50285157002)
- GAMW-07B-041621 (Lab ID: 50285157001)
- GAMW-08-042221 (Lab ID: 50285705004)
- GAMW-08B-042221 (Lab ID: 50285705005)
- GAMW-09-042021 (Lab ID: 50285463005)
- GAMW-09B-042021 (Lab ID: 50285463004)
- GAMW-12-041521 (Lab ID: 50285068005)
- GAMW-12B-041521 (Lab ID: 50285068001)
- GAMW-13-041921 (Lab ID: 50285295001)
- GAMW-13B-041921 (Lab ID: 50285295002)
- GAMW-14-041921 (Lab ID: 50285295003)
- GAMW-14B-041921 (Lab ID: 50285295004)
- GAMW-15-041621 (Lab ID: 50285157003)
- GAMW-15B-041621 (Lab ID: 50285157009)
- GAMW-16BR-042221 (Lab ID: 50285705002)
- GAMW-16R-042221 (Lab ID: 50285705001)
- GAMW-17-041421 (Lab ID: 50284873004)
- GAMW-17B-041421 (Lab ID: 50284873005)
- GAMW-18--042021 (Lab ID: 50285463003)
- GAMW-18B-042121 (Lab ID: 50285591006)
- GAMW-51-042121 (Lab ID: 50285591002)
- GAMW-51B-042121 (Lab ID: 50285591003)
- GAMW-52-041621 (Lab ID: 50285157004)
- GAMW-52B-041621 (Lab ID: 50285157005)

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PROJECT NARRATIVE

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: NiSource_Golder

Date: May 07, 2021

H3: Sample was received or analysis requested beyond the recognized method holding time.

- GAMW-53-041621 (Lab ID: 50285157006)
- GAMW-53B-041621 (Lab ID: 50285157007)
- GAMW-54-041921 (Lab ID: 50285295007)
- GAMW-54B-041921 (Lab ID: 50285295008)
- GAMW-55B-042021 (Lab ID: 50285463007)
- GAMW-55R-042021 (Lab ID: 50285463006)
- GAMW-56-042021 (Lab ID: 50285463008)
- GAMW-56B-042121 (Lab ID: 50285591001)
- GAMW-59-042121 (Lab ID: 50285591008)
- GAMW-59B-042221 (Lab ID: 50285705003)
- GAMW-60-042121 (Lab ID: 50285591004)
- GAMW-60B-042121 (Lab ID: 50285591005)
- GAMW-68-042221 (Lab ID: 50285705006)
- GAMW-68B-042221 (Lab ID: 50285705007)

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:

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: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-01-041421		Lab ID: 50284873001		Collected: 04/14/21 10:50		Received: 04/15/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	10.1	mg/L	0.25	1		04/27/21 20:20	16887-00-6		
Fluoride	0.29	mg/L	0.050	1		04/27/21 20:20	16984-48-8		
Sulfate	157	mg/L	2.5	10		04/27/21 20:35	14808-79-8	P8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	0.78	mg/L	0.10	1	04/20/21 14:18	04/23/21 23:06	7440-42-8		
Calcium	95.2	mg/L	1.0	1	04/20/21 14:18	04/23/21 23:06	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/20/21 14:18	04/23/21 23:06	7439-93-2		
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	04/22/21 08:23	04/23/21 09:43	7440-36-0		
Arsenic	0.012	mg/L	0.0010	1	04/22/21 08:23	04/23/21 09:43	7440-38-2		
Barium	0.051	mg/L	0.0010	1	04/22/21 08:23	04/23/21 09:43	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/22/21 08:23	04/23/21 09:43	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/22/21 08:23	04/23/21 09:43	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/22/21 08:23	04/23/21 09:43	7440-47-3		
Cobalt	0.0019	mg/L	0.0010	1	04/22/21 08:23	04/23/21 09:43	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/22/21 08:23	04/23/21 09:43	7439-92-1		
Molybdenum	0.011	mg/L	0.0010	1	04/22/21 08:23	04/23/21 09:43	7439-98-7		
Selenium	0.010	mg/L	0.0010	1	04/22/21 08:23	04/23/21 09:43	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/22/21 08:23	04/23/21 09:43	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	04/21/21 21:07	04/22/21 09:47	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	574	mg/L	10.0	1		04/20/21 12:45			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.3	Std. Units	0.10	1		04/16/21 12:56		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-01B-041421		Lab ID: 50284873002		Collected: 04/14/21 12:10		Received: 04/15/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	20.8	mg/L	2.5	10		04/27/21 21:48	16887-00-6		
Fluoride	0.076	mg/L	0.050	1		04/27/21 21:34	16984-48-8		
Sulfate	85.2	mg/L	2.5	10		04/27/21 21:48	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.35	mg/L	0.10	1	04/20/21 14:18	04/23/21 23:08	7440-42-8		
Calcium	103	mg/L	1.0	1	04/20/21 14:18	04/23/21 23:08	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/20/21 14:18	04/23/21 23:08	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:16	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:16	7440-38-2		
Barium	0.17	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:16	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/22/21 08:23	04/23/21 10:16	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/22/21 08:23	04/23/21 10:16	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/22/21 08:23	04/23/21 10:16	7440-47-3		
Cobalt	0.0010	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:16	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:16	7439-92-1		
Molybdenum	ND	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:16	7439-98-7		
Selenium	ND	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:16	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:16	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/21/21 21:07	04/22/21 09:49	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	450	mg/L	10.0	1		04/20/21 12:46			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	1		04/16/21 12:58		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-03-041421		Lab ID: 50284873003		Collected: 04/14/21 15:15		Received: 04/15/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	4.3	mg/L	0.25	1		04/27/21 22:18	16887-00-6		
Fluoride	0.13	mg/L	0.050	1		04/27/21 22:18	16984-48-8		
Sulfate	97.5	mg/L	2.5	10		04/27/21 22:33	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.22	mg/L	0.10	1	04/20/21 14:18	04/23/21 23:10	7440-42-8		
Calcium	90.3	mg/L	1.0	1	04/20/21 14:18	04/23/21 23:10	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/20/21 14:18	04/23/21 23:10	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:20	7440-36-0		
Arsenic	0.0094	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:20	7440-38-2		
Barium	0.074	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:20	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/22/21 08:23	04/23/21 10:20	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/22/21 08:23	04/23/21 10:20	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/22/21 08:23	04/23/21 10:20	7440-47-3		
Cobalt	0.0055	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:20	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:20	7439-92-1		
Molybdenum	0.011	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:20	7439-98-7		
Selenium	ND	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:20	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:20	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/21/21 21:07	04/22/21 09:52	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	390	mg/L	10.0	1		04/20/21 12:46			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.0	Std. Units	0.10	1		04/16/21 13:00		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-17-041421		Lab ID: 50284873004		Collected: 04/14/21 15:08		Received: 04/15/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	79.0	mg/L	2.5	10		04/27/21 23:17	16887-00-6		
Fluoride	1.2	mg/L	0.050	1		04/27/21 23:02	16984-48-8		
Sulfate	358	mg/L	25.0	100		04/27/21 23:32	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	4.3	mg/L	0.10	1	04/20/21 14:18	04/23/21 23:12	7440-42-8		
Calcium	139	mg/L	1.0	1	04/20/21 14:18	04/23/21 23:12	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/20/21 14:18	04/23/21 23:12	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:25	7440-36-0		
Arsenic	0.0024	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:25	7440-38-2		
Barium	0.059	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:25	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/22/21 08:23	04/23/21 10:25	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/22/21 08:23	04/23/21 10:25	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/22/21 08:23	04/23/21 10:25	7440-47-3		
Cobalt	0.0012	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:25	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:25	7439-92-1		
Molybdenum	0.012	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:25	7439-98-7		
Selenium	0.010	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:25	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:25	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/21/21 21:07	04/22/21 09:54	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	806	mg/L	10.0	1		04/20/21 12:46			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	1		04/16/21 13:01		H3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-17B-041421		Lab ID: 50284873005		Collected: 04/14/21 14:15		Received: 04/15/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	135	mg/L	25.0	100		04/28/21 00:46	16887-00-6		
Fluoride	0.30	mg/L	0.050	1		04/28/21 00:16	16984-48-8		
Sulfate	549	mg/L	25.0	100		04/28/21 00:46	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	10.2	mg/L	0.10	1	04/20/21 14:18	04/23/21 23:14	7440-42-8		
Calcium	164	mg/L	1.0	1	04/20/21 14:18	04/23/21 23:14	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/20/21 14:18	04/23/21 23:14	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:30	7440-36-0		
Arsenic	0.0012	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:30	7440-38-2		
Barium	0.094	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:30	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/22/21 08:23	04/23/21 10:30	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/22/21 08:23	04/23/21 10:30	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/22/21 08:23	04/23/21 10:30	7440-47-3		
Cobalt	0.0015	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:30	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:30	7439-92-1		
Molybdenum	0.0058	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:30	7439-98-7		
Selenium	ND	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:30	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/22/21 08:23	04/23/21 10:30	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/21/21 21:07	04/22/21 09:56	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1250	mg/L	20.0	1		04/20/21 12:47			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.6	Std. Units	0.10	1		04/16/21 13:03		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-12B-041521		Lab ID: 50285068001		Collected: 04/15/21 13:00		Received: 04/16/21 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	20.8	mg/L	2.5	10		04/29/21 20:25	16887-00-6		
Fluoride	0.082	mg/L	0.050	1		04/29/21 20:10	16984-48-8		
Sulfate	66.5	mg/L	2.5	10		04/29/21 20:25	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.31	mg/L	0.10	1	04/23/21 06:35	04/28/21 09:52	7440-42-8		
Calcium	104	mg/L	1.0	1	04/23/21 06:35	04/28/21 09:52	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/23/21 06:35	04/28/21 09:52	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 13:48	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 13:48	7440-38-2		
Barium	0.13	mg/L	0.0010	1	04/26/21 08:29	04/27/21 13:48	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 13:48	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 13:48	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/26/21 08:29	04/27/21 13:48	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 13:48	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 13:48	7439-92-1		
Molybdenum	0.0012	mg/L	0.0010	1	04/26/21 08:29	04/27/21 13:48	7439-98-7		
Selenium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 13:48	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 13:48	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/23/21 12:40	04/26/21 09:13	7439-97-6	F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	430	mg/L	10.0	1		04/21/21 17:08			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.3	Std. Units	0.10	1		04/16/21 13:50		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-03B-041521		Lab ID: 50285068002		Collected: 04/15/21 14:25		Received: 04/16/21 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	20.1	mg/L	2.5	10		04/29/21 21:12	16887-00-6		
Fluoride	0.20	mg/L	0.050	1		04/29/21 20:56	16984-48-8		
Sulfate	58.0	mg/L	2.5	10		04/29/21 21:12	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.25	mg/L	0.10	1	04/23/21 06:35	04/28/21 09:54	7440-42-8		
Calcium	96.4	mg/L	1.0	1	04/23/21 06:35	04/28/21 09:54	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/23/21 06:35	04/28/21 09:54	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 13:53	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 13:53	7440-38-2		
Barium	0.11	mg/L	0.0010	1	04/26/21 08:29	04/27/21 13:53	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 13:53	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 13:53	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/26/21 08:29	04/27/21 13:53	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 13:53	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 13:53	7439-92-1		
Molybdenum	0.0051	mg/L	0.0010	1	04/26/21 08:29	04/27/21 13:53	7439-98-7		
Selenium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 13:53	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 13:53	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/23/21 12:40	04/26/21 09:16	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	400	mg/L	10.0	1		04/21/21 17:08			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	1		04/16/21 13:51		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-04-041521		Lab ID: 50285068003		Collected: 04/15/21 15:35		Received: 04/16/21 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	6.2	mg/L	0.25	1		04/29/21 23:46	16887-00-6		
Fluoride	0.20	mg/L	0.050	1		04/29/21 23:46	16984-48-8		
Sulfate	375	mg/L	25.0	100		04/30/21 00:17	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	1.1	mg/L	0.10	1	04/23/21 06:35	04/28/21 10:29	7440-42-8		
Calcium	178	mg/L	1.0	1	04/23/21 06:35	04/28/21 10:29	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/23/21 06:35	04/28/21 10:29	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:07	7440-36-0		
Arsenic	0.0019	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:07	7440-38-2		
Barium	0.079	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:07	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 14:07	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 14:07	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/26/21 08:29	04/27/21 14:07	7440-47-3		
Cobalt	0.0016	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:07	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:07	7439-92-1		
Molybdenum	0.066	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:07	7439-98-7		
Selenium	0.0033	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:07	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:07	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/23/21 12:40	04/26/21 09:23	7439-97-6	F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	726	mg/L	10.0	1		04/21/21 17:08			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	1		04/16/21 13:53		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: FD-01-041521		Lab ID: 50285068004		Collected: 04/15/21 12:00		Received: 04/16/21 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	20.5	mg/L	2.5	10		04/30/21 00:48	16887-00-6		
Fluoride	0.079	mg/L	0.050	1		04/30/21 00:32	16984-48-8		
Sulfate	63.8	mg/L	2.5	10		04/30/21 00:48	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.29	mg/L	0.10	1	04/23/21 06:35	04/28/21 10:31	7440-42-8		
Calcium	103	mg/L	1.0	1	04/23/21 06:35	04/28/21 10:31	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/23/21 06:35	04/28/21 10:31	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:21	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:21	7440-38-2		
Barium	0.13	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:21	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 14:21	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 14:21	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/26/21 08:29	04/27/21 14:21	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:21	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:21	7439-92-1		
Molybdenum	0.0012	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:21	7439-98-7		
Selenium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:21	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:21	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/23/21 12:40	04/26/21 09:25	7439-97-6	F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	435	mg/L	10.0	1		04/21/21 17:09			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	1		04/16/21 13:54		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-12-041521		Lab ID: 50285068005		Collected: 04/15/21 10:55		Received: 04/16/21 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	2.3	mg/L	0.25	1		04/30/21 01:50	16887-00-6		
Fluoride	0.16	mg/L	0.050	1		04/30/21 01:50	16984-48-8		
Sulfate	9.2	mg/L	0.25	1		04/30/21 01:50	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	1	04/23/21 06:35	04/28/21 10:33	7440-42-8		
Calcium	87.0	mg/L	1.0	1	04/23/21 06:35	04/28/21 10:33	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/23/21 06:35	04/28/21 10:33	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:25	7440-36-0		
Arsenic	0.012	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:25	7440-38-2		
Barium	0.095	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:25	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 14:25	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 14:25	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/26/21 08:29	04/27/21 14:25	7440-47-3		
Cobalt	0.0025	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:25	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:25	7439-92-1		
Molybdenum	0.0028	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:25	7439-98-7		
Selenium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:25	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:25	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/23/21 12:40	04/26/21 09:28	7439-97-6	F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	336	mg/L	10.0	1		04/21/21 17:09			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.0	Std. Units	0.10	1		04/16/21 13:55		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-07B-041621		Lab ID: 50285157001		Collected: 04/16/21 09:10		Received: 04/17/21 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	38.0	mg/L	2.5	10		04/29/21 13:29	16887-00-6		
Fluoride	0.79	mg/L	0.050	1		04/29/21 13:14	16984-48-8		
Sulfate	1010	mg/L	25.0	100		04/29/21 13:44	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	5.9	mg/L	0.10	1	04/22/21 13:35	04/27/21 10:06	7440-42-8		
Calcium	327	mg/L	2.0	2	04/22/21 13:35	04/27/21 12:07	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/22/21 13:35	04/27/21 10:06	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:30	7440-36-0		
Arsenic	0.0022	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:30	7440-38-2		
Barium	0.041	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:30	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 14:30	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 14:30	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/26/21 08:29	04/27/21 14:30	7440-47-3		
Cobalt	0.0011	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:30	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:30	7439-92-1		
Molybdenum	0.029	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:30	7439-98-7		
Selenium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:30	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:30	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/28/21 19:51	04/29/21 00:11	7439-97-6	2d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1700	mg/L	20.0	1		04/22/21 10:23			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	1		04/20/21 12:04		H3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-07-041621		Lab ID: 50285157002		Collected: 04/16/21 10:35		Received: 04/17/21 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	11.7	mg/L	2.5	10		04/29/21 14:13	16887-00-6		
Fluoride	0.66	mg/L	0.050	1		04/29/21 13:59	16984-48-8		
Sulfate	352	mg/L	25.0	100		04/29/21 14:28	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.81	mg/L	0.10	1	04/22/21 13:35	04/27/21 10:08	7440-42-8		
Calcium	198	mg/L	1.0	1	04/22/21 13:35	04/27/21 10:08	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/22/21 13:35	04/27/21 10:08	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:35	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:35	7440-38-2		
Barium	0.046	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:35	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 14:35	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 14:35	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/26/21 08:29	04/27/21 14:35	7440-47-3		
Cobalt	0.0056	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:35	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:35	7439-92-1		
Molybdenum	0.0078	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:35	7439-98-7		
Selenium	0.0069	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:35	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:35	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/28/21 19:51	04/29/21 00:13	7439-97-6	2d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	846	mg/L	20.0	1		04/22/21 10:24			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.1	Std. Units	0.10	1		04/20/21 12:09		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-15-041621		Lab ID: 50285157003		Collected: 04/16/21 13:40		Received: 04/17/21 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	99.3	mg/L	2.5	10		04/29/21 14:58	16887-00-6		
Fluoride	0.76	mg/L	0.050	1		04/29/21 14:43	16984-48-8		
Sulfate	371	mg/L	25.0	100		04/29/21 15:42	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	8.0	mg/L	0.10	1	04/22/21 13:35	04/27/21 10:29	7440-42-8		
Calcium	160	mg/L	1.0	1	04/22/21 13:35	04/27/21 10:29	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/22/21 13:35	04/27/21 10:29	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:39	7440-36-0		
Arsenic	0.046	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:39	7440-38-2		
Barium	0.058	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:39	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 14:39	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 14:39	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/26/21 08:29	04/27/21 14:39	7440-47-3		
Cobalt	0.0030	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:39	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:39	7439-92-1		
Molybdenum	0.028	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:39	7439-98-7		
Selenium	0.0036	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:39	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:39	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/28/21 19:51	04/29/21 00:15	7439-97-6	2d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	770	mg/L	20.0	1		04/22/21 10:28			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.1	Std. Units	0.10	1		04/20/21 12:32		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-52-041621		Lab ID: 50285157004		Collected: 04/16/21 11:25		Received: 04/17/21 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	18.7	mg/L	2.5	10		04/29/21 16:12	16887-00-6		
Fluoride	0.22	mg/L	0.050	1		04/29/21 15:57	16984-48-8		
Sulfate	55.8	mg/L	2.5	10		04/29/21 16:12	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.10	mg/L	0.10	1	04/22/21 13:35	04/27/21 10:31	7440-42-8		
Calcium	59.9	mg/L	1.0	1	04/22/21 13:35	04/27/21 10:31	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/22/21 13:35	04/27/21 10:31	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:53	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:53	7440-38-2		
Barium	0.011	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:53	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 14:53	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 14:53	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/26/21 08:29	04/27/21 14:53	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:53	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:53	7439-92-1		
Molybdenum	0.0021	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:53	7439-98-7		
Selenium	0.0011	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:53	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 14:53	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/28/21 19:51	04/29/21 00:17	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	269	mg/L	10.0	1		04/22/21 10:29			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.6	Std. Units	0.10	1		04/20/21 12:13		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-52B-041621		Lab ID: 50285157005		Collected: 04/16/21 10:25		Received: 04/17/21 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	131	mg/L	25.0	100		04/29/21 17:11	16887-00-6		
Fluoride	0.24	mg/L	0.050	1		04/29/21 16:41	16984-48-8		
Sulfate	181	mg/L	2.5	10		04/29/21 16:56	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	1.2	mg/L	0.10	1	04/22/21 13:35	04/27/21 10:45	7440-42-8		
Calcium	94.9	mg/L	1.0	1	04/22/21 13:35	04/27/21 10:45	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/22/21 13:35	04/27/21 10:45	7439-93-2		
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:26	7440-36-0		
Arsenic	0.0011	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:26	7440-38-2		
Barium	0.15	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:26	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 15:26	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 15:26	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/26/21 08:29	04/27/21 15:26	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:26	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:26	7439-92-1		
Molybdenum	0.013	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:26	7439-98-7		
Selenium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:26	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:26	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	04/28/21 19:51	04/29/21 00:24	7439-97-6	2d,F5	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	673	mg/L	10.0	1		04/22/21 10:30			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	1		04/20/21 12:08		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-53-041621		Lab ID: 50285157006		Collected: 04/16/21 13:35		Received: 04/17/21 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	2.4	mg/L	0.25	1		04/29/21 17:25	16887-00-6		
Fluoride	ND	mg/L	0.050	1		04/29/21 17:25	16984-48-8		
Sulfate	35.2	mg/L	2.5	10		04/29/21 17:40	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	1	04/22/21 13:35	04/27/21 10:47	7440-42-8		
Calcium	17.5	mg/L	1.0	1	04/22/21 13:35	04/27/21 10:47	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/22/21 13:35	04/27/21 10:47	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:30	7440-36-0		
Arsenic	0.0012	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:30	7440-38-2		
Barium	0.027	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:30	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 15:30	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 15:30	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/26/21 08:29	04/27/21 15:30	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:30	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:30	7439-92-1		
Molybdenum	0.0052	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:30	7439-98-7		
Selenium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:30	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:30	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/28/21 19:51	04/29/21 00:26	7439-97-6	2d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	97	mg/L	10.0	1		04/22/21 11:47			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	5.9	Std. Units	0.10	1		04/20/21 12:28		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-53B-041621		Lab ID: 50285157007		Collected: 04/16/21 15:15		Received: 04/17/21 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	84.8	mg/L	2.5	10		04/29/21 18:54	16887-00-6		
Fluoride	0.40	mg/L	0.050	1		04/29/21 18:39	16984-48-8		
Sulfate	304	mg/L	25.0	100		04/29/21 19:09	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	1.9	mg/L	0.10	1	04/22/21 13:35	04/27/21 10:49	7440-42-8		
Calcium	142	mg/L	1.0	1	04/22/21 13:35	04/27/21 10:49	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/22/21 13:35	04/27/21 10:49	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:35	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:35	7440-38-2		
Barium	0.067	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:35	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 15:35	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 15:35	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/26/21 08:29	04/27/21 15:35	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:35	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:35	7439-92-1		
Molybdenum	0.015	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:35	7439-98-7		
Selenium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:35	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:35	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/28/21 19:51	04/29/21 00:32	7439-97-6	2d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	748	mg/L	20.0	1		04/22/21 11:48			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.6	Std. Units	0.10	1		04/20/21 12:37		H3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: FB-01-041621		Lab ID: 50285157008		Collected: 04/16/21 11:43		Received: 04/17/21 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	ND	mg/L	0.25	1		04/29/21 19:24	16887-00-6		
Fluoride	ND	mg/L	0.050	1		04/29/21 19:24	16984-48-8		
Sulfate	ND	mg/L	0.25	1		04/29/21 19:24	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	ND	mg/L	0.10	1	04/22/21 13:35	04/27/21 10:51	7440-42-8		
Calcium	ND	mg/L	1.0	1	04/22/21 13:35	04/27/21 10:51	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/22/21 13:35	04/27/21 10:51	7439-93-2		
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:40	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:40	7440-38-2		
Barium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:40	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 15:40	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 15:40	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/26/21 08:29	04/27/21 15:40	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:40	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:40	7439-92-1		
Molybdenum	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:40	7439-98-7		
Selenium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:40	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:40	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	04/28/21 19:51	04/29/21 00:34	7439-97-6	2d,F5	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	ND	mg/L	10.0	1		04/22/21 11:49		PL	
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	1		04/20/21 12:16		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-15B-041621		Lab ID: 50285157009		Collected: 04/16/21 14:35		Received: 04/17/21 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	396	mg/L	25.0	100		04/29/21 20:08	16887-00-6		
Fluoride	0.35	mg/L	0.050	1		04/29/21 19:38	16984-48-8		
Sulfate	643	mg/L	25.0	100		04/29/21 20:08	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	32.5	mg/L	0.10	1	04/22/21 13:35	04/27/21 10:53	7440-42-8		
Calcium	321	mg/L	2.0	2	04/22/21 13:35	04/27/21 12:09	7440-70-2		
Lithium	0.012	mg/L	0.0080	1	04/22/21 13:35	04/27/21 10:53	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:44	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:44	7440-38-2		
Barium	0.18	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:44	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 15:44	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 15:44	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/26/21 08:29	04/27/21 15:44	7440-47-3		
Cobalt	0.0010	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:44	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:44	7439-92-1		
Molybdenum	0.0012	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:44	7439-98-7		
Selenium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:44	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:44	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/28/21 19:51	04/29/21 00:37	7439-97-6	2d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1870	mg/L	40.0	1		04/22/21 11:50			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.0	Std. Units	0.10	1		04/20/21 12:33		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: FD-02-041621		Lab ID: 50285157010		Collected: 04/16/21 12:00		Received: 04/17/21 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	372	mg/L	25.0	100		04/29/21 20:52	16887-00-6		
Fluoride	0.37	mg/L	0.050	1		04/29/21 20:23	16984-48-8		
Sulfate	596	mg/L	25.0	100		04/29/21 20:52	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	32.7	mg/L	0.10	1	04/22/21 13:35	04/27/21 10:55	7440-42-8		
Calcium	335	mg/L	2.0	2	04/22/21 13:35	04/27/21 12:11	7440-70-2		
Lithium	0.011	mg/L	0.0080	1	04/22/21 13:35	04/27/21 10:55	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:49	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:49	7440-38-2		
Barium	0.18	mg/L	0.0020	2	04/26/21 08:29	04/28/21 06:10	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 15:49	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/26/21 08:29	04/27/21 15:49	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/26/21 08:29	04/27/21 15:49	7440-47-3		
Cobalt	0.0011	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:49	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:49	7439-92-1		
Molybdenum	0.0012	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:49	7439-98-7		
Selenium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:49	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/26/21 08:29	04/27/21 15:49	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/28/21 19:51	04/29/21 00:39	7439-97-6	2d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1740	mg/L	40.0	1		04/22/21 11:50			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.1	Std. Units	0.10	1		04/20/21 12:20		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-13-041921		Lab ID: 50285295001		Collected: 04/19/21 14:45		Received: 04/20/21 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	4.3	mg/L	0.25	1		05/04/21 00:45	16887-00-6		
Fluoride	0.27	mg/L	0.050	1		05/04/21 00:45	16984-48-8		
Sulfate	48.6	mg/L	2.5	10		05/04/21 01:01	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.16	mg/L	0.10	1	04/27/21 06:35	04/29/21 23:05	7440-42-8		
Calcium	95.6	mg/L	1.0	1	04/27/21 06:35	04/29/21 23:05	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/27/21 06:35	04/29/21 23:05	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 10:55	7440-36-0		
Arsenic	0.027	mg/L	0.0010	1	04/28/21 17:25	04/29/21 10:55	7440-38-2		
Barium	0.11	mg/L	0.0010	1	04/28/21 17:25	04/29/21 10:55	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 10:55	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 10:55	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/28/21 17:25	04/29/21 10:55	7440-47-3		
Cobalt	0.0012	mg/L	0.0010	1	04/28/21 17:25	04/29/21 10:55	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 10:55	7439-92-1		
Molybdenum	0.0096	mg/L	0.0010	1	04/28/21 17:25	04/29/21 10:55	7439-98-7		
Selenium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 10:55	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 10:55	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/29/21 01:35	04/30/21 12:37	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	355	mg/L	10.0	1		04/23/21 09:58			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	1		04/23/21 14:16		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-13B-041921		Lab ID: 50285295002		Collected: 04/19/21 13:30		Received: 04/20/21 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	28.3	mg/L	2.5	10		05/04/21 02:18	16887-00-6		
Fluoride	0.31	mg/L	0.050	1		05/04/21 02:03	16984-48-8		
Sulfate	146	mg/L	2.5	10		05/04/21 02:18	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.71	mg/L	0.10	1	04/27/21 06:35	04/29/21 23:07	7440-42-8		
Calcium	82.7	mg/L	1.0	1	04/27/21 06:35	04/29/21 23:07	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/27/21 06:35	04/29/21 23:07	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 10:59	7440-36-0		
Arsenic	0.0012	mg/L	0.0010	1	04/28/21 17:25	04/29/21 10:59	7440-38-2		
Barium	0.081	mg/L	0.0010	1	04/28/21 17:25	04/29/21 10:59	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 10:59	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 10:59	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/28/21 17:25	04/29/21 10:59	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 10:59	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 10:59	7439-92-1		
Molybdenum	0.016	mg/L	0.0010	1	04/28/21 17:25	04/29/21 10:59	7439-98-7		
Selenium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 10:59	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 10:59	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/29/21 01:35	04/30/21 12:39	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	376	mg/L	10.0	1		04/23/21 09:59			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.7	Std. Units	0.10	1		04/23/21 14:14		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-14-041921		Lab ID: 50285295003		Collected: 04/19/21 10:45		Received: 04/20/21 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	11.3	mg/L	0.25	1		05/04/21 02:49	16887-00-6		
Fluoride	0.26	mg/L	0.050	1		05/04/21 02:49	16984-48-8		
Sulfate	40.6	mg/L	2.5	10		05/04/21 03:04	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.29	mg/L	0.10	1	04/27/21 06:35	04/29/21 23:14	7440-42-8		
Calcium	67.7	mg/L	1.0	1	04/27/21 06:35	04/29/21 23:14	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/27/21 06:35	04/29/21 23:14	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:04	7440-36-0		
Arsenic	0.018	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:04	7440-38-2		
Barium	0.061	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:04	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 11:04	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 11:04	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/28/21 17:25	04/29/21 11:04	7440-47-3		
Cobalt	0.017	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:04	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:04	7439-92-1		
Molybdenum	0.0073	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:04	7439-98-7		
Selenium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:04	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:04	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/29/21 01:35	04/30/21 12:41	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	270	mg/L	10.0	1		04/23/21 09:59			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.0	Std. Units	0.10	1		04/23/21 14:10		H3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-14B-041921		Lab ID: 50285295004		Collected: 04/19/21 09:00		Received: 04/20/21 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	108	mg/L	2.5	10		05/04/21 03:51	16887-00-6		
Fluoride	0.29	mg/L	0.050	1		05/04/21 03:35	16984-48-8		
Sulfate	1350	mg/L	25.0	100		05/04/21 04:06	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	2.8	mg/L	0.10	1	04/27/21 06:35	04/29/21 23:16	7440-42-8		
Calcium	143	mg/L	1.0	1	04/27/21 06:35	04/29/21 23:16	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/27/21 06:35	04/29/21 23:16	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:36	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:36	7440-38-2		
Barium	0.080	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:36	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 11:36	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 11:36	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/28/21 17:25	04/29/21 11:36	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:36	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:36	7439-92-1		
Molybdenum	0.028	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:36	7439-98-7		
Selenium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:36	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:36	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/29/21 01:35	04/30/21 12:43	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1740	mg/L	40.0	1		04/23/21 10:00			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	1		04/23/21 15:30		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: FD-03-041921		Lab ID: 50285295005		Collected: 04/19/21 12:00		Received: 04/20/21 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	112	mg/L	2.5	10		05/04/21 05:07	16887-00-6		
Fluoride	0.29	mg/L	0.050	1		05/04/21 04:52	16984-48-8		
Sulfate	1330	mg/L	25.0	100		05/04/21 05:23	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	2.8	mg/L	0.10	1	04/27/21 06:35	04/29/21 23:18	7440-42-8		
Calcium	146	mg/L	1.0	1	04/27/21 06:35	04/29/21 23:18	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/27/21 06:35	04/29/21 23:18	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:41	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:41	7440-38-2		
Barium	0.080	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:41	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 11:41	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 11:41	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/28/21 17:25	04/29/21 11:41	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:41	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:41	7439-92-1		
Molybdenum	0.028	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:41	7439-98-7		
Selenium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:41	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:41	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/29/21 01:35	04/30/21 12:50	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1730	mg/L	40.0	1		04/23/21 10:00			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	1		04/23/21 15:35		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: FB-02-041921		Lab ID: 50285295006		Collected: 04/19/21 10:27		Received: 04/20/21 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	ND	mg/L	0.25	1		05/04/21 05:38	16887-00-6		
Fluoride	ND	mg/L	0.050	1		05/04/21 05:38	16984-48-8		
Sulfate	ND	mg/L	0.25	1		05/04/21 05:38	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	ND	mg/L	0.10	1	04/27/21 06:35	04/29/21 23:20	7440-42-8		
Calcium	ND	mg/L	1.0	1	04/27/21 06:35	04/29/21 23:20	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/27/21 06:35	04/29/21 23:20	7439-93-2		
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:46	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:46	7440-38-2		
Barium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:46	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 11:46	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 11:46	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/28/21 17:25	04/29/21 11:46	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:46	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:46	7439-92-1		
Molybdenum	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:46	7439-98-7		
Selenium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:46	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 11:46	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	04/29/21 01:35	04/30/21 12:52	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	ND	mg/L	10.0	1		04/23/21 10:00		PL	
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.1	Std. Units	0.10	1		04/23/21 15:42		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-54-041921		Lab ID: 50285295007		Collected: 04/19/21 11:25		Received: 04/20/21 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	53.9	mg/L	2.5	10		05/04/21 06:09	16887-00-6		
Fluoride	0.20	mg/L	0.050	1		05/04/21 05:54	16984-48-8		
Sulfate	492	mg/L	25.0	100		05/04/21 06:24	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.50	mg/L	0.10	1	04/27/21 06:35	04/29/21 23:23	7440-42-8		
Calcium	164	mg/L	1.0	1	04/27/21 06:35	04/29/21 23:23	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/27/21 06:35	04/29/21 23:23	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:00	7440-36-0		
Arsenic	0.0075	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:00	7440-38-2		
Barium	0.071	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:00	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 12:00	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 12:00	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/28/21 17:25	04/29/21 12:00	7440-47-3		
Cobalt	0.0011	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:00	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:00	7439-92-1		
Molybdenum	0.011	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:00	7439-98-7		
Selenium	0.0044	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:00	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:00	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/29/21 01:35	04/30/21 12:58	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	735	mg/L	10.0	1		04/23/21 10:01			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	6.7	Std. Units	0.10	1		04/23/21 15:44		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-54B-041921		Lab ID: 50285295008		Collected: 04/19/21 13:55		Received: 04/20/21 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	83.9	mg/L	2.5	10		05/04/21 06:55	16887-00-6		
Fluoride	0.53	mg/L	0.050	1		05/04/21 06:40	16984-48-8		
Sulfate	891	mg/L	25.0	100		05/04/21 07:10	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	3.1	mg/L	0.10	1	04/27/21 06:35	04/29/21 23:25	7440-42-8		
Calcium	236	mg/L	2.0	2	04/27/21 06:35	04/29/21 23:34	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/27/21 06:35	04/29/21 23:25	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:04	7440-36-0		
Arsenic	0.0044	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:04	7440-38-2		
Barium	0.063	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:04	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 12:04	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 12:04	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/28/21 17:25	04/29/21 12:04	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:04	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:04	7439-92-1		
Molybdenum	0.017	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:04	7439-98-7		
Selenium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:04	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:04	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/29/21 01:35	04/30/21 13:00	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1120	mg/L	20.0	1		04/23/21 10:01			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.6	Std. Units	0.10	1		04/23/21 15:48		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: FD-04-042021		Lab ID: 50285463001		Collected: 04/20/21 12:00		Received: 04/21/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	102	mg/L	2.5	10		05/04/21 18:42	16887-00-6		
Fluoride	1.4	mg/L	0.050	1		05/04/21 18:26	16984-48-8		
Sulfate	582	mg/L	25.0	100		05/05/21 14:05	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	6.1	mg/L	0.10	1	04/28/21 06:22	05/04/21 07:55	7440-42-8		
Calcium	169	mg/L	1.0	1	04/28/21 06:22	05/04/21 07:55	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/28/21 06:22	05/04/21 07:55	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:09	7440-36-0		
Arsenic	0.0033	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:09	7440-38-2		
Barium	0.036	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:09	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 12:09	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 12:09	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/28/21 17:25	04/29/21 12:09	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:09	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:09	7439-92-1		
Molybdenum	0.012	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:09	7439-98-7		
Selenium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:09	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:09	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/29/21 01:35	04/30/21 13:03	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1030	mg/L	20.0	1		04/26/21 13:58			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.5	Std. Units	0.10	1		04/23/21 15:56		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: FB-03-042021		Lab ID: 50285463002		Collected: 04/20/21 13:17		Received: 04/21/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	ND	mg/L	0.25	1		05/04/21 19:13	16887-00-6		
Fluoride	ND	mg/L	0.050	1		05/04/21 19:13	16984-48-8		
Sulfate	ND	mg/L	0.25	1		05/04/21 19:13	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	1	04/28/21 06:22	05/04/21 07:58	7440-42-8		
Calcium	ND	mg/L	1.0	1	04/28/21 06:22	05/04/21 07:58	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/28/21 06:22	05/04/21 07:58	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:14	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:14	7440-38-2		
Barium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:14	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 12:14	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 12:14	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/28/21 17:25	04/29/21 12:14	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:14	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:14	7439-92-1		
Molybdenum	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:14	7439-98-7		
Selenium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:14	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:14	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/29/21 01:35	04/30/21 13:05	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	ND	mg/L	10.0	1		04/26/21 14:17		PL	
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	6.9	Std. Units	0.10	1		04/23/21 16:07		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-18--042021		Lab ID: 50285463003		Collected: 04/20/21 13:35		Received: 04/21/21 08:50		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056							
		Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL							
		Pace Analytical Services - Indianapolis							
Chloride	40.3	mg/L	2.5	10		05/04/21 19:43	16887-00-6		
Fluoride	0.16	mg/L	0.050	1		05/04/21 19:28	16984-48-8		
Sulfate	1310	mg/L	25.0	100		05/04/21 19:59	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
		Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL							
		Pace Analytical Services - Indianapolis							
Boron	3.1	mg/L	0.10	1	04/28/21 06:22	05/04/21 08:00	7440-42-8		
Calcium	436	mg/L	5.0	5	04/28/21 06:22	05/04/21 09:02	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/28/21 06:22	05/04/21 08:00	7439-93-2		
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
		Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL							
		Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:18	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:18	7440-38-2		
Barium	0.044	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:18	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 12:18	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 12:18	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/28/21 17:25	04/29/21 12:18	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:18	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:18	7439-92-1		
Molybdenum	0.082	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:18	7439-98-7		
Selenium	0.042	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:18	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:18	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
		Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL							
		Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	04/29/21 01:35	04/30/21 13:07	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
		Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL							
		Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1440	mg/L	20.0	1		04/26/21 14:17			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
		Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.2	Std. Units	0.10	1		04/23/21 16:09			H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-09B-042021		Lab ID: 50285463004		Collected: 04/20/21 12:30		Received: 04/21/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	94.0	mg/L	2.5	10		05/04/21 20:30	16887-00-6		
Fluoride	1.4	mg/L	0.050	1		05/04/21 20:14	16984-48-8		
Sulfate	1040	mg/L	25.0	100		05/04/21 20:45	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	6.2	mg/L	0.10	1	04/28/21 06:22	05/04/21 08:02	7440-42-8		
Calcium	171	mg/L	1.0	1	04/28/21 06:22	05/04/21 08:02	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/28/21 06:22	05/04/21 08:02	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:32	7440-36-0		
Arsenic	0.0034	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:32	7440-38-2		
Barium	0.035	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:32	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 12:32	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 12:32	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/28/21 17:25	04/29/21 12:32	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:32	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:32	7439-92-1		
Molybdenum	0.012	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:32	7439-98-7		
Selenium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:32	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:32	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/29/21 01:35	04/30/21 13:09	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	982	mg/L	20.0	1		04/26/21 14:18			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.5	Std. Units	0.10	1		04/23/21 16:14		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-09-042021		Lab ID: 50285463005		Collected: 04/20/21 10:40		Received: 04/21/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	41.6	mg/L	2.5	10		05/04/21 21:47	16887-00-6		
Fluoride	0.26	mg/L	0.050	1		05/04/21 21:31	16984-48-8		
Sulfate	418	mg/L	25.0	100		05/04/21 22:02	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	3.5	mg/L	0.10	1	04/28/21 06:22	05/04/21 08:09	7440-42-8		
Calcium	168	mg/L	1.0	1	04/28/21 06:22	05/04/21 08:09	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/28/21 06:22	05/04/21 08:09	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:37	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:37	7440-38-2		
Barium	0.037	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:37	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 12:37	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 12:37	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/28/21 17:25	04/29/21 12:37	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:37	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:37	7439-92-1		
Molybdenum	0.040	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:37	7439-98-7		
Selenium	0.0053	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:37	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:37	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/29/21 01:35	04/30/21 13:11	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	659	mg/L	10.0	1		04/26/21 14:19			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.6	Std. Units	0.10	1		04/23/21 16:17		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-55R-042021		Lab ID: 50285463006		Collected: 04/20/21 11:40		Received: 04/21/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	51.4	mg/L	2.5	10		05/04/21 22:33	16887-00-6		
Fluoride	0.46	mg/L	0.050	1		05/04/21 22:17	16984-48-8		
Sulfate	867	mg/L	25.0	100		05/04/21 22:48	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.87	mg/L	0.10	1	04/28/21 06:22	05/04/21 08:11	7440-42-8		
Calcium	237	mg/L	5.0	5	04/28/21 06:22	05/04/21 15:34	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/28/21 06:22	05/04/21 08:11	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:42	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:42	7440-38-2		
Barium	0.032	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:42	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 12:42	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 12:42	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/28/21 17:25	04/29/21 12:42	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:42	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:42	7439-92-1		
Molybdenum	0.013	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:42	7439-98-7		
Selenium	0.0029	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:42	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:42	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/29/21 01:35	04/30/21 13:13	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	842	mg/L	20.0	1		04/26/21 14:19			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.5	Std. Units	0.10	1		04/23/21 16:20		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-55B-042021		Lab ID: 50285463007		Collected: 04/20/21 10:45		Received: 04/21/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	120	mg/L	2.5	10		05/04/21 23:19	16887-00-6		
Fluoride	0.30	mg/L	0.050	1		05/04/21 23:04	16984-48-8		
Sulfate	985	mg/L	25.0	100		05/04/21 23:34	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	9.9	mg/L	0.10	1	04/28/21 06:22	05/04/21 08:13	7440-42-8		
Calcium	254	mg/L	5.0	5	04/28/21 06:22	05/04/21 09:04	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/28/21 06:22	05/04/21 08:13	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:46	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:46	7440-38-2		
Barium	0.061	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:46	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 12:46	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 12:46	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/28/21 17:25	04/29/21 12:46	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:46	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:46	7439-92-1		
Molybdenum	0.0068	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:46	7439-98-7		
Selenium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:46	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:46	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/29/21 01:35	04/30/21 13:15	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1370	mg/L	20.0	1		04/26/21 14:20			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.5	Std. Units	0.10	1		04/23/21 16:21		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-56-042021		Lab ID: 50285463008		Collected: 04/20/21 13:25		Received: 04/21/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	2.9	mg/L	0.25	1		05/05/21 00:20	16887-00-6		
Fluoride	ND	mg/L	0.050	1		05/05/21 00:20	16984-48-8		
Sulfate	57.6	mg/L	2.5	10		05/05/21 00:36	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.23	mg/L	0.10	1	04/28/21 06:22	05/04/21 08:15	7440-42-8		
Calcium	130	mg/L	1.0	1	04/28/21 06:22	05/04/21 08:15	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/28/21 06:22	05/04/21 08:15	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:51	7440-36-0		
Arsenic	0.0070	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:51	7440-38-2		
Barium	0.042	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:51	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 12:51	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	04/28/21 17:25	04/29/21 12:51	7440-43-9		
Chromium	ND	mg/L	0.0020	1	04/28/21 17:25	04/29/21 12:51	7440-47-3		
Cobalt	0.016	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:51	7440-48-4		
Lead	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:51	7439-92-1		
Molybdenum	0.0083	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:51	7439-98-7		
Selenium	0.0011	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:51	7782-49-2		
Thallium	ND	mg/L	0.0010	1	04/28/21 17:25	04/29/21 12:51	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	04/29/21 01:35	04/30/21 13:17	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	480	mg/L	10.0	1		04/26/21 14:21			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.3	Std. Units	0.10	1		04/23/21 16:24		H3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-56B-042121		Lab ID: 50285591001		Collected: 04/21/21 12:40		Received: 04/22/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	70.8	mg/L	2.5	10		05/04/21 20:16	16887-00-6		
Fluoride	0.41	mg/L	0.050	1		05/04/21 19:27	16984-48-8		
Sulfate	277	mg/L	25.0	100		05/04/21 21:05	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	1.6	mg/L	0.10	1	04/29/21 13:44	05/05/21 09:01	7440-42-8		
Calcium	157	mg/L	1.0	1	04/29/21 13:44	05/05/21 09:01	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/29/21 13:44	05/05/21 09:01	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:40	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:40	7440-38-2		
Barium	0.071	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:40	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 09:40	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 09:40	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/01/21 21:26	05/04/21 09:40	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:40	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:40	7439-92-1		
Molybdenum	0.0074	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:40	7439-98-7		
Selenium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:40	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:40	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	05/04/21 11:25	05/04/21 18:13	7439-97-6	3d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	738	mg/L	20.0	1		04/27/21 12:01			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	1		04/24/21 11:17		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-51-042121		Lab ID: 50285591002		Collected: 04/21/21 15:15		Received: 04/22/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	1.5	mg/L	0.25	1		05/04/21 22:27	16887-00-6		
Fluoride	0.26	mg/L	0.050	1		05/04/21 22:27	16984-48-8		
Sulfate	196	mg/L	2.5	10		05/04/21 22:43	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.43	mg/L	0.10	1	04/29/21 13:44	05/05/21 09:10	7440-42-8		
Calcium	144	mg/L	1.0	1	04/29/21 13:44	05/05/21 09:10	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/29/21 13:44	05/05/21 09:10	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:45	7440-36-0		
Arsenic	0.0016	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:45	7440-38-2		
Barium	0.10	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:45	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 09:45	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 09:45	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/01/21 21:26	05/04/21 09:45	7440-47-3		
Cobalt	0.0033	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:45	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:45	7439-92-1		
Molybdenum	0.011	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:45	7439-98-7		
Selenium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:45	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:45	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	05/04/21 11:25	05/04/21 18:15	7439-97-6	3d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	604	mg/L	10.0	1		04/27/21 12:02			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.0	Std. Units	0.10	1		04/24/21 11:19		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-51B-042121		Lab ID: 50285591003		Collected: 04/21/21 12:40		Received: 04/22/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	54.8	mg/L	2.5	10		05/04/21 23:32	16887-00-6		
Fluoride	0.45	mg/L	0.050	1		05/04/21 23:16	16984-48-8		
Sulfate	1490	mg/L	25.0	100		05/04/21 23:48	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	7.2	mg/L	0.10	1	04/29/21 13:44	05/05/21 09:13	7440-42-8		
Calcium	261	mg/L	5.0	5	04/29/21 13:44	05/05/21 09:55	7440-70-2		
Lithium	0.071	mg/L	0.0080	1	04/29/21 13:44	05/05/21 09:13	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:50	7440-36-0		
Arsenic	0.0040	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:50	7440-38-2		
Barium	0.072	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:50	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 09:50	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 09:50	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/01/21 21:26	05/04/21 09:50	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:50	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:50	7439-92-1		
Molybdenum	0.16	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:50	7439-98-7		
Selenium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:50	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:50	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	05/04/21 11:25	05/04/21 18:17	7439-97-6	3d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	2180	mg/L	40.0	1		04/27/21 12:16			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.5	Std. Units	0.10	1		04/24/21 11:21		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-60-042121		Lab ID: 50285591004		Collected: 04/21/21 10:45		Received: 04/22/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	17.2	mg/L	2.5	10		05/05/21 00:21	16887-00-6		
Fluoride	0.30	mg/L	0.050	1		05/05/21 00:04	16984-48-8		
Sulfate	748	mg/L	25.0	100		05/05/21 00:37	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	1.0	mg/L	0.10	1	04/29/21 13:44	05/05/21 09:24	7440-42-8		
Calcium	343	mg/L	5.0	5	04/29/21 13:44	05/05/21 10:08	7440-70-2		
Lithium	0.012	mg/L	0.0080	1	04/29/21 13:44	05/05/21 09:24	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:54	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:54	7440-38-2		
Barium	0.027	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:54	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 09:54	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 09:54	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/01/21 21:26	05/04/21 09:54	7440-47-3		
Cobalt	0.0013	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:54	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:54	7439-92-1		
Molybdenum	0.013	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:54	7439-98-7		
Selenium	0.0017	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:54	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:54	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	05/04/21 11:25	05/04/21 18:28	7439-97-6	3d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1300	mg/L	20.0	1		04/27/21 12:17			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	1		04/24/21 11:22		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-60B-042121		Lab ID: 50285591005		Collected: 04/21/21 09:35		Received: 04/22/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	14.3	mg/L	2.5	10		05/05/21 01:42	16887-00-6		
Fluoride	0.34	mg/L	0.050	1		05/05/21 01:26	16984-48-8		
Sulfate	1140	mg/L	25.0	100		05/05/21 01:58	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	6.5	mg/L	0.10	1	04/29/21 13:44	05/05/21 09:26	7440-42-8		
Calcium	351	mg/L	5.0	5	04/29/21 13:44	05/05/21 10:10	7440-70-2		
Lithium	0.034	mg/L	0.0080	1	04/29/21 13:44	05/05/21 09:26	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:59	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:59	7440-38-2		
Barium	0.077	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:59	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 09:59	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 09:59	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/01/21 21:26	05/04/21 09:59	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:59	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:59	7439-92-1		
Molybdenum	0.35	mg/L	0.0020	2	05/01/21 21:26	05/05/21 09:54	7439-98-7		
Selenium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:59	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 09:59	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	05/04/21 11:25	05/04/21 18:30	7439-97-6	3d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	2710	mg/L	20.0	1		04/27/21 12:18			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.3	Std. Units	0.10	1		04/24/21 11:25		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-18B-042121		Lab ID: 50285591006		Collected: 04/21/21 10:00		Received: 04/22/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	112	mg/L	2.5	10		05/05/21 02:31	16887-00-6		
Fluoride	0.35	mg/L	0.050	1		05/05/21 02:15	16984-48-8		
Sulfate	1260	mg/L	25.0	100		05/05/21 02:47	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	8.4	mg/L	0.10	1	04/29/21 13:44	05/05/21 09:28	7440-42-8		
Calcium	317	mg/L	5.0	5	04/29/21 13:44	05/05/21 10:13	7440-70-2		
Lithium	0.037	mg/L	0.0080	1	04/29/21 13:44	05/05/21 09:28	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:13	7440-36-0		
Arsenic	0.0025	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:13	7440-38-2		
Barium	0.041	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:13	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 10:13	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 10:13	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/01/21 21:26	05/04/21 10:13	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:13	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:13	7439-92-1		
Molybdenum	0.074	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:13	7439-98-7		
Selenium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:13	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:13	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	05/04/21 11:25	05/04/21 18:32	7439-97-6	3d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	3340	mg/L	40.0	1		04/27/21 12:19			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	1		04/24/21 11:25		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: FB-04-042121		Lab ID: 50285591007		Collected: 04/21/21 11:03		Received: 04/22/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	ND	mg/L	0.25	1		05/05/21 03:04	16887-00-6		
Fluoride	ND	mg/L	0.050	1		05/05/21 03:04	16984-48-8		
Sulfate	ND	mg/L	0.25	1		05/05/21 03:04	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	ND	mg/L	0.10	1	04/29/21 13:44	05/05/21 09:35	7440-42-8		
Calcium	ND	mg/L	1.0	1	04/29/21 13:44	05/05/21 09:35	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/29/21 13:44	05/05/21 09:35	7439-93-2		
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:17	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:17	7440-38-2		
Barium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:17	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 10:17	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 10:17	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/01/21 21:26	05/04/21 10:17	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:17	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:17	7439-92-1		
Molybdenum	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:17	7439-98-7		
Selenium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:17	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:17	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	05/04/21 11:25	05/04/21 18:34	7439-97-6	3d,F5	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	ND	mg/L	10.0	1		04/27/21 12:20		PL	
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.8	Std. Units	0.10	1		04/24/21 11:31		H3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-59-042121		Lab ID: 50285591008		Collected: 04/21/21 15:30		Received: 04/22/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	11.3	mg/L	0.25	1		05/05/21 05:55	16887-00-6		
Fluoride	0.42	mg/L	0.050	1		05/05/21 05:55	16984-48-8		
Sulfate	473	mg/L	25.0	100		05/05/21 06:25	14808-79-8	P8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.89	mg/L	0.10	1	04/29/21 13:44	05/05/21 09:37	7440-42-8		
Calcium	209	mg/L	5.0	5	04/29/21 13:44	05/05/21 10:15	7440-70-2		
Lithium	0.012	mg/L	0.0080	1	04/29/21 13:44	05/05/21 09:37	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:22	7440-36-0		
Arsenic	0.0012	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:22	7440-38-2		
Barium	0.048	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:22	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 10:22	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 10:22	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/01/21 21:26	05/04/21 10:22	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:22	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:22	7439-92-1		
Molybdenum	0.030	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:22	7439-98-7		
Selenium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:22	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:22	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	05/04/21 11:25	05/04/21 18:36	7439-97-6	3d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	756	mg/L	20.0	1		04/27/21 12:21			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	1		04/24/21 11:34		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-16R-042221		Lab ID: 50285705001		Collected: 04/22/21 09:45		Received: 04/23/21 08:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	81.1	mg/L	2.5	10		05/06/21 19:12	16887-00-6		
Fluoride	0.39	mg/L	0.050	1		05/06/21 18:55	16984-48-8		
Sulfate	1060	mg/L	25.0	100		05/07/21 11:30	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	3.6	mg/L	0.10	1	04/29/21 13:44	05/05/21 09:39	7440-42-8		
Calcium	410	mg/L	5.0	5	04/29/21 13:44	05/05/21 10:17	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/29/21 13:44	05/05/21 09:39	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:27	7440-36-0		
Arsenic	0.0042	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:27	7440-38-2		
Barium	0.074	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:27	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 10:27	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 10:27	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/01/21 21:26	05/04/21 10:27	7440-47-3		
Cobalt	0.0064	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:27	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:27	7439-92-1		
Molybdenum	0.027	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:27	7439-98-7		
Selenium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:27	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:27	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	05/04/21 11:25	05/04/21 19:12	7439-97-6	3d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1850	mg/L	20.0	1		04/27/21 17:14			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	1		04/24/21 11:42		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-16BR-042221		Lab ID: 50285705002		Collected: 04/22/21 12:20		Received: 04/23/21 08:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	331	mg/L	25.0	100		05/07/21 11:46	16887-00-6		
Fluoride	0.41	mg/L	0.050	1		05/06/21 19:28	16984-48-8		
Sulfate	723	mg/L	25.0	100		05/07/21 11:46	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	24.8	mg/L	0.10	1	04/29/21 13:44	05/05/21 09:42	7440-42-8		
Calcium	380	mg/L	5.0	5	04/29/21 13:44	05/05/21 10:19	7440-70-2		
Lithium	0.033	mg/L	0.0080	1	04/29/21 13:44	05/05/21 09:42	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:31	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:31	7440-38-2		
Barium	0.073	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:31	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 10:31	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 10:31	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/01/21 21:26	05/04/21 10:31	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:31	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:31	7439-92-1		
Molybdenum	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:31	7439-98-7		
Selenium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:31	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:31	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	05/04/21 11:25	05/04/21 19:18	7439-97-6	3d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	2080	mg/L	40.0	1		04/27/21 17:14			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.3	Std. Units	0.10	1		04/24/21 11:45		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-59B-042221		Lab ID: 50285705003	Collected: 04/22/21 10:05		Received: 04/23/21 08:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis						
Chloride	52.0	mg/L	2.5	10		05/06/21 20:50	16887-00-6	
Fluoride	0.45	mg/L	0.050	1		05/06/21 20:33	16984-48-8	
Sulfate	1180	mg/L	25.0	100		05/07/21 12:03	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis						
Boron	5.4	mg/L	0.10	1	04/29/21 13:44	05/05/21 09:44	7440-42-8	
Calcium	292	mg/L	5.0	5	04/29/21 13:44	05/05/21 10:28	7440-70-2	
Lithium	0.017	mg/L	0.0080	1	04/29/21 13:44	05/05/21 09:44	7439-93-2	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis						
Antimony	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:45	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:45	7440-38-2	
Barium	0.037	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:45	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 10:45	7440-41-7	
Cadmium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 10:45	7440-43-9	
Chromium	ND	mg/L	0.0020	1	05/01/21 21:26	05/04/21 10:45	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:45	7440-48-4	
Lead	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:45	7439-92-1	
Molybdenum	0.044	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:45	7439-98-7	
Selenium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:45	7782-49-2	
Thallium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:45	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis						
Mercury	ND	ug/L	0.20	1	05/04/21 11:25	05/04/21 19:20	7439-97-6	3d,F5
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis						
Total Dissolved Solids	1860	mg/L	40.0	1		04/27/21 17:14		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis						
pH at 25 Degrees C	7.4	Std. Units	0.10	1		04/24/21 11:47		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-08-042221		Lab ID: 50285705004		Collected: 04/22/21 13:25		Received: 04/23/21 08:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	50.0	mg/L	2.5	10		05/06/21 21:22	16887-00-6		
Fluoride	0.97	mg/L	0.050	1		05/06/21 21:06	16984-48-8		
Sulfate	477	mg/L	25.0	100		05/07/21 12:19	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.89	mg/L	0.10	1	04/29/21 13:44	05/05/21 09:46	7440-42-8		
Calcium	266	mg/L	5.0	5	04/29/21 13:44	05/05/21 10:30	7440-70-2		
Lithium	0.012	mg/L	0.0080	1	04/29/21 13:44	05/05/21 09:46	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:50	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:50	7440-38-2		
Barium	0.070	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:50	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 10:50	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 10:50	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/01/21 21:26	05/04/21 10:50	7440-47-3		
Cobalt	0.017	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:50	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:50	7439-92-1		
Molybdenum	0.034	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:50	7439-98-7		
Selenium	0.010	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:50	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:50	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	05/04/21 11:25	05/04/21 19:23	7439-97-6	3d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1120	mg/L	20.0	1		04/27/21 17:15			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.1	Std. Units	0.10	1		04/24/21 11:48		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-08B-042221		Lab ID: 50285705005		Collected: 04/22/21 14:55		Received: 04/23/21 08:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	178	mg/L	25.0	100		05/07/21 12:35	16887-00-6		
Fluoride	0.90	mg/L	0.050	1		05/06/21 21:38	16984-48-8		
Sulfate	751	mg/L	25.0	100		05/07/21 12:35	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	7.7	mg/L	0.10	1	04/29/21 13:44	05/05/21 09:49	7440-42-8		
Calcium	198	mg/L	1.0	1	04/29/21 13:44	05/05/21 09:49	7440-70-2		
Lithium	0.012	mg/L	0.0080	1	04/29/21 13:44	05/05/21 09:49	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:54	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:54	7440-38-2		
Barium	0.039	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:54	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 10:54	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 10:54	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/01/21 21:26	05/04/21 10:54	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:54	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:54	7439-92-1		
Molybdenum	0.011	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:54	7439-98-7		
Selenium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:54	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:54	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	05/04/21 11:25	05/04/21 19:25	7439-97-6	3d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1620	mg/L	20.0	1		04/27/21 17:15			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	1		04/24/21 11:49		H3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-68-042221		Lab ID: 50285705006		Collected: 04/22/21 12:15		Received: 04/23/21 08:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	22.8	mg/L	2.5	10		05/06/21 22:27	16887-00-6		
Fluoride	0.16	mg/L	0.050	1		05/06/21 22:11	16984-48-8		
Sulfate	68.6	mg/L	2.5	10		05/06/21 22:27	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	1	04/29/21 13:44	05/05/21 09:51	7440-42-8		
Calcium	60.7	mg/L	1.0	1	04/29/21 13:44	05/05/21 09:51	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/29/21 13:44	05/05/21 09:51	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:59	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:59	7440-38-2		
Barium	0.085	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:59	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 10:59	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 10:59	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/01/21 21:26	05/04/21 10:59	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:59	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:59	7439-92-1		
Molybdenum	0.0035	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:59	7439-98-7		
Selenium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:59	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 10:59	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	05/04/21 11:25	05/04/21 19:27	7439-97-6	3d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	320	mg/L	10.0	1		04/27/21 17:16			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.7	Std. Units	0.10	1		04/24/21 11:50		H3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Sample: GAMW-68B-042221		Lab ID: 50285705007		Collected: 04/22/21 13:55		Received: 04/23/21 08:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	19.5	mg/L	2.5	10		05/06/21 23:00	16887-00-6		
Fluoride	0.10	mg/L	0.050	1		05/06/21 22:44	16984-48-8		
Sulfate	62.5	mg/L	2.5	10		05/06/21 23:00	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	1	04/29/21 13:44	05/05/21 09:53	7440-42-8		
Calcium	43.5	mg/L	1.0	1	04/29/21 13:44	05/05/21 09:53	7440-70-2		
Lithium	ND	mg/L	0.0080	1	04/29/21 13:44	05/05/21 09:53	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 11:04	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 11:04	7440-38-2		
Barium	0.11	mg/L	0.0010	1	05/01/21 21:26	05/04/21 11:04	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 11:04	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/01/21 21:26	05/04/21 11:04	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/01/21 21:26	05/04/21 11:04	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 11:04	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 11:04	7439-92-1		
Molybdenum	0.0022	mg/L	0.0010	1	05/01/21 21:26	05/04/21 11:04	7439-98-7		
Selenium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 11:04	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/01/21 21:26	05/04/21 11:04	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	05/04/21 11:25	05/04/21 19:33	7439-97-6	3d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	2040	mg/L	40.0	1		04/27/21 17:16			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.8	Std. Units	0.10	1		04/24/21 11:51		H3	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	617559	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples: 50284873001, 50284873002, 50284873003, 50284873004, 50284873005			

METHOD BLANK: 2845517 Matrix: Water
Associated Lab Samples: 50284873001, 50284873002, 50284873003, 50284873004, 50284873005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	04/27/21 15:24	
Fluoride	mg/L	ND	0.050	04/27/21 15:24	
Sulfate	mg/L	ND	0.25	04/27/21 15:24	

LABORATORY CONTROL SAMPLE: 2845518

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	93	80-120	
Fluoride	mg/L	0.5	0.49	98	80-120	
Sulfate	mg/L	2.5	2.4	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2845523 2845524

Parameter	Units	50284865001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	42.3	12.5	12.5	56.3	56.2	112	111	80-120	0	15	
Fluoride	mg/L	1.1	0.5	0.5	1.6	1.6	96	96	80-120	0	15	
Sulfate	mg/L	76.5	25	25	103	103	105	104	80-120	0	15	P8

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	617981	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples: 50285068001, 50285068002, 50285068003, 50285068004, 50285068005			

METHOD BLANK: 2847340 Matrix: Water
Associated Lab Samples: 50285068001, 50285068002, 50285068003, 50285068004, 50285068005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	04/29/21 16:49	
Fluoride	mg/L	ND	0.050	04/29/21 16:49	
Sulfate	mg/L	ND	0.25	04/29/21 16:49	

LABORATORY CONTROL SAMPLE: 2847341

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	94	80-120	
Fluoride	mg/L	0.5	0.48	97	80-120	
Sulfate	mg/L	2.5	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2847342 2847343

Parameter	Units	50285068002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	20.1	12.5	12.5	33.0	33.1	103	103	80-120	0	15	
Fluoride	mg/L	0.20	0.5	0.5	0.72	0.71	104	103	80-120	1	15	
Sulfate	mg/L	58.0	25	25	84.6	84.7	106	107	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	618018	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285157001, 50285157002, 50285157003, 50285157004, 50285157005, 50285157006, 50285157007, 50285157008, 50285157009, 50285157010		

METHOD BLANK: 2847454

Matrix: Water

Associated Lab Samples: 50285157001, 50285157002, 50285157003, 50285157004, 50285157005, 50285157006, 50285157007, 50285157008, 50285157009, 50285157010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	04/29/21 12:44	
Fluoride	mg/L	ND	0.050	04/29/21 12:44	
Sulfate	mg/L	ND	0.25	04/29/21 12:44	

LABORATORY CONTROL SAMPLE: 2847455

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	92	80-120	
Fluoride	mg/L	0.5	0.50	100	80-120	
Sulfate	mg/L	2.5	2.4	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2847456 2847457

Parameter	Units	50285157004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	18.7	12.5	12.5	32.3	32.1	108	107	80-120	1	15	P8
Fluoride	mg/L	0.22	0.5	0.5	0.75	0.76	106	106	80-120	0	15	
Sulfate	mg/L	55.8	25	25	82.6	82.1	107	105	80-120	1	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	618566	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285295001, 50285295002, 50285295003, 50285295004, 50285295005, 50285295006, 50285295007, 50285295008		

METHOD BLANK:	2850126	Matrix:	Water
Associated Lab Samples:	50285295001, 50285295002, 50285295003, 50285295004, 50285295005, 50285295006, 50285295007, 50285295008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	05/03/21 16:03	
Fluoride	mg/L	ND	0.050	05/03/21 16:03	
Sulfate	mg/L	ND	0.25	05/03/21 16:03	

LABORATORY CONTROL SAMPLE: 2850127						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.3	106	80-120	
Fluoride	mg/L	0.5	0.54	107	80-120	
Sulfate	mg/L	2.5	2.7	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												2850128	2850129			
Parameter	Units	50285289003	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual				
		Result	Spike Conc.	Spike Conc.									Result	Result	% Rec	% Rec
Chloride	mg/L	56.6	12.5	12.5	70.0	70.1	108	108	80-120	0	15					
Fluoride	mg/L	ND	0.5	0.5	0.55	0.57	102	106	80-120	3	15					
Sulfate	mg/L	179	25	25	204	204	99	100	80-120	0	15					

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	618737	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285463001, 50285463002, 50285463003, 50285463004, 50285463005, 50285463006, 50285463007, 50285463008		

METHOD BLANK:	2850696	Matrix:	Water
Associated Lab Samples:	50285463001, 50285463002, 50285463003, 50285463004, 50285463005, 50285463006, 50285463007, 50285463008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	05/04/21 15:37	
Fluoride	mg/L	ND	0.050	05/04/21 15:37	
Sulfate	mg/L	ND	0.25	05/04/21 15:37	

LABORATORY CONTROL SAMPLE: 2850697						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.3	104	80-120	
Fluoride	mg/L	0.5	0.52	104	80-120	
Sulfate	mg/L	2.5	2.7	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2850701					2850702							
Parameter	Units	50286367002	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	ND	1.2	1.2	1.3	1.3	105	105	80-120	0	15	
Fluoride	mg/L	ND	0.5	0.5	0.57	0.56	113	112	80-120	1	15	
Sulfate	mg/L	ND	2.5	2.5	2.7	2.7	110	109	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	618739	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285591001, 50285591002, 50285591003, 50285591004, 50285591005, 50285591006, 50285591007, 50285591008		

METHOD BLANK: 2850705

Matrix: Water

Associated Lab Samples: 50285591001, 50285591002, 50285591003, 50285591004, 50285591005, 50285591006, 50285591007, 50285591008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	05/04/21 12:46	
Fluoride	mg/L	ND	0.050	05/04/21 12:46	
Sulfate	mg/L	ND	0.25	05/04/21 12:46	

LABORATORY CONTROL SAMPLE: 2850706

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.1	92	80-120	
Fluoride	mg/L	0.5	0.48	96	80-120	
Sulfate	mg/L	2.5	2.4	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2850707 2850708

Parameter	Units	50285591001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	70.8	12.5	12.5	84.2	83.7	107	104	80-120	1	15	
Fluoride	mg/L	0.41	0.5	0.5	0.88	0.91	95	100	80-120	3	15	
Sulfate	mg/L	277	250	250	520	518	97	96	80-120	1	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21
Pace Project No.: 50284873

QC Batch:	619290	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285705001, 50285705002, 50285705003, 50285705004, 50285705005, 50285705006, 50285705007		

METHOD BLANK: 2853449 Matrix: Water
Associated Lab Samples: 50285705001, 50285705002, 50285705003, 50285705004, 50285705005, 50285705006, 50285705007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	05/06/21 13:56	
Fluoride	mg/L	ND	0.050	05/06/21 13:56	
Sulfate	mg/L	ND	0.25	05/06/21 13:56	

LABORATORY CONTROL SAMPLE: 2853450

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	94	80-120	
Fluoride	mg/L	0.5	0.44	88	80-120	
Sulfate	mg/L	2.5	2.4	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2853451 2853452

Parameter	Units	50285681006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.7	1.2	1.2	4.9	4.9	99	100	80-120	0	15	
Fluoride	mg/L	0.23	0.5	0.5	0.70	0.71	94	96	80-120	1	15	
Sulfate	mg/L	1.9	2.5	2.5	4.3	4.3	97	98	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch: 616434

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50284873001, 50284873002, 50284873003, 50284873004, 50284873005

METHOD BLANK: 2840709

Matrix: Water

Associated Lab Samples: 50284873001, 50284873002, 50284873003, 50284873004, 50284873005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/22/21 09:32	

LABORATORY CONTROL SAMPLE: 2840710

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2840711 2840712

Parameter	Units	50284923004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.8	4.8	96	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	616898	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285068001, 50285068002, 50285068003, 50285068004, 50285068005		

METHOD BLANK: 2842785 Matrix: Water
Associated Lab Samples: 50285068001, 50285068002, 50285068003, 50285068004, 50285068005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/26/21 08:51	

LABORATORY CONTROL SAMPLE: 2842786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.1	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2842787 2842788

Parameter	Units	50285068002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.7	4.8	95	97	75-125	2	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	617558	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285157001, 50285157002, 50285157003, 50285157004, 50285157005, 50285157006, 50285157007, 50285157008, 50285157009, 50285157010		

METHOD BLANK:	2845511	Matrix:	Water
Associated Lab Samples:	50285157001, 50285157002, 50285157003, 50285157004, 50285157005, 50285157006, 50285157007, 50285157008, 50285157009, 50285157010		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/29/21 00:07	

LABORATORY CONTROL SAMPLE: 2845512						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:					2845513								2845514			
Parameter	Units	50285157004 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual				
			Spike Conc.	Spike Conc.												
Mercury	ug/L	ND	5	5	5.0	5.0	100	100	75-125	0	20					

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
2845515					2845516							
Parameter	Units	50285668002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.1	5.2	102	103	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	617690	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285295001, 50285295002, 50285295003, 50285295004, 50285295005, 50285295006, 50285295007, 50285295008, 50285463001, 50285463002, 50285463003, 50285463004, 50285463005, 50285463006, 50285463007, 50285463008		

METHOD BLANK:	2846213	Matrix:	Water
Associated Lab Samples:	50285295001, 50285295002, 50285295003, 50285295004, 50285295005, 50285295006, 50285295007, 50285295008, 50285463001, 50285463002, 50285463003, 50285463004, 50285463005, 50285463006, 50285463007, 50285463008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/30/21 12:33	

LABORATORY CONTROL SAMPLE: 2846214						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.1	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:					2846215	2846216							
Parameter	Units	50285295004	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual		
		Result	Spike Conc.	Spike Conc.								Result	Result
Mercury	ug/L	ND	5	5	4.8	4.8	96	96	75-125	0	20		

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	617905	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285591001, 50285591002, 50285591003, 50285591004, 50285591005, 50285591006, 50285591007, 50285591008		

METHOD BLANK:	2847144	Matrix:	Water
Associated Lab Samples:	50285591001, 50285591002, 50285591003, 50285591004, 50285591005, 50285591006, 50285591007, 50285591008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/04/21 18:00	

LABORATORY CONTROL SAMPLE: 2847145						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:					2847146	2847147							
Parameter	Units	50285591003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Mercury	ug/L	ND	5	5	5.0	5.1	99	103	75-125	3	20		

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	618451	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285705001, 50285705002, 50285705003, 50285705004, 50285705005, 50285705006, 50285705007		

METHOD BLANK:	2849797	Matrix:	Water
Associated Lab Samples:	50285705001, 50285705002, 50285705003, 50285705004, 50285705005, 50285705006, 50285705007		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/04/21 19:01	

LABORATORY CONTROL SAMPLE:	2849798					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	2849799			2849800								
Parameter	Units	50285705006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.0	4.8	100	96	75-125	3	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21
Pace Project No.: 50284873

QC Batch:	615857	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50284873001, 50284873002, 50284873003, 50284873004, 50284873005

METHOD BLANK: 2838116 Matrix: Water
Associated Lab Samples: 50284873001, 50284873002, 50284873003, 50284873004, 50284873005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	04/23/21 21:26	
Calcium	mg/L	ND	1.0	04/23/21 21:26	
Lithium	mg/L	ND	0.0080	04/23/21 21:26	

LABORATORY CONTROL SAMPLE: 2838117

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.99	99	80-120	
Calcium	mg/L	10	9.9	99	80-120	
Lithium	mg/L	1	0.97	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2838118 2838119

Parameter	Units	50284835003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	311 ug/L	1	1	1.3	1.3	100	102	75-125	1	20	
Calcium	mg/L	110000 ug/L	10	10	118	119	85	93	75-125	1	20	
Lithium	mg/L	ND	1	1	0.97	0.97	96	97	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2838120 2838121

Parameter	Units	50284835009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	356 ug/L	1	1	1.3	1.3	96	95	75-125	0	20	
Calcium	mg/L	168000 ug/L	10	10	167	167	-6	-13	75-125	0	20	P6
Lithium	mg/L	ND	1	1	0.97	0.96	97	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	616189	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50285068001, 50285068002, 50285068003, 50285068004, 50285068005

METHOD BLANK: 2839811

Matrix: Water

Associated Lab Samples: 50285068001, 50285068002, 50285068003, 50285068004, 50285068005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	04/28/21 09:39	
Calcium	mg/L	ND	1.0	04/28/21 09:39	
Lithium	mg/L	ND	0.0080	04/28/21 09:39	

LABORATORY CONTROL SAMPLE: 2839812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	101	80-120	
Calcium	mg/L	10	9.9	99	80-120	
Lithium	mg/L	1	0.99	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2839813 2839814

Parameter	Units	50285068002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.25	1	1	1.3	1.3	102	102	75-125	0	20	
Calcium	mg/L	96.4	10	10	106	107	94	104	75-125	1	20	
Lithium	mg/L	ND	1	1	0.99	1.0	99	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	616675	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285157001, 50285157002, 50285157003, 50285157004, 50285157005, 50285157006, 50285157007, 50285157008, 50285157009, 50285157010		

METHOD BLANK: 2841873

Matrix: Water

Associated Lab Samples: 50285157001, 50285157002, 50285157003, 50285157004, 50285157005, 50285157006, 50285157007, 50285157008, 50285157009, 50285157010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	04/27/21 10:18	
Calcium	mg/L	ND	1.0	04/27/21 10:18	
Lithium	mg/L	ND	0.0080	04/27/21 10:18	

LABORATORY CONTROL SAMPLE: 2841874

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.99	99	80-120	
Calcium	mg/L	10	9.8	98	80-120	
Lithium	mg/L	1	0.95	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2841875 2841876

Parameter	Units	50285157004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.10	1	1	1.1	1.1	98	101	75-125	2	20	
Calcium	mg/L	59.9	10	10	69.9	72.0	100	121	75-125	3	20	
Lithium	mg/L	ND	1	1	0.96	0.98	95	98	75-125	3	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	616676	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285295001, 50285295002, 50285295003, 50285295004, 50285295005, 50285295006, 50285295007, 50285295008		

METHOD BLANK:	2841883	Matrix:	Water
Associated Lab Samples:	50285295001, 50285295002, 50285295003, 50285295004, 50285295005, 50285295006, 50285295007, 50285295008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	04/29/21 22:21	
Calcium	mg/L	ND	1.0	04/29/21 22:21	
Lithium	mg/L	ND	0.0080	04/29/21 22:21	

LABORATORY CONTROL SAMPLE: 2841884						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	102	80-120	
Calcium	mg/L	10	10.3	103	80-120	
Lithium	mg/L	1	0.99	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2841885 2841886												
Parameter	Units	50285146003	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual	
		Result	Spike Conc.	Spike Conc.								Result
Boron	mg/L	0.11	1	1	1.1	1.2	103	105	75-125	2	20	
Calcium	mg/L	66.2	10	10	75.0	77.6	88	115	75-125	3	20	
Lithium	mg/L	ND	1	1	1.0	1.0	100	101	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21
Pace Project No.: 50284873

QC Batch:	617239	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285463001, 50285463002, 50285463003, 50285463004, 50285463005, 50285463006, 50285463007, 50285463008		

METHOD BLANK: 2844632 Matrix: Water
Associated Lab Samples: 50285463001, 50285463002, 50285463003, 50285463004, 50285463005, 50285463006, 50285463007, 50285463008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	05/04/21 07:50	
Calcium	mg/L	ND	1.0	05/04/21 07:50	
Lithium	mg/L	ND	0.0080	05/04/21 07:50	

LABORATORY CONTROL SAMPLE: 2844633

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	102	80-120	
Calcium	mg/L	10	10.4	104	80-120	
Lithium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2844634 2844635

Parameter	Units	50285630006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	5.4	1	1	6.3	6.5	95	112	75-125	3	20	
Calcium	mg/L	275	10	10	328	343	526	677	75-125	5	20 P6	
Lithium	mg/L	0.013	1	1	1.1	1.1	107	108	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2844636 2844637

Parameter	Units	50285630010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	ND	1	1	1.1	1.1	105	103	75-125	1	20	
Calcium	mg/L	45.0	10	10	57.8	56.2	128	112	75-125	3	20 P6	
Lithium	mg/L	ND	1	1	1.0	1.0	103	103	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	617242	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285591001, 50285591002, 50285591003, 50285591004, 50285591005, 50285591006, 50285591007, 50285591008, 50285705001, 50285705002, 50285705003, 50285705004, 50285705005, 50285705006, 50285705007		

METHOD BLANK:	2844642	Matrix:	Water
Associated Lab Samples:	50285591001, 50285591002, 50285591003, 50285591004, 50285591005, 50285591006, 50285591007, 50285591008, 50285705001, 50285705002, 50285705003, 50285705004, 50285705005, 50285705006, 50285705007		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	05/05/21 08:58	
Calcium	mg/L	ND	1.0	05/05/21 08:58	
Lithium	mg/L	ND	0.0080	05/05/21 08:58	

LABORATORY CONTROL SAMPLE: 2844643						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	101	80-120	
Calcium	mg/L	10	10.4	104	80-120	
Lithium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			2844644		2844645							
Parameter	Units	50285591003	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike Conc.	Spike Conc.								
Boron	mg/L	7.2	1	1	8.0	7.8	82	63	75-125	2	20	P6
Calcium	mg/L	261	10	10	264	262	34	10	75-125	1	20	P6
Lithium	mg/L	0.071	1	1	1.1	1.1	103	101	75-125	2	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21
Pace Project No.: 50284873

QC Batch:	616755	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50284873001, 50284873002, 50284873003, 50284873004, 50284873005

METHOD BLANK: 2842244 Matrix: Water
Associated Lab Samples: 50284873001, 50284873002, 50284873003, 50284873004, 50284873005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	04/23/21 09:34	
Arsenic	mg/L	ND	0.0010	04/23/21 09:34	
Barium	mg/L	ND	0.0010	04/23/21 09:34	
Beryllium	mg/L	ND	0.00020	04/23/21 09:34	
Cadmium	mg/L	ND	0.00020	04/23/21 09:34	
Chromium	mg/L	ND	0.0020	04/23/21 09:34	
Cobalt	mg/L	ND	0.0010	04/23/21 09:34	
Lead	mg/L	ND	0.0010	04/23/21 09:34	
Molybdenum	mg/L	ND	0.0010	04/23/21 09:34	
Selenium	mg/L	ND	0.0010	04/23/21 09:34	
Thallium	mg/L	ND	0.0010	04/23/21 09:34	

LABORATORY CONTROL SAMPLE: 2842245

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.037	93	80-120	
Arsenic	mg/L	0.04	0.037	94	80-120	
Barium	mg/L	0.04	0.039	96	80-120	
Beryllium	mg/L	0.04	0.038	94	80-120	
Cadmium	mg/L	0.04	0.038	96	80-120	
Chromium	mg/L	0.04	0.039	97	80-120	
Cobalt	mg/L	0.04	0.040	100	80-120	
Lead	mg/L	0.04	0.039	97	80-120	
Molybdenum	mg/L	0.04	0.035	88	80-120	
Selenium	mg/L	0.04	0.039	96	80-120	
Thallium	mg/L	0.04	0.040	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2842246 2842247

Parameter	Units	50284873001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.04	0.04	0.038	0.038	94	95	75-125	2	20	
Arsenic	mg/L	0.012	0.04	0.04	0.050	0.051	94	97	75-125	2	20	
Barium	mg/L	0.051	0.04	0.04	0.091	0.092	101	104	75-125	1	20	
Beryllium	mg/L	ND	0.04	0.04	0.039	0.039	97	97	75-125	0	20	
Cadmium	mg/L	ND	0.04	0.04	0.038	0.039	95	98	75-125	3	20	
Chromium	mg/L	ND	0.04	0.04	0.038	0.039	95	97	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2842246 2842247												
Parameter	Units	50284873001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Cobalt	mg/L	0.0019	0.04	0.04	0.040	0.041	96	98	75-125	2	20	
Lead	mg/L	ND	0.04	0.04	0.039	0.040	99	101	75-125	2	20	
Molybdenum	mg/L	0.011	0.04	0.04	0.047	0.048	91	93	75-125	1	20	
Selenium	mg/L	0.010	0.04	0.04	0.049	0.049	97	97	75-125	0	20	
Thallium	mg/L	ND	0.04	0.04	0.041	0.042	102	104	75-125	2	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	617095	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285068001, 50285068002, 50285068003, 50285068004, 50285068005, 50285157001, 50285157002, 50285157003, 50285157004, 50285157005, 50285157006, 50285157007, 50285157008, 50285157009, 50285157010		

METHOD BLANK: 2843747 Matrix: Water

Associated Lab Samples: 50285068001, 50285068002, 50285068003, 50285068004, 50285068005, 50285157001, 50285157002, 50285157003, 50285157004, 50285157005, 50285157006, 50285157007, 50285157008, 50285157009, 50285157010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	04/27/21 13:39	
Arsenic	mg/L	ND	0.0010	04/27/21 13:39	
Barium	mg/L	ND	0.0010	04/27/21 13:39	
Beryllium	mg/L	ND	0.00020	04/27/21 13:39	
Cadmium	mg/L	ND	0.00020	04/27/21 13:39	
Chromium	mg/L	ND	0.0020	04/27/21 13:39	
Cobalt	mg/L	ND	0.0010	04/27/21 13:39	
Lead	mg/L	ND	0.0010	04/27/21 13:39	
Molybdenum	mg/L	ND	0.0010	04/27/21 13:39	
Selenium	mg/L	ND	0.0010	04/27/21 13:39	
Thallium	mg/L	ND	0.0010	04/27/21 13:39	

LABORATORY CONTROL SAMPLE: 2843748

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.042	106	80-120	
Arsenic	mg/L	0.04	0.039	97	80-120	
Barium	mg/L	0.04	0.039	97	80-120	
Beryllium	mg/L	0.04	0.039	98	80-120	
Cadmium	mg/L	0.04	0.039	97	80-120	
Chromium	mg/L	0.04	0.040	99	80-120	
Cobalt	mg/L	0.04	0.041	103	80-120	
Lead	mg/L	0.04	0.041	102	80-120	
Molybdenum	mg/L	0.04	0.040	99	80-120	
Selenium	mg/L	0.04	0.040	100	80-120	
Thallium	mg/L	0.04	0.041	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2843749 2843750

Parameter	Units	50285068002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.04	0.04	0.043	0.042	108	106	75-125	2	20	
Arsenic	mg/L	ND	0.04	0.04	0.039	0.039	97	96	75-125	1	20	
Barium	mg/L	0.11	0.04	0.04	0.15	0.15	104	104	75-125	0	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2843749				2843750								
Parameter	Units	50285068002	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike Conc.	Spike Conc.								
Beryllium	mg/L	ND	0.04	0.04	0.039	0.038	97	95	75-125	2	20	
Cadmium	mg/L	ND	0.04	0.04	0.038	0.038	96	95	75-125	1	20	
Chromium	mg/L	ND	0.04	0.04	0.040	0.040	99	99	75-125	0	20	
Cobalt	mg/L	ND	0.04	0.04	0.040	0.040	99	98	75-125	1	20	
Lead	mg/L	ND	0.04	0.04	0.041	0.040	103	101	75-125	2	20	
Molybdenum	mg/L	0.0051	0.04	0.04	0.047	0.047	105	104	75-125	2	20	
Selenium	mg/L	ND	0.04	0.04	0.039	0.039	97	98	75-125	1	20	
Thallium	mg/L	ND	0.04	0.04	0.042	0.042	106	104	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2843751					2843752							
Parameter	Units	50285157004	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike	Spike								
Antimony	mg/L	ND	0.04	0.04	0.045	0.045	111	112	75-125	1	20	
Arsenic	mg/L	ND	0.04	0.04	0.038	0.038	95	95	75-125	0	20	
Barium	mg/L	0.011	0.04	0.04	0.051	0.052	101	104	75-125	2	20	
Beryllium	mg/L	ND	0.04	0.04	0.039	0.039	97	97	75-125	0	20	
Cadmium	mg/L	ND	0.04	0.04	0.040	0.040	99	99	75-125	0	20	
Chromium	mg/L	ND	0.04	0.04	0.041	0.040	101	98	75-125	2	20	
Cobalt	mg/L	ND	0.04	0.04	0.042	0.041	103	101	75-125	2	20	
Lead	mg/L	ND	0.04	0.04	0.043	0.043	107	107	75-125	1	20	
Molybdenum	mg/L	0.0021	0.04	0.04	0.045	0.044	107	105	75-125	2	20	
Selenium	mg/L	0.0011	0.04	0.04	0.040	0.039	98	96	75-125	2	20	
Thallium	mg/L	ND	0.04	0.04	0.043	0.044	108	109	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21
Pace Project No.: 50284873

QC Batch:	617734	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285295001, 50285295002, 50285295003, 50285295004, 50285295005, 50285295006, 50285295007, 50285295008, 50285463001, 50285463002, 50285463003, 50285463004, 50285463005, 50285463006, 50285463007, 50285463008		

METHOD BLANK:	2846293	Matrix:	Water
Associated Lab Samples:	50285295001, 50285295002, 50285295003, 50285295004, 50285295005, 50285295006, 50285295007, 50285295008, 50285463001, 50285463002, 50285463003, 50285463004, 50285463005, 50285463006, 50285463007, 50285463008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	04/29/21 10:46	
Arsenic	mg/L	ND	0.0010	04/29/21 10:46	
Barium	mg/L	ND	0.0010	04/29/21 10:46	
Beryllium	mg/L	ND	0.00020	04/29/21 10:46	
Cadmium	mg/L	ND	0.00020	04/29/21 10:46	
Chromium	mg/L	ND	0.0020	04/29/21 10:46	
Cobalt	mg/L	ND	0.0010	04/29/21 10:46	
Lead	mg/L	ND	0.0010	04/29/21 10:46	
Molybdenum	mg/L	ND	0.0010	04/29/21 10:46	
Selenium	mg/L	ND	0.0010	04/29/21 10:46	
Thallium	mg/L	ND	0.0010	04/29/21 10:46	

LABORATORY CONTROL SAMPLE: 2846294

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.042	105	80-120	
Arsenic	mg/L	0.04	0.038	95	80-120	
Barium	mg/L	0.04	0.040	100	80-120	
Beryllium	mg/L	0.04	0.040	101	80-120	
Cadmium	mg/L	0.04	0.039	98	80-120	
Chromium	mg/L	0.04	0.040	101	80-120	
Cobalt	mg/L	0.04	0.041	103	80-120	
Lead	mg/L	0.04	0.041	101	80-120	
Molybdenum	mg/L	0.04	0.040	100	80-120	
Selenium	mg/L	0.04	0.039	97	80-120	
Thallium	mg/L	0.04	0.041	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2846295 2846296

Parameter	Units	50285295003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.04	0.04	0.043	0.043	107	107	75-125	0	20	
Arsenic	mg/L	0.018	0.04	0.04	0.055	0.056	94	96	75-125	2	20	
Barium	mg/L	0.061	0.04	0.04	0.10	0.10	104	109	75-125	2	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2846295 2846296												
Parameter	Units	50285295003	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike Conc.	Spike Conc.								
Beryllium	mg/L	ND	0.04	0.04	0.041	0.040	102	101	75-125	1	20	
Cadmium	mg/L	ND	0.04	0.04	0.038	0.039	96	97	75-125	1	20	
Chromium	mg/L	ND	0.04	0.04	0.040	0.040	100	99	75-125	0	20	
Cobalt	mg/L	0.017	0.04	0.04	0.056	0.057	98	99	75-125	1	20	
Lead	mg/L	ND	0.04	0.04	0.040	0.040	101	101	75-125	0	20	
Molybdenum	mg/L	0.0073	0.04	0.04	0.049	0.049	104	105	75-125	0	20	
Selenium	mg/L	ND	0.04	0.04	0.039	0.038	96	96	75-125	1	20	
Thallium	mg/L	ND	0.04	0.04	0.042	0.042	105	104	75-125	0	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21
Pace Project No.: 50284873

QC Batch:	618145	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285591001, 50285591002, 50285591003, 50285591004, 50285591005, 50285591006, 50285591007, 50285591008, 50285705001, 50285705002, 50285705003, 50285705004, 50285705005, 50285705006, 50285705007		

METHOD BLANK:	2848203	Matrix:	Water
Associated Lab Samples:	50285591001, 50285591002, 50285591003, 50285591004, 50285591005, 50285591006, 50285591007, 50285591008, 50285705001, 50285705002, 50285705003, 50285705004, 50285705005, 50285705006, 50285705007		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	05/04/21 09:31	
Arsenic	mg/L	ND	0.0010	05/04/21 09:31	
Barium	mg/L	ND	0.0010	05/04/21 09:31	
Beryllium	mg/L	ND	0.00020	05/04/21 09:31	
Cadmium	mg/L	ND	0.00020	05/04/21 09:31	
Chromium	mg/L	ND	0.0020	05/04/21 09:31	
Cobalt	mg/L	ND	0.0010	05/04/21 09:31	
Lead	mg/L	ND	0.0010	05/04/21 09:31	
Molybdenum	mg/L	ND	0.0010	05/04/21 09:31	
Selenium	mg/L	ND	0.0010	05/04/21 09:31	
Thallium	mg/L	ND	0.0010	05/04/21 09:31	

LABORATORY CONTROL SAMPLE: 2848204

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.044	109	80-120	
Arsenic	mg/L	0.04	0.040	101	80-120	
Barium	mg/L	0.04	0.042	104	80-120	
Beryllium	mg/L	0.04	0.041	102	80-120	
Cadmium	mg/L	0.04	0.044	111	80-120	
Chromium	mg/L	0.04	0.043	109	80-120	
Cobalt	mg/L	0.04	0.044	109	80-120	
Lead	mg/L	0.04	0.044	109	80-120	
Molybdenum	mg/L	0.04	0.042	105	80-120	
Selenium	mg/L	0.04	0.040	101	80-120	
Thallium	mg/L	0.04	0.043	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2848205 2848206

Parameter	Units	50285992001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.04	0.04	0.046	0.043	114	107	75-125	6	20	
Arsenic	mg/L	0.0010	0.04	0.04	0.039	0.040	96	97	75-125	2	20	
Barium	mg/L	0.086	0.04	0.04	0.13	0.13	122	101	75-125	6	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
2848205					2848206							
Parameter	Units	50285992001	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike Conc.	Spike Conc.								
Beryllium	mg/L	ND	0.04	0.04	0.041	0.038	102	96	75-125	6	20	
Cadmium	mg/L	ND	0.04	0.04	0.044	0.042	110	105	75-125	5	20	
Chromium	mg/L	ND	0.04	0.04	0.044	0.044	109	108	75-125	1	20	
Cobalt	mg/L	0.0024	0.04	0.04	0.046	0.043	109	103	75-125	6	20	
Lead	mg/L	ND	0.04	0.04	0.045	0.043	112	107	75-125	4	20	
Molybdenum	mg/L	ND	0.04	0.04	0.044	0.042	109	102	75-125	7	20	
Selenium	mg/L	0.0029	0.04	0.04	0.041	0.041	95	96	75-125	1	20	
Thallium	mg/L	ND	0.04	0.04	0.045	0.043	113	108	75-125	4	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	616362	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples: 50284873001, 50284873002, 50284873003, 50284873004, 50284873005			

METHOD BLANK: 2840433 Matrix: Water
Associated Lab Samples: 50284873001, 50284873002, 50284873003, 50284873004, 50284873005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	04/20/21 12:42	

LABORATORY CONTROL SAMPLE: 2840434

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	272	91	80-120	

SAMPLE DUPLICATE: 2840435

Parameter	Units	50284863004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2340	2280	2	10	

SAMPLE DUPLICATE: 2840436

Parameter	Units	50284928010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	230	231	0	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	616699	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples: 50285068001, 50285068002, 50285068003, 50285068004, 50285068005			

METHOD BLANK: 2841990 Matrix: Water
Associated Lab Samples: 50285068001, 50285068002, 50285068003, 50285068004, 50285068005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	04/21/21 17:07	

LABORATORY CONTROL SAMPLE: 2841991

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	265	88	80-120	

SAMPLE DUPLICATE: 2841992

Parameter	Units	50285068001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	430	438	2	10	

SAMPLE DUPLICATE: 2841993

Parameter	Units	50285068002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	400	410	2	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	616837	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285157001, 50285157002, 50285157003, 50285157004, 50285157005, 50285157006, 50285157007, 50285157008, 50285157009, 50285157010		

METHOD BLANK:	2842523	Matrix:	Water
Associated Lab Samples:	50285157001, 50285157002, 50285157003, 50285157004, 50285157005, 50285157006, 50285157007, 50285157008, 50285157009, 50285157010		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	04/22/21 10:17	

LABORATORY CONTROL SAMPLE:	2842524					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	283	94	80-120	

SAMPLE DUPLICATE:	2842525					
Parameter	Units	50284187004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1500	1420			H5

SAMPLE DUPLICATE:	2842526					
Parameter	Units	50285157004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	269	276	3	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	617072	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285295001, 50285295002, 50285295003, 50285295004, 50285295005, 50285295006, 50285295007, 50285295008		

METHOD BLANK:	2843634	Matrix:	Water
Associated Lab Samples:	50285295001, 50285295002, 50285295003, 50285295004, 50285295005, 50285295006, 50285295007, 50285295008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	04/23/21 09:50	

LABORATORY CONTROL SAMPLE: 2843635						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	269	90	80-120	

SAMPLE DUPLICATE: 2843636

Parameter	Units	50285284019 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1200	1180	2	10	

SAMPLE DUPLICATE: 2843637						
Parameter	Units	50285289001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	546	542	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	617320	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	50285463001	Laboratory:	Pace Analytical Services - Indianapolis

METHOD BLANK: 2844835 Matrix: Water

Associated Lab Samples: 50285463001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	04/26/21 10:44	

LABORATORY CONTROL SAMPLE: 2844836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	254	85	80-120	

SAMPLE DUPLICATE: 2844837

Parameter	Units	50285376010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1590	1590	0	10	

SAMPLE DUPLICATE: 2844838

Parameter	Units	50285376012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3440	3530	3	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	617321	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285463002, 50285463003, 50285463004, 50285463005, 50285463006, 50285463007, 50285463008		

METHOD BLANK:	2844842	Matrix:	Water
Associated Lab Samples:	50285463002, 50285463003, 50285463004, 50285463005, 50285463006, 50285463007, 50285463008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	04/26/21 14:16	

LABORATORY CONTROL SAMPLE: 2844843						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	260	87	80-120	

SAMPLE DUPLICATE: 2844845						
Parameter	Units	50285463003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1440	1400	3	10	

SAMPLE DUPLICATE: 2844847						
Parameter	Units	50285463005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	659	662	0	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	617527	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50285591001, 50285591002

METHOD BLANK: 2845381 Matrix: Water

Associated Lab Samples: 50285591001, 50285591002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	04/27/21 11:51	

LABORATORY CONTROL SAMPLE: 2845382

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	271	90	80-120	

SAMPLE DUPLICATE: 2845384

Parameter	Units	50285575001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	322	111	97	10	R1

SAMPLE DUPLICATE: 2845385

Parameter	Units	50285576001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	204	206	1	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	617528	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285591003, 50285591004, 50285591005, 50285591006, 50285591007, 50285591008		

METHOD BLANK:	2845386	Matrix:	Water
Associated Lab Samples:	50285591003, 50285591004, 50285591005, 50285591006, 50285591007, 50285591008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	04/27/21 12:15	

LABORATORY CONTROL SAMPLE:	2845387					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	276	92	80-120	

SAMPLE DUPLICATE:	2845389					
Parameter	Units	50285591003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2180	2800	25	10	R1

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	617631	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285705001, 50285705002, 50285705003, 50285705004, 50285705005, 50285705006, 50285705007		

METHOD BLANK:	2845841	Matrix:	Water
Associated Lab Samples:	50285705001, 50285705002, 50285705003, 50285705004, 50285705005, 50285705006, 50285705007		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	04/27/21 16:45	

LABORATORY CONTROL SAMPLE:	2845842					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	260	87	80-120	

SAMPLE DUPLICATE:	2845843					
Parameter	Units	50285587001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	317	331	4	10	

SAMPLE DUPLICATE:	2845844					
Parameter	Units	50285587003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	316	307	3	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	615943	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50284873001, 50284873002, 50284873003, 50284873004, 50284873005

SAMPLE DUPLICATE: 2838538

Parameter	Units	50284793003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.0	7.0	0	2	H3

SAMPLE DUPLICATE: 2838539

Parameter	Units	50284873001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.3	1	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	615945	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50285068001, 50285068002, 50285068003, 50285068004, 50285068005

SAMPLE DUPLICATE: 2838543

Parameter	Units	50284965001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.3	0	2	H3

SAMPLE DUPLICATE: 2838711

Parameter	Units	50285068002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	0	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	616408	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285157001, 50285157002, 50285157003, 50285157004, 50285157005, 50285157006, 50285157007, 50285157008, 50285157009, 50285157010		

SAMPLE DUPLICATE: 2840596

Parameter	Units	50285140005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.4	0	2	H3

SAMPLE DUPLICATE: 2840597

Parameter	Units	50285157004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.6	0	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	617133	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50285295001, 50285295002, 50285295003

SAMPLE DUPLICATE: 2843938

Parameter	Units	50285254001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.3	8.3	0	2	H3

SAMPLE DUPLICATE: 2843939

Parameter	Units	50285639001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.0	7.0	0	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	617138	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285295004, 50285295005, 50285295006, 50285295007, 50285295008, 50285463001, 50285463002, 50285463003, 50285463004, 50285463005, 50285463006, 50285463007, 50285463008		

SAMPLE DUPLICATE: 2843949

Parameter	Units	50285295004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.3	0	2	H3

SAMPLE DUPLICATE: 2843950

Parameter	Units	50285463001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.4	0	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

QC Batch:	617228	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285591001, 50285591002, 50285591003, 50285591004, 50285591005, 50285591006, 50285591007, 50285591008, 50285705001, 50285705002, 50285705003, 50285705004, 50285705005, 50285705006, 50285705007		

SAMPLE DUPLICATE: 2844491

Parameter	Units	50285591001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	1	2	H3

SAMPLE DUPLICATE: 2844492

Parameter	Units	50285705001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	1	2	H3

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QUALIFIERS

Project: RMSGS Assessment April 21
Pace Project No.: 50284873

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

2d Bracketing CRDL recovery = 76%. FRW 4/29/21
3d CRDL recovery = 77%. FRW 5/5/21
F5 The recovery of the analyte in the CRDL standard (also known as the reporting limit verification) did not meet the acceptance criteria.
H3 Sample was received or analysis requested beyond the recognized method holding time.
H5 Reanalysis conducted in excess of EPA method holding time. Results confirm original analysis performed in hold time.
P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
P8 Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.
PL The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.
R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50284873001	GAMW-01-041421	EPA 9056	617559		
50284873002	GAMW-01B-041421	EPA 9056	617559		
50284873003	GAMW-03-041421	EPA 9056	617559		
50284873004	GAMW-17-041421	EPA 9056	617559		
50284873005	GAMW-17B-041421	EPA 9056	617559		
50285068001	GAMW-12B-041521	EPA 9056	617981		
50285068002	GAMW-03B-041521	EPA 9056	617981		
50285068003	GAMW-04-041521	EPA 9056	617981		
50285068004	FD-01-041521	EPA 9056	617981		
50285068005	GAMW-12-041521	EPA 9056	617981		
50285157001	GAMW-07B-041621	EPA 9056	618018		
50285157002	GAMW-07-041621	EPA 9056	618018		
50285157003	GAMW-15-041621	EPA 9056	618018		
50285157004	GAMW-52-041621	EPA 9056	618018		
50285157005	GAMW-52B-041621	EPA 9056	618018		
50285157006	GAMW-53-041621	EPA 9056	618018		
50285157007	GAMW-53B-041621	EPA 9056	618018		
50285157008	FB-01-041621	EPA 9056	618018		
50285157009	GAMW-15B-041621	EPA 9056	618018		
50285157010	FD-02-041621	EPA 9056	618018		
50285295001	GAMW-13-041921	EPA 9056	618566		
50285295002	GAMW-13B-041921	EPA 9056	618566		
50285295003	GAMW-14-041921	EPA 9056	618566		
50285295004	GAMW-14B-041921	EPA 9056	618566		
50285295005	FD-03-041921	EPA 9056	618566		
50285295006	FB-02-041921	EPA 9056	618566		
50285295007	GAMW-54-041921	EPA 9056	618566		
50285295008	GAMW-54B-041921	EPA 9056	618566		
50285463001	FD-04-042021	EPA 9056	618737		
50285463002	FB-03-042021	EPA 9056	618737		
50285463003	GAMW-18--042021	EPA 9056	618737		
50285463004	GAMW-09B-042021	EPA 9056	618737		
50285463005	GAMW-09-042021	EPA 9056	618737		
50285463006	GAMW-55R-042021	EPA 9056	618737		
50285463007	GAMW-55B-042021	EPA 9056	618737		
50285463008	GAMW-56-042021	EPA 9056	618737		
50285591001	GAMW-56B-042121	EPA 9056	618739		
50285591002	GAMW-51-042121	EPA 9056	618739		
50285591003	GAMW-51B-042121	EPA 9056	618739		
50285591004	GAMW-60-042121	EPA 9056	618739		
50285591005	GAMW-60B-042121	EPA 9056	618739		
50285591006	GAMW-18B-042121	EPA 9056	618739		
50285591007	FB-04-042121	EPA 9056	618739		
50285591008	GAMW-59-042121	EPA 9056	618739		
50285705001	GAMW-16R-042221	EPA 9056	619290		
50285705002	GAMW-16BR-042221	EPA 9056	619290		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50285705003	GAMW-59B-042221	EPA 9056	619290		
50285705004	GAMW-08-042221	EPA 9056	619290		
50285705005	GAMW-08B-042221	EPA 9056	619290		
50285705006	GAMW-68-042221	EPA 9056	619290		
50285705007	GAMW-68B-042221	EPA 9056	619290		
50284873001	GAMW-01-041421	EPA 3010	615857	EPA 6010	617213
50284873002	GAMW-01B-041421	EPA 3010	615857	EPA 6010	617213
50284873003	GAMW-03-041421	EPA 3010	615857	EPA 6010	617213
50284873004	GAMW-17-041421	EPA 3010	615857	EPA 6010	617213
50284873005	GAMW-17B-041421	EPA 3010	615857	EPA 6010	617213
50285068001	GAMW-12B-041521	EPA 3010	616189	EPA 6010	617748
50285068002	GAMW-03B-041521	EPA 3010	616189	EPA 6010	617748
50285068003	GAMW-04-041521	EPA 3010	616189	EPA 6010	617748
50285068004	FD-01-041521	EPA 3010	616189	EPA 6010	617748
50285068005	GAMW-12-041521	EPA 3010	616189	EPA 6010	617748
50285157001	GAMW-07B-041621	EPA 3010	616675	EPA 6010	617521
50285157002	GAMW-07-041621	EPA 3010	616675	EPA 6010	617521
50285157003	GAMW-15-041621	EPA 3010	616675	EPA 6010	617521
50285157004	GAMW-52-041621	EPA 3010	616675	EPA 6010	617521
50285157005	GAMW-52B-041621	EPA 3010	616675	EPA 6010	617521
50285157006	GAMW-53-041621	EPA 3010	616675	EPA 6010	617521
50285157007	GAMW-53B-041621	EPA 3010	616675	EPA 6010	617521
50285157008	FB-01-041621	EPA 3010	616675	EPA 6010	617521
50285157009	GAMW-15B-041621	EPA 3010	616675	EPA 6010	617521
50285157010	FD-02-041621	EPA 3010	616675	EPA 6010	617521
50285295001	GAMW-13-041921	EPA 3010	616676	EPA 6010	618139
50285295002	GAMW-13B-041921	EPA 3010	616676	EPA 6010	618139
50285295003	GAMW-14-041921	EPA 3010	616676	EPA 6010	618139
50285295004	GAMW-14B-041921	EPA 3010	616676	EPA 6010	618139
50285295005	FD-03-041921	EPA 3010	616676	EPA 6010	618139
50285295006	FB-02-041921	EPA 3010	616676	EPA 6010	618139
50285295007	GAMW-54-041921	EPA 3010	616676	EPA 6010	618139
50285295008	GAMW-54B-041921	EPA 3010	616676	EPA 6010	618139
50285463001	FD-04-042021	EPA 3010	617239	EPA 6010	618530
50285463002	FB-03-042021	EPA 3010	617239	EPA 6010	618530
50285463003	GAMW-18--042021	EPA 3010	617239	EPA 6010	618530
50285463004	GAMW-09B-042021	EPA 3010	617239	EPA 6010	618530
50285463005	GAMW-09-042021	EPA 3010	617239	EPA 6010	618530
50285463006	GAMW-55R-042021	EPA 3010	617239	EPA 6010	618530
50285463007	GAMW-55B-042021	EPA 3010	617239	EPA 6010	618530
50285463008	GAMW-56-042021	EPA 3010	617239	EPA 6010	618530
50285591001	GAMW-56B-042121	EPA 3010	617242	EPA 6010	618926
50285591002	GAMW-51-042121	EPA 3010	617242	EPA 6010	618926
50285591003	GAMW-51B-042121	EPA 3010	617242	EPA 6010	618926
50285591004	GAMW-60-042121	EPA 3010	617242	EPA 6010	618926
50285591005	GAMW-60B-042121	EPA 3010	617242	EPA 6010	618926

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50285591006	GAMW-18B-042121	EPA 3010	617242	EPA 6010	618926
50285591007	FB-04-042121	EPA 3010	617242	EPA 6010	618926
50285591008	GAMW-59-042121	EPA 3010	617242	EPA 6010	618926
50285705001	GAMW-16R-042221	EPA 3010	617242	EPA 6010	618926
50285705002	GAMW-16BR-042221	EPA 3010	617242	EPA 6010	618926
50285705003	GAMW-59B-042221	EPA 3010	617242	EPA 6010	618926
50285705004	GAMW-08-042221	EPA 3010	617242	EPA 6010	618926
50285705005	GAMW-08B-042221	EPA 3010	617242	EPA 6010	618926
50285705006	GAMW-68-042221	EPA 3010	617242	EPA 6010	618926
50285705007	GAMW-68B-042221	EPA 3010	617242	EPA 6010	618926
50284873001	GAMW-01-041421	EPA 200.2	616755	EPA 6020	616924
50284873002	GAMW-01B-041421	EPA 200.2	616755	EPA 6020	616924
50284873003	GAMW-03-041421	EPA 200.2	616755	EPA 6020	616924
50284873004	GAMW-17-041421	EPA 200.2	616755	EPA 6020	616924
50284873005	GAMW-17B-041421	EPA 200.2	616755	EPA 6020	616924
50285068001	GAMW-12B-041521	EPA 200.2	617095	EPA 6020	617469
50285068002	GAMW-03B-041521	EPA 200.2	617095	EPA 6020	617469
50285068003	GAMW-04-041521	EPA 200.2	617095	EPA 6020	617469
50285068004	FD-01-041521	EPA 200.2	617095	EPA 6020	617469
50285068005	GAMW-12-041521	EPA 200.2	617095	EPA 6020	617469
50285157001	GAMW-07B-041621	EPA 200.2	617095	EPA 6020	617469
50285157002	GAMW-07-041621	EPA 200.2	617095	EPA 6020	617469
50285157003	GAMW-15-041621	EPA 200.2	617095	EPA 6020	617469
50285157004	GAMW-52-041621	EPA 200.2	617095	EPA 6020	617469
50285157005	GAMW-52B-041621	EPA 200.2	617095	EPA 6020	617469
50285157006	GAMW-53-041621	EPA 200.2	617095	EPA 6020	617469
50285157007	GAMW-53B-041621	EPA 200.2	617095	EPA 6020	617469
50285157008	FB-01-041621	EPA 200.2	617095	EPA 6020	617469
50285157009	GAMW-15B-041621	EPA 200.2	617095	EPA 6020	617469
50285157010	FD-02-041621	EPA 200.2	617095	EPA 6020	617469
50285295001	GAMW-13-041921	EPA 200.2	617734	EPA 6020	617932
50285295002	GAMW-13B-041921	EPA 200.2	617734	EPA 6020	617932
50285295003	GAMW-14-041921	EPA 200.2	617734	EPA 6020	617932
50285295004	GAMW-14B-041921	EPA 200.2	617734	EPA 6020	617932
50285295005	FD-03-041921	EPA 200.2	617734	EPA 6020	617932
50285295006	FB-02-041921	EPA 200.2	617734	EPA 6020	617932
50285295007	GAMW-54-041921	EPA 200.2	617734	EPA 6020	617932
50285295008	GAMW-54B-041921	EPA 200.2	617734	EPA 6020	617932
50285463001	FD-04-042021	EPA 200.2	617734	EPA 6020	617932
50285463002	FB-03-042021	EPA 200.2	617734	EPA 6020	617932
50285463003	GAMW-18--042021	EPA 200.2	617734	EPA 6020	617932
50285463004	GAMW-09B-042021	EPA 200.2	617734	EPA 6020	617932
50285463005	GAMW-09-042021	EPA 200.2	617734	EPA 6020	617932
50285463006	GAMW-55R-042021	EPA 200.2	617734	EPA 6020	617932
50285463007	GAMW-55B-042021	EPA 200.2	617734	EPA 6020	617932
50285463008	GAMW-56-042021	EPA 200.2	617734	EPA 6020	617932
50285591001	GAMW-56B-042121	EPA 200.2	618145	EPA 6020	618418

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50285591002	GAMW-51-042121	EPA 200.2	618145	EPA 6020	618418
50285591003	GAMW-51B-042121	EPA 200.2	618145	EPA 6020	618418
50285591004	GAMW-60-042121	EPA 200.2	618145	EPA 6020	618418
50285591005	GAMW-60B-042121	EPA 200.2	618145	EPA 6020	618418
50285591006	GAMW-18B-042121	EPA 200.2	618145	EPA 6020	618418
50285591007	FB-04-042121	EPA 200.2	618145	EPA 6020	618418
50285591008	GAMW-59-042121	EPA 200.2	618145	EPA 6020	618418
50285705001	GAMW-16R-042221	EPA 200.2	618145	EPA 6020	618418
50285705002	GAMW-16BR-042221	EPA 200.2	618145	EPA 6020	618418
50285705003	GAMW-59B-042221	EPA 200.2	618145	EPA 6020	618418
50285705004	GAMW-08-042221	EPA 200.2	618145	EPA 6020	618418
50285705005	GAMW-08B-042221	EPA 200.2	618145	EPA 6020	618418
50285705006	GAMW-68-042221	EPA 200.2	618145	EPA 6020	618418
50285705007	GAMW-68B-042221	EPA 200.2	618145	EPA 6020	618418
50284873001	GAMW-01-041421	EPA 7470	616434	EPA 7470	616800
50284873002	GAMW-01B-041421	EPA 7470	616434	EPA 7470	616800
50284873003	GAMW-03-041421	EPA 7470	616434	EPA 7470	616800
50284873004	GAMW-17-041421	EPA 7470	616434	EPA 7470	616800
50284873005	GAMW-17B-041421	EPA 7470	616434	EPA 7470	616800
50285068001	GAMW-12B-041521	EPA 7470	616898	EPA 7470	617263
50285068002	GAMW-03B-041521	EPA 7470	616898	EPA 7470	617263
50285068003	GAMW-04-041521	EPA 7470	616898	EPA 7470	617263
50285068004	FD-01-041521	EPA 7470	616898	EPA 7470	617263
50285068005	GAMW-12-041521	EPA 7470	616898	EPA 7470	617263
50285157001	GAMW-07B-041621	EPA 7470	617558	EPA 7470	617936
50285157002	GAMW-07-041621	EPA 7470	617558	EPA 7470	617936
50285157003	GAMW-15-041621	EPA 7470	617558	EPA 7470	617936
50285157004	GAMW-52-041621	EPA 7470	617558	EPA 7470	617936
50285157005	GAMW-52B-041621	EPA 7470	617558	EPA 7470	617936
50285157006	GAMW-53-041621	EPA 7470	617558	EPA 7470	617936
50285157007	GAMW-53B-041621	EPA 7470	617558	EPA 7470	617936
50285157008	FB-01-041621	EPA 7470	617558	EPA 7470	617936
50285157009	GAMW-15B-041621	EPA 7470	617558	EPA 7470	617936
50285157010	FD-02-041621	EPA 7470	617558	EPA 7470	617936
50285295001	GAMW-13-041921	EPA 7470	617690	EPA 7470	618184
50285295002	GAMW-13B-041921	EPA 7470	617690	EPA 7470	618184
50285295003	GAMW-14-041921	EPA 7470	617690	EPA 7470	618184
50285295004	GAMW-14B-041921	EPA 7470	617690	EPA 7470	618184
50285295005	FD-03-041921	EPA 7470	617690	EPA 7470	618184
50285295006	FB-02-041921	EPA 7470	617690	EPA 7470	618184
50285295007	GAMW-54-041921	EPA 7470	617690	EPA 7470	618184
50285295008	GAMW-54B-041921	EPA 7470	617690	EPA 7470	618184
50285463001	FD-04-042021	EPA 7470	617690	EPA 7470	618184
50285463002	FB-03-042021	EPA 7470	617690	EPA 7470	618184
50285463003	GAMW-18--042021	EPA 7470	617690	EPA 7470	618184
50285463004	GAMW-09B-042021	EPA 7470	617690	EPA 7470	618184
50285463005	GAMW-09-042021	EPA 7470	617690	EPA 7470	618184

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50285463006	GAMW-55R-042021	EPA 7470	617690	EPA 7470	618184
50285463007	GAMW-55B-042021	EPA 7470	617690	EPA 7470	618184
50285463008	GAMW-56-042021	EPA 7470	617690	EPA 7470	618184
50285591001	GAMW-56B-042121	EPA 7470	617905	EPA 7470	618879
50285591002	GAMW-51-042121	EPA 7470	617905	EPA 7470	618879
50285591003	GAMW-51B-042121	EPA 7470	617905	EPA 7470	618879
50285591004	GAMW-60-042121	EPA 7470	617905	EPA 7470	618879
50285591005	GAMW-60B-042121	EPA 7470	617905	EPA 7470	618879
50285591006	GAMW-18B-042121	EPA 7470	617905	EPA 7470	618879
50285591007	FB-04-042121	EPA 7470	617905	EPA 7470	618879
50285591008	GAMW-59-042121	EPA 7470	617905	EPA 7470	618879
50285705001	GAMW-16R-042221	EPA 7470	618451	EPA 7470	618880
50285705002	GAMW-16BR-042221	EPA 7470	618451	EPA 7470	618880
50285705003	GAMW-59B-042221	EPA 7470	618451	EPA 7470	618880
50285705004	GAMW-08-042221	EPA 7470	618451	EPA 7470	618880
50285705005	GAMW-08B-042221	EPA 7470	618451	EPA 7470	618880
50285705006	GAMW-68-042221	EPA 7470	618451	EPA 7470	618880
50285705007	GAMW-68B-042221	EPA 7470	618451	EPA 7470	618880
50284873001	GAMW-01-041421	SM 2540C	616362		
50284873002	GAMW-01B-041421	SM 2540C	616362		
50284873003	GAMW-03-041421	SM 2540C	616362		
50284873004	GAMW-17-041421	SM 2540C	616362		
50284873005	GAMW-17B-041421	SM 2540C	616362		
50285068001	GAMW-12B-041521	SM 2540C	616699		
50285068002	GAMW-03B-041521	SM 2540C	616699		
50285068003	GAMW-04-041521	SM 2540C	616699		
50285068004	FD-01-041521	SM 2540C	616699		
50285068005	GAMW-12-041521	SM 2540C	616699		
50285157001	GAMW-07B-041621	SM 2540C	616837		
50285157002	GAMW-07-041621	SM 2540C	616837		
50285157003	GAMW-15-041621	SM 2540C	616837		
50285157004	GAMW-52-041621	SM 2540C	616837		
50285157005	GAMW-52B-041621	SM 2540C	616837		
50285157006	GAMW-53-041621	SM 2540C	616837		
50285157007	GAMW-53B-041621	SM 2540C	616837		
50285157008	FB-01-041621	SM 2540C	616837		
50285157009	GAMW-15B-041621	SM 2540C	616837		
50285157010	FD-02-041621	SM 2540C	616837		
50285295001	GAMW-13-041921	SM 2540C	617072		
50285295002	GAMW-13B-041921	SM 2540C	617072		
50285295003	GAMW-14-041921	SM 2540C	617072		
50285295004	GAMW-14B-041921	SM 2540C	617072		
50285295005	FD-03-041921	SM 2540C	617072		
50285295006	FB-02-041921	SM 2540C	617072		
50285295007	GAMW-54-041921	SM 2540C	617072		
50285295008	GAMW-54B-041921	SM 2540C	617072		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50285463001	FD-04-042021	SM 2540C	617320		
50285463002	FB-03-042021	SM 2540C	617321		
50285463003	GAMW-18--042021	SM 2540C	617321		
50285463004	GAMW-09B-042021	SM 2540C	617321		
50285463005	GAMW-09-042021	SM 2540C	617321		
50285463006	GAMW-55R-042021	SM 2540C	617321		
50285463007	GAMW-55B-042021	SM 2540C	617321		
50285463008	GAMW-56-042021	SM 2540C	617321		
50285591001	GAMW-56B-042121	SM 2540C	617527		
50285591002	GAMW-51-042121	SM 2540C	617527		
50285591003	GAMW-51B-042121	SM 2540C	617528		
50285591004	GAMW-60-042121	SM 2540C	617528		
50285591005	GAMW-60B-042121	SM 2540C	617528		
50285591006	GAMW-18B-042121	SM 2540C	617528		
50285591007	FB-04-042121	SM 2540C	617528		
50285591008	GAMW-59-042121	SM 2540C	617528		
50285705001	GAMW-16R-042221	SM 2540C	617631		
50285705002	GAMW-16BR-042221	SM 2540C	617631		
50285705003	GAMW-59B-042221	SM 2540C	617631		
50285705004	GAMW-08-042221	SM 2540C	617631		
50285705005	GAMW-08B-042221	SM 2540C	617631		
50285705006	GAMW-68-042221	SM 2540C	617631		
50285705007	GAMW-68B-042221	SM 2540C	617631		
50284873001	GAMW-01-041421	SM 4500-H+B	615943		
50284873002	GAMW-01B-041421	SM 4500-H+B	615943		
50284873003	GAMW-03-041421	SM 4500-H+B	615943		
50284873004	GAMW-17-041421	SM 4500-H+B	615943		
50284873005	GAMW-17B-041421	SM 4500-H+B	615943		
50285068001	GAMW-12B-041521	SM 4500-H+B	615945		
50285068002	GAMW-03B-041521	SM 4500-H+B	615945		
50285068003	GAMW-04-041521	SM 4500-H+B	615945		
50285068004	FD-01-041521	SM 4500-H+B	615945		
50285068005	GAMW-12-041521	SM 4500-H+B	615945		
50285157001	GAMW-07B-041621	SM 4500-H+B	616408		
50285157002	GAMW-07-041621	SM 4500-H+B	616408		
50285157003	GAMW-15-041621	SM 4500-H+B	616408		
50285157004	GAMW-52-041621	SM 4500-H+B	616408		
50285157005	GAMW-52B-041621	SM 4500-H+B	616408		
50285157006	GAMW-53-041621	SM 4500-H+B	616408		
50285157007	GAMW-53B-041621	SM 4500-H+B	616408		
50285157008	FB-01-041621	SM 4500-H+B	616408		
50285157009	GAMW-15B-041621	SM 4500-H+B	616408		
50285157010	FD-02-041621	SM 4500-H+B	616408		
50285295001	GAMW-13-041921	SM 4500-H+B	617133		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment April 21

Pace Project No.: 50284873

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50285295002	GAMW-13B-041921	SM 4500-H+B	617133		
50285295003	GAMW-14-041921	SM 4500-H+B	617133		
50285295004	GAMW-14B-041921	SM 4500-H+B	617138		
50285295005	FD-03-041921	SM 4500-H+B	617138		
50285295006	FB-02-041921	SM 4500-H+B	617138		
50285295007	GAMW-54-041921	SM 4500-H+B	617138		
50285295008	GAMW-54B-041921	SM 4500-H+B	617138		
50285463001	FD-04-042021	SM 4500-H+B	617138		
50285463002	FB-03-042021	SM 4500-H+B	617138		
50285463003	GAMW-18--042021	SM 4500-H+B	617138		
50285463004	GAMW-09B-042021	SM 4500-H+B	617138		
50285463005	GAMW-09-042021	SM 4500-H+B	617138		
50285463006	GAMW-55R-042021	SM 4500-H+B	617138		
50285463007	GAMW-55B-042021	SM 4500-H+B	617138		
50285463008	GAMW-56-042021	SM 4500-H+B	617138		
50285591001	GAMW-56B-042121	SM 4500-H+B	617228		
50285591002	GAMW-51-042121	SM 4500-H+B	617228		
50285591003	GAMW-51B-042121	SM 4500-H+B	617228		
50285591004	GAMW-60-042121	SM 4500-H+B	617228		
50285591005	GAMW-60B-042121	SM 4500-H+B	617228		
50285591006	GAMW-18B-042121	SM 4500-H+B	617228		
50285591007	FB-04-042121	SM 4500-H+B	617228		
50285591008	GAMW-59-042121	SM 4500-H+B	617228		
50285705001	GAMW-16R-042221	SM 4500-H+B	617228		
50285705002	GAMW-16BR-042221	SM 4500-H+B	617228		
50285705003	GAMW-59B-042221	SM 4500-H+B	617228		
50285705004	GAMW-08-042221	SM 4500-H+B	617228		
50285705005	GAMW-08B-042221	SM 4500-H+B	617228		
50285705006	GAMW-68-042221	SM 4500-H+B	617228		
50285705007	GAMW-68B-042221	SM 4500-H+B	617228		

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50284873

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

3

Required Client Information:

Company: NiSource Golder

Address: 801 E. 86th Avenue

Merrillville, IN 46410

Email: jim_peace@golder.com

Phone: _____ Fax: _____

Requested Due Date: Stanley

Required Project Information:

Report To: Jim Peace

Copy To: krysta_cione@golder.com

danielle sylvia@golder.com

Purchase Order #:	12747

Project Name:	RMSGs Assessment April 21

Project #:

Section C

Invoice Information:

Attention: Jeff Loewe U126177

Company Name:	NIPSCO

Address:

Pace Quote:

Pace Project Manager: tina.sayer@pacelabs.com

Pace Profile #:	9045-1

Page :

Of

Regulatory Agency

State / Location

IN

[illegible]

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on	ce	(Y/N)	Custody	Sealed	Cooler	(Y/N)	Samples	Rec'd	(Y/N)
PRINT Name of SAMPLER:												
SIGNATURE of SAMPLER:												



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: APR 4/15/21 1005

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER _____

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: 0.2/0.2

Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☒ Bubble Wrap ☒ Bubble Bags

☐ None

☐ Other _____

6. Ice Type: ☒ Wet ☐ Blue ☐ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis:		☒	Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	☒		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Custody Signatures Present?	☒		Headspace Wisconsin Sulfide?			☒
Containers Intact?:	☒		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Trip Blank Present?		☒	
Extra labels on Terracore Vials? (soils only)		☒	Trip Blank Custody Seals?:			☒

COMMENTS:

[illegible]

Container Codes

Glass			Plastic / Misc.		
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass
DG9H	40mL HCl amber vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic
WGFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass		

BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Ac plastic

AF	Air Filter
C	Air Cassettes
R	Terra core kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

WT	Water
SL	Solid
NAL	Non-aqueous liquid
WP	Wipe

50285068



-OF-CUSTODY / Analytical Request Document

-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:

Company: NiSource_Golder
Address: 801 E 86th Avenue
Merrillville, IN 46410
Email: jim_peace@golder.com
Phone: (663)782-2433
Requested Due Date: 5/24/2011

Required Project Information:

Report To:	Jim Peace
Copy To:	Krysta Cione, Danielle Sylvia
Purchase Order #:	12747
Project Name:	RMSGs Assessment April 21
Project #:	

Section C

Invoice Information:

Attention:	Jeff Loewe U126177
Company Name:	NIPSCO
Address:	
Pace Quote:	
Pace Project Manager:	tina.sayer@pacelabs.com
Pace Profile #:	9045-1

Page : Of

Regulatory Agency

State / Location

IN

[illegible]



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: MR 4/14/21 1230

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: 0.9/0.9 0.3/0.3
Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☐ Bubble Wrap ☐ Bubble Bags
☒ None ☐ Other

6. Ice Type: ☒ Wet ☐ Blue ☐ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis:		☒	Circle: HNO ₃ (<2) H ₂ SO ₄ (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	☒		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			☒
Custody Signatures Present?	☒		Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Containers Intact?:	☒		Headspace Wisconsin Sulfide?	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Headspace in VOA Vials (>6mm): See Container Count form for details			☒
Extra labels on Terracore Vials? (soils only)		☒	Trip Blank Present?		☒	
			Trip Blank Custody Seals?:		☒	

COMMENTS:

[illegible]

Container Codes

Glass				Plastic / Misc.	
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic
WGFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass		

BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Ac plastic

AF	Air Filter
C	Air Cassettes
R	Terra core kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

WT	Water
SL	Solid
NAL	Non-aqueous liquid
WP	Wipe

WO#: 50285157



50285157

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

tion #
quired

Company: NiSource Golder
Address: 801 E 86th Avenue
Millsville, IN 46410
Email: jim_peace@golder.com
Phone: (603)782-2433 Fax:
Requested Due Date: Standard

Required Project Information:

Report To: Jim Peace
Copy To: Krysta Clone, Danielle Sylvia
Purchase Order #: 12747
Project Name: RMSGS Assessment April 21
Project #:

Section C

Invoice Information:

Attention: Jeff Loewe U126177
Company Name: NIPSCO
Address:
Pace Quote:
Pace Project Manager: tina.sayer@pace labs.com
Pace Profile #: 9045-1

Page: 1 Of 1

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analyses Test	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Total metals **	Cl, F, SO4 by 9056		pH	TDS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
*B,Ca,Li by 6010;	Katherine Bartels/Golder	4/16/21	1700	Fedex						
Be,Cr,Cu,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020	Fedex	4/14/21	0900	Daniel Pearson/Pace	4/14/21	0900	17.0	N	Y	Y
Hg by 7470							16.0	N	Y	Y
							0.8	Y	Y	Y
							0.5	Y	Y	Y

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Katherine Bartels
SIGNATURE of SAMPLER:	[Signature]
DATE Signed:	4/16/21

TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples intact (Y/N)

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DMP 4/17/21 10:371. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)3. Thermometer: 1 2 3 4 5 6 A B C D E F4. Cooler Temperature: #1 (16.8/17.0); #2 (15.8/16.0); #3 (0.8/0.8)

Temp should be above freezing to 6°C (Initial/Corrected)

#4 (0.5/0.5)

5. Packing Material:

☐ Bubble Wrap☐ Bubble Bags☒ None☐ Other

6. Ice Type:

☒ Wet☐ Blue☐ None

(NO ice for RADS)

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, collform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	☒		
Short Hold Time Analysis (48 hours or less)? Analysis:		☒	Circle: HNO ₃ (<2) H ₂ SO ₄ (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Custody Signatures Present?	☒		Headspace Wisconsin Sulfide?			☒
Containers Intact?:	☒		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID		☒	Trip Blank Present?		☒	
Extra labels on Terracore Vials? (soils only)		N/A	Trip Blank Custody Seals?:			☒

COMMENTS: 2BP4N labeled with the time of "1435" for "FD-02-041621" DMP 4/17/21
All containers received for FD-02-041621 labeled with a time of
1435, COC = 1200. / DMP 4/17/21

Container Codes

F-IN-Q-270-rev. 12.11Aug2020

WO#: 50285295



50285295

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Sec
Req

Required Project Information:

Section C

Invoice Information:

Page: 1 Of 1

Company: NiSource Golder	Report To: Jim Peace	Attention: Jeff Loewe U126177
Address: 801 E 86th Avenue	Copy To: Krysta Cione, Danielle Sylvia	Company Name: NIPSCO
Merrillville, IN 46410	Purchase Order #: 12747	Address:
Email: jim_peace@golder.com	Project Name: RMSGS Assessment April 21	Pace Quote:
Phone: (603)782-2433 Fax:	Project #: 9045-1	Pace Project Manager: tina.sayer@pacelabs.com
Requested Due Date: Standard		Pace Profile #: 9045-1

Regulatory Agency

State / Location

IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analyses Test Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Total metals **	Cl, F, SO4 by 9056		pH	TDS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**B,Ca,Li by 6010;	Katie Butels/Golder	4/19/21	1400	James						
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Ti,Pb by 6020					4/20/21	0915	0.6	✓	✓	✓
Hg by 7470										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed:

TEMP in C

Received on

Ice

(Y/N)

Custody

Sealed

Cooled

(Y/N)

Sample

Intact

(Y/N)



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents:

MR 4/20/21 1555

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: 0.6 / 0.6

Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☐ Bubble Wrap ☐ Bubble Bags☒ None ☐ Other6. Ice Type: ☒ Wet ☐ Blue ☐ None7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	☒		
Short Hold Time Analysis (48 hours or less)? Analysis:		☒	Circle: ~~MNO2~~ (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			☒
Custody Signatures Present?	☒		Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Containers Intact?:	☒		Headspace Wisconsin Sulfide?			☒
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Extra labels on Terracore Vials? (soils only)		☒	Trip Blank Present?		☒	
			Trip Blank Custody Seals?:		☒	

COMMENTS:

Sample Container Count

Sample Line Item	WGFI	SBS DI BK Kit	R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										

Container Codes

Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber voa vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac		
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic	AF	Air Filter
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic	C	Air Cassettes
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic	R	Terra core kit
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic	SP5T	120mL Coliform Na Thiosulfate
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic	U	Summa Can
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac	ZPLC	Ziploc Bag
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic		
WGUFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
JGUFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)	WT	Water
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass			SL	Solid
						NAL	Non-aqueous liquid
						WP	Wipe

WO# : 50285463



50285463

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A

Required Client Information:

Company: NiSource_Golder
Address: 801 E 86th Avenue
Merrillville, IN 46410
Email: jim_peace@golder.com
Phone: (603)782-2433 Fax:
Requested Due Date: 5/20/21

Required Project Information:

Report To: Jim Peace
Copy To: Krysta Cione, Danielle Sylvia
Purchase Order #: 12747
Project Name: RMSGS Assessment April 21
Project #:

Section C

Invoice Information:

Attention: Jeff Loewe U126177
Company Name: NIPSCO
Address:
Pace Quote:
Pace Project Manager: tina.sayer@pacelabs.com
Pace Profile #: 9045-1

Regulatory Agency

State / Location

IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique	MATRIX Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	CODE DW WT WW P SL OL WP AR OT TS	COLLECTED START DATE TIME END DATE TIME	PRESERVATIVES Unpreserved H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)			
						ANALYSES TEST Total metals ** Cl, F, SO4 by 9056 pH TDS													
							Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N		Y/N		
25	GAMW-18B	WT																	
26	GAMW-51B	WT																	
27	GAMW-51B	WT																	
28	GAMW-52B FD-04-042021	WT		4/30/21	1200	3	2	1											001
29	GAMW-52B FB-03-042021	WT		4/30/21	1317	3	2	1											002
30	GAMW-53B GAMW-18-042021	WT		4/30/21	1335	3	2	1											003
31	GAMW-53B GAMW-09B-042021	WT		4/30/21	1230	3	2	1											004
32	GAMW-54B GAMW-09-042021	WT		4/30/21	1040	3	2	1											005
33	GAMW-54B	WT																	
34	GAMW-55R -042021	WT		4/30/21	1140	3	2	1											006
35	GAMW-55B -042021	WT		4/30/21	1045	3	2	1											007
36	GAMW-56 -042021	WT		4/30/21	1325	3	2	1											008

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
**B,Ca,Li by 6010;	Katherine Bartels / Golder	4/20/21	1700	FEDEX			
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020	FEDEX	4/21/21	0850	Daniel Penman / PACE	4/21/21	0850	2.0 Y Y Y
Hg by 7470							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 4/20/21

TEMP in C

Received on

Ice (Y/N)

Custody Sealed (Y/N)

Cooler (Y/N)

Samples Intact (Y/N)



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DMP 4/21/21 15:54

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER _____

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: 2.0/20
Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☐ Bubble Wrap ☐ Bubble Bags

☒ None ☐ Other _____

6. Ice Type: ☒ Wet ☐ Blue ☐ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	☒		
Short Hold Time Analysis (48 hours or less)? Analysis:		☒	Circle: HNO ₃ (<2) H ₂ SO ₄ (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			☒
Custody Signatures Present?	☒		Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Containers Intact?:	☒		Headspace Wisconsin Sulfide?			☒
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Extra labels on Terracore Vials? (soils only)		<u>N/A</u>	Trip Blank Present?		☒	
			Trip Blank Custody Seals?:			☒

COMMENTS:

Sample Container Count

Sample Line Item	WGFI	SBS DI BK Kit	R	DG9H VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										

Container Codes

Glass

DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass
DG9H	40mL HCl amber vial	AG1H	1L HCl amber glass
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass
WGFI	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass
JGFI	4oz unpreserved amber wide	BG1U	1L unpreserved glass
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass

Plastic / Misc.

BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
BP1S	1L H2SO4 plastic		
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2A	500mL NaOH, Asc Acid plastic		
BP2N	500mL HNO3 plastic		
BP2O	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic (field filtered)		
AF	Air Filter		
C	Air Cassettes		
R	Terra core kit		
SP5T	120mL Coliform Na Thiosulfate		
U	Summa Can		
ZPLC	Ziploc Bag		
WT	Water		
SL	Solid		
NAL	Non-aqueous liquid		
WP	Wipe		



CHAIN-OF-CUSTODY / Analytical Request Doc

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be

WO#: 50285591



50285591

Section A

Required Client Information:

Company: NISource_Golder
Address: 801 E 86th Avenue
City: Merrillville, IN 46410
Email: jim_peace@golder.com
Phone: (603)782-2433
Requested Due Date: 5/1/21

Section B

Required Project Information:

Report To: Jim Peace
Copy To: Krysta Cione, Danielle Sylvia
Purchase Order #: 12747
Project Name: RMSGS Assessment April 21
Project #: 9045-1

Section C

Invoice Information:

Attention: Jeff Loewe U126177
Company Name: NIPSCO
Address:
Pace Quote:
Pace Project Manager: tina.sayer@pacelabs.com
Pace Profile #: 9045-1

Regulatory Agency

State / Location

IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		Total metals **	Cl, F, SO4 by 9056	pH	TDS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**B,Ca,Li by 6010;	Katharine Butels/Golder	4/21/21	1700	Red Ex						
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020	Red Ex			Red Ex	4/21/21	845	13	Y	N	Y
Hg by 7470										

SAMPLER NAME AND SIGNATURE				TEMP in C	Received on	Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER:									
SIGNATURE of SAMPLER:									
Katharine Bartels									
DATE Signed: 4/21/21									

SAMPLE CONDITION UPON RECEIPT FORM


Date/Time and Initials of person examining contents: WS 4-22-21 16251. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER2. Custody Seal on Cooler/Box Present: ☐ Yes ☒ No(If yes) Seals Intact: ☐ Yes ☐ No (leave blank if no seals were present)3. Thermometer: 1 2 3 4 5 6 ABCDEF4. Cooler Temperature: 12/13
Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material:

☐ Bubble Wrap☐ Bubble Bags☐ None☒ Other Ziploc6. Ice Type: ☒ Wet ☐ Blue ☐ None7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)?		☒	Circle: HNO ₃ (<2) H ₂ SO ₄ (<2) NaOH (>10) NaOH/ZnAc (>9)			
Analysis:			Any non-conformance to pH recommendations will be noted on the container count form	☒		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):	☒	☒	Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Custody Signatures Present?	☒		Headspace Wisconsin Sulfide?			☒
Containers Intact?:	☒		Headspace in VOA Vials (>6mm):	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC?:	☒		See Container Count form for details			☒
Extra labels on Terracore Vials? (soils only)		☒	Trip Blank Present?		☒	
			Trip Blank Custody Seals?:		☒	

COMMENTS:

Container Codes

Page 155 of 158

50285705

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Required Project Information:

Invoice Information:

Page : Of

Report To:	Jim Peace
Copy To:	Krysta Clone, Danielle Sylvia
Purchase Order #:	12747
Project Name:	RMSGs Assessment April 21
Project #:	

Attention:	Jeff Loewe U126177
Company Name:	NIPSCO
Address:	
Phone Quote:	
Pace Project Manager:	tina.sayer@pacelabs.com,
Pace Profile #:	9045-1

Regulatory Agency

State / Location

IN

**B,Ca,Li by 6010;
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020
Hg by 7470

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 4/22/2

TEMP in C

Received on

 (Y/N) Custody
SealedCooler
(Y/N)

samples
contact

Page 156 of 158



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: BC 4-23-21 16:42

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER _____

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: -0.1 / -0.1
Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☐ Bubble Wrap ☐ Bubble Bags

☐ None ☐ Other _____

6. Ice Type: ☐ Wet ☐ Blue ☐ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	☒		
Short Hold Time Analysis (48 hours or less)? Analysis:		☒	Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	☒		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			☒
Custody Signatures Present?	☒		Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Containers Intact?:	☒		Headspace Wisconsin Sulfide?			☒
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	No VOA Vials Sent
Extra labels on Terracore Vials? (soils only)		☒	Trip Blank Present?		☒	
			Trip Blank Custody Seals?:			☒

COMMENTS:

Container Codes

Page 158 of 158

May 21, 2021

Mr. Jim Peace
Golder
670 North Commercial Street
Suite 103
Manchester, NH 03101

RE: Project: RMSGS Assessment April 21
Pace Project No.: 50284875

Dear Mr. Peace:

Enclosed are the analytical results for sample(s) received by the laboratory between April 15, 2021 and April 23, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,



Tina Sayer
tina.sayer@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Ms. Krysta Cione, Golder
Accounts Payable., NiSource
Ms. Danielle Sylvia, Golder



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50284875001	GAMW-01-041421	Water	04/14/21 10:50	04/15/21 08:45
50284875002	GAMW-01B-041421	Water	04/14/21 12:10	04/15/21 08:45
50284875003	GAMW-03-041421	Water	04/14/21 15:15	04/15/21 08:45
50284875004	GAMW-17-041421	Water	04/14/21 15:08	04/15/21 08:45
50284875005	GAMW-17B-041421	Water	04/14/21 14:15	04/15/21 08:45
50285069001	GAMW-12-041521	Water	04/15/21 10:55	04/16/21 09:00
50285069002	GAMW-12B-041521	Water	04/15/21 13:00	04/16/21 09:00
50285069003	GAMW-04-041521	Water	04/15/21 15:35	04/16/21 09:00
50285069004	GAMW-03B-041521	Water	04/15/21 14:25	04/16/21 09:00
50285069005	FD-01-041521	Water	04/15/21 12:00	04/16/21 09:00
50285069006	GAMW-03B-041521 MS	Water	04/15/21 14:25	04/16/21 09:00
50285069007	GAMW-03B-041521 MSD	Water	04/15/21 14:25	04/16/21 09:00
50285156001	GAMW-07B-041621	Water	04/16/21 09:10	04/17/21 09:00
50285156002	GAMW-07-041621	Water	04/16/21 10:35	04/17/21 09:00
50285156003	GAMW-15-041621	Water	04/16/21 13:40	04/17/21 09:00
50285156004	GAMW-52-041621	Water	04/16/21 11:25	04/17/21 09:00
50285156005	GAMW-52-041621 MS	Water	04/16/21 11:25	04/17/21 09:00
50285156006	GAMW-52-041621 MSD	Water	04/16/21 11:25	04/17/21 09:00
50285156007	GAMW-52B-041621	Water	04/16/21 10:25	04/17/21 09:00
50285156008	GAMW-53-041621	Water	04/16/21 13:35	04/17/21 09:00
50285156009	GAMW-53B-041621	Water	04/16/21 15:15	04/17/21 09:00
50285156010	FB-01-041621	Water	04/16/21 11:43	04/17/21 09:00
50285156011	FD-02-041621	Water	04/16/21 12:00	04/17/21 09:00
50285156012	GAMW-15B-041621	Water	04/16/21 14:35	04/17/21 09:00
50285424001	GAMW-56-042021	Water	04/20/21 13:25	04/21/21 08:50
50285424002	GAMW-55R-042021	Water	04/20/21 11:40	04/21/21 08:50
50285424003	GAMW-55B-042021	Water	04/20/21 10:45	04/21/21 08:50
50285424004	GAMW-09-042021	Water	04/20/21 10:40	04/21/21 08:50
50285424005	GAMW-09B-042021	Water	04/20/21 12:30	04/21/21 08:50
50285424006	GAMW-18-042021	Water	04/20/21 13:35	04/21/21 08:50
50285424007	FB-03-042021	Water	04/20/21 13:17	04/21/21 08:50
50285424008	FD-04-042021	Water	04/20/21 12:00	04/21/21 08:50
50285534001	GAMW-56B-042121	Water	04/21/21 12:40	04/22/21 08:45
50285534002	GAMW-51-042121	Water	04/21/21 15:15	04/22/21 08:45
50285534003	GAMW-51B-042121	Water	04/21/21 12:40	04/22/21 08:45
50285534004	GAMW-60-042121	Water	04/21/21 10:45	04/22/21 08:45
50285534005	GAMW-60B-042121	Water	04/21/21 09:35	04/22/21 08:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50285534006	GAMW-18B-042121	Water	04/21/21 10:00	04/22/21 08:45
50285534007	FB-04-042121	Water	04/21/21 11:03	04/22/21 08:45
50285534008	GAMW-59-042121	Water	04/21/21 15:30	04/22/21 08:45
50285654001	GAMW-16R-042221	Water	04/22/21 09:45	04/23/21 08:45
50285654002	GAMW-16BR-042221	Water	04/22/21 12:20	04/23/21 08:45
50285654003	GAMW-59B-042221	Water	04/22/21 10:05	04/23/21 08:45
50285654004	GAMW-08-042221	Water	04/22/21 13:25	04/23/21 08:45
50285654005	GAMW-08B-042221	Water	04/22/21 14:55	04/23/21 08:45
50285654006	GAMW-68-042221	Water	04/22/21 12:15	04/23/21 08:45
50285654007	GAMW-68B-042221	Water	04/22/21 13:55	04/23/21 08:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50284875001	GAMW-01-041421	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
50284875002	GAMW-01B-041421	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
50284875003	GAMW-03-041421	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
50284875004	GAMW-17-041421	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
50284875005	GAMW-17B-041421	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
50285069001	GAMW-12-041521	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50285069002	GAMW-12B-041521	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50285069003	GAMW-04-041521	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50285069004	GAMW-03B-041521	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50285069005	FD-01-041521	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50285069006	GAMW-03B-041521 MS	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50285069007	GAMW-03B-041521 MSD	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50285156001	GAMW-07B-041621	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50285156002	GAMW-07-041621	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50285156003	GAMW-15-041621	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50285156004	GAMW-52-041621	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50285156005	GAMW-52-041621 MS	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50285156006	GAMW-52-041621 MSD	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50285156007	GAMW-52B-041621	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50285156008	GAMW-53-041621	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50285156009	GAMW-53B-041621	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50285156010	FB-01-041621	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50285156011	FD-02-041621	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50285156012	GAMW-15B-041621	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50285424001	GAMW-56-042021	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50285424002	GAMW-55R-042021	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50285424003	GAMW-55B-042021	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50285424004	GAMW-09-042021	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50285424005	GAMW-09B-042021	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50285424006	GAMW-18-042021	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50285424007	FB-03-042021	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50285424008	FD-04-042021	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50285534001	GAMW-56B-042121	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50285534002	GAMW-51-042121	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50285534003	GAMW-51B-042121	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50285534004	GAMW-60-042121	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50285534005	GAMW-60B-042121	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50285534006	GAMW-18B-042121	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50285534007	FB-04-042121	EPA 903.1	MK1	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50285534008	GAMW-59-042121	EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50285654001	GAMW-16R-042221	Total Radium Calculation	RMK	1	PASI-PA
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50285654002	GAMW-16BR-042221	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	MK1	1	PASI-PA
50285654003	GAMW-59B-042221	EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50285654004	GAMW-08-042221	Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50285654005	GAMW-08B-042221	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	MK1	1	PASI-PA
50285654006	GAMW-68-042221	EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50285654007	GAMW-68B-042221	Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50284875001	GAMW-01-041421					
EPA 903.1	Radium-226	0.264 ± 0.367 (0.612) C:NA T:88%	pCi/L		05/04/21 14:17	
EPA 904.0	Radium-228	0.378 ± 0.379 (0.778) C:71% T:76%	pCi/L		05/06/21 16:04	
Total Radium Calculation	Total Radium	0.642 ± 0.746 (1.39)	pCi/L		05/07/21 10:45	
50284875002	GAMW-01B-041421					
EPA 903.1	Radium-226	1.00 ± 0.667 (0.858) C:NA T:94%	pCi/L		05/04/21 14:17	
EPA 904.0	Radium-228	1.02 ± 0.475 (0.760) C:70% T:74%	pCi/L		05/06/21 16:04	
Total Radium Calculation	Total Radium	2.02 ± 1.14 (1.62)	pCi/L		05/07/21 10:45	
50284875003	GAMW-03-041421					
EPA 903.1	Radium-226	0.158 ± 0.659 (1.26) C:NA T:84%	pCi/L		05/04/21 14:17	
EPA 904.0	Radium-228	-0.0969 ± 0.397 (0.950) C:68% T:77%	pCi/L		05/06/21 16:04	
Total Radium Calculation	Total Radium	0.158 ± 1.06 (2.21)	pCi/L		05/07/21 10:45	
50284875004	GAMW-17-041421					
EPA 903.1	Radium-226	0.415 ± 0.534 (0.890) C:NA T:91%	pCi/L		05/04/21 14:17	
EPA 904.0	Radium-228	0.638 ± 0.460 (0.891) C:69% T:79%	pCi/L		05/06/21 16:04	
Total Radium Calculation	Total Radium	1.05 ± 0.994 (1.78)	pCi/L		05/07/21 10:45	

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SUMMARY OF DETECTION

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50284875005	GAMW-17B-041421					
EPA 903.1	Radium-226	0.663 ± 0.619 (0.956) C:NA T:94%	pCi/L		05/04/21 14:17	
EPA 904.0	Radium-228	0.806 ± 0.522 (0.984) C:71% T:68%	pCi/L		05/06/21 16:04	
Total Radium Calculation	Total Radium	1.47 ± 1.14 (1.94)	pCi/L		05/07/21 10:45	
50285069001	GAMW-12-041521					
EPA 903.1	Radium-226	0.390 ± 0.331 (0.410) C:NA T:97%	pCi/L		05/11/21 14:50	
EPA 904.0	Radium-228	0.708 ± 0.499 (0.964) C:64% T:92%	pCi/L		05/10/21 17:38	
Total Radium Calculation	Total Radium	1.10 ± 0.830 (1.37)	pCi/L		05/11/21 16:07	
50285069002	GAMW-12B-041521					
EPA 903.1	Radium-226	1.01 ± 0.644 (0.809) C:NA T:87%	pCi/L		05/11/21 15:19	
EPA 904.0	Radium-228	1.41 ± 0.643 (1.06) C:65% T:80%	pCi/L		05/10/21 17:38	
Total Radium Calculation	Total Radium	2.42 ± 1.29 (1.87)	pCi/L		05/11/21 16:07	
50285069003	GAMW-04-041521					
EPA 903.1	Radium-226	0.196 ± 0.558 (1.03) C:NA T:87%	pCi/L		05/11/21 15:19	
EPA 904.0	Radium-228	0.463 ± 0.488 (1.01) C:65% T:83%	pCi/L		05/10/21 17:35	
Total Radium Calculation	Total Radium	0.659 ± 1.05 (2.04)	pCi/L		05/11/21 16:07	

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SUMMARY OF DETECTION

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285069004	GAMW-03B-041521					
EPA 903.1	Radium-226	0.287 ± 0.298 (0.444) C:NA T:85%	pCi/L		05/11/21 15:19	
EPA 904.0	Radium-228	0.789 ± 0.549 (1.06) C:70% T:80%	pCi/L		05/10/21 17:35	
Total Radium Calculation	Total Radium	1.08 ± 0.847 (1.50)	pCi/L		05/11/21 16:07	
50285069005	FD-01-041521					
EPA 903.1	Radium-226	0.592 ± 0.440 (0.550) C:NA T:92%	pCi/L		05/11/21 15:19	
EPA 904.0	Radium-228	1.06 ± 0.552 (0.947) C:68% T:78%	pCi/L		05/10/21 17:38	
Total Radium Calculation	Total Radium	1.65 ± 0.992 (1.50)	pCi/L		05/11/21 16:07	
50285069006	GAMW-03B-041521 MS					
EPA 903.1	Radium-226	97.24 %REC ± NA (NA) C:NA T:NA%	pCi/L		05/11/21 15:19	
EPA 904.0	Radium-228	110.06% REC ± NA (NA) C:NA T:NA	pCi/L		05/10/21 17:36	
50285069007	GAMW-03B-041521 MSD					
EPA 903.1	Radium-226	93.70 %REC 3.71 RPD ± NA (NA) C:NA T:NA%	pCi/L		05/11/21 15:19	
EPA 904.0	Radium-228	123.25% REC 11.31 RPD ± NA (NA) C:NA T:NA	pCi/L		05/10/21 17:36	
50285156001	GAMW-07B-041621					
EPA 903.1	Radium-226	0.841 ± 0.561 (0.721) C:NA T:88%	pCi/L		05/11/21 13:28	

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SUMMARY OF DETECTION

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285156001	GAMW-07B-041621					
EPA 904.0	Radium-228	1.32 ± 0.534 (0.840) C:66% T:86%	pCi/L		05/10/21 15:58	
Total Radium Calculation	Total Radium	2.16 ± 1.10 (1.56)	pCi/L		05/11/21 15:49	
50285156002	GAMW-07-041621					
EPA 903.1	Radium-226	0.255 ± 0.355 (0.593) C:NA T:84%	pCi/L		05/11/21 13:28	
EPA 904.0	Radium-228	1.03 ± 0.531 (0.950) C:65% T:85%	pCi/L		05/10/21 15:53	
Total Radium Calculation	Total Radium	1.29 ± 0.886 (1.54)	pCi/L		05/11/21 15:49	
50285156003	GAMW-15-041621					
EPA 903.1	Radium-226	0.000 ± 0.338 (0.733) C:NA T:84%	pCi/L		05/11/21 13:43	
EPA 904.0	Radium-228	-0.225 ± 0.501 (1.18) C:62% T:87%	pCi/L		05/10/21 15:54	
Total Radium Calculation	Total Radium	0.000 ± 0.839 (1.91)	pCi/L		05/11/21 15:49	
50285156004	GAMW-52-041621					
EPA 903.1	Radium-226	-0.0504 ± 0.230 (0.543) C:NA T:87%	pCi/L		05/11/21 13:28	
EPA 904.0	Radium-228	0.230 ± 0.371 (0.805) C:68% T:88%	pCi/L		05/10/21 15:53	
Total Radium Calculation	Total Radium	0.230 ± 0.601 (1.35)	pCi/L		05/11/21 15:49	
50285156005	GAMW-52-041621 MS					
EPA 903.1	Radium-226	122.37 %REC ± NA (NA) C:NA T:NA	pCi/L		05/11/21 13:28	

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SUMMARY OF DETECTION

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285156005	GAMW-52-041621 MS					
EPA 904.0	Radium-228	91.86 %REC ± NA (NA) C:NA T:NA	pCi/L		05/10/21 15:54	
50285156006	GAMW-52-041621 MSD					
EPA 903.1	Radium-226	117.62 %REC 3.96 RPD ± NA (NA) C:NA T:NA	pCi/L		05/11/21 13:28	
EPA 904.0	Radium-228	118.24 %REC 25.11 RPD ± NA (NA) C:NA T:NA	pCi/L		05/10/21 15:54	
50285156007	GAMW-52B-041621					
EPA 903.1	Radium-226	0.485 ± 0.585 (0.962) C:NA T:87%	pCi/L		05/11/21 13:28	
EPA 904.0	Radium-228	0.566 ± 0.416 (0.810) C:66% T:86%	pCi/L		05/10/21 15:58	
Total Radium Calculation	Total Radium	1.05 ± 1.00 (1.77)	pCi/L		05/11/21 15:49	
50285156008	GAMW-53-041621					
EPA 903.1	Radium-226	-0.109 ± 0.338 (0.769) C:NA T:91%	pCi/L		05/11/21 13:43	
EPA 904.0	Radium-228	-0.387 ± 0.408 (0.996) C:69% T:92%	pCi/L		05/10/21 15:54	
Total Radium Calculation	Total Radium	0.000 ± 0.746 (1.77)	pCi/L		05/11/21 15:49	
50285156009	GAMW-53B-041621					
EPA 903.1	Radium-226	0.335 ± 0.381 (0.600) C:NA T:95%	pCi/L		05/11/21 13:43	
EPA 904.0	Radium-228	0.873 ± 0.425 (0.707) C:63% T:88%	pCi/L		05/10/21 15:54	

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SUMMARY OF DETECTION

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285156009	GAMW-53B-041621					
Total Radium Calculation	Total Radium	1.21 ± 0.806 (1.31)	pCi/L		05/11/21 15:49	
50285156010	FB-01-041621					
EPA 903.1	Radium-226	0.0541 ± 0.411 (0.813)	pCi/L		05/11/21 13:28	
EPA 904.0	Radium-228	C:NA T:91% 0.607 ± 0.579 (1.20)	pCi/L		05/10/21 15:54	
Total Radium Calculation	Total Radium	C:67% T:83% 0.661 ± 0.990 (2.01)	pCi/L		05/11/21 15:49	
50285156011	FD-02-041621					
EPA 903.1	Radium-226	1.24 ± 0.604 (0.608)	pCi/L		05/11/21 13:43	
EPA 904.0	Radium-228	C:NA T:95% 1.72 ± 0.642 (1.01)	pCi/L		05/10/21 15:54	
Total Radium Calculation	Total Radium	C:68% T:88% 2.96 ± 1.25 (1.62)	pCi/L		05/11/21 15:49	
50285156012	GAMW-15B-041621					
EPA 903.1	Radium-226	0.643 ± 0.505 (0.702)	pCi/L		05/11/21 13:43	
EPA 904.0	Radium-228	C:NA T:88% 1.51 ± 0.489 (0.624)	pCi/L		05/10/21 15:54	
Total Radium Calculation	Total Radium	C:71% T:90% 2.15 ± 0.994 (1.33)	pCi/L		05/11/21 15:49	
50285424001	GAMW-56-042021					
EPA 903.1	Radium-226	0.000 ± 0.306 (0.622)	pCi/L		05/12/21 17:13	
EPA 904.0	Radium-228	C:NA T:82% 0.222 ± 0.482 (1.07)	pCi/L		05/11/21 19:10	
		C:67% T:97%				

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SUMMARY OF DETECTION

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285424001	GAMW-56-042021					
Total Radium Calculation	Total Radium	0.222 ± 0.788 (1.69)	pCi/L		05/13/21 07:55	
50285424002	GAMW-55R-042021					
EPA 903.1	Radium-226	0.139 ± 0.577 (1.10) C:NA	pCi/L		05/12/21 17:13	
EPA 904.0	Radium-228	T:89% 1.33 ± 0.645 (1.11) C:73% T:88%	pCi/L		05/11/21 19:09	
Total Radium Calculation	Total Radium	1.47 ± 1.22 (2.21)	pCi/L		05/13/21 07:55	
50285424003	GAMW-55B-042021					
EPA 903.1	Radium-226	0.736 ± 0.634 (0.943) C:NA T:86%	pCi/L		05/12/21 17:13	
EPA 904.0	Radium-228	0.752 ± 0.561 (1.09) C:74% T:84%	pCi/L		05/11/21 19:11	
Total Radium Calculation	Total Radium	1.49 ± 1.20 (2.03)	pCi/L		05/13/21 07:55	
50285424004	GAMW-09-042021					
EPA 903.1	Radium-226	0.124 ± 0.422 (0.814) C:NA T:94%	pCi/L		05/12/21 17:13	
EPA 904.0	Radium-228	0.525 ± 0.647 (1.37) C:65% T:76%	pCi/L		05/11/21 19:09	
Total Radium Calculation	Total Radium	0.649 ± 1.07 (2.18)	pCi/L		05/13/21 07:55	
50285424005	GAMW-09B-042021					
EPA 903.1	Radium-226	0.784 ± 0.643 (0.956) C:NA T:90%	pCi/L		05/12/21 17:13	
EPA 904.0	Radium-228	0.886 ± 0.664 (1.29) C:68% T:69%	pCi/L		05/11/21 19:10	
Total Radium Calculation	Total Radium	1.67 ± 1.31 (2.25)	pCi/L		05/13/21 07:55	

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SUMMARY OF DETECTION

Project: RMSGS Assessment April 21

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Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285424006	GAMW-18-042021					
EPA 903.1	Radium-226	-0.249 ± 0.423 (0.986) C:NA T:91%	pCi/L		05/12/21 17:27	
EPA 904.0	Radium-228	0.538 ± 0.523 (1.07) C:71% T:88%	pCi/L		05/11/21 19:11	
Total Radium Calculation	Total Radium	0.538 ± 0.946 (2.06)	pCi/L		05/13/21 07:55	
50285424007	FB-03-042021					
EPA 903.1	Radium-226	0.0780 ± 0.356 (0.725) C:NA T:86%	pCi/L		05/12/21 17:13	
EPA 904.0	Radium-228	0.437 ± 0.447 (0.918) C:70% T:93%	pCi/L		05/11/21 19:10	
Total Radium Calculation	Total Radium	0.515 ± 0.803 (1.64)	pCi/L		05/13/21 07:55	
50285424008	FD-04-042021					
EPA 903.1	Radium-226	-0.0604 ± 0.427 (0.907) C:NA T:95%	pCi/L		05/12/21 17:13	
EPA 904.0	Radium-228	0.924 ± 0.723 (1.44) C:71% T:73%	pCi/L		05/11/21 19:09	
Total Radium Calculation	Total Radium	0.924 ± 1.15 (2.35)	pCi/L		05/13/21 07:55	
50285534001	GAMW-56B-042121					
EPA 903.1	Radium-226	1.38 ± 0.880 (1.11) C:NA T:79%	pCi/L		05/17/21 17:07	
EPA 904.0	Radium-228	1.59 ± 0.663 (1.08) C:71% T:81%	pCi/L		05/17/21 19:32	
Total Radium Calculation	Total Radium	2.97 ± 1.54 (2.19)	pCi/L		05/18/21 15:54	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285534002	GAMW-51-042121					
EPA 903.1	Radium-226	-0.212 ± 0.500 (1.12) C:NA T:87%	pCi/L		05/17/21 17:07	
EPA 904.0	Radium-228	1.23 ± 0.684 (1.23) C:72% T:69%	pCi/L		05/17/21 19:33	
Total Radium Calculation	Total Radium	1.23 ± 1.18 (2.35)	pCi/L		05/18/21 15:54	
50285534003	GAMW-51B-042121					
EPA 903.1	Radium-226	0.931 ± 0.617 (0.720) C:NA T:82%	pCi/L		05/17/21 17:07	
EPA 904.0	Radium-228	2.64 ± 0.818 (1.10) C:66% T:89%	pCi/L		05/17/21 19:33	
Total Radium Calculation	Total Radium	3.57 ± 1.44 (1.82)	pCi/L		05/18/21 15:54	
50285534004	GAMW-60-042121					
EPA 903.1	Radium-226	-0.0671 ± 0.348 (0.806) C:NA T:94%	pCi/L		05/17/21 17:07	
EPA 904.0	Radium-228	1.29 ± 0.579 (0.962) C:72% T:83%	pCi/L		05/17/21 19:32	
Total Radium Calculation	Total Radium	1.29 ± 0.927 (1.77)	pCi/L		05/18/21 15:54	
50285534005	GAMW-60B-042121					
EPA 903.1	Radium-226	0.822 ± 0.577 (0.737) C:NA T:88%	pCi/L		05/17/21 17:07	
EPA 904.0	Radium-228	2.20 ± 0.730 (1.06) C:74% T:88%	pCi/L		05/17/21 19:31	
Total Radium Calculation	Total Radium	3.02 ± 1.31 (1.80)	pCi/L		05/18/21 15:54	

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SUMMARY OF DETECTION

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285534006	GAMW-18B-042121					
EPA 903.1	Radium-226	0.166 ± 0.565 (1.09) C:NA T:80%	pCi/L		05/17/21 17:07	
EPA 904.0	Radium-228	1.97 ± 0.679 (0.993) C:74% T:84%	pCi/L		05/17/21 19:32	
Total Radium Calculation	Total Radium	2.14 ± 1.24 (2.08)	pCi/L		05/18/21 15:54	
50285534007	FB-04-042121					
EPA 903.1	Radium-226	0.133 ± 0.450 (0.868) C:NA T:89%	pCi/L		05/17/21 17:07	
EPA 904.0	Radium-228	0.821 ± 0.515 (0.949) C:71% T:84%	pCi/L		05/17/21 19:32	
Total Radium Calculation	Total Radium	0.954 ± 0.965 (1.82)	pCi/L		05/18/21 15:54	
50285534008	GAMW-59-042121					
EPA 903.1	Radium-226	0.276 ± 0.469 (0.827) C:NA T:86%	pCi/L		05/18/21 11:20	
EPA 904.0	Radium-228	0.889 ± 0.515 (0.922) C:74% T:77%	pCi/L		05/17/21 19:33	
Total Radium Calculation	Total Radium	1.17 ± 0.984 (1.75)	pCi/L		05/18/21 15:54	
50285654001	GAMW-16R-042221					
EPA 903.1	Radium-226	0.416 ± 0.389 (0.552) C:NA T:92%	pCi/L		05/20/21 12:20	
EPA 904.0	Radium-228	0.552 ± 0.416 (0.821) C:66% T:85%	pCi/L		05/18/21 11:50	
Total Radium Calculation	Total Radium	0.968 ± 0.805 (1.37)	pCi/L		05/21/21 14:15	

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SUMMARY OF DETECTION

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285654002	GAMW-16BR-042221					
EPA 903.1	Radium-226	0.685 ± 0.565 (0.816) C:NA T:88%	pCi/L		05/20/21 12:20	
EPA 904.0	Radium-228	1.37 ± 0.542 (0.872) C:66% T:88%	pCi/L		05/18/21 11:50	
Total Radium Calculation	Total Radium	2.06 ± 1.11 (1.69)	pCi/L		05/21/21 14:15	
50285654003	GAMW-59B-042221					
EPA 903.1	Radium-226	0.360 ± 0.443 (0.721) C:NA T:85%	pCi/L		05/20/21 12:20	
EPA 904.0	Radium-228	1.40 ± 0.609 (1.02) C:60% T:77%	pCi/L		05/18/21 11:50	
Total Radium Calculation	Total Radium	1.76 ± 1.05 (1.74)	pCi/L		05/21/21 14:15	
50285654004	GAMW-08-042221					
EPA 903.1	Radium-226	0.415 ± 0.421 (0.638) C:NA T:88%	pCi/L		05/20/21 12:20	
EPA 904.0	Radium-228	1.15 ± 0.537 (0.924) C:66% T:75%	pCi/L		05/18/21 11:50	
Total Radium Calculation	Total Radium	1.57 ± 0.958 (1.56)	pCi/L		05/21/21 14:15	
50285654005	GAMW-08B-042221					
EPA 903.1	Radium-226	0.613 ± 0.487 (0.633) C:NA T:80%	pCi/L		05/20/21 12:35	
EPA 904.0	Radium-228	1.92 ± 0.672 (0.953) C:60% T:75%	pCi/L		05/18/21 11:50	
Total Radium Calculation	Total Radium	2.53 ± 1.16 (1.59)	pCi/L		05/21/21 14:15	

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SUMMARY OF DETECTION

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285654006	GAMW-68-042221					
EPA 903.1	Radium-226	-0.144 ± 0.399 (0.943) C:NA T:80%	pCi/L		05/20/21 12:20	
EPA 904.0	Radium-228	0.285 ± 0.405 (0.870) C:61% T:80%	pCi/L		05/18/21 11:50	
Total Radium Calculation	Total Radium	0.285 ± 0.804 (1.81)	pCi/L		05/21/21 14:15	
50285654007	GAMW-68B-042221					
EPA 903.1	Radium-226	-0.201 ± 0.395 (0.947) C:NA T:80%	pCi/L		05/20/21 12:20	
EPA 904.0	Radium-228	1.35 ± 0.565 (0.917) C:58% T:82%	pCi/L		05/18/21 11:50	
Total Radium Calculation	Total Radium	1.35 ± 0.960 (1.86)	pCi/L		05/21/21 14:15	

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PROJECT NARRATIVE

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Method: EPA 903.1

Description: 903.1 Radium 226

Client: NiSource_Golder

Date: May 21, 2021

General Information:

47 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. 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: RMSGS Assessment April 21

Pace Project No.: 50284875

Method: EPA 904.0

Description: 904.0 Radium 228

Client: NiSource_Golder

Date: May 21, 2021

General Information:

47 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. 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: RMSGS Assessment April 21

Pace Project No.: 50284875

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: NiSource_Golder

Date: May 21, 2021

General Information:

43 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. 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:

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 - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-01-041421		Lab ID: 50284875001	Collected: 04/14/21 10:50	Received: 04/15/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/04/21 14:17	13982-63-3	
	EPA 903.1	0.264 ± 0.367 (0.612) C:NA T:88%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/06/21 16:04	15262-20-1	
	EPA 904.0	0.378 ± 0.379 (0.778) C:71% T:76%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/07/21 10:45	7440-14-4	
	Total Radium Calculation	0.642 ± 0.746 (1.39)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-01B-041421		Lab ID: 50284875002	Collected: 04/14/21 12:10	Received: 04/15/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/04/21 14:17	13982-63-3	
	EPA 903.1	1.00 ± 0.667 (0.858) C:NA T:94%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/06/21 16:04	15262-20-1	
	EPA 904.0	1.02 ± 0.475 (0.760) C:70% T:74%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/07/21 10:45	7440-14-4	
	Total Radium Calculation	2.02 ± 1.14 (1.62)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-03-041421		Lab ID: 50284875003	Collected: 04/14/21 15:15	Received: 04/15/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/04/21 14:17	13982-63-3	
	EPA 903.1	0.158 ± 0.659 (1.26) C:NA T:84%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/06/21 16:04	15262-20-1	
	EPA 904.0	-0.0969 ± 0.397 (0.950) C:68% T:77%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/07/21 10:45	7440-14-4	
	Total Radium Calculation	0.158 ± 1.06 (2.21)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-17-041421		Lab ID: 50284875004	Collected: 04/14/21 15:08	Received: 04/15/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/04/21 14:17	13982-63-3	
	EPA 903.1	0.415 ± 0.534 (0.890) C:NA T:91%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/06/21 16:04	15262-20-1	
	EPA 904.0	0.638 ± 0.460 (0.891) C:69% T:79%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/07/21 10:45	7440-14-4	
	Total Radium Calculation	1.05 ± 0.994 (1.78)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-17B-041421		Lab ID: 50284875005	Collected: 04/14/21 14:15	Received: 04/15/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/04/21 14:17	13982-63-3	
	EPA 903.1	0.663 ± 0.619 (0.956) C:NA T:94%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/06/21 16:04	15262-20-1	
	EPA 904.0	0.806 ± 0.522 (0.984) C:71% T:68%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/07/21 10:45	7440-14-4	
	Total Radium Calculation	1.47 ± 1.14 (1.94)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-12-041521		Lab ID: 50285069001	Collected: 04/15/21 10:55	Received: 04/16/21 09:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/11/21 14:50	13982-63-3	
	EPA 903.1	0.390 ± 0.331 (0.410) C:NA T:97%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/10/21 17:38	15262-20-1	
	EPA 904.0	0.708 ± 0.499 (0.964) C:64% T:92%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/11/21 16:07	7440-14-4	
	Total Radium Calculation	1.10 ± 0.830 (1.37)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-12B-041521		Lab ID: 50285069002	Collected: 04/15/21 13:00	Received: 04/16/21 09:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/11/21 15:19	13982-63-3	
	EPA 903.1	1.01 ± 0.644 (0.809) C:NA T:87%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/10/21 17:38	15262-20-1	
	EPA 904.0	1.41 ± 0.643 (1.06) C:65% T:80%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/11/21 16:07	7440-14-4	
	Total Radium Calculation	2.42 ± 1.29 (1.87)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-04-041521		Lab ID: 50285069003	Collected: 04/15/21 15:35	Received: 04/16/21 09:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/11/21 15:19	13982-63-3	
	EPA 903.1	0.196 ± 0.558 (1.03) C:NA T:87%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/10/21 17:35	15262-20-1	
	EPA 904.0	0.463 ± 0.488 (1.01) C:65% T:83%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/11/21 16:07	7440-14-4	
	Total Radium Calculation	0.659 ± 1.05 (2.04)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-03B-041521		Lab ID: 50285069004	Collected: 04/15/21 14:25	Received: 04/16/21 09:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/11/21 15:19	13982-63-3	
	EPA 903.1	0.287 ± 0.298 (0.444) C:NA T:85%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/10/21 17:35	15262-20-1	
	EPA 904.0	0.789 ± 0.549 (1.06) C:70% T:80%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/11/21 16:07	7440-14-4	
	Total Radium Calculation	1.08 ± 0.847 (1.50)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: FD-01-041521		Lab ID: 50285069005	Collected: 04/15/21 12:00	Received: 04/16/21 09:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/11/21 15:19	13982-63-3	
	EPA 903.1	0.592 ± 0.440 (0.550) C:NA T:92%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/10/21 17:38	15262-20-1	
	EPA 904.0	1.06 ± 0.552 (0.947) C:68% T:78%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/11/21 16:07	7440-14-4	
	Total Radium Calculation	1.65 ± 0.992 (1.50)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-03B-041521 MS **Lab ID:** 50285069006 Collected: 04/15/21 14:25 Received: 04/16/21 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	97.24 %REC ± NA (NA) C:NA T:NA%	pCi/L	05/11/21 15:19	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	110.06% REC ± NA (NA) C:NA T:NA	pCi/L	05/10/21 17:36	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-03B-041521 MSD **Lab ID:** 50285069007 Collected: 04/15/21 14:25 Received: 04/16/21 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	93.70 %REC 3.71 RPD ± NA (NA) C:NA T:NA%	pCi/L	05/11/21 15:19	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	123.25% REC 11.31 RPD ± NA (NA) C:NA T:NA	pCi/L	05/10/21 17:36	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-07B-041621		Lab ID: 50285156001	Collected: 04/16/21 09:10	Received: 04/17/21 09:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	0.841 ± 0.561 (0.721) C:NA T:88%		pCi/L	05/11/21 13:28	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	1.32 ± 0.534 (0.840) C:66% T:86%		pCi/L	05/10/21 15:58	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	2.16 ± 1.10 (1.56)		pCi/L	05/11/21 15:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-07-041621		Lab ID: 50285156002	Collected: 04/16/21 10:35	Received: 04/17/21 09:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/11/21 13:28	13982-63-3	
	EPA 903.1	0.255 ± 0.355 (0.593) C:NA T:84%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/10/21 15:53	15262-20-1	
	EPA 904.0	1.03 ± 0.531 (0.950) C:65% T:85%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/11/21 15:49	7440-14-4	
	Total Radium Calculation	1.29 ± 0.886 (1.54)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-15-041621		Lab ID: 50285156003	Collected: 04/16/21 13:40	Received: 04/17/21 09:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	0.000 ± 0.338 (0.733) C:NA T:84%		pCi/L	05/11/21 13:43	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	-0.225 ± 0.501 (1.18) C:62% T:87%		pCi/L	05/10/21 15:54	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	0.000 ± 0.839 (1.91)		pCi/L	05/11/21 15:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-52-041621		Lab ID: 50285156004	Collected: 04/16/21 11:25	Received: 04/17/21 09:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	-0.0504 ± 0.230 (0.543) C:NA T:87%		pCi/L	05/11/21 13:28	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	0.230 ± 0.371 (0.805) C:68% T:88%		pCi/L	05/10/21 15:53	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	0.230 ± 0.601 (1.35)		pCi/L	05/11/21 15:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-52-041621 MS		Lab ID: 50285156005	Collected: 04/16/21 11:25	Received: 04/17/21 09:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	122.37 %REC ± NA (NA) C:NA T:NA		pCi/L	05/11/21 13:28	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	91.86 %REC ± NA (NA) C:NA T:NA		pCi/L	05/10/21 15:54	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-52-041621 MSD		Lab ID: 50285156006		Collected: 04/16/21 11:25	Received: 04/17/21 09:00	Matrix: Water	
PWS:		Site ID:		Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	117.62 %REC NA (NA) C:NA T:NA	3.96 RPD ±	pCi/L	05/11/21 13:28	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	118.24 %REC NA (NA) C:NA T:NA	25.11 RPD ±	pCi/L	05/10/21 15:54	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-52B-041621		Lab ID: 50285156007	Collected: 04/16/21 10:25	Received: 04/17/21 09:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/11/21 13:28	13982-63-3	
	EPA 903.1	0.485 ± 0.585 (0.962) C:NA T:87%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/10/21 15:58	15262-20-1	
	EPA 904.0	0.566 ± 0.416 (0.810) C:66% T:86%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/11/21 15:49	7440-14-4	
	Total Radium Calculation	1.05 ± 1.00 (1.77)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-53-041621		Lab ID: 50285156008	Collected: 04/16/21 13:35	Received: 04/17/21 09:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	-0.109 ± 0.338 (0.769) C:NA T:91%		pCi/L	05/11/21 13:43	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	-0.387 ± 0.408 (0.996) C:69% T:92%		pCi/L	05/10/21 15:54	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	0.000 ± 0.746 (1.77)		pCi/L	05/11/21 15:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-53B-041621		Lab ID: 50285156009	Collected: 04/16/21 15:15	Received: 04/17/21 09:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	0.335 ± 0.381 (0.600) C:NA T:95%		pCi/L	05/11/21 13:43	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	0.873 ± 0.425 (0.707) C:63% T:88%		pCi/L	05/10/21 15:54	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	1.21 ± 0.806 (1.31)		pCi/L	05/11/21 15:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: FB-01-041621		Lab ID: 50285156010	Collected: 04/16/21 11:43	Received: 04/17/21 09:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	0.0541 ± 0.411 (0.813) C:NA T:91%		pCi/L	05/11/21 13:28	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	0.607 ± 0.579 (1.20) C:67% T:83%		pCi/L	05/10/21 15:54	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	0.661 ± 0.990 (2.01)		pCi/L	05/11/21 15:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: FD-02-041621		Lab ID: 50285156011	Collected: 04/16/21 12:00	Received: 04/17/21 09:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/11/21 13:43	13982-63-3	
	EPA 903.1	1.24 ± 0.604 (0.608) C:NA T:95%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/10/21 15:54	15262-20-1	
	EPA 904.0	1.72 ± 0.642 (1.01) C:68% T:88%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/11/21 15:49	7440-14-4	
	Total Radium Calculation	2.96 ± 1.25 (1.62)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-15B-041621		Lab ID: 50285156012	Collected: 04/16/21 14:35	Received: 04/17/21 09:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/11/21 13:43	13982-63-3	
	EPA 903.1	0.643 ± 0.505 (0.702) C:NA T:88%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/10/21 15:54	15262-20-1	
	EPA 904.0	1.51 ± 0.489 (0.624) C:71% T:90%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/11/21 15:49	7440-14-4	
	Total Radium Calculation	2.15 ± 0.994 (1.33)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-56-042021		Lab ID: 50285424001	Collected: 04/20/21 13:25	Received: 04/21/21 08:50	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	0.000 ± 0.306 (0.622) C:NA T:82%		pCi/L	05/12/21 17:13	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	0.222 ± 0.482 (1.07) C:67% T:97%		pCi/L	05/11/21 19:10	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	0.222 ± 0.788 (1.69)		pCi/L	05/13/21 07:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-55R-042021		Lab ID: 50285424002	Collected: 04/20/21 11:40	Received: 04/21/21 08:50	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/12/21 17:13	13982-63-3	
	EPA 903.1	0.139 ± 0.577 (1.10) C:NA T:89%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/11/21 19:09	15262-20-1	
	EPA 904.0	1.33 ± 0.645 (1.11) C:73% T:88%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/13/21 07:55	7440-14-4	
	Total Radium Calculation	1.47 ± 1.22 (2.21)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-55B-042021		Lab ID: 50285424003	Collected: 04/20/21 10:45	Received: 04/21/21 08:50	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/12/21 17:13	13982-63-3	
	EPA 903.1	0.736 ± 0.634 (0.943) C:NA T:86%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/11/21 19:11	15262-20-1	
	EPA 904.0	0.752 ± 0.561 (1.09) C:74% T:84%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/13/21 07:55	7440-14-4	
	Total Radium Calculation	1.49 ± 1.20 (2.03)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-09-042021		Lab ID: 50285424004	Collected: 04/20/21 10:40	Received: 04/21/21 08:50	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/12/21 17:13	13982-63-3	
	EPA 903.1	0.124 ± 0.422 (0.814) C:NA T:94%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/11/21 19:09	15262-20-1	
	EPA 904.0	0.525 ± 0.647 (1.37) C:65% T:76%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/13/21 07:55	7440-14-4	
	Total Radium Calculation	0.649 ± 1.07 (2.18)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-09B-042021		Lab ID: 50285424005	Collected: 04/20/21 12:30	Received: 04/21/21 08:50	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/12/21 17:13	13982-63-3	
	EPA 903.1	0.784 ± 0.643 (0.956) C:NA T:90%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/11/21 19:10	15262-20-1	
	EPA 904.0	0.886 ± 0.664 (1.29) C:68% T:69%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/13/21 07:55	7440-14-4	
	Total Radium Calculation	1.67 ± 1.31 (2.25)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-18-042021		Lab ID: 50285424006	Collected: 04/20/21 13:35	Received: 04/21/21 08:50	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	-0.249 ± 0.423 (0.986) C:NA T:91%		pCi/L	05/12/21 17:27	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	0.538 ± 0.523 (1.07) C:71% T:88%		pCi/L	05/11/21 19:11	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	0.538 ± 0.946 (2.06)		pCi/L	05/13/21 07:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: FB-03-042021		Lab ID: 50285424007	Collected: 04/20/21 13:17	Received: 04/21/21 08:50	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	0.0780 ± 0.356 (0.725) C:NA T:86%		pCi/L	05/12/21 17:13	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.437 ± 0.447 (0.918) C:70% T:93%		pCi/L	05/11/21 19:10	15262-20-1	
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	0.515 ± 0.803 (1.64)		pCi/L	05/13/21 07:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: FD-04-042021		Lab ID: 50285424008	Collected: 04/20/21 12:00	Received: 04/21/21 08:50	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	-0.0604 ± 0.427 (0.907) C:NA T:95%		pCi/L	05/12/21 17:13	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	0.924 ± 0.723 (1.44) C:71% T:73%		pCi/L	05/11/21 19:09	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	0.924 ± 1.15 (2.35)		pCi/L	05/13/21 07:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-56B-042121		Lab ID: 50285534001	Collected: 04/21/21 12:40	Received: 04/22/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	1.38 ± 0.880 (1.11) C:NA T:79%		pCi/L	05/17/21 17:07	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	1.59 ± 0.663 (1.08) C:71% T:81%		pCi/L	05/17/21 19:32	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	2.97 ± 1.54 (2.19)		pCi/L	05/18/21 15:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-51-042121		Lab ID: 50285534002	Collected: 04/21/21 15:15	Received: 04/22/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	-0.212 ± 0.500 (1.12) C:NA T:87%		pCi/L	05/17/21 17:07	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	1.23 ± 0.684 (1.23) C:72% T:69%		pCi/L	05/17/21 19:33	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	1.23 ± 1.18 (2.35)		pCi/L	05/18/21 15:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-51B-042121		Lab ID: 50285534003	Collected: 04/21/21 12:40	Received: 04/22/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	0.931 ± 0.617 (0.720) C:NA T:82%		pCi/L	05/17/21 17:07	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	2.64 ± 0.818 (1.10) C:66% T:89%		pCi/L	05/17/21 19:33	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	3.57 ± 1.44 (1.82)		pCi/L	05/18/21 15:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-60-042121		Lab ID: 50285534004	Collected: 04/21/21 10:45	Received: 04/22/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	-0.0671 ± 0.348 (0.806) C:NA T:94%		pCi/L	05/17/21 17:07	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	1.29 ± 0.579 (0.962) C:72% T:83%		pCi/L	05/17/21 19:32	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	1.29 ± 0.927 (1.77)		pCi/L	05/18/21 15:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-60B-042121		Lab ID: 50285534005	Collected: 04/21/21 09:35	Received: 04/22/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	0.822 ± 0.577 (0.737) C:NA T:88%		pCi/L	05/17/21 17:07	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	2.20 ± 0.730 (1.06) C:74% T:88%		pCi/L	05/17/21 19:31	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	3.02 ± 1.31 (1.80)		pCi/L	05/18/21 15:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-18B-042121		Lab ID: 50285534006	Collected: 04/21/21 10:00	Received: 04/22/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	0.166 ± 0.565 (1.09) C:NA T:80%		pCi/L	05/17/21 17:07	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	1.97 ± 0.679 (0.993) C:74% T:84%		pCi/L	05/17/21 19:32	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	2.14 ± 1.24 (2.08)		pCi/L	05/18/21 15:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: FB-04-042121		Lab ID: 50285534007	Collected: 04/21/21 11:03	Received: 04/22/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/17/21 17:07	13982-63-3	
	EPA 903.1	0.133 ± 0.450 (0.868) C:NA T:89%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/17/21 19:32	15262-20-1	
	EPA 904.0	0.821 ± 0.515 (0.949) C:71% T:84%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/18/21 15:54	7440-14-4	
	Total Radium Calculation	0.954 ± 0.965 (1.82)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-59-042121		Lab ID: 50285534008	Collected: 04/21/21 15:30	Received: 04/22/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/18/21 11:20	13982-63-3	
	EPA 903.1	0.276 ± 0.469 (0.827) C:NA T:86%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/17/21 19:33	15262-20-1	
	EPA 904.0	0.889 ± 0.515 (0.922) C:74% T:77%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/18/21 15:54	7440-14-4	
	Total Radium Calculation	1.17 ± 0.984 (1.75)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-16R-042221		Lab ID: 50285654001	Collected: 04/22/21 09:45	Received: 04/23/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/20/21 12:20	13982-63-3	
	EPA 903.1	0.416 ± 0.389 (0.552) C:NA T:92%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/18/21 11:50	15262-20-1	
	EPA 904.0	0.552 ± 0.416 (0.821) C:66% T:85%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/21/21 14:15	7440-14-4	
	Total Radium Calculation	0.968 ± 0.805 (1.37)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-16BR-042221		Lab ID: 50285654002	Collected: 04/22/21 12:20	Received: 04/23/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	0.685 ± 0.565 (0.816) C:NA T:88%		pCi/L	05/20/21 12:20	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	1.37 ± 0.542 (0.872) C:66% T:88%		pCi/L	05/18/21 11:50	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	2.06 ± 1.11 (1.69)		pCi/L	05/21/21 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-59B-042221		Lab ID: 50285654003	Collected: 04/22/21 10:05	Received: 04/23/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/20/21 12:20	13982-63-3	
	EPA 903.1	0.360 ± 0.443 (0.721) C:NA T:85%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/18/21 11:50	15262-20-1	
	EPA 904.0	1.40 ± 0.609 (1.02) C:60% T:77%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/21/21 14:15	7440-14-4	
	Total Radium Calculation	1.76 ± 1.05 (1.74)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-08-042221		Lab ID: 50285654004	Collected: 04/22/21 13:25	Received: 04/23/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	0.415 ± 0.421 (0.638) C:NA T:88%		pCi/L	05/20/21 12:20	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	1.15 ± 0.537 (0.924) C:66% T:75%		pCi/L	05/18/21 11:50	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	1.57 ± 0.958 (1.56)		pCi/L	05/21/21 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-08B-042221		Lab ID: 50285654005	Collected: 04/22/21 14:55	Received: 04/23/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/20/21 12:35	13982-63-3	
	EPA 903.1	0.613 ± 0.487 (0.633) C:NA T:80%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/18/21 11:50	15262-20-1	
	EPA 904.0	1.92 ± 0.672 (0.953) C:60% T:75%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/21/21 14:15	7440-14-4	
	Total Radium Calculation	2.53 ± 1.16 (1.59)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-68-042221		Lab ID: 50285654006	Collected: 04/22/21 12:15	Received: 04/23/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	-0.144 ± 0.399 (0.943) C:NA T:80%		pCi/L	05/20/21 12:20	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	0.285 ± 0.405 (0.870) C:61% T:80%		pCi/L	05/18/21 11:50	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	0.285 ± 0.804 (1.81)		pCi/L	05/21/21 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Sample: GAMW-68B-042221		Lab ID: 50285654007	Collected: 04/22/21 13:55	Received: 04/23/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	-0.201 ± 0.395 (0.947) C:NA T:80%		pCi/L	05/20/21 12:20	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	1.35 ± 0.565 (0.917) C:58% T:82%		pCi/L	05/18/21 11:50	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	1.35 ± 0.960 (1.86)		pCi/L	05/21/21 14:15	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

QC Batch:	446149	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	50285654001, 50285654002, 50285654003, 50285654004, 50285654005, 50285654006, 50285654007		

METHOD BLANK:	2153232	Matrix:	Water
Associated Lab Samples:	50285654001, 50285654002, 50285654003, 50285654004, 50285654005, 50285654006, 50285654007		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.712 ± 0.401 (0.733) C:69% T:88%	pCi/L	05/18/21 11:52	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

QC Batch:	446102	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	50285534001, 50285534002, 50285534003, 50285534004, 50285534005, 50285534006, 50285534007, 50285534008		

METHOD BLANK:	2153138	Matrix:	Water

Associated Lab Samples: 50285534001, 50285534002, 50285534003, 50285534004, 50285534005, 50285534006, 50285534007, 50285534008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.287 (0.643) C:NA T:84%	pCi/L	05/17/21 17:07	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

QC Batch:	443899	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 50284875001, 50284875002, 50284875003, 50284875004, 50284875005

METHOD BLANK:	2142883	Matrix:	Water

Associated Lab Samples: 50284875001, 50284875002, 50284875003, 50284875004, 50284875005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.127 ± 0.352 (0.832) C:NA T:80%	pCi/L	05/04/21 14:04	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

QC Batch:	446148	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	50285654001, 50285654002, 50285654003, 50285654004, 50285654005, 50285654006, 50285654007		

METHOD BLANK:	2153231	Matrix:	Water
Associated Lab Samples:	50285654001, 50285654002, 50285654003, 50285654004, 50285654005, 50285654006, 50285654007		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0875 ± 0.271 (0.617) C:NA T:94%	pCi/L	05/20/21 12:20	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

QC Batch:	444341	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	50285156001, 50285156002, 50285156003, 50285156004, 50285156005, 50285156006, 50285156007, 50285156008, 50285156009, 50285156010, 50285156011, 50285156012		

METHOD BLANK:	2145001	Matrix:	Water

Associated Lab Samples: 50285156001, 50285156002, 50285156003, 50285156004, 50285156005, 50285156006, 50285156007, 50285156008, 50285156009, 50285156010, 50285156011, 50285156012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.525 ± 0.373 (0.720) C:67% T:87%	pCi/L	05/10/21 12:53	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

QC Batch:	444346	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	50285069001, 50285069002, 50285069003, 50285069004, 50285069005, 50285069006, 50285069007		

METHOD BLANK:	2145005	Matrix:	Water
Associated Lab Samples:	50285069001, 50285069002, 50285069003, 50285069004, 50285069005, 50285069006, 50285069007		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.111 ± 0.307 (0.726) C:NA T:86%	pCi/L	05/11/21 14:35	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

QC Batch:	446103	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	50285534001, 50285534002, 50285534003, 50285534004, 50285534005, 50285534006, 50285534007, 50285534008		

METHOD BLANK:	2153139	Matrix:	Water

Associated Lab Samples: 50285534001, 50285534002, 50285534003, 50285534004, 50285534005, 50285534006, 50285534007, 50285534008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.379 ± 0.336 (0.680) C:74% T:91%	pCi/L	05/17/21 12:54	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

QC Batch:	446058	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	50285424001, 50285424002, 50285424003, 50285424004, 50285424005, 50285424006, 50285424007, 50285424008		

METHOD BLANK:	2153086	Matrix:	Water
Associated Lab Samples:	50285424001, 50285424002, 50285424003, 50285424004, 50285424005, 50285424006, 50285424007, 50285424008		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.868 ± 0.407 (0.696) C:73% T:92%	pCi/L	05/11/21 12:42	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

QC Batch:	444339	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	50285156001, 50285156002, 50285156003, 50285156004, 50285156005, 50285156006, 50285156007, 50285156008, 50285156009, 50285156010, 50285156011, 50285156012		

METHOD BLANK: 2144998 Matrix: Water

Associated Lab Samples: 50285156001, 50285156002, 50285156003, 50285156004, 50285156005, 50285156006, 50285156007, 50285156008, 50285156009, 50285156010, 50285156011, 50285156012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.136 ± 0.235 (0.592) C:NA T:92%	pCi/L	05/11/21 13:28	

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 - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

QC Batch:	446052	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	50285424001, 50285424002, 50285424003, 50285424004, 50285424005, 50285424006, 50285424007, 50285424008		

METHOD BLANK:	2153077	Matrix:	Water

Associated Lab Samples: 50285424001, 50285424002, 50285424003, 50285424004, 50285424005, 50285424006, 50285424007, 50285424008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.193 ± 0.355 (0.633) C:NA T:91%	pCi/L	05/12/21 17:13	

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 - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

QC Batch:	444348	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	50285069001, 50285069002, 50285069003, 50285069004, 50285069005, 50285069006, 50285069007		

METHOD BLANK:	2145007	Matrix:	Water
Associated Lab Samples:	50285069001, 50285069002, 50285069003, 50285069004, 50285069005, 50285069006, 50285069007		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.302 ± 0.325 (0.673) C:73% T:79%	pCi/L	05/10/21 12:53	

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 - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

QC Batch:	443908	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	50284875001, 50284875002, 50284875003, 50284875004, 50284875005		

METHOD BLANK:	2142894	Matrix:	Water
Associated Lab Samples:	50284875001, 50284875002, 50284875003, 50284875004, 50284875005		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.267 ± 0.351 (0.746) C:74% T:81%	pCi/L	05/06/21 16:03	

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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QUALIFIERS

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50284875001	GAMW-01-041421	EPA 903.1	443899		
50284875002	GAMW-01B-041421	EPA 903.1	443899		
50284875003	GAMW-03-041421	EPA 903.1	443899		
50284875004	GAMW-17-041421	EPA 903.1	443899		
50284875005	GAMW-17B-041421	EPA 903.1	443899		
50285069001	GAMW-12-041521	EPA 903.1	444346		
50285069002	GAMW-12B-041521	EPA 903.1	444346		
50285069003	GAMW-04-041521	EPA 903.1	444346		
50285069004	GAMW-03B-041521	EPA 903.1	444346		
50285069005	FD-01-041521	EPA 903.1	444346		
50285069006	GAMW-03B-041521 MS	EPA 903.1	444346		
50285069007	GAMW-03B-041521 MSD	EPA 903.1	444346		
50285156001	GAMW-07B-041621	EPA 903.1	444339		
50285156002	GAMW-07-041621	EPA 903.1	444339		
50285156003	GAMW-15-041621	EPA 903.1	444339		
50285156004	GAMW-52-041621	EPA 903.1	444339		
50285156005	GAMW-52-041621 MS	EPA 903.1	444339		
50285156006	GAMW-52-041621 MSD	EPA 903.1	444339		
50285156007	GAMW-52B-041621	EPA 903.1	444339		
50285156008	GAMW-53-041621	EPA 903.1	444339		
50285156009	GAMW-53B-041621	EPA 903.1	444339		
50285156010	FB-01-041621	EPA 903.1	444339		
50285156011	FD-02-041621	EPA 903.1	444339		
50285156012	GAMW-15B-041621	EPA 903.1	444339		
50285424001	GAMW-56-042021	EPA 903.1	446052		
50285424002	GAMW-55R-042021	EPA 903.1	446052		
50285424003	GAMW-55B-042021	EPA 903.1	446052		
50285424004	GAMW-09-042021	EPA 903.1	446052		
50285424005	GAMW-09B-042021	EPA 903.1	446052		
50285424006	GAMW-18-042021	EPA 903.1	446052		
50285424007	FB-03-042021	EPA 903.1	446052		
50285424008	FD-04-042021	EPA 903.1	446052		
50285534001	GAMW-56B-042121	EPA 903.1	446102		
50285534002	GAMW-51-042121	EPA 903.1	446102		
50285534003	GAMW-51B-042121	EPA 903.1	446102		
50285534004	GAMW-60-042121	EPA 903.1	446102		
50285534005	GAMW-60B-042121	EPA 903.1	446102		
50285534006	GAMW-18B-042121	EPA 903.1	446102		
50285534007	FB-04-042121	EPA 903.1	446102		
50285534008	GAMW-59-042121	EPA 903.1	446102		
50285654001	GAMW-16R-042221	EPA 903.1	446148		
50285654002	GAMW-16BR-042221	EPA 903.1	446148		
50285654003	GAMW-59B-042221	EPA 903.1	446148		
50285654004	GAMW-08-042221	EPA 903.1	446148		
50285654005	GAMW-08B-042221	EPA 903.1	446148		
50285654006	GAMW-68-042221	EPA 903.1	446148		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50285654007	GAMW-68B-042221	EPA 903.1	446148		
50284875001	GAMW-01-041421	EPA 904.0	443908		
50284875002	GAMW-01B-041421	EPA 904.0	443908		
50284875003	GAMW-03-041421	EPA 904.0	443908		
50284875004	GAMW-17-041421	EPA 904.0	443908		
50284875005	GAMW-17B-041421	EPA 904.0	443908		
50285069001	GAMW-12-041521	EPA 904.0	444348		
50285069002	GAMW-12B-041521	EPA 904.0	444348		
50285069003	GAMW-04-041521	EPA 904.0	444348		
50285069004	GAMW-03B-041521	EPA 904.0	444348		
50285069005	FD-01-041521	EPA 904.0	444348		
50285069006	GAMW-03B-041521 MS	EPA 904.0	444348		
50285069007	GAMW-03B-041521 MSD	EPA 904.0	444348		
50285156001	GAMW-07B-041621	EPA 904.0	444341		
50285156002	GAMW-07-041621	EPA 904.0	444341		
50285156003	GAMW-15-041621	EPA 904.0	444341		
50285156004	GAMW-52-041621	EPA 904.0	444341		
50285156005	GAMW-52-041621 MS	EPA 904.0	444341		
50285156006	GAMW-52-041621 MSD	EPA 904.0	444341		
50285156007	GAMW-52B-041621	EPA 904.0	444341		
50285156008	GAMW-53-041621	EPA 904.0	444341		
50285156009	GAMW-53B-041621	EPA 904.0	444341		
50285156010	FB-01-041621	EPA 904.0	444341		
50285156011	FD-02-041621	EPA 904.0	444341		
50285156012	GAMW-15B-041621	EPA 904.0	444341		
50285424001	GAMW-56-042021	EPA 904.0	446058		
50285424002	GAMW-55R-042021	EPA 904.0	446058		
50285424003	GAMW-55B-042021	EPA 904.0	446058		
50285424004	GAMW-09-042021	EPA 904.0	446058		
50285424005	GAMW-09B-042021	EPA 904.0	446058		
50285424006	GAMW-18-042021	EPA 904.0	446058		
50285424007	FB-03-042021	EPA 904.0	446058		
50285424008	FD-04-042021	EPA 904.0	446058		
50285534001	GAMW-56B-042121	EPA 904.0	446103		
50285534002	GAMW-51-042121	EPA 904.0	446103		
50285534003	GAMW-51B-042121	EPA 904.0	446103		
50285534004	GAMW-60-042121	EPA 904.0	446103		
50285534005	GAMW-60B-042121	EPA 904.0	446103		
50285534006	GAMW-18B-042121	EPA 904.0	446103		
50285534007	FB-04-042121	EPA 904.0	446103		
50285534008	GAMW-59-042121	EPA 904.0	446103		
50285654001	GAMW-16R-042221	EPA 904.0	446149		
50285654002	GAMW-16BR-042221	EPA 904.0	446149		
50285654003	GAMW-59B-042221	EPA 904.0	446149		
50285654004	GAMW-08-042221	EPA 904.0	446149		
50285654005	GAMW-08B-042221	EPA 904.0	446149		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment April 21

Pace Project No.: 50284875

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50285654006	GAMW-68-042221	EPA 904.0	446149		
50285654007	GAMW-68B-042221	EPA 904.0	446149		
50284875001	GAMW-01-041421	Total Radium Calculation	446983		
50284875002	GAMW-01B-041421	Total Radium Calculation	446983		
50284875003	GAMW-03-041421	Total Radium Calculation	446983		
50284875004	GAMW-17-041421	Total Radium Calculation	446983		
50284875005	GAMW-17B-041421	Total Radium Calculation	446983		
50285069001	GAMW-12-041521	Total Radium Calculation	447524		
50285069002	GAMW-12B-041521	Total Radium Calculation	447524		
50285069003	GAMW-04-041521	Total Radium Calculation	447524		
50285069004	GAMW-03B-041521	Total Radium Calculation	447524		
50285069005	FD-01-041521	Total Radium Calculation	447524		
50285156001	GAMW-07B-041621	Total Radium Calculation	447511		
50285156002	GAMW-07-041621	Total Radium Calculation	447511		
50285156003	GAMW-15-041621	Total Radium Calculation	447511		
50285156004	GAMW-52-041621	Total Radium Calculation	447511		
50285156007	GAMW-52B-041621	Total Radium Calculation	447511		
50285156008	GAMW-53-041621	Total Radium Calculation	447511		
50285156009	GAMW-53B-041621	Total Radium Calculation	447511		
50285156010	FB-01-041621	Total Radium Calculation	447511		
50285156011	FD-02-041621	Total Radium Calculation	447511		
50285156012	GAMW-15B-041621	Total Radium Calculation	447511		
50285424001	GAMW-56-042021	Total Radium Calculation	447788		
50285424002	GAMW-55R-042021	Total Radium Calculation	447788		
50285424003	GAMW-55B-042021	Total Radium Calculation	447788		
50285424004	GAMW-09-042021	Total Radium Calculation	447788		
50285424005	GAMW-09B-042021	Total Radium Calculation	447788		
50285424006	GAMW-18-042021	Total Radium Calculation	447788		
50285424007	FB-03-042021	Total Radium Calculation	447788		
50285424008	FD-04-042021	Total Radium Calculation	447788		
50285534001	GAMW-56B-042121	Total Radium Calculation	448513		
50285534002	GAMW-51-042121	Total Radium Calculation	448513		
50285534003	GAMW-51B-042121	Total Radium Calculation	448513		
50285534004	GAMW-60-042121	Total Radium Calculation	448513		
50285534005	GAMW-60B-042121	Total Radium Calculation	448513		
50285534006	GAMW-18B-042121	Total Radium Calculation	448513		
50285534007	FB-04-042121	Total Radium Calculation	448513		
50285534008	GAMW-59-042121	Total Radium Calculation	448513		
50285654001	GAMW-16R-042221	Total Radium Calculation	449135		
50285654002	GAMW-16BR-042221	Total Radium Calculation	449135		
50285654003	GAMW-59B-042221	Total Radium Calculation	449135		
50285654004	GAMW-08-042221	Total Radium Calculation	449135		
50285654005	GAMW-08B-042221	Total Radium Calculation	449135		
50285654006	GAMW-68-042221	Total Radium Calculation	449135		
50285654007	GAMW-68B-042221	Total Radium Calculation	449135		

REPORT OF LABORATORY ANALYSIS

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WO#: 50284875



50284875

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Required Client Information:		Required Project Information:		Section C Invoice Information:		Page : Of	
Company: NiSource_Golder		Report To: Jim Peace		Attention: Jeff Loewe U126177		Regulatory Agency	
Address: 801 E. 86th Avenue		Copy To: krysta_cione@golder.com		Company Name: NIPSCO			
Merrillville, IN 46410		danielle_sylvia@golder.com		Address:		State / Location	
Email: jim_peace@golder.com		Purchase Order #: 12747		Pace Quote:		IN	
Phone: Fax:		Project Name: RMSGS Assessment April 21		Pace Project Manager: tina.sayer@pacelabs.com			
Requested Due Date:		Project #:		Pace Profile #: 9045-3			

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analyses Test Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Radium 226+226 (sum)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
**Sub RAD to Pace PA	Katie Butels/Golder	4/14/21	1700	FedEx					
	FedEx			APR 15 2021	4/15/21	0845	0.2	Y	Y

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Impact (Y/N)
PRINT Name of SAMPLER: Katie Butels					
SIGNATURE of SAMPLER: [Signature]					
DATE Signed: 4/14/21					



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: QJR 4/15/21

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER _____

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: 0.2/0.2
Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☒ Bubble Wrap ☒ Bubble Bags

☐ None

☐ Other _____

6. Ice Type: ☒ Wet ☐ Blue ☐ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis:		/	Circle: HNO ₃ (<2) H ₂ SO ₄ (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	/		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			/
Rush TAT Requested (4 days or less):		/	Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
Custody Signatures Present?	/		Headspace Wisconsin Sulfide?			/
Containers Intact?:	/		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		Trip Blank Present?		/	
Extra labels on Terracore Vials? (soils only)		/	Trip Blank Custody Seals?:			/

COMMENTS:

Container Codes

F-IN-Q-270-rev.12.11Aug2020

WO#: 50285069



50285069

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:

Company: NiSource Golder
Address: 801 E. 86th Avenue
Merrillville, IN 46410
Email: jim_peace@golder.com
Phone: [Redacted] Fax: [Redacted]
Requested Due Date: 3/24/21

Required Project Information:

Report To: Jim Peace
Copy To: krysta_cione@golder.com
danielle_sylvia@golder.com
Purchase Order #: 12747
Project Name: RMSGS Assessment April 21
Project #:

Section C

Invoice Information:

Attention: Jeff Loewe U126177
Company Name: NIPSCO
Address:
Pace Quote:
Pace Project Manager: tina.sayer@pacelabs.com
Pace Profile #: 9045-3

Page: 1

Of 1

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Y/N	Analyses Test	Requested Analysis Filtered (Y/N)																Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Radium 226+226 (sum)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

001
002
003
004
005

MS/MSD-01

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**Sub RAD to Pace PA	<u>Kate Barker/Golder</u>	4/6/21	1600	<u>Pace</u>	4/10/21	0900	0.9	Y	Y	Y
	<u>FBK</u>			<u>[Signature]</u>			0.3			

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Initialed (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:					
DATE Signed: 4/15/21					



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: MD 4/16/21 1230

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER _____

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: 5.3/0.9 0.3/0.7
Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☐ Bubble Wrap ☐ Bubble Bags

☒ None ☐ Other _____

6. Ice Type: ☒ Wet ☐ Blue ☐ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis:		☒	Circle: <u>HM03 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	☒		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			<u>Present</u>	<u>Absent</u>	<u>N/A</u>
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			☒
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Custody Signatures Present?	☒		Headspace Wisconsin Sulfide?			☒
			Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Containers Intact?:	☒					☒
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Trip Blank Present?		☒	
Extra labels on Terracore Vials? (soils only)		☒	Trip Blank Custody Seals?:		☒	

COMMENTS:

Container Codes

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W0#: 50285156



50285156

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

ction A

Required Client Information:

Company: NiSource Golder

Address: 801 E 86th Avenue

Merrillville, IN 46410

Email: jim_peace@golder.com

Phone: (603)782-2433

Fax:

Requested Due Date: Standard

Required Project Information:

Report To: Jim Peace

Copy To: Krysta Clone, Danielle Sylvia

Purchase Order #: 12747

Project Name: RMSGS Assessment April 21

Project #:

Section C

Invoice Information:

Attention: Jeff Loewe U126177

Company Name: NIPSCO

Address:

Pace Quote:

Pace Project Manager: tina.sayer@pacelabs.com,

Pace Profile #: 9045-3

Page: 1 Of 2

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analyses Test Y/N	Radium 226+226 (sum)	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
*Sub RAD to Pace PA	Katherine Bartels / Golder	4/16/21	1700	Fedex	4/16/21	1700				
	Fedex	4/17/21	0900	Daniel Rendon / Pace	4/17/21	0900	17.0	N	Y	Y
							16.0	N	Y	Y
							0.8	Y	Y	Y
							0.5	Y	Y	Y

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Katherine Bartels
SIGNATURE of SAMPLER:	
DATE Signed:	4/16/21

TEMP in C	Received in Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Initiated (Y/N)



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents:

DMP 4/17/21 10:37

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: #1 (16.8/17.0); #2 (15.8/16.0); #3 (0.8/0.8); #4 (0.5/0.5)
Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material:

☐ Bubble Wrap☐ Bubble Bags☒ None☐ Other

6. Ice Type:

☒ Wet☐ Blue☐ None

(NO ice for RAPS)

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)			All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis:			Circle: HNO ₃ (<2) H ₂ SO ₄ (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
Rush TAT Requested (4 days or less):			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			
Custody Signatures Present?			Residual Chlorine Check (Total/Amenable/Free Cyanide)			
Containers Intact?:			Headspace Wisconsin Sulfide?			
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID			Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Extra labels on Terracore Vials? (soils only)		N/A	Trip Blank Present?			
			Trip Blank Custody Seals?:			

COMMENTS: 2 BP4 IV labeled with the time of "1435" for "FD-02-041621". DMP 4/17/21.
All containers received for FD-02-041621 labeled with a time of 1435, COC = 1200. DMP 4/17/21

Use 1200 for time of FD-02-041621 per K Bartels email. 04/19/21 tms

Container Codes

F-IN-Q-270-rev. 12.11Aug2020

WO#: 50285424



50285424

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Sec
Req

Section C

Invoice Information:

Page : 1 Of 1

Company: NiSource Golder	Report To: Jim Peace	Attention: Jeff Loewe U126177
Address: 801 E 86th Avenue	Copy To: Krysta Cione, Danielle Sylvia	Company Name: NIPSCO
Merillville, IN 46410	Purchase Order #: 12747	Address:
Email: jim_peace@golder.com	Project Name: RMSGS Assessment April 21	Pace Quote:
Phone: (603)782-2433 Fax:	Project #:	Pace Project Manager: tina.sayer@pacelabs.com,
Requested Due Date: 4/20/21		Pace Profile #: 9045-3

Regulatory Agency

State / Location

IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test Radium 226+226 (sum)	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 4/20/21

TEMP in C

Received on

Ice (Y/N)

Custody

Sealed

Cooler

(Y/N)

Sample

Intact (Y/N)



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: BC 13:34 4-21-211. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER _____2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)3. Thermometer: 1 2 3 4 5 6 A B C D E F4. Cooler Temperature: 4.2/8.4

Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☐ Bubble Wrap ☐ Bubble Bags☒ None ☐ Other _____6. Ice Type: ☐ Wet ☐ Blue ☒ None7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	✓		
Short Hold Time Analysis (48 hours or less)? Analysis:		✓	Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab	Time: <u>13:54</u>			<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		✓	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
Custody Signatures Present?	✓		Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Containers Intact?:	✓		Headspace Wisconsin Sulfide?			✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Extra labels on Terracore Vials? (soils only)		✓	Trip Blank Present?		✓	
			Trip Blank Custody Seals?:			✓

COMMENTS:

Sample Container Count

Sample Line Item	WG <u>FU</u>	SBS		DG9H	VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	BP1N			Matrix	pH <2	pH >9	pH>10
		DI	BK Kit																												
1		R																													
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

Container Codes

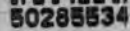
Glass				Plastic / Misc.			
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass	BP3U	250mL unpreserved plastic
DG9H	40mL HCl amber vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic	BP3S	250mL H2SO4 plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic		
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic		
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac		
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic		
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic		
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic		
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic		
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic		
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac		
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic		
WGUFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic		
JGUFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)		
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass				

AF	Air Filter
C	Air Cassettes
R	Terra core kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

WT	Water
SL	Solid
NAL	Non-aqueous liquid
WP	Wipe



Pace Analytical
www.pacelabs.com



The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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Regulatory AgencyState / LocationINPage 99 of 104

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples (Y/N)
PRINT Name of SAMPLER: Katherine Bartels						
SIGNATURE of SAMPLER: [Signature]						



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: RC 4-22-21 11:40

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER _____

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: 11.9/11.6

Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☐ Bubble Wrap ☐ Bubble Bags

☐ None

☒ Other Ziploc

6. Ice Type: ☐ Wet ☐ Blue ☒ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	☒		
Short Hold Time Analysis (48 hours or less)? Analysis:		☒	Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	☒		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			<u>Present</u>	<u>Absent</u>	<u>N/A</u>
		☒	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			☒
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Custody Signatures Present?	☒		Headspace Wisconsin Sulfide?			☒
	☒		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Containers Intact?:	☒				☒	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Trip Blank Present?			
Extra labels on Terracore Vials? (soils only)		☒	Trip Blank Custody Seals?:			☒

COMMENTS:

Container Codes

AF	Air Filter
C	Air Cassettes
R	Terra core kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

WT	Water
SL	Solid
NAL	Non-aqueous liquid
WP	Wipe

WO#: 50285654



50285654

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

ction /
quired

Required Project Information:

Section C

Invoice Information:

Page: 1

Of 1

Company: NiSource Golder
Address: 801 E 86th Avenue
Terre Haute, IN 46410

Email: jim.peace@golder.com

Phone: (603)782-2433

Fax:

Requested Due Date: Jan 2010

Report To: Jim Peace

Copy To: Krysta Cione, Danielle Sylvia

Purchase Order #: 12747

Project Name: RMSGS Assessment April 21

Project #:

Attention: Jeff Loewe U126177

Company Name: NIPSCO

Address:

Pace Quote:

Pace Project Manager: tina.sayer@pacelabs.com

Pace Profile #: 9045-3

Regulatory Agency

State / Location

IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analyses Test Radium 226+226 (sum)	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)		
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other																
						DATE	TIME	DATE	TIME																										
37	~~GAMW-58B~~ GAMW-16R-042221	WT							4/22/10	0945	2	2																							001
38	~~GAMW-59~~ GAMW-16BR-042221	WT								1220	1																								002
39	GAMW-59B -042221	WT								1055																									003
40	~~GAMW-60~~ GAMW-08-042221	WT								1315																									004
41	~~GAMW-60B~~ GAMW-08B-042221	WT								1455																									005
42	GAMW-68 -042221	WT								1215																									006
43	GAMW-68B -042221	WT								1355																									007
44	FD-01	WT																																	
45	FD-02	WT																																	
46	FD-03	WT																																	
47	FD-04	WT																																	
48	FB-01	WT																																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
*Sub RAD to Pace PA	Katherine Bantels / Golder	4/22/10	1700	Federx	4/23/10	8:40			
	Federx	4/23/10	8:40	Bailey &	4/23/10	8:40	15.8	N	Y Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed:

TEMP in C

Received on

Ice (Y/N)

Custody

Sealed

Cooler

(Y/N)

Samples

Intact

(Y/N)



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: BC 12:45 4-23-21

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER _____

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: 15.4 / 15.6

Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☒ Bubble Wrap ☐ Bubble Bags

☐ None ☐ Other _____

6. Ice Type: ☐ Wet ☐ Blue ☒ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	☒		
Short Hold Time Analysis (48 hours or less)? Analysis:		☒	Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Custody Signatures Present?	☒		Headspace Wisconsin Sulfide?			☒
Containers Intact?:	☒		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Trip Blank Present?		☒	
Extra labels on Terracore Vials? (soils only)		☒	Trip Blank Custody Seals?:			☒

COMMENTS:

[illegible]

Container Codes

Glass				Plastic / Misc.	
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass
DG9H	40mL HCl amber vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic
WGFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass		

BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Ac plastic

AF	Air Filter
C	Air Cassettes
R	Terra core kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

WT	Water
SL	Solid
NAL	Non-aqueous liquid
WP	Wipe

May 21, 2021

Mr. Jim Peace
Golder
670 North Commercial Street
Suite 103
Manchester, NH 03101

RE: Project: RMSGS Boundary Wells April 21
Pace Project No.: 50285733

Dear Mr. Peace:

Enclosed are the analytical results for sample(s) received by the laboratory between April 24, 2021 and April 28, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,



Tina Sayer
tina.sayer@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Ms. Krysta Cione, Golder
Accounts Payable., NiSource
Ms. Danielle Sylvia, Golder



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50285733001	GAMW-42-042321	Water	04/23/21 11:05	04/24/21 10:45
50285733002	GAMW-42B-042321	Water	04/23/21 13:00	04/24/21 10:45
50285733003	GAMW-42C-042321	Water	04/23/21 15:35	04/24/21 10:45
50285733004	GAMW-43-042321	Water	04/23/21 15:40	04/24/21 10:45
50285733005	GAMW-57-042321	Water	04/23/21 13:40	04/24/21 10:45
50285733006	GAMW-57B-042321	Water	04/23/21 12:35	04/24/21 10:45
50285733007	GAMW-58-042321	Water	04/23/21 10:10	04/24/21 10:45
50285733008	GAMW-58-042321 MS	Water	04/23/21 10:10	04/24/21 10:45
50285733009	GAMW-58-042321 MSD	Water	04/23/21 10:10	04/24/21 10:45
50285733010	GAMW-58B-042321	Water	04/23/21 11:30	04/24/21 10:45
50285987001	GAMW-43B-042721	Water	04/27/21 10:05	04/28/21 08:45
50285987002	FD-05-042721	Water	04/27/21 12:00	04/28/21 08:45
50285987003	FB-05-042721	Water	04/27/21 12:30	04/28/21 08:45
50285987004	GAMW-44-042721	Water	04/27/21 13:30	04/28/21 08:45
50285987005	GAMW-44B-042721	Water	04/27/21 11:55	04/28/21 08:45
50285987006	GAMW-46-042721	Water	04/27/21 15:25	04/28/21 08:45
50285987007	GAMW-46B-042721	Water	04/27/21 15:20	04/28/21 08:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50285733001	GAMW-42-042321	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50285733002	GAMW-42B-042321	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50285733003	GAMW-42C-042321	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50285733004	GAMW-43-042321	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50285733005	GAMW-57-042321	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50285733006	GAMW-57B-042321	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50285733007	GAMW-58-042321	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50285733008	GAMW-58-042321 MS	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50285733009	GAMW-58-042321 MSD	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50285733010	GAMW-58B-042321	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50285987001	GAMW-43B-042721	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50285987002	FD-05-042721	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50285987003	FB-05-042721	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50285987004	GAMW-44-042721	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50285987005	GAMW-44B-042721	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50285987006	GAMW-46-042721	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50285987007	GAMW-46B-042721	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285733001	GAMW-42-042321					
EPA 903.1	Radium-226	-0.0611 ± 0.279 (0.567) C:NA T:84%	pCi/L		05/20/21 12:35	
EPA 904.0	Radium-228	-0.0765 ± 0.381 (0.905) C:61% T:81%	pCi/L		05/18/21 11:51	
Total Radium Calculation	Total Radium	0.000 ± 0.660 (1.47)	pCi/L		05/21/21 14:15	
50285733002	GAMW-42B-042321					
EPA 903.1	Radium-226	0.398 ± 0.513 (0.855) C:NA T:86%	pCi/L		05/20/21 12:35	
EPA 904.0	Radium-228	0.455 ± 0.396 (0.801) C:65% T:83%	pCi/L		05/18/21 11:51	
Total Radium Calculation	Total Radium	0.853 ± 0.909 (1.66)	pCi/L		05/21/21 14:15	
50285733003	GAMW-42C-042321					
EPA 903.1	Radium-226	0.650 ± 0.547 (0.814) C:NA T:92%	pCi/L		05/20/21 12:50	
EPA 904.0	Radium-228	0.152 ± 0.293 (0.645) C:69% T:82%	pCi/L		05/18/21 11:49	
Total Radium Calculation	Total Radium	0.802 ± 0.840 (1.46)	pCi/L		05/21/21 14:15	
50285733004	GAMW-43-042321					
EPA 903.1	Radium-226	-0.0536 ± 0.315 (0.703) C:NA T:94%	pCi/L		05/20/21 12:50	
EPA 904.0	Radium-228	0.568 ± 0.371 (0.694) C:60% T:88%	pCi/L		05/18/21 11:49	
Total Radium Calculation	Total Radium	0.568 ± 0.686 (1.40)	pCi/L		05/21/21 14:15	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285733005	GAMW-57-042321					
EPA 903.1	Radium-226	-0.0620 ± 0.322 (0.745) C:NA T:86%	pCi/L		05/20/21 12:50	
EPA 904.0	Radium-228	0.194 ± 0.363 (0.796) C:67% T:79%	pCi/L		05/18/21 11:51	
Total Radium Calculation	Total Radium	0.194 ± 0.685 (1.54)	pCi/L		05/21/21 14:15	
50285733006	GAMW-57B-042321					
EPA 903.1	Radium-226	0.173 ± 0.300 (0.535) C:NA T:90%	pCi/L		05/20/21 12:35	
EPA 904.0	Radium-228	0.195 ± 0.453 (1.00) C:60% T:78%	pCi/L		05/18/21 11:51	
Total Radium Calculation	Total Radium	0.368 ± 0.753 (1.54)	pCi/L		05/21/21 14:15	
50285733007	GAMW-58-042321					
EPA 903.1	Radium-226	-0.139 ± 0.272 (0.652) C:NA T:86%	pCi/L		05/20/21 12:35	
EPA 904.0	Radium-228	1.95 ± 0.649 (0.900) C:66% T:76%	pCi/L		05/18/21 11:51	
Total Radium Calculation	Total Radium	1.95 ± 0.921 (1.55)	pCi/L		05/21/21 14:15	
50285733008	GAMW-58-042321 MS					
EPA 903.1	Radium-226	98.98 %REC ± NA (NA) C:NA T:NA	pCi/L		05/20/21 12:35	
EPA 904.0	Radium-228	116.88 %REC ± NA (NA) C:NA T:NA	pCi/L		05/18/21 11:51	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285733009	GAMW-58-042321 MSD					
EPA 903.1	Radium-226	122.01 %REC 20.84 RPD ± NA (NA) C:NA T:NA	pCi/L		05/20/21 12:35	
EPA 904.0	Radium-228	102.47 %REC 13.14 RPD ± NA (NA) C:NA T:NA	pCi/L		05/18/21 11:51	
50285733010	GAMW-58B-042321					
EPA 903.1	Radium-226	0.242 ± 0.377 (0.652) C:NA T:92%	pCi/L		05/20/21 12:35	
EPA 904.0	Radium-228	0.461 ± 0.476 (0.991) C:64% T:77%	pCi/L		05/18/21 11:51	
Total Radium Calculation	Total Radium	0.703 ± 0.853 (1.64)	pCi/L		05/21/21 14:15	
50285987001	GAMW-43B-042721					
EPA 903.1	Radium-226	0.155 ± 0.581 (0.971) C:NA T:93%	pCi/L		05/21/21 16:01	
EPA 904.0	Radium-228	0.576 ± 0.436 (0.864) C:64% T:85%	pCi/L		05/19/21 11:46	
Total Radium Calculation	Total Radium	0.731 ± 1.02 (1.84)	pCi/L		05/21/21 17:15	
50285987002	FD-05-042721					
EPA 903.1	Radium-226	0.170 ± 0.638 (1.07) C:NA T:88%	pCi/L		05/21/21 16:01	
EPA 904.0	Radium-228	0.815 ± 0.515 (0.988) C:64% T:82%	pCi/L		05/19/21 11:46	
Total Radium Calculation	Total Radium	0.985 ± 1.15 (2.06)	pCi/L		05/21/21 17:15	
50285987003	FB-05-042721					
EPA 903.1	Radium-226	0.387 ± 0.590 (0.921) C:NA T:89%	pCi/L		05/21/21 16:01	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285987003	FB-05-042721					
EPA 904.0	Radium-228	0.372 ± 0.381 (0.791) C:66% T:91%	pCi/L		05/19/21 11:46	
Total Radium Calculation	Total Radium	0.759 ± 0.971 (1.71)	pCi/L		05/21/21 17:15	
50285987004	GAMW-44-042721					
EPA 903.1	Radium-226	-0.245 ± 0.499 (0.970) C:NA T:91%	pCi/L		05/21/21 16:22	
EPA 904.0	Radium-228	0.365 ± 0.420 (0.884) C:66% T:78%	pCi/L		05/19/21 11:46	
Total Radium Calculation	Total Radium	0.365 ± 0.919 (1.85)	pCi/L		05/21/21 17:15	
50285987005	GAMW-44B-042721					
EPA 903.1	Radium-226	0.328 ± 0.492 (0.770) C:NA T:87%	pCi/L		05/21/21 16:01	
EPA 904.0	Radium-228	0.698 ± 0.428 (0.798) C:66% T:82%	pCi/L		05/19/21 11:46	
Total Radium Calculation	Total Radium	1.03 ± 0.920 (1.57)	pCi/L		05/21/21 17:15	
50285987006	GAMW-46-042721					
EPA 903.1	Radium-226	0.617 ± 0.609 (0.870) C:NA T:88%	pCi/L		05/21/21 16:22	
EPA 904.0	Radium-228	0.667 ± 0.514 (1.02) C:61% T:74%	pCi/L		05/19/21 11:46	
Total Radium Calculation	Total Radium	1.28 ± 1.12 (1.89)	pCi/L		05/21/21 17:15	
50285987007	GAMW-46B-042721					
EPA 903.1	Radium-226	0.302 ± 0.529 (0.840) C:NA T:91%	pCi/L		05/21/21 16:22	

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SUMMARY OF DETECTION

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285987007	GAMW-46B-042721					
EPA 904.0	Radium-228	1.35 ± 0.543 (0.850) C:62% T:81%	pCi/L		05/19/21 11:46	
Total Radium Calculation	Total Radium	1.65 ± 1.07 (1.69)	pCi/L		05/21/21 17:15	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Method: EPA 903.1

Description: 903.1 Radium 226

Client: NiSource_Golder

Date: May 21, 2021

General Information:

17 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. 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: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Method: EPA 904.0

Description: 904.0 Radium 228

Client: NiSource_Golder

Date: May 21, 2021

General Information:

17 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. 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: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: NiSource_Golder

Date: May 21, 2021

General Information:

15 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. 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:

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 - RADIOCHEMISTRY

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Sample: GAMW-42-042321		Lab ID: 50285733001	Collected: 04/23/21 11:05	Received: 04/24/21 10:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	-0.0611 ± 0.279 (0.567) C:NA T:84%		pCi/L	05/20/21 12:35	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	-0.0765 ± 0.381 (0.905) C:61% T:81%		pCi/L	05/18/21 11:51	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	0.000 ± 0.660 (1.47)		pCi/L	05/21/21 14:15	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Sample: GAMW-42B-042321		Lab ID: 50285733002	Collected: 04/23/21 13:00	Received: 04/24/21 10:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/20/21 12:35	13982-63-3	
	EPA 903.1	0.398 ± 0.513 (0.855) C:NA T:86%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/18/21 11:51	15262-20-1	
	EPA 904.0	0.455 ± 0.396 (0.801) C:65% T:83%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/21/21 14:15	7440-14-4	
	Total Radium Calculation	0.853 ± 0.909 (1.66)					

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Sample: GAMW-42C-042321		Lab ID: 50285733003	Collected: 04/23/21 15:35	Received: 04/24/21 10:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/20/21 12:50	13982-63-3	
	EPA 903.1	0.650 ± 0.547 (0.814) C:NA T:92%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/18/21 11:49	15262-20-1	
	EPA 904.0	0.152 ± 0.293 (0.645) C:69% T:82%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/21/21 14:15	7440-14-4	
	Total Radium Calculation	0.802 ± 0.840 (1.46)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Sample: GAMW-43-042321		Lab ID: 50285733004	Collected: 04/23/21 15:40	Received: 04/24/21 10:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	-0.0536 ± 0.315 (0.703) C:NA T:94%		pCi/L	05/20/21 12:50	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	0.568 ± 0.371 (0.694) C:60% T:88%		pCi/L	05/18/21 11:49	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	0.568 ± 0.686 (1.40)		pCi/L	05/21/21 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Sample: GAMW-57-042321		Lab ID: 50285733005	Collected: 04/23/21 13:40	Received: 04/24/21 10:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/20/21 12:50	13982-63-3	
	EPA 903.1	-0.0620 ± 0.322 (0.745) C:NA T:86%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/18/21 11:51	15262-20-1	
	EPA 904.0	0.194 ± 0.363 (0.796) C:67% T:79%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/21/21 14:15	7440-14-4	
	Total Radium Calculation	0.194 ± 0.685 (1.54)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Sample: GAMW-57B-042321		Lab ID: 50285733006	Collected: 04/23/21 12:35	Received: 04/24/21 10:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/20/21 12:35	13982-63-3	
	EPA 903.1	0.173 ± 0.300 (0.535) C:NA T:90%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/18/21 11:51	15262-20-1	
	EPA 904.0	0.195 ± 0.453 (1.00) C:60% T:78%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/21/21 14:15	7440-14-4	
	Total Radium Calculation	0.368 ± 0.753 (1.54)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Sample: GAMW-58-042321		Lab ID: 50285733007	Collected: 04/23/21 10:10	Received: 04/24/21 10:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	-0.139 ± 0.272 (0.652) C:NA T:86%		pCi/L	05/20/21 12:35	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	1.95 ± 0.649 (0.900) C:66% T:76%		pCi/L	05/18/21 11:51	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	1.95 ± 0.921 (1.55)		pCi/L	05/21/21 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Sample: GAMW-58-042321 MS **Lab ID:** 50285733008 Collected: 04/23/21 10:10 Received: 04/24/21 10:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	98.98 %REC ± NA (NA) C:NA T:NA	pCi/L	05/20/21 12:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	116.88 %REC ± NA (NA) C:NA T:NA	pCi/L	05/18/21 11:51	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Sample: GAMW-58-042321 MSD **Lab ID:** 50285733009 Collected: 04/23/21 10:10 Received: 04/24/21 10:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	122.01 %REC 20.84 RPD ± NA (NA) C:NA T:NA	pCi/L	05/20/21 12:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	102.47 %REC 13.14 RPD ± NA (NA) C:NA T:NA	pCi/L	05/18/21 11:51	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Sample: GAMW-58B-042321		Lab ID: 50285733010	Collected: 04/23/21 11:30	Received: 04/24/21 10:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/20/21 12:35	13982-63-3	
	EPA 903.1	0.242 ± 0.377 (0.652) C:NA T:92%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/18/21 11:51	15262-20-1	
	EPA 904.0	0.461 ± 0.476 (0.991) C:64% T:77%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/21/21 14:15	7440-14-4	
	Total Radium Calculation	0.703 ± 0.853 (1.64)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Sample: GAMW-43B-042721		Lab ID: 50285987001	Collected: 04/27/21 10:05	Received: 04/28/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/21/21 16:01	13982-63-3	
	EPA 903.1	0.155 ± 0.581 (0.971) C:NA T:93%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/19/21 11:46	15262-20-1	
	EPA 904.0	0.576 ± 0.436 (0.864) C:64% T:85%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/21/21 17:15	7440-14-4	
	Total Radium Calculation	0.731 ± 1.02 (1.84)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Sample: FD-05-042721		Lab ID: 50285987002	Collected: 04/27/21 12:00	Received: 04/28/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/21/21 16:01	13982-63-3	
	EPA 903.1	0.170 ± 0.638 (1.07) C:NA T:88%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/19/21 11:46	15262-20-1	
	EPA 904.0	0.815 ± 0.515 (0.988) C:64% T:82%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/21/21 17:15	7440-14-4	
	Total Radium Calculation	0.985 ± 1.15 (2.06)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Sample: FB-05-042721		Lab ID: 50285987003	Collected: 04/27/21 12:30	Received: 04/28/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	0.387 ± 0.590 (0.921) C:NA T:89%		pCi/L	05/21/21 16:01	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	0.372 ± 0.381 (0.791) C:66% T:91%		pCi/L	05/19/21 11:46	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	0.759 ± 0.971 (1.71)		pCi/L	05/21/21 17:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Sample: GAMW-44-042721		Lab ID: 50285987004	Collected: 04/27/21 13:30	Received: 04/28/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/21/21 16:22	13982-63-3	
	EPA 903.1	-0.245 ± 0.499 (0.970) C:NA T:91%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/19/21 11:46	15262-20-1	
	EPA 904.0	0.365 ± 0.420 (0.884) C:66% T:78%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/21/21 17:15	7440-14-4	
	Total Radium Calculation	0.365 ± 0.919 (1.85)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Sample: GAMW-44B-042721		Lab ID: 50285987005	Collected: 04/27/21 11:55	Received: 04/28/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	05/21/21 16:01	13982-63-3	
	EPA 903.1	0.328 ± 0.492 (0.770) C:NA T:87%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	05/19/21 11:46	15262-20-1	
	EPA 904.0	0.698 ± 0.428 (0.798) C:66% T:82%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	05/21/21 17:15	7440-14-4	
	Total Radium Calculation	1.03 ± 0.920 (1.57)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Sample: GAMW-46-042721		Lab ID: 50285987006	Collected: 04/27/21 15:25	Received: 04/28/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	0.617 ± 0.609 (0.870) C:NA T:88%		pCi/L	05/21/21 16:22	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	0.667 ± 0.514 (1.02) C:61% T:74%		pCi/L	05/19/21 11:46	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	1.28 ± 1.12 (1.89)		pCi/L	05/21/21 17:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Sample: GAMW-46B-042721		Lab ID: 50285987007	Collected: 04/27/21 15:20	Received: 04/28/21 08:45	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	0.302 ± 0.529 (0.840) C:NA T:91%		pCi/L	05/21/21 16:22	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	1.35 ± 0.543 (0.850) C:62% T:81%		pCi/L	05/19/21 11:46	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	1.65 ± 1.07 (1.69)		pCi/L	05/21/21 17:15	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

QC Batch:	446149	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	50285733001, 50285733002, 50285733003, 50285733004, 50285733005, 50285733006, 50285733007, 50285733008, 50285733009, 50285733010		

METHOD BLANK: 2153232 Matrix: Water

Associated Lab Samples: 50285733001, 50285733002, 50285733003, 50285733004, 50285733005, 50285733006, 50285733007, 50285733008, 50285733009, 50285733010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.712 ± 0.401 (0.733) C:69% T:88%	pCi/L	05/18/21 11:52	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

QC Batch:	447257	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 50285987001, 50285987002, 50285987003, 50285987004, 50285987005, 50285987006, 50285987007

METHOD BLANK:	2158470	Matrix:	Water

Associated Lab Samples: 50285987001, 50285987002, 50285987003, 50285987004, 50285987005, 50285987006, 50285987007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.506 ± 0.368 (0.708) C:63% T:83%	pCi/L	05/19/21 11:48	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

QC Batch:	446148	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	50285733001, 50285733002, 50285733003, 50285733004, 50285733005, 50285733006, 50285733007, 50285733008, 50285733009, 50285733010		

METHOD BLANK: 2153231 Matrix: Water

Associated Lab Samples: 50285733001, 50285733002, 50285733003, 50285733004, 50285733005, 50285733006, 50285733007, 50285733008, 50285733009, 50285733010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0875 ± 0.271 (0.617) C:NA T:94%	pCi/L	05/20/21 12:20	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

QC Batch:	447256	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	50285987001, 50285987002, 50285987003, 50285987004, 50285987005, 50285987006, 50285987007		

METHOD BLANK:	2158469	Matrix:	Water
Associated Lab Samples:	50285987001, 50285987002, 50285987003, 50285987004, 50285987005, 50285987006, 50285987007		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.276 ± 0.415 (0.649) C:NA T:90%	pCi/L	05/21/21 16:01	

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QUALIFIERS

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50285733001	GAMW-42-042321	EPA 903.1	446148		
50285733002	GAMW-42B-042321	EPA 903.1	446148		
50285733003	GAMW-42C-042321	EPA 903.1	446148		
50285733004	GAMW-43-042321	EPA 903.1	446148		
50285733005	GAMW-57-042321	EPA 903.1	446148		
50285733006	GAMW-57B-042321	EPA 903.1	446148		
50285733007	GAMW-58-042321	EPA 903.1	446148		
50285733008	GAMW-58-042321 MS	EPA 903.1	446148		
50285733009	GAMW-58-042321 MSD	EPA 903.1	446148		
50285733010	GAMW-58B-042321	EPA 903.1	446148		
50285987001	GAMW-43B-042721	EPA 903.1	447256		
50285987002	FD-05-042721	EPA 903.1	447256		
50285987003	FB-05-042721	EPA 903.1	447256		
50285987004	GAMW-44-042721	EPA 903.1	447256		
50285987005	GAMW-44B-042721	EPA 903.1	447256		
50285987006	GAMW-46-042721	EPA 903.1	447256		
50285987007	GAMW-46B-042721	EPA 903.1	447256		
50285733001	GAMW-42-042321	EPA 904.0	446149		
50285733002	GAMW-42B-042321	EPA 904.0	446149		
50285733003	GAMW-42C-042321	EPA 904.0	446149		
50285733004	GAMW-43-042321	EPA 904.0	446149		
50285733005	GAMW-57-042321	EPA 904.0	446149		
50285733006	GAMW-57B-042321	EPA 904.0	446149		
50285733007	GAMW-58-042321	EPA 904.0	446149		
50285733008	GAMW-58-042321 MS	EPA 904.0	446149		
50285733009	GAMW-58-042321 MSD	EPA 904.0	446149		
50285733010	GAMW-58B-042321	EPA 904.0	446149		
50285987001	GAMW-43B-042721	EPA 904.0	447257		
50285987002	FD-05-042721	EPA 904.0	447257		
50285987003	FB-05-042721	EPA 904.0	447257		
50285987004	GAMW-44-042721	EPA 904.0	447257		
50285987005	GAMW-44B-042721	EPA 904.0	447257		
50285987006	GAMW-46-042721	EPA 904.0	447257		
50285987007	GAMW-46B-042721	EPA 904.0	447257		
50285733001	GAMW-42-042321	Total Radium Calculation	449135		
50285733002	GAMW-42B-042321	Total Radium Calculation	449135		
50285733003	GAMW-42C-042321	Total Radium Calculation	449135		
50285733004	GAMW-43-042321	Total Radium Calculation	449135		
50285733005	GAMW-57-042321	Total Radium Calculation	449135		
50285733006	GAMW-57B-042321	Total Radium Calculation	449135		
50285733007	GAMW-58-042321	Total Radium Calculation	449135		
50285733010	GAMW-58B-042321	Total Radium Calculation	449135		
50285987001	GAMW-43B-042721	Total Radium Calculation	449195		
50285987002	FD-05-042721	Total Radium Calculation	449195		
50285987003	FB-05-042721	Total Radium Calculation	449195		
50285987004	GAMW-44-042721	Total Radium Calculation	449195		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285733

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50285987005	GAMW-44B-042721	Total Radium Calculation	449195		
50285987006	GAMW-46-042721	Total Radium Calculation	449195		
50285987007	GAMW-46B-042721	Total Radium Calculation	449195		

REPORT OF LABORATORY ANALYSIS

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W0#: 50285733



50285733

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:

Company: NISource Golder
 Address: 801 E. 86th Avenue
 Merrillville, IN 46410
 Email: jim_peace@golder.com
 Phone: Fax:
 Requested Due Date:

Section B

Required Project Information:

Report To: Jim Peace
 Copy To: krysta_cione@golder.com,
 danielle_sylvia@golder.com
 Purchase Order #: 12747
 Project Name: RMSGS Boundary Wells April 21
 Project #:

Section C

Invoice Information:

Attention: Jeff Loewe U126177
 Company Name: NIPSCO
 Address:
 Pace Quote:
 Pace Project Manager: tina.sayer@pacelabs.com,
 Pace Profile #: 9045-3

Page: 1 of 2

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Radium 226+226 (sum)	Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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**Sub RAD to Pace PA

Katherine Bartels/Golder 4/23/21 F700
 FedEx 4-24-21 10:45

FedEx

Bentley

4-24-21 10:45

N Y

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed:

TEMP in C

Received at:

Ice

(Y/N)

Custody

Sealed

Cooler

(Y/N)

Sample

Intact

(Y/N)



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: BC 11:40 4-24-21

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER _____

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: 14.6 / 14.0
Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☐ Bubble Wrap ☐ Bubble Bags

☒ None ☐ Other _____

6. Ice Type: ☐ Wet ☐ Blue ☒ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base pres. Have been <u>CHECKED</u> ?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	✓		
Short Hold Time Analysis (48 hours or less)? Analysis:		✓	Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			<u>Present</u>	<u>Absent</u>	<u>N/A</u>
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
Rush TAT Requested (4 days or less):		✓	Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Custody Signatures Present?	✓		Headspace Wisconsin Sulfide?			✓
	✓		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	No VOA Vials Sent
Containers Intact?:	✓					
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)		✓	Trip Blank Custody Seals?:			✓

COMMENTS:

[illegible]

Container Codes

Glass			Plastic / Misc.		
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass
DG9H	40mL HCl amber vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic
WGFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass		

BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Ac plastic

AF	Air Filter
C	Air Cassettes
R	Terra core kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

WT	Water
SL	Solid
NAL	Non-aqueous liquid
WP	Wipe

[illegible]

Container Codes

Glass			Plastic / Misc.		
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass
DG9H	40mL HCl amber vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic
WGFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass		

BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Ac plastic

AF	Air Filter
C	Air Cassettes
R	Terra core kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

WT	Water
SL	Solid
NAL	Non-aqueous liquid
WP	Wipe



CHAIN-OF-CUSTODY / Analytical Reque:
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant field

WO# : 50285987



50285987

Section A

Required Client Information:

Company: NiSource Golder
Address: 801 E 88th Avenue
Merrillville, IN 46410
Email: jim_peace@golder.com
Phone: (603)782-2433 Fax:
Requested Due Date:

Section B

Required Project Information:

Report To: Jim Peace
Copy To: Krysta Cione, Danielle Sylvia
Purchase Order #: 12747
Project Name: RMSGS Boundary Wells April 21
Project #:

Section C

Invoice Information:

Attention: Jeff Loewe U126177
Company Name: NIPSCO
Address:
Pace Quote:
Pace Project Manager: tina.sayer@pacelabs.com,
Pace Profile #: 9045-3

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test Radium 226+226 (sum)	Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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*Sub RAD to Pace PA

Katherine Butels/Cidm 4/27/21 1700
FEDER

4/26/21 0845 20.6 5 7 7

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed:

TEMP in C

Received on

Ice (Y/N)

Custody

Sealed

Cooler

(Y/N)

Samples

Intact

(Y/N)



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: MP 2-4/29/21 15201. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER _____2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)3. Thermometer: 1 2 3 4 5 6 A B C D E F4. Cooler Temperature: 20.9/20.6

Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material:

☐ Bubble Wrap☐ Bubble Bags☒ None☐ Other _____

6. Ice Type:

☒ Wet☐ Blue☒ None7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	☒		
Short Hold Time Analysis (48 hours or less)? Analysis:		☒	Circle: <u>HNO3 (2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			<u>Present</u>	<u>Absent</u>	<u>N/A</u>
		☒	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			☒
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Custody Signatures Present?	☒		Headspace Wisconsin Sulfide?			☒
	☒		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Containers Intact?:	☒					☒
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Trip Blank Present?		☒	
Extra labels on Terracore Vials? (soils only)		☒	Trip Blank Custody Seals?:		☒	

COMMENTS:

Sample Container Count

[illegible]

Container Codes

Glass				Plastic / Misc.	
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass
DG9H	40mL HCl amber vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic
WGFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass		

BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Ac plastic

AF	Air Filter
C	Air Cassettes
R	Terra core kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

WT	Water
SL	Solid
NAL	Non-aqueous liquid
WP	Wipe

May 12, 2021

Mr. Jim Peace
Golder
670 North Commercial Street
Suite 103
Manchester, NH 03101

RE: Project: RMSGS Boundary Wells April 21
Pace Project No.: 50285740

Dear Mr. Peace:

Enclosed are the analytical results for sample(s) received by the laboratory between April 24, 2021 and April 28, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Indianapolis

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

Sincerely,



Tina Sayer
tina.sayer@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Ms. Krysta Cione, Golder
Accounts Payable., NiSource
Ms. Danielle Sylvia, Golder



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50285740001	GAMW-42-042321	Water	04/23/21 11:05	04/24/21 11:15
50285740002	GAMW-42B-042321	Water	04/23/21 13:00	04/24/21 11:15
50285740003	GAMW-42C-042321	Water	04/23/21 15:35	04/24/21 11:15
50285740004	GAMW-43-042321	Water	04/23/21 15:40	04/24/21 11:15
50285740005	GAMW-57-042321	Water	04/23/21 13:40	04/24/21 11:15
50285740006	GAMW-57B-042321	Water	04/23/21 12:35	04/24/21 11:15
50285740007	GAMW-58-042321	Water	04/23/21 10:10	04/24/21 11:15
50285740008	GAMW-58B-042321	Water	04/23/21 11:30	04/24/21 11:15
50285964001	GAMW-43B-042721	Water	04/27/21 10:05	04/28/21 08:45
50285964002	FD-05-042721	Water	04/27/21 12:00	04/28/21 08:45
50285964003	FB-05-042721	Water	04/27/21 12:30	04/28/21 08:45
50285964004	GAMW-44-042721	Water	04/27/21 13:30	04/28/21 08:45
50285964005	GAMW-44B-042721	Water	04/27/21 11:55	04/28/21 08:45
50285964006	GAMW-46-042721	Water	04/27/21 15:25	04/28/21 08:45
50285964007	GAMW-46B-042721	Water	04/27/21 15:20	04/28/21 08:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50285740001	GAMW-42-042321	EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50285740002	GAMW-42B-042321	EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50285740003	GAMW-42C-042321	EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50285740004	GAMW-43-042321	EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50285740005	GAMW-57-042321	EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50285740006	GAMW-57B-042321	EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50285740007	GAMW-58-042321	EPA 9056	HBS	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50285740008	GAMW-58B-042321	EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
50285964001	GAMW-43B-042721	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
50285964002	FD-05-042721	EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
50285964003	FB-05-042721	EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
50285964004	GAMW-44-042721	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
50285964005	GAMW-44B-042721	EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50285964006	GAMW-46-042721	EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50285964007	GAMW-46B-042721	EPA 9056	HBS	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285740001	GAMW-42-042321					
EPA 9056	Chloride	4.2	mg/L	0.25	05/07/21 18:19	
EPA 9056	Fluoride	0.17	mg/L	0.050	05/07/21 18:19	
EPA 9056	Sulfate	29.9	mg/L	2.5	05/07/21 18:35	
EPA 6010	Calcium	47.1	mg/L	1.0	05/06/21 08:55	
EPA 6020	Arsenic	0.0012	mg/L	0.0010	05/04/21 12:08	
EPA 6020	Barium	0.018	mg/L	0.0010	05/04/21 12:08	
EPA 6020	Molybdenum	0.0022	mg/L	0.0010	05/04/21 12:08	
SM 2540C	Total Dissolved Solids	148	mg/L	10.0	04/29/21 12:01	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	04/29/21 14:43	H3
50285740002	GAMW-42B-042321					
EPA 9056	Chloride	8.6	mg/L	0.25	05/07/21 19:40	
EPA 9056	Fluoride	0.15	mg/L	0.050	05/07/21 19:40	
EPA 9056	Sulfate	37.7	mg/L	2.5	05/07/21 19:56	
EPA 6010	Calcium	57.9	mg/L	1.0	05/06/21 08:57	
EPA 6020	Barium	0.016	mg/L	0.0010	05/04/21 12:13	
EPA 6020	Molybdenum	0.0029	mg/L	0.0010	05/04/21 12:13	
SM 2540C	Total Dissolved Solids	193	mg/L	10.0	04/29/21 12:02	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	04/29/21 14:45	H3
50285740003	GAMW-42C-042321					
EPA 9056	Chloride	6.3	mg/L	0.25	05/07/21 20:29	
EPA 9056	Fluoride	0.20	mg/L	0.050	05/07/21 20:29	
EPA 9056	Sulfate	4.4	mg/L	0.25	05/07/21 20:29	
EPA 6010	Boron	0.69	mg/L	0.10	05/06/21 08:59	
EPA 6010	Calcium	48.6	mg/L	1.0	05/06/21 08:59	
EPA 6010	Lithium	0.032	mg/L	0.0080	05/06/21 08:59	
EPA 6020	Barium	0.0092	mg/L	0.0010	05/04/21 12:27	
EPA 6020	Molybdenum	0.0026	mg/L	0.0010	05/04/21 12:27	
SM 2540C	Total Dissolved Solids	203	mg/L	10.0	04/29/21 12:02	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	04/29/21 14:47	H3
50285740004	GAMW-43-042321					
EPA 9056	Chloride	0.53	mg/L	0.25	05/07/21 21:18	
EPA 9056	Fluoride	0.13	mg/L	0.050	05/07/21 21:18	
EPA 9056	Sulfate	30.0	mg/L	2.5	05/07/21 21:34	
EPA 6010	Calcium	28.0	mg/L	1.0	05/06/21 09:01	
EPA 6020	Arsenic	0.0016	mg/L	0.0010	05/04/21 12:32	
EPA 6020	Barium	0.019	mg/L	0.0010	05/04/21 12:32	
EPA 6020	Cobalt	0.0024	mg/L	0.0010	05/04/21 12:32	
EPA 6020	Molybdenum	0.0018	mg/L	0.0010	05/04/21 12:32	
SM 2540C	Total Dissolved Solids	86	mg/L	10.0	04/29/21 12:03	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	04/29/21 14:48	H3
50285740005	GAMW-57-042321					
EPA 9056	Chloride	1.6	mg/L	0.25	05/07/21 22:39	
EPA 9056	Sulfate	38.0	mg/L	2.5	05/07/21 22:56	
EPA 6010	Calcium	13.9	mg/L	1.0	05/06/21 09:03	
EPA 6020	Barium	0.014	mg/L	0.0010	05/04/21 12:36	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285740005	GAMW-57-042321					
EPA 6020	Cobalt	0.0014	mg/L	0.0010	05/04/21 12:36	
EPA 6020	Molybdenum	0.0011	mg/L	0.0010	05/04/21 12:36	
SM 2540C	Total Dissolved Solids	58	mg/L	10.0	04/29/21 12:03	
SM 4500-H+B	pH at 25 Degrees C	6.5	Std. Units	0.10	04/29/21 14:50	H3
50285740006	GAMW-57B-042321					
EPA 9056	Chloride	11.2	mg/L	0.25	05/07/21 23:28	
EPA 9056	Fluoride	0.13	mg/L	0.050	05/07/21 23:28	
EPA 9056	Sulfate	19.1	mg/L	0.25	05/07/21 23:28	
EPA 6010	Calcium	43.1	mg/L	1.0	05/06/21 09:06	
EPA 6020	Barium	0.020	mg/L	0.0010	05/04/21 12:41	
EPA 6020	Molybdenum	0.0028	mg/L	0.0010	05/04/21 12:41	
SM 2540C	Total Dissolved Solids	150	mg/L	10.0	04/29/21 12:04	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	04/29/21 14:52	H3
50285740007	GAMW-58-042321					
EPA 9056	Chloride	0.95	mg/L	0.25	05/08/21 00:17	
EPA 9056	Fluoride	0.22	mg/L	0.050	05/08/21 00:17	
EPA 9056	Sulfate	45.0	mg/L	2.5	05/08/21 00:34	
EPA 6010	Calcium	7.3	mg/L	1.0	05/06/21 09:12	
EPA 6020	Barium	0.059	mg/L	0.0010	05/04/21 12:45	
EPA 6020	Beryllium	0.0012	mg/L	0.00020	05/04/21 12:45	
EPA 6020	Cadmium	0.00025	mg/L	0.00020	05/04/21 12:45	
EPA 6020	Cobalt	0.010	mg/L	0.0010	05/04/21 12:45	
SM 2540C	Total Dissolved Solids	44	mg/L	10.0	04/29/21 12:05	
SM 4500-H+B	pH at 25 Degrees C	4.8	Std. Units	0.10	04/29/21 14:54	H3
50285740008	GAMW-58B-042321					
EPA 9056	Chloride	3.6	mg/L	0.25	05/08/21 03:17	
EPA 9056	Fluoride	0.15	mg/L	0.050	05/08/21 03:17	
EPA 9056	Sulfate	24.9	mg/L	2.5	05/08/21 03:33	P8
EPA 6010	Calcium	37.8	mg/L	1.0	05/06/21 09:22	
EPA 6020	Barium	0.015	mg/L	0.0010	05/04/21 13:18	
EPA 6020	Molybdenum	0.0034	mg/L	0.0010	05/04/21 13:18	
SM 2540C	Total Dissolved Solids	124	mg/L	10.0	04/29/21 12:05	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	04/29/21 14:59	H3
50285964001	GAMW-43B-042721					
EPA 9056	Chloride	1.7	mg/L	0.25	05/10/21 19:22	
EPA 9056	Fluoride	0.19	mg/L	0.050	05/10/21 19:22	
EPA 9056	Sulfate	27.9	mg/L	2.5	05/10/21 19:37	
EPA 6010	Calcium	40.4	mg/L	1.0	05/10/21 10:08	
EPA 6020	Barium	0.011	mg/L	0.0010	05/04/21 13:32	
EPA 6020	Molybdenum	0.0021	mg/L	0.0010	05/04/21 13:32	
SM 2540C	Total Dissolved Solids	151	mg/L	10.0	05/03/21 12:13	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	04/29/21 15:15	H3
50285964002	FD-05-042721					
EPA 9056	Chloride	1.7	mg/L	0.25	05/10/21 20:39	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285964002	FD-05-042721					
EPA 9056	Fluoride	0.19	mg/L	0.050	05/10/21 20:39	
EPA 9056	Sulfate	28.9	mg/L	2.5	05/10/21 20:54	
EPA 6010	Calcium	41.2	mg/L	1.0	05/10/21 10:10	
EPA 6020	Barium	0.012	mg/L	0.0010	05/04/21 13:36	
EPA 6020	Molybdenum	0.0023	mg/L	0.0010	05/04/21 13:36	
SM 2540C	Total Dissolved Solids	145	mg/L	10.0	05/03/21 12:14	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	04/29/21 15:18	H3
50285964003	FB-05-042721					
SM 4500-H+B	pH at 25 Degrees C	6.8	Std. Units	0.10	04/29/21 15:24	H3
50285964004	GAMW-44-042721					
EPA 9056	Chloride	2.3	mg/L	0.25	05/10/21 21:40	
EPA 9056	Fluoride	0.19	mg/L	0.050	05/10/21 21:40	
EPA 9056	Sulfate	63.9	mg/L	2.5	05/10/21 21:56	
EPA 6010	Calcium	21.5	mg/L	1.0	05/10/21 10:14	
EPA 6020	Arsenic	0.095	mg/L	0.0010	05/04/21 13:46	
EPA 6020	Barium	0.018	mg/L	0.0010	05/04/21 13:46	
EPA 6020	Chromium	0.0034	mg/L	0.0020	05/04/21 13:46	
EPA 6020	Cobalt	0.0026	mg/L	0.0010	05/04/21 13:46	
EPA 6020	Molybdenum	0.0044	mg/L	0.0010	05/04/21 13:46	
SM 2540C	Total Dissolved Solids	165	mg/L	10.0	05/03/21 12:15	
SM 4500-H+B	pH at 25 Degrees C	6.4	Std. Units	0.10	04/29/21 15:27	H3
50285964005	GAMW-44B-042721					
EPA 9056	Chloride	1.6	mg/L	0.25	05/10/21 22:26	
EPA 9056	Fluoride	0.14	mg/L	0.050	05/10/21 22:26	
EPA 9056	Sulfate	12.3	mg/L	0.25	05/10/21 22:26	
EPA 6010	Calcium	31.2	mg/L	1.0	05/10/21 10:17	
EPA 6020	Barium	0.0084	mg/L	0.0010	05/04/21 13:50	
EPA 6020	Molybdenum	0.0022	mg/L	0.0010	05/04/21 13:50	
SM 2540C	Total Dissolved Solids	85	mg/L	10.0	05/03/21 12:16	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	04/29/21 15:30	H3
50285964006	GAMW-46-042721					
EPA 9056	Chloride	2.1	mg/L	0.25	05/10/21 23:43	
EPA 9056	Fluoride	0.078	mg/L	0.050	05/10/21 23:43	
EPA 9056	Sulfate	33.0	mg/L	2.5	05/10/21 23:59	
EPA 6010	Calcium	29.1	mg/L	1.0	05/10/21 10:19	
EPA 6020	Barium	0.0050	mg/L	0.0010	05/04/21 14:04	
SM 2540C	Total Dissolved Solids	112	mg/L	10.0	05/03/21 12:17	
SM 4500-H+B	pH at 25 Degrees C	8.0	Std. Units	0.10	04/29/21 15:33	H3
50285964007	GAMW-46B-042721					
EPA 9056	Chloride	5.5	mg/L	0.25	05/11/21 00:29	
EPA 9056	Fluoride	0.077	mg/L	0.050	05/11/21 00:29	
EPA 9056	Sulfate	61.6	mg/L	2.5	05/11/21 00:45	
EPA 6010	Calcium	54.3	mg/L	1.0	05/10/21 10:21	
EPA 6020	Barium	0.025	mg/L	0.0010	05/04/21 14:09	

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SUMMARY OF DETECTION

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50285964007	GAMW-46B-042721					
EPA 6020	Molybdenum	0.0018	mg/L	0.0010	05/04/21 14:09	
SM 2540C	Total Dissolved Solids	190	mg/L	10.0	05/03/21 12:18	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	04/29/21 15:36	H3

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PROJECT NARRATIVE

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Method: EPA 9056

Description: 9056 IC Anions

Client: NiSource_Golder

Date: May 12, 2021

General Information:

15 samples were analyzed for EPA 9056 by Pace Analytical Services Indianapolis. 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.

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.

Surrogates:

All surrogates 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.

QC Batch: 619540

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50285740007

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 2854787)
 - Fluoride

QC Batch: 619881

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50285964007

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 2856820)
 - Sulfate
- MSD (Lab ID: 2856821)
 - Sulfate

Additional Comments:

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PROJECT NARRATIVE

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Method: EPA 9056

Description: 9056 IC Anions

Client: NiSource_Golder

Date: May 12, 2021

Analyte Comments:

QC Batch: 619540

P8: Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

- GAMW-58B-042321 (Lab ID: 50285740008)

- Sulfate

- MS (Lab ID: 2854787)

- Sulfate

- MSD (Lab ID: 2854788)

- Sulfate

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PROJECT NARRATIVE

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Method: EPA 6010

Description: 6010 MET ICP

Client: NiSource_Golder

Date: May 12, 2021

General Information:

15 samples were analyzed for EPA 6010 by Pace Analytical Services Indianapolis. 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 3010 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.

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: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Method: EPA 6020

Description: 6020 MET ICPMS

Client: NiSource_Golder

Date: May 12, 2021

General Information:

15 samples were analyzed for EPA 6020 by Pace Analytical Services Indianapolis. 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 200.2 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:

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PROJECT NARRATIVE

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Method: EPA 7470

Description: 7470 Mercury

Client: NiSource_Golder

Date: May 12, 2021

General Information:

15 samples were analyzed for EPA 7470 by Pace Analytical Services Indianapolis. 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 7470 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.

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: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: NiSource_Golder

Date: May 12, 2021

General Information:

15 samples were analyzed for SM 2540C by Pace Analytical Services Indianapolis. 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.

QC Batch: 618020

R1: RPD value was outside control limits.

- DUP (Lab ID: 2847481)
- Total Dissolved Solids

Additional Comments:

Analyte Comments:

QC Batch: 618470

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

- FB-05-042721 (Lab ID: 50285964003)
- Total Dissolved Solids

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PROJECT NARRATIVE

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: NiSource_Golder

Date: May 12, 2021

General Information:

15 samples were analyzed for SM 4500-H+B by Pace Analytical Services Indianapolis. 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.

H3: Sample was received or analysis requested beyond the recognized method holding time.

- FB-05-042721 (Lab ID: 50285964003)
- FD-05-042721 (Lab ID: 50285964002)
- GAMW-42-042321 (Lab ID: 50285740001)
- GAMW-42B-042321 (Lab ID: 50285740002)
- GAMW-42C-042321 (Lab ID: 50285740003)
- GAMW-43-042321 (Lab ID: 50285740004)
- GAMW-43B-042721 (Lab ID: 50285964001)
- GAMW-44-042721 (Lab ID: 50285964004)
- GAMW-44B-042721 (Lab ID: 50285964005)
- GAMW-46-042721 (Lab ID: 50285964006)
- GAMW-46B-042721 (Lab ID: 50285964007)
- GAMW-57-042321 (Lab ID: 50285740005)
- GAMW-57B-042321 (Lab ID: 50285740006)
- GAMW-58-042321 (Lab ID: 50285740007)
- GAMW-58B-042321 (Lab ID: 50285740008)

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:

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: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Sample: GAMW-42-042321		Lab ID: 50285740001		Collected: 04/23/21 11:05		Received: 04/24/21 11:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	4.2	mg/L	0.25	1		05/07/21 18:19	16887-00-6		
Fluoride	0.17	mg/L	0.050	1		05/07/21 18:19	16984-48-8		
Sulfate	29.9	mg/L	2.5	10		05/07/21 18:35	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	ND	mg/L	0.10	1	05/04/21 13:57	05/06/21 08:55	7440-42-8		
Calcium	47.1	mg/L	1.0	1	05/04/21 13:57	05/06/21 08:55	7440-70-2		
Lithium	ND	mg/L	0.0080	1	05/04/21 13:57	05/06/21 08:55	7439-93-2		
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:08	7440-36-0		
Arsenic	0.0012	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:08	7440-38-2		
Barium	0.018	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:08	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/03/21 09:10	05/04/21 12:08	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/03/21 09:10	05/04/21 12:08	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/03/21 09:10	05/04/21 12:08	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:08	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:08	7439-92-1		
Molybdenum	0.0022	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:08	7439-98-7		
Selenium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:08	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:08	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	05/05/21 13:05	05/05/21 19:43	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	148	mg/L	10.0	1		04/29/21 12:01			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.2	Std. Units	0.10	1		04/29/21 14:43		H3	

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Sample: GAMW-42B-042321		Lab ID: 50285740002		Collected: 04/23/21 13:00		Received: 04/24/21 11:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	8.6	mg/L	0.25	1		05/07/21 19:40	16887-00-6		
Fluoride	0.15	mg/L	0.050	1		05/07/21 19:40	16984-48-8		
Sulfate	37.7	mg/L	2.5	10		05/07/21 19:56	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	1	05/04/21 13:57	05/06/21 08:57	7440-42-8		
Calcium	57.9	mg/L	1.0	1	05/04/21 13:57	05/06/21 08:57	7440-70-2		
Lithium	ND	mg/L	0.0080	1	05/04/21 13:57	05/06/21 08:57	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:13	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:13	7440-38-2		
Barium	0.016	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:13	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/03/21 09:10	05/04/21 12:13	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/03/21 09:10	05/04/21 12:13	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/03/21 09:10	05/04/21 12:13	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:13	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:13	7439-92-1		
Molybdenum	0.0029	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:13	7439-98-7		
Selenium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:13	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:13	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	05/05/21 13:05	05/05/21 19:45	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	193	mg/L	10.0	1		04/29/21 12:02			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.5	Std. Units	0.10	1		04/29/21 14:45		H3	

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Sample: GAMW-42C-042321		Lab ID: 50285740003		Collected: 04/23/21 15:35		Received: 04/24/21 11:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	6.3	mg/L	0.25	1		05/07/21 20:29	16887-00-6		
Fluoride	0.20	mg/L	0.050	1		05/07/21 20:29	16984-48-8		
Sulfate	4.4	mg/L	0.25	1		05/07/21 20:29	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.69	mg/L	0.10	1	05/04/21 13:57	05/06/21 08:59	7440-42-8		
Calcium	48.6	mg/L	1.0	1	05/04/21 13:57	05/06/21 08:59	7440-70-2		
Lithium	0.032	mg/L	0.0080	1	05/04/21 13:57	05/06/21 08:59	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:27	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:27	7440-38-2		
Barium	0.0092	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:27	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/03/21 09:10	05/04/21 12:27	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/03/21 09:10	05/04/21 12:27	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/03/21 09:10	05/04/21 12:27	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:27	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:27	7439-92-1		
Molybdenum	0.0026	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:27	7439-98-7		
Selenium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:27	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:27	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	05/05/21 13:05	05/05/21 19:47	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	203	mg/L	10.0	1		04/29/21 12:02			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.3	Std. Units	0.10	1		04/29/21 14:47		H3	

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Sample: GAMW-43-042321		Lab ID: 50285740004		Collected: 04/23/21 15:40		Received: 04/24/21 11:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	0.53	mg/L	0.25	1		05/07/21 21:18	16887-00-6		
Fluoride	0.13	mg/L	0.050	1		05/07/21 21:18	16984-48-8		
Sulfate	30.0	mg/L	2.5	10		05/07/21 21:34	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	1	05/04/21 13:57	05/06/21 09:01	7440-42-8		
Calcium	28.0	mg/L	1.0	1	05/04/21 13:57	05/06/21 09:01	7440-70-2		
Lithium	ND	mg/L	0.0080	1	05/04/21 13:57	05/06/21 09:01	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:32	7440-36-0		
Arsenic	0.0016	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:32	7440-38-2		
Barium	0.019	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:32	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/03/21 09:10	05/04/21 12:32	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/03/21 09:10	05/04/21 12:32	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/03/21 09:10	05/04/21 12:32	7440-47-3		
Cobalt	0.0024	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:32	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:32	7439-92-1		
Molybdenum	0.0018	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:32	7439-98-7		
Selenium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:32	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:32	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	05/05/21 13:05	05/05/21 19:49	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	86	mg/L	10.0	1		04/29/21 12:03			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.3	Std. Units	0.10	1		04/29/21 14:48		H3	

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Sample: GAMW-57-042321		Lab ID: 50285740005		Collected: 04/23/21 13:40		Received: 04/24/21 11:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	1.6	mg/L	0.25	1		05/07/21 22:39	16887-00-6		
Fluoride	ND	mg/L	0.050	1		05/07/21 22:39	16984-48-8		
Sulfate	38.0	mg/L	2.5	10		05/07/21 22:56	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	ND	mg/L	0.10	1	05/04/21 13:57	05/06/21 09:03	7440-42-8		
Calcium	13.9	mg/L	1.0	1	05/04/21 13:57	05/06/21 09:03	7440-70-2		
Lithium	ND	mg/L	0.0080	1	05/04/21 13:57	05/06/21 09:03	7439-93-2		
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:36	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:36	7440-38-2		
Barium	0.014	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:36	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/03/21 09:10	05/04/21 12:36	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/03/21 09:10	05/04/21 12:36	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/03/21 09:10	05/04/21 12:36	7440-47-3		
Cobalt	0.0014	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:36	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:36	7439-92-1		
Molybdenum	0.0011	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:36	7439-98-7		
Selenium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:36	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:36	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	05/05/21 13:05	05/05/21 19:51	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	58	mg/L	10.0	1		04/29/21 12:03			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.5	Std. Units	0.10	1		04/29/21 14:50		H3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Sample: GAMW-57B-042321		Lab ID: 50285740006		Collected: 04/23/21 12:35		Received: 04/24/21 11:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	11.2	mg/L	0.25	1		05/07/21 23:28	16887-00-6		
Fluoride	0.13	mg/L	0.050	1		05/07/21 23:28	16984-48-8		
Sulfate	19.1	mg/L	0.25	1		05/07/21 23:28	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	1	05/04/21 13:57	05/06/21 09:06	7440-42-8		
Calcium	43.1	mg/L	1.0	1	05/04/21 13:57	05/06/21 09:06	7440-70-2		
Lithium	ND	mg/L	0.0080	1	05/04/21 13:57	05/06/21 09:06	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:41	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:41	7440-38-2		
Barium	0.020	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:41	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/03/21 09:10	05/04/21 12:41	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/03/21 09:10	05/04/21 12:41	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/03/21 09:10	05/04/21 12:41	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:41	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:41	7439-92-1		
Molybdenum	0.0028	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:41	7439-98-7		
Selenium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:41	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:41	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	05/05/21 13:05	05/05/21 19:58	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	150	mg/L	10.0	1		04/29/21 12:04			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.6	Std. Units	0.10	1		04/29/21 14:52		H3	

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Sample: GAMW-58-042321		Lab ID: 50285740007		Collected: 04/23/21 10:10		Received: 04/24/21 11:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	0.95	mg/L	0.25	1		05/08/21 00:17	16887-00-6		
Fluoride	0.22	mg/L	0.050	1		05/08/21 00:17	16984-48-8		
Sulfate	45.0	mg/L	2.5	10		05/08/21 00:34	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	1	05/04/21 13:57	05/06/21 09:12	7440-42-8		
Calcium	7.3	mg/L	1.0	1	05/04/21 13:57	05/06/21 09:12	7440-70-2		
Lithium	ND	mg/L	0.0080	1	05/04/21 13:57	05/06/21 09:12	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:45	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:45	7440-38-2		
Barium	0.059	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:45	7440-39-3		
Beryllium	0.0012	mg/L	0.00020	1	05/03/21 09:10	05/04/21 12:45	7440-41-7		
Cadmium	0.00025	mg/L	0.00020	1	05/03/21 09:10	05/04/21 12:45	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/03/21 09:10	05/04/21 12:45	7440-47-3		
Cobalt	0.010	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:45	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:45	7439-92-1		
Molybdenum	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:45	7439-98-7		
Selenium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:45	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 12:45	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	05/05/21 13:05	05/05/21 20:00	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	44	mg/L	10.0	1		04/29/21 12:05			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	4.8	Std. Units	0.10	1		04/29/21 14:54		H3	

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Sample: GAMW-58B-042321		Lab ID: 50285740008		Collected: 04/23/21 11:30		Received: 04/24/21 11:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	3.6	mg/L	0.25	1		05/08/21 03:17	16887-00-6		
Fluoride	0.15	mg/L	0.050	1		05/08/21 03:17	16984-48-8		
Sulfate	24.9	mg/L	2.5	10		05/08/21 03:33	14808-79-8	P8	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	1	05/04/21 13:57	05/06/21 09:22	7440-42-8		
Calcium	37.8	mg/L	1.0	1	05/04/21 13:57	05/06/21 09:22	7440-70-2		
Lithium	ND	mg/L	0.0080	1	05/04/21 13:57	05/06/21 09:22	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:18	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:18	7440-38-2		
Barium	0.015	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:18	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/03/21 09:10	05/04/21 13:18	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/03/21 09:10	05/04/21 13:18	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/03/21 09:10	05/04/21 13:18	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:18	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:18	7439-92-1		
Molybdenum	0.0034	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:18	7439-98-7		
Selenium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:18	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:18	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	05/05/21 13:05	05/05/21 20:06	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	124	mg/L	10.0	1		04/29/21 12:05			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.7	Std. Units	0.10	1		04/29/21 14:59		H3	

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Sample: GAMW-43B-042721		Lab ID: 50285964001		Collected: 04/27/21 10:05		Received: 04/28/21 08:45		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions		Analytical Method: EPA 9056							
		Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL							
		Pace Analytical Services - Indianapolis							
Chloride	1.7	mg/L	0.25	1			05/10/21 19:22	16887-00-6	
Fluoride	0.19	mg/L	0.050	1			05/10/21 19:22	16984-48-8	
Sulfate	27.9	mg/L	2.5	10			05/10/21 19:37	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
		Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL							
		Pace Analytical Services - Indianapolis							
Boron	ND	mg/L	0.10	1	05/07/21 07:00		05/10/21 10:08	7440-42-8	
Calcium	40.4	mg/L	1.0	1	05/07/21 07:00		05/10/21 10:08	7440-70-2	
Lithium	ND	mg/L	0.0080	1	05/07/21 07:00		05/10/21 10:08	7439-93-2	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
		Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL							
		Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	05/03/21 09:10		05/04/21 13:32	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	05/03/21 09:10		05/04/21 13:32	7440-38-2	
Barium	0.011	mg/L	0.0010	1	05/03/21 09:10		05/04/21 13:32	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	05/03/21 09:10		05/04/21 13:32	7440-41-7	
Cadmium	ND	mg/L	0.00020	1	05/03/21 09:10		05/04/21 13:32	7440-43-9	
Chromium	ND	mg/L	0.0020	1	05/03/21 09:10		05/04/21 13:32	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	05/03/21 09:10		05/04/21 13:32	7440-48-4	
Lead	ND	mg/L	0.0010	1	05/03/21 09:10		05/04/21 13:32	7439-92-1	
Molybdenum	0.0021	mg/L	0.0010	1	05/03/21 09:10		05/04/21 13:32	7439-98-7	
Selenium	ND	mg/L	0.0010	1	05/03/21 09:10		05/04/21 13:32	7782-49-2	
Thallium	ND	mg/L	0.0010	1	05/03/21 09:10		05/04/21 13:32	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
		Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL							
		Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	05/10/21 07:21		05/10/21 17:54	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
		Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL							
		Pace Analytical Services - Indianapolis							
Total Dissolved Solids	151	mg/L	10.0	1			05/03/21 12:13		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
		Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	1			04/29/21 15:15		H3

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Sample: FD-05-042721		Lab ID: 50285964002		Collected: 04/27/21 12:00		Received: 04/28/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	1.7	mg/L	0.25	1		05/10/21 20:39	16887-00-6		
Fluoride	0.19	mg/L	0.050	1		05/10/21 20:39	16984-48-8		
Sulfate	28.9	mg/L	2.5	10		05/10/21 20:54	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	1	05/07/21 07:00	05/10/21 10:10	7440-42-8		
Calcium	41.2	mg/L	1.0	1	05/07/21 07:00	05/10/21 10:10	7440-70-2		
Lithium	ND	mg/L	0.0080	1	05/07/21 07:00	05/10/21 10:10	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:36	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:36	7440-38-2		
Barium	0.012	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:36	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/03/21 09:10	05/04/21 13:36	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/03/21 09:10	05/04/21 13:36	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/03/21 09:10	05/04/21 13:36	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:36	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:36	7439-92-1		
Molybdenum	0.0023	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:36	7439-98-7		
Selenium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:36	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:36	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	05/10/21 07:21	05/10/21 17:56	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	145	mg/L	10.0	1		05/03/21 12:14			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.6	Std. Units	0.10	1		04/29/21 15:18		H3	

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Sample: FB-05-042721		Lab ID: 50285964003		Collected: 04/27/21 12:30		Received: 04/28/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	ND	mg/L	0.25	1		05/10/21 21:25	16887-00-6		
Fluoride	ND	mg/L	0.050	1		05/10/21 21:25	16984-48-8		
Sulfate	ND	mg/L	0.25	1		05/10/21 21:25	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	ND	mg/L	0.10	1	05/07/21 07:00	05/10/21 10:12	7440-42-8		
Calcium	ND	mg/L	1.0	1	05/07/21 07:00	05/10/21 10:12	7440-70-2		
Lithium	ND	mg/L	0.0080	1	05/07/21 07:00	05/10/21 10:12	7439-93-2		
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:41	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:41	7440-38-2		
Barium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:41	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/03/21 09:10	05/04/21 13:41	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/03/21 09:10	05/04/21 13:41	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/03/21 09:10	05/04/21 13:41	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:41	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:41	7439-92-1		
Molybdenum	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:41	7439-98-7		
Selenium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:41	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:41	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	05/10/21 07:21	05/10/21 17:58	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	ND	mg/L	10.0	1		05/03/21 12:14		PL	
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.8	Std. Units	0.10	1		04/29/21 15:24		H3	

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Sample: GAMW-44-042721		Lab ID: 50285964004		Collected: 04/27/21 13:30		Received: 04/28/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	2.3	mg/L	0.25	1		05/10/21 21:40	16887-00-6		
Fluoride	0.19	mg/L	0.050	1		05/10/21 21:40	16984-48-8		
Sulfate	63.9	mg/L	2.5	10		05/10/21 21:56	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	1	05/07/21 07:00	05/10/21 10:14	7440-42-8		
Calcium	21.5	mg/L	1.0	1	05/07/21 07:00	05/10/21 10:14	7440-70-2		
Lithium	ND	mg/L	0.0080	1	05/07/21 07:00	05/10/21 10:14	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:46	7440-36-0		
Arsenic	0.095	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:46	7440-38-2		
Barium	0.018	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:46	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/03/21 09:10	05/04/21 13:46	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/03/21 09:10	05/04/21 13:46	7440-43-9		
Chromium	0.0034	mg/L	0.0020	1	05/03/21 09:10	05/04/21 13:46	7440-47-3		
Cobalt	0.0026	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:46	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:46	7439-92-1		
Molybdenum	0.0044	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:46	7439-98-7		
Selenium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:46	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:46	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	05/10/21 07:21	05/10/21 18:00	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	165	mg/L	10.0	1		05/03/21 12:15			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	6.4	Std. Units	0.10	1		04/29/21 15:27		H3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Sample: GAMW-44B-042721		Lab ID: 50285964005		Collected: 04/27/21 11:55		Received: 04/28/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	1.6	mg/L	0.25	1		05/10/21 22:26	16887-00-6		
Fluoride	0.14	mg/L	0.050	1		05/10/21 22:26	16984-48-8		
Sulfate	12.3	mg/L	0.25	1		05/10/21 22:26	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	1	05/07/21 07:00	05/10/21 10:17	7440-42-8		
Calcium	31.2	mg/L	1.0	1	05/07/21 07:00	05/10/21 10:17	7440-70-2		
Lithium	ND	mg/L	0.0080	1	05/07/21 07:00	05/10/21 10:17	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:50	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:50	7440-38-2		
Barium	0.0084	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:50	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/03/21 09:10	05/04/21 13:50	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/03/21 09:10	05/04/21 13:50	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/03/21 09:10	05/04/21 13:50	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:50	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:50	7439-92-1		
Molybdenum	0.0022	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:50	7439-98-7		
Selenium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:50	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 13:50	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	05/10/21 07:21	05/10/21 18:02	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	85	mg/L	10.0	1		05/03/21 12:16			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.8	Std. Units	0.10	1		04/29/21 15:30		H3	

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Sample: GAMW-46-042721		Lab ID: 50285964006		Collected: 04/27/21 15:25		Received: 04/28/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	2.1	mg/L	0.25	1		05/10/21 23:43	16887-00-6		
Fluoride	0.078	mg/L	0.050	1		05/10/21 23:43	16984-48-8		
Sulfate	33.0	mg/L	2.5	10		05/10/21 23:59	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	1	05/07/21 07:00	05/10/21 10:19	7440-42-8		
Calcium	29.1	mg/L	1.0	1	05/07/21 07:00	05/10/21 10:19	7440-70-2		
Lithium	ND	mg/L	0.0080	1	05/07/21 07:00	05/10/21 10:19	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 14:04	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 14:04	7440-38-2		
Barium	0.0050	mg/L	0.0010	1	05/03/21 09:10	05/04/21 14:04	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/03/21 09:10	05/04/21 14:04	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/03/21 09:10	05/04/21 14:04	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/03/21 09:10	05/04/21 14:04	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 14:04	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 14:04	7439-92-1		
Molybdenum	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 14:04	7439-98-7		
Selenium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 14:04	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 14:04	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	05/10/21 07:21	05/10/21 18:13	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	112	mg/L	10.0	1		05/03/21 12:17			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	8.0	Std. Units	0.10	1		04/29/21 15:33		H3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Sample: GAMW-46B-042721		Lab ID: 50285964007		Collected: 04/27/21 15:20		Received: 04/28/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	5.5	mg/L	0.25	1		05/11/21 00:29	16887-00-6		
Fluoride	0.077	mg/L	0.050	1		05/11/21 00:29	16984-48-8		
Sulfate	61.6	mg/L	2.5	10		05/11/21 00:45	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	1	05/07/21 07:00	05/10/21 10:21	7440-42-8		
Calcium	54.3	mg/L	1.0	1	05/07/21 07:00	05/10/21 10:21	7440-70-2		
Lithium	ND	mg/L	0.0080	1	05/07/21 07:00	05/10/21 10:21	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 14:09	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 14:09	7440-38-2		
Barium	0.025	mg/L	0.0010	1	05/03/21 09:10	05/04/21 14:09	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	05/03/21 09:10	05/04/21 14:09	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	05/03/21 09:10	05/04/21 14:09	7440-43-9		
Chromium	ND	mg/L	0.0020	1	05/03/21 09:10	05/04/21 14:09	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 14:09	7440-48-4		
Lead	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 14:09	7439-92-1		
Molybdenum	0.0018	mg/L	0.0010	1	05/03/21 09:10	05/04/21 14:09	7439-98-7		
Selenium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 14:09	7782-49-2		
Thallium	ND	mg/L	0.0010	1	05/03/21 09:10	05/04/21 14:09	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	05/10/21 07:21	05/10/21 18:15	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	190	mg/L	10.0	1		05/03/21 12:18			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.6	Std. Units	0.10	1		04/29/21 15:36		H3	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

QC Batch:	619540	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285740001, 50285740002, 50285740003, 50285740004, 50285740005, 50285740006, 50285740007, 50285740008		

METHOD BLANK: 2854785

Matrix: Water

Associated Lab Samples: 50285740001, 50285740002, 50285740003, 50285740004, 50285740005, 50285740006, 50285740007, 50285740008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	05/07/21 13:30	
Fluoride	mg/L	ND	0.050	05/07/21 13:30	
Sulfate	mg/L	ND	0.25	05/07/21 13:30	

LABORATORY CONTROL SAMPLE: 2854786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.1	90	80-120	
Fluoride	mg/L	0.5	0.47	95	80-120	
Sulfate	mg/L	2.5	2.3	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2854787 2854788

Parameter	Units	50285740007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	0.95	1.2	1.2	2.1	2.1	94	95	80-120	1	15	
Fluoride	mg/L	0.22	0.5	0.5	0.59	0.66	73	88	80-120	12	15	M0
Sulfate	mg/L	45.0	25	25	70.7	70.3	103	101	80-120	1	15	P8

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

QC Batch:	619881	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples: 50285964001, 50285964002, 50285964003, 50285964004, 50285964005, 50285964006, 50285964007			

METHOD BLANK: 2856818 Matrix: Water
Associated Lab Samples: 50285964001, 50285964002, 50285964003, 50285964004, 50285964005, 50285964006, 50285964007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	05/10/21 17:49	
Fluoride	mg/L	ND	0.050	05/10/21 17:49	
Sulfate	mg/L	ND	0.25	05/10/21 17:49	

LABORATORY CONTROL SAMPLE: 2856819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.3	102	80-120	
Fluoride	mg/L	0.5	0.55	110	80-120	
Sulfate	mg/L	2.5	2.6	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2856820 2856821

Parameter	Units	50285964007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.5	1.2	1.2	6.9	6.9	111	111	80-120	0	15	
Fluoride	mg/L	0.077	0.5	0.5	0.62	0.62	108	108	80-120	1	15	
Sulfate	mg/L	61.6	25	25	94.2	94.4	130	131	80-120	0	15	M0

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

QC Batch:	618884	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285740001, 50285740002, 50285740003, 50285740004, 50285740005, 50285740006, 50285740007, 50285740008		

METHOD BLANK:	2851489	Matrix:	Water
Associated Lab Samples:	50285740001, 50285740002, 50285740003, 50285740004, 50285740005, 50285740006, 50285740007, 50285740008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/05/21 19:39	

LABORATORY CONTROL SAMPLE: 2851490						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:					2851491	2851492							
Parameter	Units	50285740007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Mercury	ug/L	ND	5	5	4.9	4.9	98	99	75-125	1	20		

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

QC Batch:	619162	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285964001, 50285964002, 50285964003, 50285964004, 50285964005, 50285964006, 50285964007		

METHOD BLANK:	2852813	Matrix:	Water
Associated Lab Samples:	50285964001, 50285964002, 50285964003, 50285964004, 50285964005, 50285964006, 50285964007		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/10/21 17:43	

LABORATORY CONTROL SAMPLE:	2852814					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	2852815			2852816								
Parameter	Units	50285964005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.6	4.9	93	97	75-125	5	20	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

QC Batch:	617922	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285740001, 50285740002, 50285740003, 50285740004, 50285740005, 50285740006, 50285740007, 50285740008		

METHOD BLANK: 2847175

Matrix: Water

Associated Lab Samples: 50285740001, 50285740002, 50285740003, 50285740004, 50285740005, 50285740006, 50285740007, 50285740008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	05/06/21 08:21	
Calcium	mg/L	ND	1.0	05/06/21 08:21	
Lithium	mg/L	ND	0.0080	05/06/21 08:21	

LABORATORY CONTROL SAMPLE: 2847176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.99	99	80-120	
Calcium	mg/L	10	10.0	100	80-120	
Lithium	mg/L	1	0.99	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2847177 2847178

Parameter	Units	50285740007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	ND	1	1	1.0	1.0	99	99	75-125	1	20	
Calcium	mg/L	7.3	10	10	17.2	17.5	99	101	75-125	2	20	
Lithium	mg/L	ND	1	1	0.99	0.99	99	99	75-125	0	20	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

QC Batch:	618432	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50285964001, 50285964002, 50285964003, 50285964004, 50285964005, 50285964006, 50285964007

METHOD BLANK: 2849746

Matrix: Water

Associated Lab Samples: 50285964001, 50285964002, 50285964003, 50285964004, 50285964005, 50285964006, 50285964007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	05/10/21 09:29	
Calcium	mg/L	ND	1.0	05/10/21 09:29	
Lithium	mg/L	ND	0.0080	05/10/21 09:29	

LABORATORY CONTROL SAMPLE: 2849747

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.99	99	80-120	
Calcium	mg/L	10	11.8	118	80-120	
Lithium	mg/L	1	0.98	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2849748 2849749

Parameter	Units	50285927003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	ND	1	1	1.0	1.0	99	97	75-125	2	20	
Calcium	mg/L	20.6	10	10	31.4	30.6	108	100	75-125	3	20	
Lithium	mg/L	ND	1	1	0.99	0.97	99	97	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

QC Batch:	618388	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285740001, 50285740002, 50285740003, 50285740004, 50285740005, 50285740006, 50285740007, 50285740008, 50285964001, 50285964002, 50285964003, 50285964004, 50285964005, 50285964006, 50285964007		

METHOD BLANK: 2849641

Matrix: Water

Associated Lab Samples: 50285740001, 50285740002, 50285740003, 50285740004, 50285740005, 50285740006, 50285740007, 50285740008, 50285964001, 50285964002, 50285964003, 50285964004, 50285964005, 50285964006, 50285964007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	05/04/21 11:59	
Arsenic	mg/L	ND	0.0010	05/04/21 11:59	
Barium	mg/L	ND	0.0010	05/04/21 11:59	
Beryllium	mg/L	ND	0.00020	05/04/21 11:59	
Cadmium	mg/L	ND	0.00020	05/04/21 11:59	
Chromium	mg/L	ND	0.0020	05/04/21 11:59	
Cobalt	mg/L	ND	0.0010	05/04/21 11:59	
Lead	mg/L	ND	0.0010	05/04/21 11:59	
Molybdenum	mg/L	ND	0.0010	05/04/21 11:59	
Selenium	mg/L	ND	0.0010	05/04/21 11:59	
Thallium	mg/L	ND	0.0010	05/04/21 11:59	

LABORATORY CONTROL SAMPLE: 2849642

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.043	106	80-120	
Arsenic	mg/L	0.04	0.037	91	80-120	
Barium	mg/L	0.04	0.041	101	80-120	
Beryllium	mg/L	0.04	0.038	95	80-120	
Cadmium	mg/L	0.04	0.042	105	80-120	
Chromium	mg/L	0.04	0.041	102	80-120	
Cobalt	mg/L	0.04	0.043	107	80-120	
Lead	mg/L	0.04	0.043	106	80-120	
Molybdenum	mg/L	0.04	0.041	103	80-120	
Selenium	mg/L	0.04	0.038	94	80-120	
Thallium	mg/L	0.04	0.042	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2849643 2849644

Parameter	Units	50285740007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.04	0.04	0.041	0.042	103	106	75-125	3	20	
Arsenic	mg/L	ND	0.04	0.04	0.031	0.032	78	79	75-125	1	20	
Barium	mg/L	0.059	0.04	0.04	0.097	0.099	95	102	75-125	2	20	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2849643 2849644												
Parameter	Units	50285740007	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike Conc.	Spike Conc.								
Beryllium	mg/L	0.0012	0.04	0.04	0.038	0.039	93	94	75-125	1	20	
Cadmium	mg/L	0.00025	0.04	0.04	0.041	0.042	102	103	75-125	2	20	
Chromium	mg/L	ND	0.04	0.04	0.043	0.044	106	107	75-125	1	20	
Cobalt	mg/L	0.010	0.04	0.04	0.049	0.050	98	100	75-125	2	20	
Lead	mg/L	ND	0.04	0.04	0.042	0.043	103	105	75-125	1	20	
Molybdenum	mg/L	ND	0.04	0.04	0.033	0.033	81	83	75-125	2	20	IR
Selenium	mg/L	ND	0.04	0.04	0.033	0.033	81	82	75-125	1	20	
Thallium	mg/L	ND	0.04	0.04	0.041	0.042	102	104	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

QC Batch:	618020	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285740001, 50285740002, 50285740003, 50285740004, 50285740005, 50285740006, 50285740007, 50285740008		

METHOD BLANK:	2847478	Matrix:	Water
Associated Lab Samples:	50285740001, 50285740002, 50285740003, 50285740004, 50285740005, 50285740006, 50285740007, 50285740008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	04/29/21 12:00	

LABORATORY CONTROL SAMPLE: 2847479						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	263	88	80-120	

SAMPLE DUPLICATE: 2847480						
		50285740001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Total Dissolved Solids	mg/L	148	156	5	10	

SAMPLE DUPLICATE: 2847481						
Parameter	Units	50285740007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	44	50	13	10	R1

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

QC Batch:	618470	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50285964001, 50285964002, 50285964003, 50285964004, 50285964005, 50285964006, 50285964007		

METHOD BLANK:	2849846	Matrix:	Water
Associated Lab Samples:	50285964001, 50285964002, 50285964003, 50285964004, 50285964005, 50285964006, 50285964007		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/03/21 12:09	

LABORATORY CONTROL SAMPLE: 2849847						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	252	84	80-120	

SAMPLE DUPLICATE: 2849848						
Parameter	Units	50286258001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	462	456	1	10	

SAMPLE DUPLICATE: 2849849						
Parameter	Units	50286258002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	299	297	1	10	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

QC Batch: 618067

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50285740001, 50285740002, 50285740003, 50285740004, 50285740005, 50285740006, 50285740007, 50285740008

SAMPLE DUPLICATE: 2847696

Parameter	Units	50285918002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.7	7.7	0	2	H3

SAMPLE DUPLICATE: 2847697

Parameter	Units	50285740007 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	4.8	4.8	0	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

QC Batch:	618069	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50285964001, 50285964002, 50285964003, 50285964004, 50285964005, 50285964006, 50285964007

SAMPLE DUPLICATE: 2847700

Parameter	Units	50285964001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.6	0	2	H3

SAMPLE DUPLICATE: 2847701

Parameter	Units	50285992001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.9	6.9	1	2	H3

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3	Sample was received or analysis requested beyond the recognized method holding time.
IR	The internal standard recovery associated with this result exceeds the upper control limit. The reported result should be considered an estimated value.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
P8	Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.
PL	The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.
R1	RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50285740001	GAMW-42-042321	EPA 9056	619540		
50285740002	GAMW-42B-042321	EPA 9056	619540		
50285740003	GAMW-42C-042321	EPA 9056	619540		
50285740004	GAMW-43-042321	EPA 9056	619540		
50285740005	GAMW-57-042321	EPA 9056	619540		
50285740006	GAMW-57B-042321	EPA 9056	619540		
50285740007	GAMW-58-042321	EPA 9056	619540		
50285740008	GAMW-58B-042321	EPA 9056	619540		
50285964001	GAMW-43B-042721	EPA 9056	619881		
50285964002	FD-05-042721	EPA 9056	619881		
50285964003	FB-05-042721	EPA 9056	619881		
50285964004	GAMW-44-042721	EPA 9056	619881		
50285964005	GAMW-44B-042721	EPA 9056	619881		
50285964006	GAMW-46-042721	EPA 9056	619881		
50285964007	GAMW-46B-042721	EPA 9056	619881		
50285740001	GAMW-42-042321	EPA 3010	617922	EPA 6010	619178
50285740002	GAMW-42B-042321	EPA 3010	617922	EPA 6010	619178
50285740003	GAMW-42C-042321	EPA 3010	617922	EPA 6010	619178
50285740004	GAMW-43-042321	EPA 3010	617922	EPA 6010	619178
50285740005	GAMW-57-042321	EPA 3010	617922	EPA 6010	619178
50285740006	GAMW-57B-042321	EPA 3010	617922	EPA 6010	619178
50285740007	GAMW-58-042321	EPA 3010	617922	EPA 6010	619178
50285740008	GAMW-58B-042321	EPA 3010	617922	EPA 6010	619178
50285964001	GAMW-43B-042721	EPA 3010	618432	EPA 6010	619722
50285964002	FD-05-042721	EPA 3010	618432	EPA 6010	619722
50285964003	FB-05-042721	EPA 3010	618432	EPA 6010	619722
50285964004	GAMW-44-042721	EPA 3010	618432	EPA 6010	619722
50285964005	GAMW-44B-042721	EPA 3010	618432	EPA 6010	619722
50285964006	GAMW-46-042721	EPA 3010	618432	EPA 6010	619722
50285964007	GAMW-46B-042721	EPA 3010	618432	EPA 6010	619722
50285740001	GAMW-42-042321	EPA 200.2	618388	EPA 6020	618652
50285740002	GAMW-42B-042321	EPA 200.2	618388	EPA 6020	618652
50285740003	GAMW-42C-042321	EPA 200.2	618388	EPA 6020	618652
50285740004	GAMW-43-042321	EPA 200.2	618388	EPA 6020	618652
50285740005	GAMW-57-042321	EPA 200.2	618388	EPA 6020	618652
50285740006	GAMW-57B-042321	EPA 200.2	618388	EPA 6020	618652
50285740007	GAMW-58-042321	EPA 200.2	618388	EPA 6020	618652
50285740008	GAMW-58B-042321	EPA 200.2	618388	EPA 6020	618652
50285964001	GAMW-43B-042721	EPA 200.2	618388	EPA 6020	618652
50285964002	FD-05-042721	EPA 200.2	618388	EPA 6020	618652
50285964003	FB-05-042721	EPA 200.2	618388	EPA 6020	618652
50285964004	GAMW-44-042721	EPA 200.2	618388	EPA 6020	618652
50285964005	GAMW-44B-042721	EPA 200.2	618388	EPA 6020	618652
50285964006	GAMW-46-042721	EPA 200.2	618388	EPA 6020	618652
50285964007	GAMW-46B-042721	EPA 200.2	618388	EPA 6020	618652
50285740001	GAMW-42-042321	EPA 7470	618884	EPA 7470	619152

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Boundary Wells April 21

Pace Project No.: 50285740

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50285740002	GAMW-42B-042321	EPA 7470	618884	EPA 7470	619152
50285740003	GAMW-42C-042321	EPA 7470	618884	EPA 7470	619152
50285740004	GAMW-43-042321	EPA 7470	618884	EPA 7470	619152
50285740005	GAMW-57-042321	EPA 7470	618884	EPA 7470	619152
50285740006	GAMW-57B-042321	EPA 7470	618884	EPA 7470	619152
50285740007	GAMW-58-042321	EPA 7470	618884	EPA 7470	619152
50285740008	GAMW-58B-042321	EPA 7470	618884	EPA 7470	619152
50285964001	GAMW-43B-042721	EPA 7470	619162	EPA 7470	619901
50285964002	FD-05-042721	EPA 7470	619162	EPA 7470	619901
50285964003	FB-05-042721	EPA 7470	619162	EPA 7470	619901
50285964004	GAMW-44-042721	EPA 7470	619162	EPA 7470	619901
50285964005	GAMW-44B-042721	EPA 7470	619162	EPA 7470	619901
50285964006	GAMW-46-042721	EPA 7470	619162	EPA 7470	619901
50285964007	GAMW-46B-042721	EPA 7470	619162	EPA 7470	619901
50285740001	GAMW-42-042321	SM 2540C	618020		
50285740002	GAMW-42B-042321	SM 2540C	618020		
50285740003	GAMW-42C-042321	SM 2540C	618020		
50285740004	GAMW-43-042321	SM 2540C	618020		
50285740005	GAMW-57-042321	SM 2540C	618020		
50285740006	GAMW-57B-042321	SM 2540C	618020		
50285740007	GAMW-58-042321	SM 2540C	618020		
50285740008	GAMW-58B-042321	SM 2540C	618020		
50285964001	GAMW-43B-042721	SM 2540C	618470		
50285964002	FD-05-042721	SM 2540C	618470		
50285964003	FB-05-042721	SM 2540C	618470		
50285964004	GAMW-44-042721	SM 2540C	618470		
50285964005	GAMW-44B-042721	SM 2540C	618470		
50285964006	GAMW-46-042721	SM 2540C	618470		
50285964007	GAMW-46B-042721	SM 2540C	618470		
50285740001	GAMW-42-042321	SM 4500-H+B	618067		
50285740002	GAMW-42B-042321	SM 4500-H+B	618067		
50285740003	GAMW-42C-042321	SM 4500-H+B	618067		
50285740004	GAMW-43-042321	SM 4500-H+B	618067		
50285740005	GAMW-57-042321	SM 4500-H+B	618067		
50285740006	GAMW-57B-042321	SM 4500-H+B	618067		
50285740007	GAMW-58-042321	SM 4500-H+B	618067		
50285740008	GAMW-58B-042321	SM 4500-H+B	618067		
50285964001	GAMW-43B-042721	SM 4500-H+B	618069		
50285964002	FD-05-042721	SM 4500-H+B	618069		
50285964003	FB-05-042721	SM 4500-H+B	618069		
50285964004	GAMW-44-042721	SM 4500-H+B	618069		
50285964005	GAMW-44B-042721	SM 4500-H+B	618069		
50285964006	GAMW-46-042721	SM 4500-H+B	618069		
50285964007	GAMW-46B-042721	SM 4500-H+B	618069		

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CHAIN-OF-CUSTODY / Analytical Request
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant information must be recorded.

WO#: 50285740



50285740

Section A

Required Client Information:

Company: NiSource Golder
Address: 801 E. 86th Avenue
Merrillville, IN 46410
Email: jim_peace@golder.com
Phone: Fax:
Requested Due Date:

Section B

Required Project Information:

Report To: Jim Peace
Copy To: krysta_cione@golder.com,
danielle_sylvia@golder.com
Purchase Order #: 12747
Project Name: RMSGS Boundary Wells April 21
Project #:

Section C

Invoice Information:

Attention: Jeff Loewe U126177
Company Name: NIPSCO
Address:
Pace Quote:
Pace Project Manager: tina.sayer@pacelabs.com,
Pace Profile #: 9045-1

Regulatory Agency

State / Location

IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test Total metals ** Cl, F, SO4 by 9056 PH TDS	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)				
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other																
						DATE	TIME	DATE	TIME																										
1	GAMW-42-042321	WT				4/23/21	1105	3	2		1								X	X	X	X											001		
2	GAMW-42B-042321	WT					1300	3	2		1								X	X	X	X											002		
3	GAMW-42C-042321	WT					1535	3	2		1								X	X	X	X											003		
4	GAMW-43-042321	WT					1540	3	2		1								X	X	X	X											004		
5	GAMW-43B	WT																	X	X	X	X													
6	GAMW-44	WT																	X	X	X	X													
7	GAMW-44B	WT																	X	X	X	X													
8	GAMW-46	WT																	X	X	X	X													
9	GAMW-46B-042321	WT					1130												X	X	X	X													
10	GAMW-57-042321	WT				4/23/21	1310	3	2		1								X	X	X	X											005		
11	GAMW-57B-042321	WT					1235	3	2		1								X	X	X	X											006		
12	GAMW-58-042321	WT					1010	3	2		1								X	X	X	X											007		
ADDITIONAL COMMENTS						RELINQUISHED BY / AFFILIATION				DATE	TIME	ACCEPTED BY / AFFILIATION				DATE	TIME	SAMPLE CONDITION																	
**B,Ca,Li by 6010;						Katherine Bartels/Golder				4/23/21	1700	Fedex																							
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020						Fedex				4/24/21	1115	Daniel Pearson/Pace				4/24/21	1115	1.3	y	y	y														
Hg by 7470																																			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed:

4/23/21

TEMP in C

Received on

Ice

(Y/N)

Custody

Sealed

Cooler

(Y/N)

Samples

Impact

(Y/N)



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

Section A

Required Client Information:

Company: NiSource Golder
Address: 801 E 86th Avenue
Merrillville, IN 46410
Email: jim.peace@golder.com
Phone: (603)782-2433 Fax:
Requested Due Date:

Section B

Required Project Information:

Report To: Jim Peace
Copy To: Krysta Cione, Danielle Sylvia
Purchase Order #: 12747
Project Name: RMSGS Boundary Wells April 21
Project #:

Section C

Invoice Information:

Attention: Jeff Loewe U126177
Company Name: NIPSCO
Address:
Pace Quote:
Pace Project Manager: tina.sayer@pacelabs.com
Pace Profile #: 9045-1

Regulatory Agency

Storage Location

IN

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analyses Test Y/N	Total metals ** Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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13	GAMW-58B - 041321			WT				4/23/21	1130		32	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
**B,Ca,Li by 6010;	Katherine Bartels/Golder	4/23/21	1700	FEDEX			
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020	FEDEX	4/24/21	1115	Daniel Benson/Pace	4/24/21	1115	1.3 y y y
Hg by 7470							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 4/23/21

TEMP in C

Received on

Ice

(Y/N)

Custody

Sealed

Cooler

(Y/N)

Samples

Impact

(Y/N)



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents:

DMP 4/24/21 1305

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: 1.3/1.3

Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material:

☐ Bubble Wrap

☐ Bubble Bags

☒ None

☐ Other

6. Ice Type:

☒ Wet

☐ Blue

☐ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	☒		
Short Hold Time Analysis (48 hours or less)? Analysis:		☒	Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			☒
Custody Signatures Present?	☒		Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Containers Intact?:	☒		Headspace Wisconsin Sulfide?			☒
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID		☒	Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Extra labels on Terracore Vials? (soils only)		N/A	Trip Blank Present?		☒	
			Trip Blank Custody Seals?:			☒

COMMENTS:

BP2U received w/ a sample ID of GAMW-57 - missing collection date/time.

OK 4/26/21
TMS

Sample Line Item	WGfU	SBS DI BK Kit	R	DG9H VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	DG9T	AG0U	AG1H	AG1U	AG3S	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H				Matrix	pH <2	pH >9	pH >10
1																1	1	1									WT	✓		
2																↓	↓	↓									↓	↓		
3																↓	↓	↓									↓	↓		
4																↓	↓	↓									↓	↓		
5																														
6																														
7																														
8																														
9																1	1	1									WT	✓		
10																↓	↓	↓									↓	↓		
11																↓	↓	↓									↓	↓		
12																3	3	3									↓	↓		

Container Codes

Glass				Plastic / Misc.	
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass
DG9H	40mL HCl amber vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic
WGFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass		

BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Ac plastic

AF	Air Filter
C	Air Cassettes
R	Terra core kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

WT	Water
SL	Solid
NAL	Non-aqueous liquid
WP	Wipe



The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Invoice Information:

Company: NiSource_Golder	Report To: Jim Peace	Attention: Jeff Loewe U126177
Address: 801 E 95th Avenue	Copy To: Krysta Cione, Danielle Sylvia	Company Name: NIPSCO
Merrillville, IN 46410		Address:
Email: jim_peace@golder.com	Purchase Order #: 12747	Pace Quote:
Phone: (603)782-2433 Fax:	Project Name: RMSGS Boundary Wells April 21	Pace Project Manager: tina.sayer@pacelabs.com,
Requested Due Date:	Project #:	Pace Profile #: 9045-1

IN

[illegible]

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
**B,Ca,Li by 6010;	Katherine Bardsley/Golden	4/27/21	1700	FedEx			1.1 Y Y Y
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020	FedEx	4-28-21	8:45	Bailey & Co.	4-28-21	8:45	
Hg by 7470							

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples collected (Y/N)
PRINT Name of SAMPLER:	Bethel				
SIGNATURE of SAMPLER:	<i>[Signature]</i> DATE Signed: 4/27/21				

page 53 of 55



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: BC 13:56 4-28-21

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER _____

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: 11/1.1
Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☐ Bubble Wrap ☐ Bubble Bags

☒ None ☐ Other _____

6. Ice Type: ☒ Wet ☐ Blue ☐ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base pres. Have been <u>CHECKED?</u> : exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	✓		
Short Hold Time Analysis (48 hours or less)? Analysis:		✓	Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		✓	Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Custody Signatures Present?	✓		Headspace Wisconsin Sulfide?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)		✓	Trip Blank Custody Seals?:			✓

COMMENTS:

[illegible]

Container Codes

Glass			Plastic / Misc.		
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass
DG9H	40mL HCl amber vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic
WGFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass		

BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Ac plastic

AF	Air Filter
C	Air Cassettes
R	Terra core kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

WT	Water
SL	Solid
NAL	Non-aqueous liquid
WP	Wipe

June 14, 2021

Mr. Jim Peace
Golder
670 North Commercial Street
Suite 103
Manchester, NH 03101

RE: Project: RMSGS Assessment April 21
Pace Project No.: 50287525

Dear Mr. Peace:

Enclosed are the analytical results for sample(s) received by the laboratory on May 14, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,



Tina Sayer
tina.sayer@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Ms. Krysta Cione, Golder
Accounts Payable., NiSource
Ms. Danielle Sylvia, Golder



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: RMSGS Assessment April 21

Pace Project No.: 50287525

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: RMSGS Assessment April 21

Pace Project No.: 50287525

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50287525001	GAMW-13-041921	Water	04/19/21 14:45	05/14/21 11:10
50287525002	GAMW-13B-041921	Water	04/19/21 13:30	05/14/21 11:10
50287525003	GAMW-14-041921	Water	04/19/21 10:45	05/14/21 11:10
50287525004	GAMW-14B-041921	Water	04/19/21 09:00	05/14/21 11:10
50287525005	FD-03-041921	Water	04/19/21 12:00	05/14/21 11:10
50287525006	FB-02-041921	Water	04/19/21 10:27	05/14/21 11:10
50287525007	GAMW-54-041921	Water	04/19/21 11:25	05/14/21 11:10
50287525008	GAMW-54B-041921	Water	04/19/21 13:55	05/14/21 11:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment April 21

Pace Project No.: 50287525

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50287525001	GAMW-13-041921	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50287525002	GAMW-13B-041921	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50287525003	GAMW-14-041921	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50287525004	GAMW-14B-041921	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50287525005	FD-03-041921	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50287525006	FB-02-041921	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50287525007	GAMW-54-041921	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
50287525008	GAMW-54B-041921	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SUMMARY OF DETECTION

Project: RMSGS Assessment April 21

Pace Project No.: 50287525

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50287525001	GAMW-13-041921					
EPA 903.1	Radium-226	0.123 ± 0.382 (0.740) C:NA T:93%	pCi/L		06/10/21 14:06	
EPA 904.0	Radium-228	0.936 ± 0.485 (0.865) C:71% T:84%	pCi/L		06/10/21 10:58	
Total Radium Calculation	Total Radium	1.06 ± 0.867 (1.61)	pCi/L		06/14/21 09:03	
50287525002	GAMW-13B-041921					
EPA 903.1	Radium-226	0.208 ± 0.527 (0.978) C:NA T:92%	pCi/L		06/10/21 14:06	
EPA 904.0	Radium-228	0.612 ± 0.410 (0.782) C:73% T:89%	pCi/L		06/10/21 10:58	
Total Radium Calculation	Total Radium	0.820 ± 0.937 (1.76)	pCi/L		06/14/21 09:03	
50287525003	GAMW-14-041921					
EPA 903.1	Radium-226	-0.119 ± 0.403 (0.890) C:NA T:93%	pCi/L		06/10/21 14:06	
EPA 904.0	Radium-228	0.883 ± 0.446 (0.772) C:73% T:81%	pCi/L		06/10/21 10:58	
Total Radium Calculation	Total Radium	0.883 ± 0.849 (1.66)	pCi/L		06/14/21 09:03	
50287525004	GAMW-14B-041921					
EPA 903.1	Radium-226	0.544 ± 0.607 (0.987) C:NA T:102%	pCi/L		06/10/21 14:06	
EPA 904.0	Radium-228	1.31 ± 0.521 (0.815) C:77% T:80%	pCi/L		06/10/21 10:58	
Total Radium Calculation	Total Radium	1.85 ± 1.13 (1.80)	pCi/L		06/14/21 09:03	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment April 21

Pace Project No.: 50287525

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50287525005	FD-03-041921					
EPA 903.1	Radium-226	0.724 ± 0.675 (1.04) C:NA T:96%	pCi/L		06/10/21 14:06	
EPA 904.0	Radium-228	1.20 ± 0.474 (0.727) C:74% T:86%	pCi/L		06/10/21 10:58	
Total Radium Calculation	Total Radium	1.92 ± 1.15 (1.77)	pCi/L		06/14/21 09:03	
50287525006	FB-02-041921					
EPA 903.1	Radium-226	0.000 ± 0.559 (1.11) C:NA T:90%	pCi/L		06/10/21 14:06	
EPA 904.0	Radium-228	0.450 ± 0.341 (0.661) C:75% T:84%	pCi/L		06/10/21 10:59	
Total Radium Calculation	Total Radium	0.450 ± 0.900 (1.77)	pCi/L		06/14/21 09:03	
50287525007	GAMW-54-041921					
EPA 903.1	Radium-226	0.238 ± 0.437 (0.780) C:NA T:96%	pCi/L		06/10/21 14:06	
EPA 904.0	Radium-228	0.456 ± 0.378 (0.755) C:72% T:87%	pCi/L		06/10/21 10:59	
Total Radium Calculation	Total Radium	0.694 ± 0.815 (1.54)	pCi/L		06/14/21 09:03	
50287525008	GAMW-54B-041921					
EPA 903.1	Radium-226	0.525 ± 0.390 (0.487) C:NA T:108%	pCi/L		06/10/21 14:19	
EPA 904.0	Radium-228	0.902 ± 0.420 (0.717) C:77% T:90%	pCi/L		06/10/21 10:59	
Total Radium Calculation	Total Radium	1.43 ± 0.810 (1.20)	pCi/L		06/14/21 09:03	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: RMSGS Assessment April 21

Pace Project No.: 50287525

Method: EPA 903.1

Description: 903.1 Radium 226

Client: NiSource_Golder

Date: June 14, 2021

General Information:

8 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. 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: RMSGS Assessment April 21

Pace Project No.: 50287525

Method: EPA 904.0

Description: 904.0 Radium 228

Client: NiSource_Golder

Date: June 14, 2021

General Information:

8 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. 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: RMSGS Assessment April 21

Pace Project No.: 50287525

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: NiSource_Golder

Date: June 14, 2021

General Information:

8 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. 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:

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 - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50287525

Sample: GAMW-13-041921		Lab ID: 50287525001	Collected: 04/19/21 14:45	Received: 05/14/21 11:10	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	06/10/21 14:06	13982-63-3	
	EPA 903.1	0.123 ± 0.382 (0.740) C:NA T:93%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	06/10/21 10:58	15262-20-1	
	EPA 904.0	0.936 ± 0.485 (0.865) C:71% T:84%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	06/14/21 09:03	7440-14-4	
	Total Radium Calculation	1.06 ± 0.867 (1.61)					

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50287525

Sample: GAMW-13B-041921		Lab ID: 50287525002	Collected: 04/19/21 13:30	Received: 05/14/21 11:10	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	06/10/21 14:06	13982-63-3	
	EPA 903.1	0.208 ± 0.527 (0.978) C:NA T:92%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	06/10/21 10:58	15262-20-1	
	EPA 904.0	0.612 ± 0.410 (0.782) C:73% T:89%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	06/14/21 09:03	7440-14-4	
	Total Radium Calculation	0.820 ± 0.937 (1.76)					

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50287525

Sample: GAMW-14-041921		Lab ID: 50287525003	Collected: 04/19/21 10:45	Received: 05/14/21 11:10	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	-0.119 ± 0.403 (0.890) C:NA T:93%		pCi/L	06/10/21 14:06	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	0.883 ± 0.446 (0.772) C:73% T:81%		pCi/L	06/10/21 10:58	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	0.883 ± 0.849 (1.66)		pCi/L	06/14/21 09:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50287525

Sample: GAMW-14B-041921		Lab ID: 50287525004	Collected: 04/19/21 09:00	Received: 05/14/21 11:10	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	0.544 ± 0.607 (0.987) C:NA T:102%		pCi/L	06/10/21 14:06	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	1.31 ± 0.521 (0.815) C:77% T:80%		pCi/L	06/10/21 10:58	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	1.85 ± 1.13 (1.80)		pCi/L	06/14/21 09:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50287525

Sample: FD-03-041921		Lab ID: 50287525005	Collected: 04/19/21 12:00	Received: 05/14/21 11:10	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	06/10/21 14:06	13982-63-3	
	EPA 903.1	0.724 ± 0.675 (1.04) C:NA T:96%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	06/10/21 10:58	15262-20-1	
	EPA 904.0	1.20 ± 0.474 (0.727) C:74% T:86%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	06/14/21 09:03	7440-14-4	
	Total Radium Calculation	1.92 ± 1.15 (1.77)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50287525

Sample: FB-02-041921		Lab ID: 50287525006	Collected: 04/19/21 10:27	Received: 05/14/21 11:10	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	0.000 ± 0.559 (1.11) C:NA T:90%		pCi/L	06/10/21 14:06	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	0.450 ± 0.341 (0.661) C:75% T:84%		pCi/L	06/10/21 10:59	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	0.450 ± 0.900 (1.77)		pCi/L	06/14/21 09:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50287525

Sample: GAMW-54-041921		Lab ID: 50287525007	Collected: 04/19/21 11:25	Received: 05/14/21 11:10	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	0.238 ± 0.437 (0.780) C:NA T:96%		pCi/L	06/10/21 14:06	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	0.456 ± 0.378 (0.755) C:72% T:87%		pCi/L	06/10/21 10:59	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	0.694 ± 0.815 (1.54)		pCi/L	06/14/21 09:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50287525

Sample: GAMW-54B-041921		Lab ID: 50287525008	Collected: 04/19/21 13:55	Received: 05/14/21 11:10	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	06/10/21 14:19	13982-63-3	
	EPA 903.1	0.525 ± 0.390 (0.487) C:NA T:108%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	06/10/21 10:59	15262-20-1	
	EPA 904.0	0.902 ± 0.420 (0.717) C:77% T:90%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	06/14/21 09:03	7440-14-4	
	Total Radium Calculation	1.43 ± 0.810 (1.20)					

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50287525

QC Batch:	450381	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	50287525001, 50287525002, 50287525003, 50287525004, 50287525005, 50287525006, 50287525007, 50287525008		

METHOD BLANK:	2173647	Matrix:	Water
Associated Lab Samples:	50287525001, 50287525002, 50287525003, 50287525004, 50287525005, 50287525006, 50287525007, 50287525008		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0896 ± 0.248 (0.587) C:NA T:97%	pCi/L	06/10/21 14:06	

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 - RADIOCHEMISTRY

Project: RMSGS Assessment April 21

Pace Project No.: 50287525

QC Batch:	450379	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	50287525001, 50287525002, 50287525003, 50287525004, 50287525005, 50287525006, 50287525007, 50287525008		

METHOD BLANK:	2173642	Matrix:	Water

Associated Lab Samples: 50287525001, 50287525002, 50287525003, 50287525004, 50287525005, 50287525006, 50287525007, 50287525008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.566 ± 0.318 (0.567) C:76% T:96%	pCi/L	06/10/21 10:58	

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: RMSGS Assessment April 21

Pace Project No.: 50287525

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment April 21

Pace Project No.: 50287525

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50287525001	GAMW-13-041921	EPA 903.1	450381		
50287525002	GAMW-13B-041921	EPA 903.1	450381		
50287525003	GAMW-14-041921	EPA 903.1	450381		
50287525004	GAMW-14B-041921	EPA 903.1	450381		
50287525005	FD-03-041921	EPA 903.1	450381		
50287525006	FB-02-041921	EPA 903.1	450381		
50287525007	GAMW-54-041921	EPA 903.1	450381		
50287525008	GAMW-54B-041921	EPA 903.1	450381		
50287525001	GAMW-13-041921	EPA 904.0	450379		
50287525002	GAMW-13B-041921	EPA 904.0	450379		
50287525003	GAMW-14-041921	EPA 904.0	450379		
50287525004	GAMW-14B-041921	EPA 904.0	450379		
50287525005	FD-03-041921	EPA 904.0	450379		
50287525006	FB-02-041921	EPA 904.0	450379		
50287525007	GAMW-54-041921	EPA 904.0	450379		
50287525008	GAMW-54B-041921	EPA 904.0	450379		
50287525001	GAMW-13-041921	Total Radium Calculation	452243		
50287525002	GAMW-13B-041921	Total Radium Calculation	452243		
50287525003	GAMW-14-041921	Total Radium Calculation	452243		
50287525004	GAMW-14B-041921	Total Radium Calculation	452243		
50287525005	FD-03-041921	Total Radium Calculation	452243		
50287525006	FB-02-041921	Total Radium Calculation	452243		
50287525007	GAMW-54-041921	Total Radium Calculation	452243		
50287525008	GAMW-54B-041921	Total Radium Calculation	452243		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields

WO#: 50287525



50287525

Section A

Required Client Information:

Company: NiSource_Golder
Address: 801 E 86th Avenue
Aerilville, IN 46410
Email: jim_peace@golder.com
Phone: (603)782-2433 Fax:
Requested Due Date: 4/19/21

Section B

Required Project Information:

Report To: Jim Peace
Copy To: Krysta Cione, Danielle Sylvia
Purchase Order #: 12747
Project Name: RMSGS Assessment April 21
Project #:

Section C

Invoice Information:

Attention: Jeff Loewe U126177
Company Name: NIPSCO
Address:
Pace Quote:
Pace Project Manager: tina.sayer@pacelabs.com
Pace Profile #: 9045-3

Regulatory Agency

State / Location

IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test Radium 226+226 (sum)	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
*Sub RAD to Pace PA	Kristie Banters/Golder	4/19/21	1700	Fidex	5/14/21	0810	MS 5/14/21 N 167

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Initialed (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:					
Kristie Banters					
DATE Signed: 4/19/21					



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: MTW 5/14/21 1230

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER _____

2. Custody Seal on Cooler/Box Present: ☐ Yes ☒ No

(If yes) Seals Intact: ☐ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 123456 ABCDEF

4. Cooler Temperature: 17.1 / 16.7

Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☒ Bubble Wrap ☐ Bubble Bags

☐ None ☐ Other _____

6. Ice Type: ☐ Wet ☐ Blue ☒ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	☒		
Short Hold Time Analysis (48 hours or less)? Analysis:		☒	Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (Total/Amenable/Free Cyanide)			
Custody Signatures Present?	☒		Headspace Wisconsin Sulfide?			
Containers Intact?:	☒		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Trip Blank Present?			
Extra labels on Terracore Vials? (soils only)		☒	Trip Blank Custody Seals?:			

COMMENTS:

Container Codes

F-IN-Q-270-rev.12.11Aug2020

ATTACHMENT E

**September 2021 Laboratory
Analytical Reports**

September 28, 2021

Mr. Jim Peace
Golder
670 North Commercial Street
Suite 103
Manchester, NH 03101

RE: Project: RMSGS - Landfill CCR
Pace Project No.: 50297273

Dear Mr. Peace:

Enclosed are the analytical results for sample(s) received by the laboratory between September 11, 2021 and September 14, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Indianapolis

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

Sincerely,



Tina Sayer
tina.sayer@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Ms. Krysta Cione, Golder
Mr. Tom Haskins, Golder
Accounts Payable., NiSource
Ms. Danielle Sylvia, Golder



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50297273001	GAMW-20-091321	Water	09/13/21 15:40	09/14/21 08:50
50297273002	GAMW-24-091321	Water	09/13/21 10:45	09/14/21 08:50
50297273003	GAMW-24B-091321	Water	09/13/21 12:50	09/14/21 08:50
50297273004	GAMW-27B-091321	Water	09/13/21 13:50	09/14/21 08:50
50297273005	GAMW-38-091121	Water	09/11/21 11:15	09/14/21 08:50
50297273006	GAMW-38B-091121	Water	09/11/21 09:15	09/14/21 08:50
50297273007	GAMW-39-091121	Water	09/11/21 13:40	09/14/21 08:50
50297273008	GAMW-39B-091121	Water	09/11/21 12:45	09/14/21 08:50
50297273009	GAMW-40-091321	Water	09/13/21 10:25	09/14/21 08:50
50297273010	GAMW-40B-091321	Water	09/13/21 09:40	09/14/21 08:50
50297273011	GAMW-41-091321	Water	09/13/21 12:35	09/14/21 08:50
50297273012	GAMW-41B-091321	Water	09/13/21 11:40	09/14/21 08:50
50297273013	FD-02-091321	Water	09/13/21 12:00	09/14/21 08:50
50297273014	FB-02-091321	Water	09/13/21 13:55	09/14/21 08:50
50297273015	FD-01-091121	Water	09/11/21 12:00	09/14/21 08:50
50297273016	FB-01-091121	Water	09/11/21 09:20	09/14/21 08:50
50297127001	GAMW-25-091021	Water	09/10/21 11:44	09/11/21 09:25
50297127002	GAMW-25B-091021	Water	09/10/21 12:57	09/11/21 09:25
50297127003	GAMW-26-091021	Water	09/10/21 12:30	09/11/21 09:25
50297127004	GAMW-26B-091021	Water	09/10/21 14:45	09/11/21 09:25
50297127005	GAMW-27-091021	Water	09/10/21 14:10	09/11/21 09:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50297273001	GAMW-20-091321	EPA 9056	RID	3	PASI-I
		EPA 6010	JKP	2	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50297273002	GAMW-24-091321	EPA 9056	RID	3	PASI-I
		EPA 6010	JKP	2	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50297273003	GAMW-24B-091321	EPA 9056	RID	3	PASI-I
		EPA 6010	JKP	2	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50297273004	GAMW-27B-091321	EPA 9056	RID	3	PASI-I
		EPA 6010	JKP	2	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50297273005	GAMW-38-091121	EPA 9056	RID	3	PASI-I
		EPA 6010	JKP	2	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50297273006	GAMW-38B-091121	EPA 9056	RID	3	PASI-I
		EPA 6010	JKP	2	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50297273007	GAMW-39-091121	EPA 9056	RID	3	PASI-I
		EPA 6010	JKP	2	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50297273008	GAMW-39B-091121	EPA 9056	RID	3	PASI-I
		EPA 6010	JKP	2	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50297273009	GAMW-40-091321	EPA 9056	RID	3	PASI-I
		EPA 6010	JKP	2	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50297273010	GAMW-40B-091321	EPA 9056	RID	3	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50297273011	GAMW-41-091321	EPA 6010	JPk	2	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JPk	2	PASI-I
50297273012	GAMW-41B-091321	SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JPk	2	PASI-I
		SM 2540C	OAS	1	PASI-I
50297273013	FD-02-091321	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JPk	2	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50297273014	FB-02-091321	EPA 9056	RID	3	PASI-I
		EPA 6010	JPk	2	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
50297273015	FD-01-091121	EPA 6010	JPk	2	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JPk	2	PASI-I
50297273016	FB-01-091121	SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JPk	2	PASI-I
		SM 2540C	OAS	1	PASI-I
50297127001	GAMW-25-091021	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	KJE	2	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50297127002	GAMW-25B-091021	EPA 9056	RID	3	PASI-I
		EPA 6010	KJE	2	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
50297127003	GAMW-26-091021	EPA 6010	KJE	2	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	KJE	2	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50297127004	GAMW-26B-091021	SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	KJE	2	PASI-I
		SM 2540C	BSW	1	PASI-I
50297127005	GAMW-27-091021	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	KJE	2	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50297273001	GAMW-20-091321					
EPA 9056	Chloride	11.2	mg/L	0.25	09/22/21 16:15	
EPA 9056	Fluoride	0.22	mg/L	0.050	09/22/21 16:15	
EPA 9056	Sulfate	529	mg/L	25.0	09/21/21 15:12	
EPA 6010	Boron	3.7	mg/L	0.10	09/24/21 21:07	
EPA 6010	Calcium	249	mg/L	2.0	09/24/21 22:10	
SM 2540C	Total Dissolved Solids	1170	mg/L	20.0	09/15/21 06:59	
SM 4500-H+B	pH at 25 Degrees C	6.9	Std. Units	0.10	09/15/21 14:22	H3
50297273002	GAMW-24-091321					
EPA 9056	Chloride	22.0	mg/L	2.5	09/21/21 15:40	
EPA 9056	Fluoride	0.15	mg/L	0.050	09/22/21 16:29	
EPA 9056	Sulfate	69.6	mg/L	2.5	09/21/21 15:40	
EPA 6010	Calcium	86.8	mg/L	1.0	09/24/21 21:09	
SM 2540C	Total Dissolved Solids	349	mg/L	10.0	09/15/21 06:59	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	09/15/21 14:28	H3
50297273003	GAMW-24B-091321					
EPA 9056	Chloride	4.1	mg/L	0.25	09/22/21 16:43	
EPA 9056	Fluoride	0.19	mg/L	0.050	09/22/21 16:43	
EPA 9056	Sulfate	24.0	mg/L	2.5	09/21/21 16:50	
EPA 6010	Calcium	51.3	mg/L	1.0	09/24/21 21:11	
SM 2540C	Total Dissolved Solids	190	mg/L	10.0	09/15/21 06:59	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	09/15/21 14:30	H3
50297273004	GAMW-27B-091321					
EPA 9056	Chloride	438	mg/L	25.0	09/21/21 17:46	
EPA 9056	Sulfate	6530	mg/L	250	09/22/21 17:11	
EPA 6010	Boron	13.1	mg/L	0.10	09/24/21 21:22	
EPA 6010	Calcium	367	mg/L	5.0	09/24/21 22:12	
SM 2540C	Total Dissolved Solids	10800	mg/L	100	09/15/21 06:59	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	09/15/21 14:31	H3
50297273005	GAMW-38-091121					
EPA 9056	Chloride	4.2	mg/L	0.25	09/21/21 21:01	
EPA 9056	Fluoride	0.15	mg/L	0.050	09/21/21 21:01	
EPA 9056	Sulfate	164	mg/L	2.5	09/21/21 21:15	
EPA 6010	Boron	1.0	mg/L	0.10	09/24/21 21:29	
EPA 6010	Calcium	77.3	mg/L	1.0	09/24/21 21:29	
SM 2540C	Total Dissolved Solids	471	mg/L	10.0	09/15/21 06:49	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	09/15/21 14:32	H3
50297273006	GAMW-38B-091121					
EPA 9056	Chloride	39.9	mg/L	2.5	09/21/21 22:11	
EPA 9056	Sulfate	785	mg/L	25.0	09/22/21 17:39	
EPA 6010	Boron	6.9	mg/L	0.10	09/24/21 21:32	
EPA 6010	Calcium	268	mg/L	2.0	09/24/21 22:14	
SM 2540C	Total Dissolved Solids	1550	mg/L	20.0	09/15/21 06:49	
SM 4500-H+B	pH at 25 Degrees C	6.9	Std. Units	0.10	09/15/21 14:33	H3

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50297273007	GAMW-39-091121					
EPA 9056	Chloride	9.7	mg/L	0.25	09/21/21 22:25	
EPA 9056	Fluoride	0.12	mg/L	0.050	09/21/21 22:25	
EPA 9056	Sulfate	396	mg/L	25.0	09/22/21 18:20	
EPA 6010	Boron	1.4	mg/L	0.10	09/24/21 21:34	
EPA 6010	Calcium	162	mg/L	1.0	09/24/21 21:34	
SM 2540C	Total Dissolved Solids	865	mg/L	10.0	09/15/21 06:50	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	09/15/21 14:34	H3
50297273008	GAMW-39B-091121					
EPA 9056	Chloride	85.7	mg/L	2.5	09/22/21 19:02	
EPA 9056	Sulfate	1330	mg/L	25.0	09/22/21 19:15	
EPA 6010	Boron	9.8	mg/L	0.10	09/24/21 21:36	
EPA 6010	Calcium	443	mg/L	5.0	09/24/21 22:16	
SM 2540C	Total Dissolved Solids	2690	mg/L	40.0	09/15/21 06:50	
SM 4500-H+B	pH at 25 Degrees C	6.8	Std. Units	0.10	09/15/21 14:35	H3
50297273009	GAMW-40-091321					
EPA 9056	Chloride	11.8	mg/L	2.5	09/21/21 23:06	
EPA 9056	Fluoride	0.072	mg/L	0.050	09/21/21 22:53	
EPA 9056	Sulfate	501	mg/L	25.0	09/22/21 18:34	
EPA 6010	Boron	4.1	mg/L	0.10	09/24/21 21:38	
EPA 6010	Calcium	276	mg/L	2.0	09/24/21 22:22	
SM 2540C	Total Dissolved Solids	1550	mg/L	20.0	09/15/21 07:00	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	09/15/21 14:39	H3
50297273010	GAMW-40B-091321					
EPA 9056	Chloride	700	mg/L	25.0	09/22/21 19:29	
EPA 9056	Sulfate	6580	mg/L	250	09/22/21 19:43	
EPA 6010	Boron	29.9	mg/L	0.10	09/24/21 21:41	
EPA 6010	Calcium	195	mg/L	1.0	09/24/21 21:41	
SM 2540C	Total Dissolved Solids	11500	mg/L	333	09/15/21 07:00	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	09/15/21 14:40	H3
50297273011	GAMW-41-091321					
EPA 9056	Chloride	44.4	mg/L	2.5	09/22/21 00:02	
EPA 9056	Fluoride	0.33	mg/L	0.050	09/21/21 23:48	
EPA 9056	Sulfate	1750	mg/L	25.0	09/22/21 19:57	
EPA 6010	Boron	9.4	mg/L	0.10	09/24/21 21:43	
EPA 6010	Calcium	134	mg/L	1.0	09/24/21 21:43	
SM 2540C	Total Dissolved Solids	2750	mg/L	40.0	09/15/21 07:01	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	09/15/21 14:41	H3
50297273012	GAMW-41B-091321					
EPA 9056	Chloride	687	mg/L	25.0	09/22/21 20:11	
EPA 9056	Sulfate	6250	mg/L	250	09/24/21 01:10	
EPA 6010	Boron	28.8	mg/L	0.10	09/24/21 21:45	
EPA 6010	Calcium	231	mg/L	2.0	09/24/21 22:24	
SM 2540C	Total Dissolved Solids	10800	mg/L	200	09/15/21 07:01	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	09/15/21 14:42	H3

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50297273013	FD-02-091321					
EPA 9056	Chloride	21.6	mg/L	2.5	09/22/21 01:54	
EPA 9056	Fluoride	0.067	mg/L	0.050	09/22/21 01:40	
EPA 9056	Sulfate	70.0	mg/L	2.5	09/22/21 01:54	
EPA 6010	Boron	0.12	mg/L	0.10	09/24/21 21:48	
EPA 6010	Calcium	83.3	mg/L	1.0	09/24/21 21:48	
SM 2540C	Total Dissolved Solids	351	mg/L	10.0	09/15/21 07:01	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	09/15/21 14:43	H3
50297273014	FB-02-091321					
SM 4500-H+B	pH at 25 Degrees C	7.9	Std. Units	0.10	09/15/21 14:44	H3
50297273015	FD-01-091121					
EPA 9056	Chloride	37.4	mg/L	2.5	09/22/21 02:49	
EPA 9056	Sulfate	726	mg/L	25.0	09/24/21 01:24	
EPA 6010	Boron	6.9	mg/L	0.10	09/24/21 21:50	
EPA 6010	Calcium	274	mg/L	2.0	09/24/21 22:26	
SM 2540C	Total Dissolved Solids	1590	mg/L	20.0	09/15/21 06:50	
SM 4500-H+B	pH at 25 Degrees C	6.9	Std. Units	0.10	09/15/21 14:46	H3
50297273016	FB-01-091121					
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	09/15/21 14:49	H3
50297127001	GAMW-25-091021					
EPA 9056	Chloride	2.7	mg/L	0.25	09/20/21 20:58	
EPA 9056	Fluoride	1.2	mg/L	0.050	09/20/21 20:58	
EPA 9056	Sulfate	48.5	mg/L	2.5	09/20/21 21:12	
EPA 6010	Boron	0.15	mg/L	0.10	09/19/21 10:15	
EPA 6010	Calcium	72.5	mg/L	1.0	09/19/21 10:15	
SM 2540C	Total Dissolved Solids	329	mg/L	10.0	09/13/21 11:50	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	09/14/21 12:23	H3
50297127002	GAMW-25B-091021					
EPA 9056	Chloride	7.2	mg/L	0.25	09/21/21 04:10	
EPA 9056	Fluoride	0.13	mg/L	0.050	09/21/21 04:10	
EPA 9056	Sulfate	88.9	mg/L	2.5	09/21/21 04:24	
EPA 6010	Boron	0.13	mg/L	0.10	09/19/21 10:21	
EPA 6010	Calcium	97.4	mg/L	1.0	09/19/21 10:21	
SM 2540C	Total Dissolved Solids	417	mg/L	10.0	09/13/21 11:50	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	09/14/21 12:25	H3
50297127003	GAMW-26-091021					
EPA 9056	Chloride	4.2	mg/L	0.25	09/20/21 23:31	
EPA 9056	Fluoride	2.8	mg/L	0.050	09/20/21 23:31	
EPA 9056	Sulfate	80.2	mg/L	2.5	09/20/21 23:45	
EPA 6010	Boron	0.22	mg/L	0.10	09/19/21 10:23	
EPA 6010	Calcium	92.6	mg/L	1.0	09/19/21 10:23	
SM 2540C	Total Dissolved Solids	449	mg/L	10.0	09/13/21 11:51	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	09/14/21 12:26	H3

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50297127004	GAMW-26B-091021					
EPA 9056	Chloride	23.1	mg/L	2.5	09/21/21 00:27	
EPA 9056	Fluoride	0.11	mg/L	0.050	09/21/21 00:13	
EPA 9056	Sulfate	189	mg/L	2.5	09/21/21 00:27	
EPA 6010	Boron	0.21	mg/L	0.10	09/19/21 10:26	
EPA 6010	Calcium	103	mg/L	1.0	09/19/21 10:26	
SM 2540C	Total Dissolved Solids	624	mg/L	10.0	09/13/21 11:51	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	09/14/21 12:28	H3
50297127005	GAMW-27-091021					
EPA 9056	Chloride	14.2	mg/L	2.5	09/21/21 01:37	
EPA 9056	Fluoride	0.56	mg/L	0.050	09/21/21 01:23	
EPA 9056	Sulfate	756	mg/L	25.0	09/23/21 01:57	
EPA 6010	Boron	4.1	mg/L	0.10	09/19/21 10:28	
EPA 6010	Calcium	277	mg/L	2.0	09/19/21 10:38	
SM 2540C	Total Dissolved Solids	1400	mg/L	20.0	09/13/21 11:51	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	09/14/21 12:29	H3

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Method: EPA 9056

Description: 9056 IC Anions

Client: NiSource_Golder

Date: September 28, 2021

General Information:

21 samples were analyzed for EPA 9056 by Pace Analytical Services Indianapolis. 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.

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.

Surrogates:

All surrogates 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.

QC Batch: 640729

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50297127001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 2951173)
 - Fluoride
- MSD (Lab ID: 2951174)
 - Fluoride

QC Batch: 640731

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50297275001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 2951181)
 - Fluoride
- MSD (Lab ID: 2951182)
 - Fluoride

Additional Comments:

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PROJECT NARRATIVE

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Method: EPA 9056

Description: 9056 IC Anions

Client: NiSource_Golder

Date: September 28, 2021

Analyte Comments:

QC Batch: 640731

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- GAMW-39B-091121 (Lab ID: 50297273008)
- Fluoride

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PROJECT NARRATIVE

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Method: EPA 6010

Description: 6010 MET ICP

Client: NiSource_Golder

Date: September 28, 2021

General Information:

21 samples were analyzed for EPA 6010 by Pace Analytical Services Indianapolis. 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 3010 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.

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: 639678

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50296768001, 50297127001

P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

- MSD (Lab ID: 2945820)
- Calcium

Additional Comments:

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PROJECT NARRATIVE

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: NiSource_Golder

Date: September 28, 2021

General Information:

21 samples were analyzed for SM 2540C by Pace Analytical Services Indianapolis. 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:

Analyte Comments:

QC Batch: 640050

1d: The mass of dried residue obtained exceeded the test method requirements using the minimum amount of sample volume.

- DUP (Lab ID: 2947132)
- Total Dissolved Solids

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

- FB-01-091121 (Lab ID: 50297273016)
- Total Dissolved Solids

QC Batch: 640051

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

- FB-02-091321 (Lab ID: 50297273014)
- Total Dissolved Solids

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PROJECT NARRATIVE

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: NiSource_Golder

Date: September 28, 2021

General Information:

21 samples were analyzed for SM 4500-H+B by Pace Analytical Services Indianapolis. 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.

H3: Sample was received or analysis requested beyond the recognized method holding time.

- FB-01-091121 (Lab ID: 50297273016)
- FB-02-091321 (Lab ID: 50297273014)
- FD-01-091121 (Lab ID: 50297273015)
- FD-02-091321 (Lab ID: 50297273013)
- GAMW-20-091321 (Lab ID: 50297273001)
- GAMW-24-091321 (Lab ID: 50297273002)
- GAMW-24B-091321 (Lab ID: 50297273003)
- GAMW-25-091021 (Lab ID: 50297127001)
- GAMW-25B-091021 (Lab ID: 50297127002)
- GAMW-26-091021 (Lab ID: 50297127003)
- GAMW-26B-091021 (Lab ID: 50297127004)
- GAMW-27-091021 (Lab ID: 50297127005)
- GAMW-27B-091321 (Lab ID: 50297273004)
- GAMW-38-091121 (Lab ID: 50297273005)
- GAMW-38B-091121 (Lab ID: 50297273006)
- GAMW-39-091121 (Lab ID: 50297273007)
- GAMW-39B-091121 (Lab ID: 50297273008)
- GAMW-40-091321 (Lab ID: 50297273009)
- GAMW-40B-091321 (Lab ID: 50297273010)
- GAMW-41-091321 (Lab ID: 50297273011)
- GAMW-41B-091321 (Lab ID: 50297273012)

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: RMSGS - Landfill CCR

Pace Project No.: 50297273

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: NiSource_Golder

Date: September 28, 2021

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: RMSGS - Landfill CCR

Pace Project No.: 50297273

Sample: GAMW-20-091321		Lab ID: 50297273001		Collected: 09/13/21 15:40		Received: 09/14/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	11.2	mg/L	0.25	1		09/22/21 16:15	16887-00-6		
Fluoride	0.22	mg/L	0.050	1		09/22/21 16:15	16984-48-8		
Sulfate	529	mg/L	25.0	100		09/21/21 15:12	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	3.7	mg/L	0.10	1	09/20/21 07:03	09/24/21 21:07	7440-42-8		
Calcium	249	mg/L	2.0	2	09/20/21 07:03	09/24/21 22:10	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1170	mg/L	20.0	1		09/15/21 06:59			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.9	Std. Units	0.10	1		09/15/21 14:22		H3	

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ANALYTICAL RESULTS

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Sample: GAMW-24-091321		Lab ID: 50297273002		Collected: 09/13/21 10:45		Received: 09/14/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	22.0	mg/L	2.5	10		09/21/21 15:40	16887-00-6		
Fluoride	0.15	mg/L	0.050	1		09/22/21 16:29	16984-48-8		
Sulfate	69.6	mg/L	2.5	10		09/21/21 15:40	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	ND	mg/L	0.10	1	09/20/21 07:03	09/24/21 21:09	7440-42-8		
Calcium	86.8	mg/L	1.0	1	09/20/21 07:03	09/24/21 21:09	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	349	mg/L	10.0	1		09/15/21 06:59			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.3	Std. Units	0.10	1		09/15/21 14:28		H3	

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ANALYTICAL RESULTS

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Sample: GAMW-24B-091321		Lab ID: 50297273003		Collected: 09/13/21 12:50		Received: 09/14/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	4.1	mg/L	0.25	1		09/22/21 16:43	16887-00-6		
Fluoride	0.19	mg/L	0.050	1		09/22/21 16:43	16984-48-8		
Sulfate	24.0	mg/L	2.5	10		09/21/21 16:50	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	ND	mg/L	0.10	1	09/20/21 07:03	09/24/21 21:11	7440-42-8		
Calcium	51.3	mg/L	1.0	1	09/20/21 07:03	09/24/21 21:11	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	190	mg/L	10.0	1		09/15/21 06:59			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	1		09/15/21 14:30		H3	

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ANALYTICAL RESULTS

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Sample: GAMW-27B-091321		Lab ID: 50297273004		Collected: 09/13/21 13:50		Received: 09/14/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	438	mg/L	25.0	100		09/21/21 17:46	16887-00-6		
Fluoride	ND	mg/L	0.050	1		09/22/21 16:57	16984-48-8		
Sulfate	6530	mg/L	250	1000		09/22/21 17:11	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	13.1	mg/L	0.10	1	09/20/21 07:03	09/24/21 21:22	7440-42-8		
Calcium	367	mg/L	5.0	5	09/20/21 07:03	09/24/21 22:12	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 10 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	10800	mg/L	100	1		09/15/21 06:59			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.2	Std. Units	0.10	1		09/15/21 14:31		H3	

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ANALYTICAL RESULTS

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Sample: GAMW-38-091121		Lab ID: 50297273005		Collected: 09/11/21 11:15		Received: 09/14/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	4.2	mg/L	0.25	1		09/21/21 21:01	16887-00-6		
Fluoride	0.15	mg/L	0.050	1		09/21/21 21:01	16984-48-8		
Sulfate	164	mg/L	2.5	10		09/21/21 21:15	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	1.0	mg/L	0.10	1	09/20/21 07:03	09/24/21 21:29	7440-42-8		
Calcium	77.3	mg/L	1.0	1	09/20/21 07:03	09/24/21 21:29	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	471	mg/L	10.0	1		09/15/21 06:49			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.2	Std. Units	0.10	1		09/15/21 14:32		H3	

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ANALYTICAL RESULTS

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Sample: GAMW-38B-091121		Lab ID: 50297273006		Collected: 09/11/21 09:15		Received: 09/14/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	39.9	mg/L	2.5	10		09/21/21 22:11	16887-00-6		
Fluoride	ND	mg/L	0.050	1		09/21/21 21:57	16984-48-8		
Sulfate	785	mg/L	25.0	100		09/22/21 17:39	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	6.9	mg/L	0.10	1	09/20/21 07:03	09/24/21 21:32	7440-42-8		
Calcium	268	mg/L	2.0	2	09/20/21 07:03	09/24/21 22:14	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1550	mg/L	20.0	1		09/15/21 06:49			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.9	Std. Units	0.10	1		09/15/21 14:33		H3	

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ANALYTICAL RESULTS

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Sample: GAMW-39-091121		Lab ID: 50297273007		Collected: 09/11/21 13:40		Received: 09/14/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	9.7	mg/L	0.25	1		09/21/21 22:25	16887-00-6		
Fluoride	0.12	mg/L	0.050	1		09/21/21 22:25	16984-48-8		
Sulfate	396	mg/L	25.0	100		09/22/21 18:20	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	1.4	mg/L	0.10	1	09/20/21 07:03	09/24/21 21:34	7440-42-8		
Calcium	162	mg/L	1.0	1	09/20/21 07:03	09/24/21 21:34	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	865	mg/L	10.0	1		09/15/21 06:50			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.0	Std. Units	0.10	1		09/15/21 14:34		H3	

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ANALYTICAL RESULTS

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Sample: GAMW-39B-091121		Lab ID: 50297273008		Collected: 09/11/21 12:45		Received: 09/14/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	85.7	mg/L	2.5	10		09/22/21 19:02	16887-00-6	D3	
Fluoride	ND	mg/L	0.50	10		09/22/21 19:02	16984-48-8		
Sulfate	1330	mg/L	25.0	100		09/22/21 19:15	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	9.8	mg/L	0.10	1	09/20/21 07:03	09/24/21 21:36	7440-42-8		
Calcium	443	mg/L	5.0	5	09/20/21 07:03	09/24/21 22:16	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	2690	mg/L	40.0	1		09/15/21 06:50			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.8	Std. Units	0.10	1		09/15/21 14:35		H3	

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ANALYTICAL RESULTS

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Sample: GAMW-40-091321		Lab ID: 50297273009		Collected: 09/13/21 10:25		Received: 09/14/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	11.8	mg/L	2.5	10		09/21/21 23:06	16887-00-6		
Fluoride	0.072	mg/L	0.050	1		09/21/21 22:53	16984-48-8		
Sulfate	501	mg/L	25.0	100		09/22/21 18:34	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	4.1	mg/L	0.10	1	09/20/21 07:03	09/24/21 21:38	7440-42-8		
Calcium	276	mg/L	2.0	2	09/20/21 07:03	09/24/21 22:22	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1550	mg/L	20.0	1		09/15/21 07:00			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.1	Std. Units	0.10	1		09/15/21 14:39		H3	

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ANALYTICAL RESULTS

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Sample: GAMW-40B-091321		Lab ID: 50297273010		Collected: 09/13/21 09:40		Received: 09/14/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	700	mg/L	25.0	100		09/22/21 19:29	16887-00-6		
Fluoride	ND	mg/L	0.050	1		09/21/21 23:20	16984-48-8		
Sulfate	6580	mg/L	250	1000		09/22/21 19:43	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	29.9	mg/L	0.10	1	09/20/21 07:03	09/24/21 21:41	7440-42-8		
Calcium	195	mg/L	1.0	1	09/20/21 07:03	09/24/21 21:41	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 3 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	11500	mg/L	333	1		09/15/21 07:00			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	1		09/15/21 14:40		H3	

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ANALYTICAL RESULTS

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Sample: GAMW-41-091321		Lab ID: 50297273011		Collected: 09/13/21 12:35		Received: 09/14/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	44.4	mg/L	2.5	10		09/22/21 00:02	16887-00-6		
Fluoride	0.33	mg/L	0.050	1		09/21/21 23:48	16984-48-8		
Sulfate	1750	mg/L	25.0	100		09/22/21 19:57	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	9.4	mg/L	0.10	1	09/20/21 07:03	09/24/21 21:43	7440-42-8		
Calcium	134	mg/L	1.0	1	09/20/21 07:03	09/24/21 21:43	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	2750	mg/L	40.0	1		09/15/21 07:01			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	1		09/15/21 14:41		H3	

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ANALYTICAL RESULTS

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Sample: GAMW-41B-091321		Lab ID: 50297273012		Collected: 09/13/21 11:40		Received: 09/14/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	687	mg/L	25.0	100		09/22/21 20:11	16887-00-6		
Fluoride	ND	mg/L	0.050	1		09/22/21 01:12	16984-48-8		
Sulfate	6250	mg/L	250	1000		09/24/21 01:10	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	28.8	mg/L	0.10	1	09/20/21 07:03	09/24/21 21:45	7440-42-8		
Calcium	231	mg/L	2.0	2	09/20/21 07:03	09/24/21 22:24	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 5 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	10800	mg/L	200	1		09/15/21 07:01			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.7	Std. Units	0.10	1		09/15/21 14:42		H3	

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ANALYTICAL RESULTS

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Sample: FD-02-091321		Lab ID: 50297273013		Collected: 09/13/21 12:00		Received: 09/14/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	21.6	mg/L	2.5	10		09/22/21 01:54	16887-00-6		
Fluoride	0.067	mg/L	0.050	1		09/22/21 01:40	16984-48-8		
Sulfate	70.0	mg/L	2.5	10		09/22/21 01:54	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	0.12	mg/L	0.10	1	09/20/21 07:03	09/24/21 21:48	7440-42-8		
Calcium	83.3	mg/L	1.0	1	09/20/21 07:03	09/24/21 21:48	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	351	mg/L	10.0	1		09/15/21 07:01			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	1		09/15/21 14:43		H3	

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ANALYTICAL RESULTS

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Sample: FB-02-091321		Lab ID: 50297273014		Collected: 09/13/21 13:55		Received: 09/14/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056							
		Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL							
		Pace Analytical Services - Indianapolis							
Chloride	ND	mg/L	0.25	1		09/22/21 02:08	16887-00-6		
Fluoride	ND	mg/L	0.050	1		09/22/21 02:08	16984-48-8		
Sulfate	ND	mg/L	0.25	1		09/22/21 02:08	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
		Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL							
		Pace Analytical Services - Indianapolis							
Boron	ND	mg/L	0.10	1	09/20/21 07:03	09/24/21 21:57	7440-42-8		
Calcium	ND	mg/L	1.0	1	09/20/21 07:03	09/24/21 21:57	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
		Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL							
		Pace Analytical Services - Indianapolis							
Total Dissolved Solids	ND	mg/L	10.0	1		09/15/21 07:01		PL	
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
		Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.9	Std. Units	0.10	1		09/15/21 14:44		H3	

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ANALYTICAL RESULTS

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Sample: FD-01-091121		Lab ID: 50297273015		Collected: 09/11/21 12:00		Received: 09/14/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	37.4	mg/L	2.5	10		09/22/21 02:49	16887-00-6		
Fluoride	ND	mg/L	0.050	1		09/22/21 02:36	16984-48-8		
Sulfate	726	mg/L	25.0	100		09/24/21 01:24	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	6.9	mg/L	0.10	1	09/20/21 07:03	09/24/21 21:50	7440-42-8		
Calcium	274	mg/L	2.0	2	09/20/21 07:03	09/24/21 22:26	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1590	mg/L	20.0	1		09/15/21 06:50			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.9	Std. Units	0.10	1		09/15/21 14:46		H3	

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ANALYTICAL RESULTS

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Sample: FB-01-091121		Lab ID: 50297273016		Collected: 09/11/21 09:20		Received: 09/14/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056							
		Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL							
		Pace Analytical Services - Indianapolis							
Chloride	ND	mg/L	0.25	1		09/22/21 03:31	16887-00-6		
Fluoride	ND	mg/L	0.050	1		09/22/21 03:31	16984-48-8		
Sulfate	ND	mg/L	0.25	1		09/22/21 03:31	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
		Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL							
		Pace Analytical Services - Indianapolis							
Boron	ND	mg/L	0.10	1	09/20/21 07:03	09/24/21 21:59	7440-42-8		
Calcium	ND	mg/L	1.0	1	09/20/21 07:03	09/24/21 21:59	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
		Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL							
		Pace Analytical Services - Indianapolis							
Total Dissolved Solids	ND	mg/L	10.0	1		09/15/21 06:50		PL	
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
		Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	1		09/15/21 14:49		H3	

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ANALYTICAL RESULTS

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Sample: GAMW-25-091021		Lab ID: 50297127001		Collected: 09/10/21 11:44		Received: 09/11/21 09:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	2.7	mg/L	0.25	1		09/20/21 20:58	16887-00-6		
Fluoride	1.2	mg/L	0.050	1		09/20/21 20:58	16984-48-8		
Sulfate	48.5	mg/L	2.5	10		09/20/21 21:12	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	0.15	mg/L	0.10	1	09/16/21 14:06	09/19/21 10:15	7440-42-8		
Calcium	72.5	mg/L	1.0	1	09/16/21 14:06	09/19/21 10:15	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	329	mg/L	10.0	1		09/13/21 11:50			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.5	Std. Units	0.10	1		09/14/21 12:23		H3	

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ANALYTICAL RESULTS

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Sample: GAMW-25B-091021		Lab ID: 50297127002		Collected: 09/10/21 12:57		Received: 09/11/21 09:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	7.2	mg/L	0.25	1		09/21/21 04:10	16887-00-6		
Fluoride	0.13	mg/L	0.050	1		09/21/21 04:10	16984-48-8		
Sulfate	88.9	mg/L	2.5	10		09/21/21 04:24	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	0.13	mg/L	0.10	1	09/16/21 14:06	09/19/21 10:21	7440-42-8		
Calcium	97.4	mg/L	1.0	1	09/16/21 14:06	09/19/21 10:21	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	417	mg/L	10.0	1		09/13/21 11:50			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.1	Std. Units	0.10	1		09/14/21 12:25		H3	

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ANALYTICAL RESULTS

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Sample: GAMW-26-091021		Lab ID: 50297127003		Collected: 09/10/21 12:30		Received: 09/11/21 09:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	4.2	mg/L	0.25	1		09/20/21 23:31	16887-00-6		
Fluoride	2.8	mg/L	0.050	1		09/20/21 23:31	16984-48-8		
Sulfate	80.2	mg/L	2.5	10		09/20/21 23:45	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	0.22	mg/L	0.10	1	09/16/21 14:06	09/19/21 10:23	7440-42-8		
Calcium	92.6	mg/L	1.0	1	09/16/21 14:06	09/19/21 10:23	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	449	mg/L	10.0	1		09/13/21 11:51			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.2	Std. Units	0.10	1		09/14/21 12:26		H3	

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ANALYTICAL RESULTS

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Sample: GAMW-26B-091021		Lab ID: 50297127004		Collected: 09/10/21 14:45		Received: 09/11/21 09:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	23.1	mg/L	2.5	10		09/21/21 00:27	16887-00-6		
Fluoride	0.11	mg/L	0.050	1		09/21/21 00:13	16984-48-8		
Sulfate	189	mg/L	2.5	10		09/21/21 00:27	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	0.21	mg/L	0.10	1	09/16/21 14:06	09/19/21 10:26	7440-42-8		
Calcium	103	mg/L	1.0	1	09/16/21 14:06	09/19/21 10:26	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	624	mg/L	10.0	1		09/13/21 11:51			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.6	Std. Units	0.10	1		09/14/21 12:28		H3	

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ANALYTICAL RESULTS

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Sample: GAMW-27-091021		Lab ID: 50297127005		Collected: 09/10/21 14:10		Received: 09/11/21 09:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	14.2	mg/L	2.5	10		09/21/21 01:37	16887-00-6		
Fluoride	0.56	mg/L	0.050	1		09/21/21 01:23	16984-48-8		
Sulfate	756	mg/L	25.0	100		09/23/21 01:57	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	4.1	mg/L	0.10	1	09/16/21 14:06	09/19/21 10:28	7440-42-8		
Calcium	277	mg/L	2.0	2	09/16/21 14:06	09/19/21 10:38	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1400	mg/L	20.0	1		09/13/21 11:51			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	1		09/14/21 12:29		H3	

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QUALITY CONTROL DATA

Project: RMSGS - Landfill CCR
Pace Project No.: 50297273

QC Batch:	640729	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50297127001, 50297127002, 50297127003, 50297127004, 50297127005

METHOD BLANK: 2951171 Matrix: Water
Associated Lab Samples: 50297127001, 50297127002, 50297127003, 50297127004, 50297127005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	09/20/21 20:30	
Fluoride	mg/L	ND	0.050	09/20/21 20:30	
Sulfate	mg/L	ND	0.25	09/20/21 20:30	

LABORATORY CONTROL SAMPLE: 2951172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	98	80-120	
Fluoride	mg/L	0.5	0.47	94	80-120	
Sulfate	mg/L	2.5	2.5	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2951173 2951174

Parameter	Units	50297127001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.7	1.2	1.2	3.8	3.8	81	81	80-120	0	15	
Fluoride	mg/L	1.2	0.5	0.5	1.4	1.5	46	59	80-120	5	15	M0
Sulfate	mg/L	48.5	25	25	75.2	75.0	107	106	80-120	0	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: RMSGS - Landfill CCR
Pace Project No.: 50297273

QC Batch:	640731	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50297273001, 50297273002, 50297273003, 50297273004, 50297273005, 50297273006, 50297273007, 50297273008, 50297273009, 50297273010, 50297273011, 50297273012, 50297273013, 50297273014, 50297273015, 50297273016		

METHOD BLANK:	2951179	Matrix:	Water
Associated Lab Samples:	50297273001, 50297273002, 50297273003, 50297273004, 50297273005, 50297273006, 50297273007, 50297273008, 50297273009, 50297273010, 50297273011, 50297273012, 50297273013, 50297273014, 50297273015, 50297273016		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	09/21/21 14:03	
Fluoride	mg/L	ND	0.050	09/21/21 14:03	
Sulfate	mg/L	ND	0.25	09/21/21 14:03	

LABORATORY CONTROL SAMPLE: 2951180						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	98	80-120	
Fluoride	mg/L	0.5	0.47	94	80-120	
Sulfate	mg/L	2.5	2.5	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:					2951181		2951182						
Parameter	Units	50297275001	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual	
		Result	Spike Conc.	Spike Conc.									Result
Chloride	mg/L	147	125	125	267	267	96	96	80-120	0	15		
Fluoride	mg/L	ND	0.5	0.5	0.46	0.47	79	79	80-120	1	15	M0	
Sulfate	mg/L	47.7	25	25	72.5	72.4	99	99	80-120	0	15		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: RMSGS - Landfill CCR
Pace Project No.: 50297273

QC Batch: 639678 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50297127001, 50297127002, 50297127003, 50297127004, 50297127005

METHOD BLANK: 2945817 Matrix: Water
Associated Lab Samples: 50297127001, 50297127002, 50297127003, 50297127004, 50297127005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	09/19/21 09:46	
Calcium	mg/L	ND	1.0	09/19/21 09:46	

LABORATORY CONTROL SAMPLE: 2945818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.91	91	80-120	
Calcium	mg/L	10	9.9	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2945819 2945820

Parameter	Units	50296768001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.20	1	1	1.1	1.1	95	94	75-125	0	20	
Calcium	mg/L	97.9	10	10	106	105	84	72	75-125	1	20 P6	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2945821 2945822

Parameter	Units	50297127001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.15	1	1	1.1	1.1	92	94	75-125	2	20	
Calcium	mg/L	72.5	10	10	81.5	84.7	90	122	75-125	4	20	

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QUALITY CONTROL DATA

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

QC Batch:	640116	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50297273001, 50297273002, 50297273003, 50297273004, 50297273005, 50297273006, 50297273007, 50297273008, 50297273009, 50297273010, 50297273011, 50297273012, 50297273013, 50297273014, 50297273015, 50297273016		

METHOD BLANK: 2947442

Matrix: Water

Associated Lab Samples: 50297273001, 50297273002, 50297273003, 50297273004, 50297273005, 50297273006, 50297273007, 50297273008, 50297273009, 50297273010, 50297273011, 50297273012, 50297273013, 50297273014, 50297273015, 50297273016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	09/24/21 21:04	
Calcium	mg/L	ND	1.0	09/24/21 21:04	

LABORATORY CONTROL SAMPLE: 2947443

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	100	80-120	
Calcium	mg/L	5	5.1	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2947444 2947445

Parameter	Units	50297273003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	ND	1	1	1.1	1.1	104	103	75-125	1	20	
Calcium	mg/L	51.3	5	5	55.3	55.2	79	79	75-125	0	20	

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QUALITY CONTROL DATA

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

QC Batch:	639695	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples: 50297127001, 50297127002, 50297127003, 50297127004, 50297127005			

METHOD BLANK:	2945862	Matrix:	Water
Associated Lab Samples: 50297127001, 50297127002, 50297127003, 50297127004, 50297127005			

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/13/21 11:46	

LABORATORY CONTROL SAMPLE: 2945863						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	291	97	80-120	

SAMPLE DUPLICATE: 2945864						
Parameter	Units	50297127001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	329	325	1	10	

SAMPLE DUPLICATE: 2945948						
Parameter	Units	50297127002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	417	434	4	10	

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QUALITY CONTROL DATA

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

QC Batch:	640050	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50297273005, 50297273006, 50297273007, 50297273008, 50297273015, 50297273016

METHOD BLANK: 2947130 Matrix: Water

Associated Lab Samples: 50297273005, 50297273006, 50297273007, 50297273008, 50297273015, 50297273016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/15/21 06:48	

LABORATORY CONTROL SAMPLE: 2947131

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	281	94	80-120	

SAMPLE DUPLICATE: 2947132

Parameter	Units	50297192001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	130000	127000	3	10	1d

SAMPLE DUPLICATE: 2947133

Parameter	Units	50297262003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	549	542	1	10	

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QUALITY CONTROL DATA

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

QC Batch:	640051	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50297273001, 50297273002, 50297273003, 50297273004, 50297273009, 50297273010, 50297273011, 50297273012, 50297273013, 50297273014		

METHOD BLANK:	2947134	Matrix:	Water
Associated Lab Samples:	50297273001, 50297273002, 50297273003, 50297273004, 50297273009, 50297273010, 50297273011, 50297273012, 50297273013, 50297273014		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/15/21 06:57	

LABORATORY CONTROL SAMPLE:	2947135					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	286	95	80-120	

SAMPLE DUPLICATE:	2947136					
Parameter	Units	50297262004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	425	439	3	10	

SAMPLE DUPLICATE:	2947137					
Parameter	Units	50297262005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	429	432	1	10	

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QUALITY CONTROL DATA

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

QC Batch:	639877	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50297127001, 50297127002, 50297127003, 50297127004, 50297127005

SAMPLE DUPLICATE: 2946380

Parameter	Units	50296988001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.3	8.3	0	2	H3

SAMPLE DUPLICATE: 2946381

Parameter	Units	50297127001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.4	1	2	H3

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QUALITY CONTROL DATA

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

QC Batch:	640149	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50297273001, 50297273002, 50297273003, 50297273004, 50297273005, 50297273006, 50297273007, 50297273008, 50297273009, 50297273010, 50297273011, 50297273012, 50297273013, 50297273014, 50297273015, 50297273016		

SAMPLE DUPLICATE: 2947559

Parameter	Units	50297273001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.9	7.0	1	2	H3

SAMPLE DUPLICATE: 2947560

Parameter	Units	50297273008 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.8	6.9	1	2	H3

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QUALIFIERS

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	The mass of dried residue obtained exceeded the test method requirements using the minimum amount of sample volume.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H3	Sample was received or analysis requested beyond the recognized method holding time.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
PL	The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50297127001	GAMW-25-091021	EPA 9056	640729		
50297127002	GAMW-25B-091021	EPA 9056	640729		
50297127003	GAMW-26-091021	EPA 9056	640729		
50297127004	GAMW-26B-091021	EPA 9056	640729		
50297127005	GAMW-27-091021	EPA 9056	640729		
50297273001	GAMW-20-091321	EPA 9056	640731		
50297273002	GAMW-24-091321	EPA 9056	640731		
50297273003	GAMW-24B-091321	EPA 9056	640731		
50297273004	GAMW-27B-091321	EPA 9056	640731		
50297273005	GAMW-38-091121	EPA 9056	640731		
50297273006	GAMW-38B-091121	EPA 9056	640731		
50297273007	GAMW-39-091121	EPA 9056	640731		
50297273008	GAMW-39B-091121	EPA 9056	640731		
50297273009	GAMW-40-091321	EPA 9056	640731		
50297273010	GAMW-40B-091321	EPA 9056	640731		
50297273011	GAMW-41-091321	EPA 9056	640731		
50297273012	GAMW-41B-091321	EPA 9056	640731		
50297273013	FD-02-091321	EPA 9056	640731		
50297273014	FB-02-091321	EPA 9056	640731		
50297273015	FD-01-091121	EPA 9056	640731		
50297273016	FB-01-091121	EPA 9056	640731		
50297127001	GAMW-25-091021	EPA 3010	639678	EPA 6010	640672
50297127002	GAMW-25B-091021	EPA 3010	639678	EPA 6010	640672
50297127003	GAMW-26-091021	EPA 3010	639678	EPA 6010	640672
50297127004	GAMW-26B-091021	EPA 3010	639678	EPA 6010	640672
50297127005	GAMW-27-091021	EPA 3010	639678	EPA 6010	640672
50297273001	GAMW-20-091321	EPA 3010	640116	EPA 6010	641750
50297273002	GAMW-24-091321	EPA 3010	640116	EPA 6010	641750
50297273003	GAMW-24B-091321	EPA 3010	640116	EPA 6010	641750
50297273004	GAMW-27B-091321	EPA 3010	640116	EPA 6010	641750
50297273005	GAMW-38-091121	EPA 3010	640116	EPA 6010	641750
50297273006	GAMW-38B-091121	EPA 3010	640116	EPA 6010	641750
50297273007	GAMW-39-091121	EPA 3010	640116	EPA 6010	641750
50297273008	GAMW-39B-091121	EPA 3010	640116	EPA 6010	641750
50297273009	GAMW-40-091321	EPA 3010	640116	EPA 6010	641750
50297273010	GAMW-40B-091321	EPA 3010	640116	EPA 6010	641750
50297273011	GAMW-41-091321	EPA 3010	640116	EPA 6010	641750
50297273012	GAMW-41B-091321	EPA 3010	640116	EPA 6010	641750
50297273013	FD-02-091321	EPA 3010	640116	EPA 6010	641750
50297273014	FB-02-091321	EPA 3010	640116	EPA 6010	641750
50297273015	FD-01-091121	EPA 3010	640116	EPA 6010	641750
50297273016	FB-01-091121	EPA 3010	640116	EPA 6010	641750
50297127001	GAMW-25-091021	SM 2540C	639695		
50297127002	GAMW-25B-091021	SM 2540C	639695		
50297127003	GAMW-26-091021	SM 2540C	639695		
50297127004	GAMW-26B-091021	SM 2540C	639695		
50297127005	GAMW-27-091021	SM 2540C	639695		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS - Landfill CCR

Pace Project No.: 50297273

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50297273001	GAMW-20-091321	SM 2540C	640051		
50297273002	GAMW-24-091321	SM 2540C	640051		
50297273003	GAMW-24B-091321	SM 2540C	640051		
50297273004	GAMW-27B-091321	SM 2540C	640051		
50297273005	GAMW-38-091121	SM 2540C	640050		
50297273006	GAMW-38B-091121	SM 2540C	640050		
50297273007	GAMW-39-091121	SM 2540C	640050		
50297273008	GAMW-39B-091121	SM 2540C	640050		
50297273009	GAMW-40-091321	SM 2540C	640051		
50297273010	GAMW-40B-091321	SM 2540C	640051		
50297273011	GAMW-41-091321	SM 2540C	640051		
50297273012	GAMW-41B-091321	SM 2540C	640051		
50297273013	FD-02-091321	SM 2540C	640051		
50297273014	FB-02-091321	SM 2540C	640051		
50297273015	FD-01-091121	SM 2540C	640050		
50297273016	FB-01-091121	SM 2540C	640050		
50297127001	GAMW-25-091021	SM 4500-H+B	639877		
50297127002	GAMW-25B-091021	SM 4500-H+B	639877		
50297127003	GAMW-26-091021	SM 4500-H+B	639877		
50297127004	GAMW-26B-091021	SM 4500-H+B	639877		
50297127005	GAMW-27-091021	SM 4500-H+B	639877		
50297273001	GAMW-20-091321	SM 4500-H+B	640149		
50297273002	GAMW-24-091321	SM 4500-H+B	640149		
50297273003	GAMW-24B-091321	SM 4500-H+B	640149		
50297273004	GAMW-27B-091321	SM 4500-H+B	640149		
50297273005	GAMW-38-091121	SM 4500-H+B	640149		
50297273006	GAMW-38B-091121	SM 4500-H+B	640149		
50297273007	GAMW-39-091121	SM 4500-H+B	640149		
50297273008	GAMW-39B-091121	SM 4500-H+B	640149		
50297273009	GAMW-40-091321	SM 4500-H+B	640149		
50297273010	GAMW-40B-091321	SM 4500-H+B	640149		
50297273011	GAMW-41-091321	SM 4500-H+B	640149		
50297273012	GAMW-41B-091321	SM 4500-H+B	640149		
50297273013	FD-02-091321	SM 4500-H+B	640149		
50297273014	FB-02-091321	SM 4500-H+B	640149		
50297273015	FD-01-091121	SM 4500-H+B	640149		
50297273016	FB-01-091121	SM 4500-H+B	640149		

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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DAP 9/11/21 1010

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER _____

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: 0.6/0.6

Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☒ Bubble Wrap ☒ Bubble Bags

☐ None

☐ Other ZMLC

6. Ice Type: ☒ Wet ☐ Blue ☐ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis:		☒	Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	☒		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			☒
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Custody Signatures Present?	☒		Headspace Wisconsin Sulfide?			☒
Containers Intact?:	☒		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Trip Blank Present?		☒	
Extra labels on Terracore Vials? (soils only)		☒	Trip Blank Custody Seals?:			☒

COMMENTS:

Sample Container Count

SBS

DI

MeOH
(only)

BK

Kit

** Place a RED dot on containers
that are out of conformance **

COC Line Item	WGFU	R	DG9H VG9H	VOA MAL HS ($>6\text{mm}$)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit		Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZNAc pH >9	NaOH pH >10
1																														
2																														
3																														
4																	3	3	3								WT	✓		
5																	1	1	1											
6																	↓	↓	↓											
7																														
8																														
9																														
10																														
11																														
12																														

Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic		
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	Syringe Kit LL Cr+6 sampling kit	
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic		
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	AF	Air Filter
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	C	Air Cassettes
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	R	Terracore kit
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	U	Summa Can
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	ZPLC	Ziploc Bag
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered		
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	WT	Water
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic	SL	Solid
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic	NAL	OL Non-aqueous liquid Oil
				WP Wipe			

WO#: 50297273



50297273

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Required Client Information:

Company: NiSource_Golder
Address: 670 North Commercial Street Suite 103
Manchester, NH 03101
Email: jim_peace@golder.com
Phone: Fax:
Requested Due Date: standard

Required Project Information:

Report To: Jim Peace
Copy To: krysta_cione@golder.com,
danielle_sylvia@golder.com
Purchase Order #: PO12747
Project Name: RMSGS - Landfill CCR
Project #:

Section C

Invoice Information:

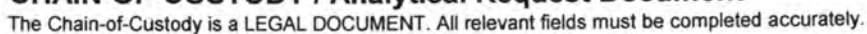
Attention: Jeff Loewe- U126177
Company Name: NIPSCO LLC
Address:
Pace Quote:
Pace Project Manager: tina.sayer@pacelabs.com,
Pace Profile #: 9045-4

Page :

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)		
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		Total B, Ca by 6010	Cl, F, SO4 by 9056	TDS	pH									
						DATE	TIME	DATE	TIME																								
1	GAMW-20 - 09/13/21	WT						9/13/21	1540	3	2	1							X	X	X	X									001		
2	GAMW-24 - 09/13/21	WT						9/13/21	1045	3	2	1							X	X	X	X									002		
3	GAMW-24B - 09/13/21	WT						9/13/21	1250	3	2	1							X	X	X	X									003		
4		WT																															
5		WT																															
6		WT																															
7		WT																															
8		WT																															
9	GAMW-27B - 09/13/21	WT						9/13/21	1350	3	2	1							X	X	X	X									004		
10	GAMW-38 - 09/11/21	WT						9/11/21	1115	3	2	1							X	X	X	X									005		
11	GAMW-38B - 09/11/21	WT						9/11/21	0915	3	2	1							X	X	X	X									006		
12	GAMW-39 - 09/11/21	WT						9/11/21	1340	3	2	1							X	X	X	X									007		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Level II report	<i>[Signature]</i>	9/13/21	1730	<i>[Signature]</i>						
							9/13/21	850	1.1	Y
									1.8	Y

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>[Signature]</i>					
SIGNATURE of SAMPLER:	DATE Signed: 9/13/21					



Page : _____ Of _____

Pace Profile #: 9045-4

IN

1.	Y	Y	Y
2.			

DATE Signed: 9/13/21

Samples
Contact



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: WS 9-14-21 ¹⁵²⁰

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER _____

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: 1.1/1.1, 1.8/1.8

Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☒ Bubble Wrap ☐ Bubble Bags

☐ None ☐ Other _____

6. Ice Type: ☒ Wet ☐ Blue ☐ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis:		☒	Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	☒		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			☒
Custody Signatures Present?	☒		Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Containers Intact?:	☒		Headspace Wisconsin Sulfide?	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Headspace in VOA Vials (>6mm): See Container Count form for details			☒
Extra labels on Terracore Vials? (soils only)		☒	Trip Blank Present?		☒	
			Trip Blank Custody Seals?:		☒	

COMMENTS:

Analyze all samples for B,Ca,Cl,F,SO4,TDS, and pH per K. Cione email. 09/15/21tms

Sample Container Count

SBS

DI

MeOH
(only)

BK

Kit

** Place a RED dot on containers
that are out of conformance **

COC Line Item	WGFU	R	DG9H VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit			Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZNAc pH >9	NaOH pH >10
1																	✓	✓	✓									✓	✓		
2																	✓	✓	✓									✓	✓		
3																	✓	✓	✓									✓	✓		
4																	✓	✓	✓									✓	✓		
5																	✓	✓	✓									✓	✓		
6																	✓	✓	✓									✓	✓		
7																	✓	✓	✓									✓	✓		
8																	✓	✓	✓									✓	✓		
9																	✓	✓	✓									✓	✓		
10																	✓	✓	✓									✓	✓		
11																	✓	✓	✓									✓	✓		
12																	✓	✓	✓									✓	✓		

Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Syringe Kit LL Cr+6 sampling kit	
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	C	Air Cassettes
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	R	Terracore kit
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	SP5T	120mL Coliform Na Thiosulfate
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	U	Summa Can
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	ZPLC	Ziploc Bag
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	WT	Water
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	NAL	Non-aqueous liquid Oil
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	WP	Wipe
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic		
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic		

Sample Container Count

SBS

DI

MeOH
(only)

BK

Kit

** Place a RED dot on containers
that are out of conformance **

COC Line Item	WGFU	R	DG9H VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit		Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZnAc pH >9	NaOH pH >10
1																	/	/	/								WT	✓		
2																	↕	↕	↕											
3																	↕	↕	↕											
4																	↕	↕	↕											
5																	↕	↕	↕											
6																														
7																	/	/	/								WT	✓		
8																	/	/	/											
9																	/	/	/								WT	✓		
10																														
11																														
12																														

Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Syringe Kit LL Cr+6 sampling kit	
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	C	Air Cassettes
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	R	Terracore kit
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	SP5T	120mL Coliform Na Thiosulfate
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	U	Summa Can
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	ZPLC	Ziploc Bag
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	WT	Water
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	NAL	OL Non-aqueous liquid Oil
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	WP	Wipe
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic		
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic		

Sample Container Count

SBS

DI

MeOH
(only)

BK

Kit

** Place a RED dot on containers
that are out of conformance **

COC Line Item	WGFI	R	DG9H VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit		Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZNAc pH >9	NaOH pH>10
1																														
2																														
3																														
4																														
5																														
6																	/	/	/								WT		✓	
7																														
8																	/	/	/								WT		✓	
9																														
10																														
11																														
12																														

Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Syringe Kit LL Cr+6 sampling kit	
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	C	Air Cassettes
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	R	Terracore kit
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	SP5T	120mL Coliform Na Thiosulfate
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	U	Summa Can
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	ZPLC	Ziploc Bag
WGFI	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	WT	Water
JGFI	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	NAL	OL Non-aqueous liquid Oil
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	WP	Wipe
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic		
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic		

September 29, 2021

Mr. Jim Peace
Golder
670 North Commercial Street
Suite 103
Manchester, NH 03101

RE: Project: RMSGS Boundary Wells Sept 21
Pace Project No.: 50297456

Dear Mr. Peace:

Enclosed are the analytical results for sample(s) received by the laboratory between September 15, 2021 and September 16, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Indianapolis

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

Sincerely,



Tina Sayer
tina.sayer@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Ms. Krysta Cione, Golder
Mr. Tom Haskins, Golder
Accounts Payable., NiSource
Ms. Danielle Sylvia, Golder



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50297456001	GAMW-58B-091521	Water	09/15/21 09:40	09/16/21 08:50
50297456002	FD-05-091521	Water	09/15/21 12:00	09/16/21 08:50
50297456003	FB-05-091521	Water	09/15/21 09:45	09/16/21 08:50
50297456004	GAMW-42-091421	Water	09/14/21 13:30	09/16/21 08:50
50297456005	GAMW-42C-091521	Water	09/15/21 11:45	09/16/21 08:50
50297456006	GAMW-44-091521	Water	09/15/21 14:40	09/16/21 08:50
50297456007	GAMW-044B-091521	Water	09/15/21 13:40	09/16/21 08:50
50297456008	GAMW-46-091521	Water	09/15/21 13:35	09/16/21 08:50
50297456009	GAMW-46B-091521	Water	09/15/21 15:00	09/16/21 08:50
50297456010	GAMW-57-091521	Water	09/15/21 12:40	09/16/21 08:50
50297456011	GAMW-57B-091521	Water	09/15/21 11:45	09/16/21 08:50
50297456012	GAMW-58-091521	Water	09/15/21 10:40	09/16/21 08:50
50297309002	GAMW-42B-091421	Water	09/14/21 14:20	09/15/21 09:15
50297309003	GAMW-43-091421	Water	09/14/21 13:55	09/15/21 09:15
50297309004	GAMW-43B-091421	Water	09/14/21 12:35	09/15/21 09:15

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50297456001	GAMW-58B-091521	EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50297456002	FD-05-091521	EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50297456003	FB-05-091521	EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50297456004	GAMW-42-091421	EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50297456005	GAMW-42C-091521	EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50297456006	GAMW-44-091521	EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50297456007	GAMW-044B-091521	EPA 9056	RID	3	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50297456008	GAMW-46-091521	EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	OAS	1	PASI-I
50297456009	GAMW-46B-091521	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
50297456010	GAMW-57-091521	EPA 7470	LBT	1	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
50297456011	GAMW-57B-091521	EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	OAS	1	PASI-I
50297456012	GAMW-58-091521	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	JDG	3	PASI-I
50297309002	GAMW-42B-091421	EPA 9056	RMR	3	PASI-I
		EPA 6010	JDG	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50297309003	GAMW-43-091421	EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50297309004	GAMW-43B-091421	EPA 9056	RMR	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

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SUMMARY OF DETECTION

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50297456001	GAMW-58B-091521					
EPA 9056	Chloride	4.0	mg/L	0.25	09/21/21 17:41	
EPA 9056	Fluoride	0.19	mg/L	0.050	09/21/21 17:41	
EPA 9056	Sulfate	23.6	mg/L	0.25	09/21/21 17:41	
EPA 6010	Calcium	38.6	mg/L	1.0	09/28/21 11:20	
EPA 6020	Barium	0.015	mg/L	0.0010	09/24/21 09:31	
EPA 6020	Molybdenum	0.0041	mg/L	0.0010	09/24/21 09:31	
SM 2540C	Total Dissolved Solids	161	mg/L	10.0	09/17/21 08:29	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	09/18/21 10:00	H3
50297456002	FD-05-091521					
EPA 9056	Chloride	2.1	mg/L	0.25	09/21/21 18:09	
EPA 9056	Fluoride	0.12	mg/L	0.050	09/21/21 18:09	
EPA 9056	Sulfate	32.1	mg/L	2.5	09/22/21 21:06	
EPA 6010	Calcium	29.2	mg/L	1.0	09/28/21 11:26	
EPA 6020	Barium	0.0044	mg/L	0.0010	09/24/21 09:36	
SM 2540C	Total Dissolved Solids	135	mg/L	10.0	09/17/21 08:29	
SM 4500-H+B	pH at 25 Degrees C	7.9	Std. Units	0.10	09/18/21 10:01	H3
50297456003	FB-05-091521					
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	09/18/21 10:02	H3
50297456004	GAMW-42-091421					
EPA 9056	Chloride	11.4	mg/L	0.25	09/21/21 18:37	
EPA 9056	Fluoride	0.19	mg/L	0.050	09/21/21 18:37	
EPA 9056	Sulfate	66.5	mg/L	2.5	09/21/21 18:51	
EPA 6010	Calcium	59.9	mg/L	1.0	09/28/21 11:30	
EPA 6020	Arsenic	0.0011	mg/L	0.0010	09/24/21 09:44	
EPA 6020	Barium	0.023	mg/L	0.0010	09/24/21 09:44	
EPA 6020	Molybdenum	0.0033	mg/L	0.0010	09/24/21 09:44	
SM 2540C	Total Dissolved Solids	253	mg/L	10.0	09/17/21 08:08	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	09/18/21 10:05	H3
50297456005	GAMW-42C-091521					
EPA 9056	Chloride	8.3	mg/L	0.25	09/21/21 19:04	
EPA 9056	Fluoride	0.22	mg/L	0.050	09/21/21 19:04	
EPA 9056	Sulfate	4.3	mg/L	0.25	09/21/21 19:04	
EPA 6010	Boron	0.62	mg/L	0.10	09/28/21 11:32	
EPA 6010	Calcium	53.9	mg/L	1.0	09/28/21 11:32	
EPA 6010	Lithium	0.024	mg/L	0.0080	09/28/21 11:32	
EPA 6020	Barium	0.0089	mg/L	0.0010	09/24/21 09:48	
EPA 6020	Molybdenum	0.0021	mg/L	0.0010	09/24/21 09:48	
SM 2540C	Total Dissolved Solids	254	mg/L	10.0	09/17/21 08:30	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	09/18/21 10:06	H3
50297456006	GAMW-44-091521					
EPA 9056	Chloride	1.7	mg/L	0.25	09/21/21 19:32	
EPA 9056	Fluoride	0.13	mg/L	0.050	09/21/21 19:32	
EPA 9056	Sulfate	44.8	mg/L	2.5	09/21/21 19:46	
EPA 6010	Calcium	20.2	mg/L	1.0	09/28/21 11:43	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50297456006	GAMW-44-091521					
EPA 6020	Arsenic	0.052	mg/L	0.0010	09/24/21 10:18	
EPA 6020	Barium	0.020	mg/L	0.0010	09/24/21 10:18	
EPA 6020	Cobalt	0.0029	mg/L	0.0010	09/24/21 10:18	
EPA 6020	Molybdenum	0.0040	mg/L	0.0010	09/24/21 10:18	
SM 2540C	Total Dissolved Solids	136	mg/L	10.0	09/17/21 08:30	
SM 4500-H+B	pH at 25 Degrees C	6.5	Std. Units	0.10	09/18/21 10:09	H3
50297456007	GAMW-044B-091521					
EPA 9056	Chloride	1.5	mg/L	0.25	09/21/21 20:28	
EPA 9056	Fluoride	0.18	mg/L	0.050	09/21/21 20:28	
EPA 9056	Sulfate	7.5	mg/L	0.25	09/21/21 20:28	
EPA 6010	Calcium	31.7	mg/L	1.0	09/28/21 11:45	
EPA 6020	Barium	0.0082	mg/L	0.0010	09/24/21 10:22	
EPA 6020	Molybdenum	0.0020	mg/L	0.0010	09/24/21 10:22	
SM 2540C	Total Dissolved Solids	113	mg/L	10.0	09/17/21 08:30	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	09/18/21 10:12	H3
50297456008	GAMW-46-091521					
EPA 9056	Chloride	2.1	mg/L	0.25	09/21/21 20:55	
EPA 9056	Fluoride	0.11	mg/L	0.050	09/21/21 20:55	
EPA 9056	Sulfate	31.8	mg/L	2.5	09/21/21 21:09	
EPA 6010	Calcium	29.3	mg/L	1.0	09/28/21 11:51	
EPA 6020	Barium	0.0044	mg/L	0.0010	09/24/21 10:35	
SM 2540C	Total Dissolved Solids	137	mg/L	10.0	09/17/21 08:30	
SM 4500-H+B	pH at 25 Degrees C	8.0	Std. Units	0.10	09/18/21 10:13	H3
50297456009	GAMW-46B-091521					
EPA 9056	Chloride	5.4	mg/L	0.25	09/21/21 21:23	
EPA 9056	Fluoride	0.12	mg/L	0.050	09/21/21 21:23	
EPA 9056	Sulfate	55.3	mg/L	2.5	09/21/21 21:37	
EPA 6010	Calcium	51.0	mg/L	1.0	09/28/21 11:53	
EPA 6020	Barium	0.023	mg/L	0.0010	09/24/21 10:39	
EPA 6020	Molybdenum	0.0018	mg/L	0.0010	09/24/21 10:39	
SM 2540C	Total Dissolved Solids	243	mg/L	10.0	09/17/21 08:30	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	09/18/21 10:17	H3
50297456010	GAMW-57-091521					
EPA 9056	Chloride	1.0	mg/L	0.25	09/21/21 21:51	
EPA 9056	Fluoride	0.073	mg/L	0.050	09/21/21 21:51	
EPA 9056	Sulfate	25.8	mg/L	2.5	09/21/21 22:05	
EPA 6010	Calcium	21.8	mg/L	1.0	09/28/21 11:55	
EPA 6020	Barium	0.0055	mg/L	0.0010	09/24/21 10:44	
EPA 6020	Molybdenum	0.0030	mg/L	0.0010	09/24/21 10:44	
SM 2540C	Total Dissolved Solids	101	mg/L	10.0	09/18/21 17:37	
SM 4500-H+B	pH at 25 Degrees C	8.0	Std. Units	0.10	09/18/21 10:18	H3
50297456011	GAMW-57B-091521					
EPA 9056	Chloride	12.4	mg/L	0.25	09/21/21 22:19	
EPA 9056	Fluoride	0.17	mg/L	0.050	09/21/21 22:19	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50297456011	GAMW-57B-091521					
EPA 9056	Sulfate	24.4	mg/L	0.25	09/21/21 22:19	
EPA 6010	Boron	0.13	mg/L	0.10	09/28/21 11:57	
EPA 6010	Calcium	47.5	mg/L	1.0	09/28/21 11:57	
EPA 6020	Barium	0.022	mg/L	0.0010	09/24/21 10:48	
EPA 6020	Molybdenum	0.0067	mg/L	0.0010	09/24/21 10:48	
SM 2540C	Total Dissolved Solids	205	mg/L	10.0	09/18/21 17:37	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	09/18/21 10:19	H3
50297456012	GAMW-58-091521					
EPA 9056	Chloride	1.1	mg/L	0.25	09/21/21 23:14	
EPA 9056	Fluoride	0.35	mg/L	0.050	09/21/21 23:14	
EPA 9056	Sulfate	38.9	mg/L	2.5	09/21/21 23:28	
EPA 6010	Calcium	10.9	mg/L	1.0	09/28/21 11:59	
EPA 6020	Barium	0.041	mg/L	0.0010	09/24/21 10:52	
EPA 6020	Beryllium	0.00075	mg/L	0.00020	09/24/21 10:52	
EPA 6020	Cobalt	0.0093	mg/L	0.0010	09/24/21 10:52	
EPA 6020	Selenium	0.0025	mg/L	0.0010	09/24/21 10:52	
SM 2540C	Total Dissolved Solids	82	mg/L	10.0	09/18/21 17:37	
SM 4500-H+B	pH at 25 Degrees C	6.6	Std. Units	0.10	09/18/21 10:24	H3
50297309002	GAMW-42B-091421					
EPA 9056	Chloride	10.3	mg/L	0.25	09/20/21 20:33	
EPA 9056	Fluoride	0.12	mg/L	0.050	09/20/21 20:33	
EPA 9056	Sulfate	31.8	mg/L	2.5	09/20/21 20:51	
EPA 6010	Calcium	62.6	mg/L	1.0	09/28/21 07:53	
EPA 6020	Barium	0.021	mg/L	0.0010	09/20/21 07:37	
EPA 6020	Molybdenum	0.0027	mg/L	0.0010	09/20/21 07:37	
SM 2540C	Total Dissolved Solids	241	mg/L	10.0	09/16/21 12:54	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	09/15/21 14:51	H3
50297309003	GAMW-43-091421					
EPA 9056	Chloride	0.85	mg/L	0.25	09/20/21 23:54	
EPA 9056	Fluoride	0.11	mg/L	0.050	09/20/21 23:54	
EPA 9056	Sulfate	28.4	mg/L	2.5	09/21/21 00:13	
EPA 6010	Calcium	32.6	mg/L	1.0	09/28/21 07:59	
EPA 6020	Arsenic	0.0028	mg/L	0.0010	09/20/21 07:41	
EPA 6020	Barium	0.026	mg/L	0.0010	09/20/21 07:41	
EPA 6020	Cobalt	0.0022	mg/L	0.0010	09/20/21 07:41	
EPA 6020	Molybdenum	0.0020	mg/L	0.0010	09/20/21 07:41	
SM 2540C	Total Dissolved Solids	137	mg/L	10.0	09/16/21 12:54	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	09/15/21 14:52	H3
50297309004	GAMW-43B-091421					
EPA 9056	Chloride	1.8	mg/L	0.25	09/21/21 01:26	
EPA 9056	Fluoride	0.15	mg/L	0.050	09/21/21 01:26	
EPA 9056	Sulfate	22.2	mg/L	0.25	09/21/21 01:26	
EPA 6010	Calcium	38.2	mg/L	1.0	09/28/21 08:01	
EPA 6020	Barium	0.011	mg/L	0.0010	09/20/21 07:45	
EPA 6020	Molybdenum	0.0024	mg/L	0.0010	09/20/21 07:45	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50297309004	GAMW-43B-091421					
SM 2540C	Total Dissolved Solids	137	mg/L	10.0	09/16/21 12:54	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	09/15/21 14:55	H3

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Method: EPA 9056

Description: 9056 IC Anions

Client: NiSource_Golder

Date: September 29, 2021

General Information:

15 samples were analyzed for EPA 9056 by Pace Analytical Services Indianapolis. 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.

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.

Surrogates:

All surrogates 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:

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PROJECT NARRATIVE

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Method: EPA 6010

Description: 6010 MET ICP

Client: NiSource_Golder

Date: September 29, 2021

General Information:

15 samples were analyzed for EPA 6010 by Pace Analytical Services Indianapolis. 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 3010 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.

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: 640356

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50297456005

P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

- MSD (Lab ID: 2948573)
- Calcium

Additional Comments:

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PROJECT NARRATIVE

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Method: EPA 6020

Description: 6020 MET ICPMS

Client: NiSource_Golder

Date: September 29, 2021

General Information:

15 samples were analyzed for EPA 6020 by Pace Analytical Services Indianapolis. 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 200.2 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: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Method: EPA 7470

Description: 7470 Mercury

Client: NiSource_Golder

Date: September 29, 2021

General Information:

15 samples were analyzed for EPA 7470 by Pace Analytical Services Indianapolis. 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 7470 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.

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: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: NiSource_Golder

Date: September 29, 2021

General Information:

15 samples were analyzed for SM 2540C by Pace Analytical Services Indianapolis. 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:

Analyte Comments:

QC Batch: 640471

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

- FB-05-091521 (Lab ID: 50297456003)
- Total Dissolved Solids

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: NiSource_Golder

Date: September 29, 2021

General Information:

15 samples were analyzed for SM 4500-H+B by Pace Analytical Services Indianapolis. 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.

H3: Sample was received or analysis requested beyond the recognized method holding time.

- FB-05-091521 (Lab ID: 50297456003)
- FD-05-091521 (Lab ID: 50297456002)
- GAMW-044B-091521 (Lab ID: 50297456007)
- GAMW-42-091421 (Lab ID: 50297456004)
- GAMW-42B-091421 (Lab ID: 50297309002)
- GAMW-42C-091521 (Lab ID: 50297456005)
- GAMW-43-091421 (Lab ID: 50297309003)
- GAMW-43B-091421 (Lab ID: 50297309004)
- GAMW-44-091521 (Lab ID: 50297456006)
- GAMW-46-091521 (Lab ID: 50297456008)
- GAMW-46B-091521 (Lab ID: 50297456009)
- GAMW-57-091521 (Lab ID: 50297456010)
- GAMW-57B-091521 (Lab ID: 50297456011)
- GAMW-58-091521 (Lab ID: 50297456012)
- GAMW-58B-091521 (Lab ID: 50297456001)

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:

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: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Sample: GAMW-58B-091521		Lab ID: 50297456001		Collected: 09/15/21 09:40		Received: 09/16/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	4.0	mg/L	0.25	1		09/21/21 17:41	16887-00-6		
Fluoride	0.19	mg/L	0.050	1		09/21/21 17:41	16984-48-8		
Sulfate	23.6	mg/L	0.25	1		09/21/21 17:41	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	1	09/21/21 12:57	09/28/21 11:20	7440-42-8		
Calcium	38.6	mg/L	1.0	1	09/21/21 12:57	09/28/21 11:20	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/21/21 12:57	09/28/21 11:20	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:31	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:31	7440-38-2		
Barium	0.015	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:31	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/22/21 08:44	09/24/21 09:31	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/22/21 08:44	09/24/21 09:31	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/22/21 08:44	09/24/21 09:31	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:31	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:31	7439-92-1		
Molybdenum	0.0041	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:31	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:31	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:31	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/28/21 14:17	09/28/21 22:46	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	161	mg/L	10.0	1		09/17/21 08:29			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.8	Std. Units	0.10	1		09/18/21 10:00		H3	

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Sample: FD-05-091521		Lab ID: 50297456002		Collected: 09/15/21 12:00		Received: 09/16/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	2.1	mg/L	0.25	1		09/21/21 18:09	16887-00-6		
Fluoride	0.12	mg/L	0.050	1		09/21/21 18:09	16984-48-8		
Sulfate	32.1	mg/L	2.5	10		09/22/21 21:06	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	1	09/21/21 12:57	09/28/21 11:26	7440-42-8		
Calcium	29.2	mg/L	1.0	1	09/21/21 12:57	09/28/21 11:26	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/21/21 12:57	09/28/21 11:26	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:36	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:36	7440-38-2		
Barium	0.0044	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:36	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/22/21 08:44	09/24/21 09:36	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/22/21 08:44	09/24/21 09:36	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/22/21 08:44	09/24/21 09:36	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:36	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:36	7439-92-1		
Molybdenum	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:36	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:36	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:36	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/28/21 14:17	09/28/21 22:49	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	135	mg/L	10.0	1		09/17/21 08:29			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.9	Std. Units	0.10	1		09/18/21 10:01		H3	

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Sample: FB-05-091521		Lab ID: 50297456003		Collected: 09/15/21 09:45		Received: 09/16/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	ND	mg/L	0.25	1		09/21/21 18:23	16887-00-6		
Fluoride	ND	mg/L	0.050	1		09/21/21 18:23	16984-48-8		
Sulfate	ND	mg/L	0.25	1		09/21/21 18:23	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	ND	mg/L	0.10	1	09/21/21 12:57	09/28/21 12:03	7440-42-8		
Calcium	ND	mg/L	1.0	1	09/21/21 12:57	09/28/21 12:03	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/21/21 12:57	09/28/21 12:03	7439-93-2		
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:40	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:40	7440-38-2		
Barium	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:40	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/22/21 08:44	09/24/21 09:40	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/22/21 08:44	09/24/21 09:40	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/22/21 08:44	09/24/21 09:40	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:40	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:40	7439-92-1		
Molybdenum	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:40	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:40	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:40	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	09/28/21 14:17	09/28/21 22:51	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	ND	mg/L	10.0	1		09/17/21 08:29		PL	
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.8	Std. Units	0.10	1		09/18/21 10:02		H3	

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Sample: GAMW-42-091421		Lab ID: 50297456004		Collected: 09/14/21 13:30		Received: 09/16/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	11.4	mg/L	0.25	1		09/21/21 18:37	16887-00-6		
Fluoride	0.19	mg/L	0.050	1		09/21/21 18:37	16984-48-8		
Sulfate	66.5	mg/L	2.5	10		09/21/21 18:51	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	ND	mg/L	0.10	1	09/21/21 12:57	09/28/21 11:30	7440-42-8		
Calcium	59.9	mg/L	1.0	1	09/21/21 12:57	09/28/21 11:30	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/21/21 12:57	09/28/21 11:30	7439-93-2		
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:44	7440-36-0		
Arsenic	0.0011	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:44	7440-38-2		
Barium	0.023	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:44	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/22/21 08:44	09/24/21 09:44	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/22/21 08:44	09/24/21 09:44	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/22/21 08:44	09/24/21 09:44	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:44	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:44	7439-92-1		
Molybdenum	0.0033	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:44	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:44	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:44	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	09/28/21 14:17	09/28/21 22:59	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	253	mg/L	10.0	1		09/17/21 08:08			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.4	Std. Units	0.10	1		09/18/21 10:05		H3	

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Sample: GAMW-42C-091521		Lab ID: 50297456005		Collected: 09/15/21 11:45		Received: 09/16/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	8.3	mg/L	0.25	1		09/21/21 19:04	16887-00-6		
Fluoride	0.22	mg/L	0.050	1		09/21/21 19:04	16984-48-8		
Sulfate	4.3	mg/L	0.25	1		09/21/21 19:04	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.62	mg/L	0.10	1	09/21/21 12:57	09/28/21 11:32	7440-42-8		
Calcium	53.9	mg/L	1.0	1	09/21/21 12:57	09/28/21 11:32	7440-70-2		
Lithium	0.024	mg/L	0.0080	1	09/21/21 12:57	09/28/21 11:32	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:48	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:48	7440-38-2		
Barium	0.0089	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:48	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/22/21 08:44	09/24/21 09:48	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/22/21 08:44	09/24/21 09:48	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/22/21 08:44	09/24/21 09:48	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:48	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:48	7439-92-1		
Molybdenum	0.0021	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:48	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:48	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 09:48	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/28/21 14:17	09/28/21 23:01	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	254	mg/L	10.0	1		09/17/21 08:30			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	1		09/18/21 10:06		H3	

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Sample: GAMW-44-091521		Lab ID: 50297456006		Collected: 09/15/21 14:40		Received: 09/16/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	1.7	mg/L	0.25	1		09/21/21 19:32	16887-00-6		
Fluoride	0.13	mg/L	0.050	1		09/21/21 19:32	16984-48-8		
Sulfate	44.8	mg/L	2.5	10		09/21/21 19:46	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	1	09/21/21 12:57	09/28/21 11:43	7440-42-8		
Calcium	20.2	mg/L	1.0	1	09/21/21 12:57	09/28/21 11:43	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/21/21 12:57	09/28/21 11:43	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:18	7440-36-0		
Arsenic	0.052	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:18	7440-38-2		
Barium	0.020	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:18	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/22/21 08:44	09/24/21 10:18	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/22/21 08:44	09/24/21 10:18	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/22/21 08:44	09/24/21 10:18	7440-47-3		
Cobalt	0.0029	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:18	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:18	7439-92-1		
Molybdenum	0.0040	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:18	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:18	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:18	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/28/21 14:17	09/28/21 23:08	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	136	mg/L	10.0	1		09/17/21 08:30			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	6.5	Std. Units	0.10	1		09/18/21 10:09		H3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Sample: GAMW-044B-091521		Lab ID: 50297456007		Collected: 09/15/21 13:40		Received: 09/16/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	1.5	mg/L	0.25	1		09/21/21 20:28	16887-00-6		
Fluoride	0.18	mg/L	0.050	1		09/21/21 20:28	16984-48-8		
Sulfate	7.5	mg/L	0.25	1		09/21/21 20:28	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	1	09/21/21 12:57	09/28/21 11:45	7440-42-8		
Calcium	31.7	mg/L	1.0	1	09/21/21 12:57	09/28/21 11:45	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/21/21 12:57	09/28/21 11:45	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:22	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:22	7440-38-2		
Barium	0.0082	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:22	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/22/21 08:44	09/24/21 10:22	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/22/21 08:44	09/24/21 10:22	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/22/21 08:44	09/24/21 10:22	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:22	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:22	7439-92-1		
Molybdenum	0.0020	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:22	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:22	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:22	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/28/21 14:17	09/28/21 23:11	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	113	mg/L	10.0	1		09/17/21 08:30			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.7	Std. Units	0.10	1		09/18/21 10:12		H3	

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Sample: GAMW-46-091521		Lab ID: 50297456008		Collected: 09/15/21 13:35		Received: 09/16/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	2.1	mg/L	0.25	1		09/21/21 20:55	16887-00-6		
Fluoride	0.11	mg/L	0.050	1		09/21/21 20:55	16984-48-8		
Sulfate	31.8	mg/L	2.5	10		09/21/21 21:09	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	ND	mg/L	0.10	1	09/21/21 12:57	09/28/21 11:51	7440-42-8		
Calcium	29.3	mg/L	1.0	1	09/21/21 12:57	09/28/21 11:51	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/21/21 12:57	09/28/21 11:51	7439-93-2		
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:35	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:35	7440-38-2		
Barium	0.0044	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:35	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/22/21 08:44	09/24/21 10:35	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/22/21 08:44	09/24/21 10:35	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/22/21 08:44	09/24/21 10:35	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:35	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:35	7439-92-1		
Molybdenum	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:35	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:35	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:35	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	09/28/21 14:17	09/28/21 23:13	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	137	mg/L	10.0	1		09/17/21 08:30			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.0	Std. Units	0.10	1		09/18/21 10:13		H3	

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Sample: GAMW-46B-091521		Lab ID: 50297456009		Collected: 09/15/21 15:00		Received: 09/16/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	5.4	mg/L	0.25	1		09/21/21 21:23	16887-00-6		
Fluoride	0.12	mg/L	0.050	1		09/21/21 21:23	16984-48-8		
Sulfate	55.3	mg/L	2.5	10		09/21/21 21:37	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	ND	mg/L	0.10	1	09/21/21 12:57	09/28/21 11:53	7440-42-8		
Calcium	51.0	mg/L	1.0	1	09/21/21 12:57	09/28/21 11:53	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/21/21 12:57	09/28/21 11:53	7439-93-2		
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:39	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:39	7440-38-2		
Barium	0.023	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:39	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/22/21 08:44	09/24/21 10:39	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/22/21 08:44	09/24/21 10:39	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/22/21 08:44	09/24/21 10:39	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:39	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:39	7439-92-1		
Molybdenum	0.0018	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:39	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:39	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:39	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	09/28/21 14:17	09/28/21 23:16	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	243	mg/L	10.0	1		09/17/21 08:30			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.7	Std. Units	0.10	1		09/18/21 10:17		H3	

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Sample: GAMW-57-091521		Lab ID: 50297456010		Collected: 09/15/21 12:40		Received: 09/16/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	1.0	mg/L	0.25	1		09/21/21 21:51	16887-00-6		
Fluoride	0.073	mg/L	0.050	1		09/21/21 21:51	16984-48-8		
Sulfate	25.8	mg/L	2.5	10		09/21/21 22:05	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	ND	mg/L	0.10	1	09/21/21 12:57	09/28/21 11:55	7440-42-8		
Calcium	21.8	mg/L	1.0	1	09/21/21 12:57	09/28/21 11:55	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/21/21 12:57	09/28/21 11:55	7439-93-2		
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:44	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:44	7440-38-2		
Barium	0.0055	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:44	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/22/21 08:44	09/24/21 10:44	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/22/21 08:44	09/24/21 10:44	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/22/21 08:44	09/24/21 10:44	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:44	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:44	7439-92-1		
Molybdenum	0.0030	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:44	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:44	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:44	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	09/28/21 14:17	09/28/21 23:18	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	101	mg/L	10.0	1		09/18/21 17:37			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.0	Std. Units	0.10	1		09/18/21 10:18		H3	

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Sample: GAMW-57B-091521		Lab ID: 50297456011		Collected: 09/15/21 11:45		Received: 09/16/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	12.4	mg/L	0.25	1		09/21/21 22:19	16887-00-6		
Fluoride	0.17	mg/L	0.050	1		09/21/21 22:19	16984-48-8		
Sulfate	24.4	mg/L	0.25	1		09/21/21 22:19	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.13	mg/L	0.10	1	09/21/21 12:57	09/28/21 11:57	7440-42-8		
Calcium	47.5	mg/L	1.0	1	09/21/21 12:57	09/28/21 11:57	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/21/21 12:57	09/28/21 11:57	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:48	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:48	7440-38-2		
Barium	0.022	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:48	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/22/21 08:44	09/24/21 10:48	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/22/21 08:44	09/24/21 10:48	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/22/21 08:44	09/24/21 10:48	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:48	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:48	7439-92-1		
Molybdenum	0.0067	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:48	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:48	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:48	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/28/21 14:17	09/28/21 23:21	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	205	mg/L	10.0	1		09/18/21 17:37			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.6	Std. Units	0.10	1		09/18/21 10:19		H3	

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Sample: GAMW-58-091521		Lab ID: 50297456012		Collected: 09/15/21 10:40		Received: 09/16/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	1.1	mg/L	0.25	1		09/21/21 23:14	16887-00-6		
Fluoride	0.35	mg/L	0.050	1		09/21/21 23:14	16984-48-8		
Sulfate	38.9	mg/L	2.5	10		09/21/21 23:28	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	1	09/21/21 12:57	09/28/21 11:59	7440-42-8		
Calcium	10.9	mg/L	1.0	1	09/21/21 12:57	09/28/21 11:59	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/21/21 12:57	09/28/21 11:59	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:52	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:52	7440-38-2		
Barium	0.041	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:52	7440-39-3		
Beryllium	0.00075	mg/L	0.00020	1	09/22/21 08:44	09/24/21 10:52	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/22/21 08:44	09/24/21 10:52	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/22/21 08:44	09/24/21 10:52	7440-47-3		
Cobalt	0.0093	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:52	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:52	7439-92-1		
Molybdenum	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:52	7439-98-7		
Selenium	0.0025	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:52	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/22/21 08:44	09/24/21 10:52	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/28/21 14:17	09/28/21 23:28	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	82	mg/L	10.0	1		09/18/21 17:37			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	6.6	Std. Units	0.10	1		09/18/21 10:24		H3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Sample: GAMW-42B-091421		Lab ID: 50297309002		Collected: 09/14/21 14:20		Received: 09/15/21 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	10.3	mg/L	0.25	1		09/20/21 20:33	16887-00-6		
Fluoride	0.12	mg/L	0.050	1		09/20/21 20:33	16984-48-8		
Sulfate	31.8	mg/L	2.5	10		09/20/21 20:51	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	1	09/21/21 12:57	09/28/21 07:53	7440-42-8		
Calcium	62.6	mg/L	1.0	1	09/21/21 12:57	09/28/21 07:53	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/21/21 12:57	09/28/21 07:53	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/17/21 10:00	09/20/21 07:37	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	09/17/21 10:00	09/20/21 07:37	7440-38-2		
Barium	0.021	mg/L	0.0010	1	09/17/21 10:00	09/20/21 07:37	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/17/21 10:00	09/20/21 07:37	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/17/21 10:00	09/20/21 07:37	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/17/21 10:00	09/20/21 07:37	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/17/21 10:00	09/20/21 07:37	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/17/21 10:00	09/20/21 07:37	7439-92-1		
Molybdenum	0.0027	mg/L	0.0010	1	09/17/21 10:00	09/20/21 07:37	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/17/21 10:00	09/20/21 07:37	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/17/21 10:00	09/20/21 07:37	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/21/21 20:36	09/22/21 09:50	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	241	mg/L	10.0	1		09/16/21 12:54			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.8	Std. Units	0.10	1		09/15/21 14:51		H3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Sample: GAMW-43-091421		Lab ID: 50297309003		Collected: 09/14/21 13:55		Received: 09/15/21 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	0.85	mg/L	0.25	1		09/20/21 23:54	16887-00-6		
Fluoride	0.11	mg/L	0.050	1		09/20/21 23:54	16984-48-8		
Sulfate	28.4	mg/L	2.5	10		09/21/21 00:13	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	1	09/21/21 12:57	09/28/21 07:59	7440-42-8		
Calcium	32.6	mg/L	1.0	1	09/21/21 12:57	09/28/21 07:59	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/21/21 12:57	09/28/21 07:59	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/17/21 10:00	09/20/21 07:41	7440-36-0		
Arsenic	0.0028	mg/L	0.0010	1	09/17/21 10:00	09/20/21 07:41	7440-38-2		
Barium	0.026	mg/L	0.0010	1	09/17/21 10:00	09/20/21 07:41	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/17/21 10:00	09/20/21 07:41	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/17/21 10:00	09/20/21 07:41	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/17/21 10:00	09/20/21 07:41	7440-47-3		
Cobalt	0.0022	mg/L	0.0010	1	09/17/21 10:00	09/20/21 07:41	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/17/21 10:00	09/20/21 07:41	7439-92-1		
Molybdenum	0.0020	mg/L	0.0010	1	09/17/21 10:00	09/20/21 07:41	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/17/21 10:00	09/20/21 07:41	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/17/21 10:00	09/20/21 07:41	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/21/21 20:36	09/22/21 09:52	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	137	mg/L	10.0	1		09/16/21 12:54			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.6	Std. Units	0.10	1		09/15/21 14:52		H3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Sample: GAMW-43B-091421		Lab ID: 50297309004		Collected: 09/14/21 12:35		Received: 09/15/21 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	1.8	mg/L	0.25	1		09/21/21 01:26	16887-00-6		
Fluoride	0.15	mg/L	0.050	1		09/21/21 01:26	16984-48-8		
Sulfate	22.2	mg/L	0.25	1		09/21/21 01:26	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	1	09/21/21 12:57	09/28/21 08:01	7440-42-8		
Calcium	38.2	mg/L	1.0	1	09/21/21 12:57	09/28/21 08:01	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/21/21 12:57	09/28/21 08:01	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/17/21 10:00	09/20/21 07:45	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	09/17/21 10:00	09/20/21 07:45	7440-38-2		
Barium	0.011	mg/L	0.0010	1	09/17/21 10:00	09/20/21 07:45	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/17/21 10:00	09/20/21 07:45	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/17/21 10:00	09/20/21 07:45	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/17/21 10:00	09/20/21 07:45	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/17/21 10:00	09/20/21 07:45	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/17/21 10:00	09/20/21 07:45	7439-92-1		
Molybdenum	0.0024	mg/L	0.0010	1	09/17/21 10:00	09/20/21 07:45	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/17/21 10:00	09/20/21 07:45	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/17/21 10:00	09/20/21 07:45	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/21/21 20:36	09/22/21 09:55	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	137	mg/L	10.0	1		09/16/21 12:54			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	1		09/15/21 14:55		H3	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

QC Batch:	640736	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50297456001, 50297456002, 50297456003, 50297456004, 50297456005, 50297456006, 50297456007, 50297456008, 50297456009, 50297456010, 50297456011, 50297456012		

METHOD BLANK:	2951193	Matrix:	Water
Associated Lab Samples:	50297456001, 50297456002, 50297456003, 50297456004, 50297456005, 50297456006, 50297456007, 50297456008, 50297456009, 50297456010, 50297456011, 50297456012		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	09/21/21 14:55	
Fluoride	mg/L	ND	0.050	09/21/21 14:55	
Sulfate	mg/L	ND	0.25	09/21/21 14:55	

LABORATORY CONTROL SAMPLE:	2951194					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	97	80-120	
Fluoride	mg/L	0.5	0.51	102	80-120	
Sulfate	mg/L	2.5	2.5	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	2951195			2951196								
Parameter	Units	50297456005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.3	1.2	1.2	9.4	9.4	93	90	80-120	0	15	
Fluoride	mg/L	0.22	0.5	0.5	0.65	0.66	85	87	80-120	2	15	
Sulfate	mg/L	4.3	2.5	2.5	7.0	6.8	106	99	80-120	3	15	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

QC Batch:	640865	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50297309002, 50297309003, 50297309004		

METHOD BLANK: 2951589 Matrix: Water

Associated Lab Samples: 50297309002, 50297309003, 50297309004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	09/20/21 19:56	
Fluoride	mg/L	ND	0.050	09/20/21 19:56	
Sulfate	mg/L	ND	0.25	09/20/21 19:56	

LABORATORY CONTROL SAMPLE: 2951590

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	99	80-120	
Fluoride	mg/L	0.5	0.50	99	80-120	
Sulfate	mg/L	2.5	2.7	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2951591 2951592

Parameter	Units	50297309002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.3	1.2	1.2	11.8	11.8	119	118	80-120	0	15	
Fluoride	mg/L	0.12	0.5	0.5	0.60	0.61	96	98	80-120	1	15	
Sulfate	mg/L	31.8	25	25	56.8	56.9	100	100	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

QC Batch: 640931

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory:

Pace Analytical Services - Indianapolis

Associated Lab Samples: 50297309002, 50297309003, 50297309004

METHOD BLANK: 2951962

Matrix: Water

Associated Lab Samples: 50297309002, 50297309003, 50297309004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	09/22/21 08:46	

LABORATORY CONTROL SAMPLE: 2951963

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.5	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2951964 2951965

Parameter	Units	50297097031 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.085	5	5	5.0	5.0	99	101	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

QC Batch:	642176	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50297456001, 50297456002, 50297456003, 50297456004, 50297456005, 50297456006, 50297456007, 50297456008, 50297456009, 50297456010, 50297456011, 50297456012		

METHOD BLANK:	2958181	Matrix:	Water
Associated Lab Samples:	50297456001, 50297456002, 50297456003, 50297456004, 50297456005, 50297456006, 50297456007, 50297456008, 50297456009, 50297456010, 50297456011, 50297456012		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	09/28/21 22:41	

LABORATORY CONTROL SAMPLE: 2958182						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.4	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:					2958183	2958184							
		50297456005	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits		Max RPD	Qual	
Parameter	Units	Result											
Mercury	ug/L	ND	5	5	5.3	5.0	105	101	75-125	4	20		

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

QC Batch:	640355	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50297309002, 50297309003, 50297309004		

METHOD BLANK: 2948563 Matrix: Water

Associated Lab Samples: 50297309002, 50297309003, 50297309004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	09/28/21 07:36	
Calcium	mg/L	ND	1.0	09/28/21 07:36	
Lithium	mg/L	ND	0.0080	09/28/21 07:36	

LABORATORY CONTROL SAMPLE: 2948564

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.98	98	80-120	
Calcium	mg/L	5	4.8	96	80-120	
Lithium	mg/L	1	0.99	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2948565 2948566

Parameter	Units	50297460003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	ND	1	1	1.0	1.0	96	100	75-125	4	20	
Calcium	mg/L	11.0	5	5	15.6	15.9	92	97	75-125	2	20	
Lithium	mg/L	ND	1	1	0.99	1.0	99	101	75-125	2	20	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

QC Batch:	640356	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50297456001, 50297456002, 50297456003, 50297456004, 50297456005, 50297456006, 50297456007, 50297456008, 50297456009, 50297456010, 50297456011, 50297456012		

METHOD BLANK:	2948570	Matrix:	Water
Associated Lab Samples:	50297456001, 50297456002, 50297456003, 50297456004, 50297456005, 50297456006, 50297456007, 50297456008, 50297456009, 50297456010, 50297456011, 50297456012		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	09/28/21 11:07	
Calcium	mg/L	ND	1.0	09/28/21 11:07	
Lithium	mg/L	ND	0.0080	09/28/21 11:07	

LABORATORY CONTROL SAMPLE:	2948571					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.93	93	80-120	
Calcium	mg/L	5	4.9	98	80-120	
Lithium	mg/L	1	0.92	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	2948572			2948573								
Parameter	Units	50297456005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.62	1	1	1.6	1.6	100	96	75-125	2	20	
Calcium	mg/L	53.9	5	5	59.9	57.3	120	68	75-125	4	20	P6
Lithium	mg/L	0.024	1	1	0.99	0.99	96	97	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

QC Batch:	640302	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50297309002, 50297309003, 50297309004

METHOD BLANK: 2948325 Matrix: Water

Associated Lab Samples: 50297309002, 50297309003, 50297309004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	09/20/21 06:31	
Arsenic	mg/L	ND	0.0010	09/20/21 06:31	
Barium	mg/L	ND	0.0010	09/20/21 06:31	
Beryllium	mg/L	ND	0.00020	09/20/21 06:31	
Cadmium	mg/L	ND	0.00020	09/20/21 06:31	
Chromium	mg/L	ND	0.0020	09/20/21 06:31	
Cobalt	mg/L	ND	0.0010	09/20/21 06:31	
Lead	mg/L	ND	0.0010	09/20/21 06:31	
Molybdenum	mg/L	ND	0.0010	09/20/21 06:31	
Selenium	mg/L	ND	0.0010	09/20/21 06:31	
Thallium	mg/L	ND	0.0010	09/20/21 06:31	

LABORATORY CONTROL SAMPLE: 2948326

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.037	93	80-120	
Arsenic	mg/L	0.04	0.038	94	80-120	
Barium	mg/L	0.04	0.037	93	80-120	
Beryllium	mg/L	0.04	0.037	93	80-120	
Cadmium	mg/L	0.04	0.037	92	80-120	
Chromium	mg/L	0.04	0.041	102	80-120	
Cobalt	mg/L	0.04	0.039	98	80-120	
Lead	mg/L	0.04	0.038	95	80-120	
Molybdenum	mg/L	0.04	0.035	88	80-120	
Selenium	mg/L	0.04	0.038	94	80-120	
Thallium	mg/L	0.04	0.039	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2948327 2948328

Parameter	Units	50297242001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.04	0.04	0.038	0.040	94	100	75-125	6	20	
Arsenic	mg/L	13.9 ug/L	0.04	0.04	0.052	0.051	96	92	75-125	3	20	
Barium	mg/L	144 ug/L	0.04	0.04	0.19	0.19	110	112	75-125	0	20	
Beryllium	mg/L	ND	0.04	0.04	0.039	0.037	96	92	75-125	5	20	
Cadmium	mg/L	ND	0.04	0.04	0.037	0.036	92	90	75-125	2	20	
Chromium	mg/L	ND	0.04	0.04	0.040	0.039	99	96	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2948327 2948328												
Parameter	Units	50297242001	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike Conc.	Spike Conc.								
Cobalt	mg/L	1.3 ug/L	0.04	0.04	0.037	0.036	90	86	75-125	3	20	
Lead	mg/L	ND	0.04	0.04	0.038	0.037	96	93	75-125	3	20	
Molybdenum	mg/L	4.6 ug/L	0.04	0.04	0.040	0.042	90	95	75-125	5	20	
Selenium	mg/L	ND	0.04	0.04	0.037	0.037	92	92	75-125	0	20	
Thallium	mg/L	ND	0.04	0.04	0.040	0.038	99	96	75-125	3	20	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

QC Batch:	641073	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50297456001, 50297456002, 50297456003, 50297456004, 50297456005, 50297456006, 50297456007, 50297456008, 50297456009, 50297456010, 50297456011, 50297456012		

METHOD BLANK: 2952769

Matrix: Water

Associated Lab Samples: 50297456001, 50297456002, 50297456003, 50297456004, 50297456005, 50297456006, 50297456007, 50297456008, 50297456009, 50297456010, 50297456011, 50297456012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	09/24/21 09:23	
Arsenic	mg/L	ND	0.0010	09/24/21 09:23	
Barium	mg/L	ND	0.0010	09/24/21 09:23	
Beryllium	mg/L	ND	0.00020	09/24/21 09:23	
Cadmium	mg/L	ND	0.00020	09/24/21 09:23	
Chromium	mg/L	ND	0.0020	09/24/21 09:23	
Cobalt	mg/L	ND	0.0010	09/24/21 09:23	
Lead	mg/L	ND	0.0010	09/24/21 09:23	
Molybdenum	mg/L	ND	0.0010	09/24/21 09:23	
Selenium	mg/L	ND	0.0010	09/24/21 09:23	
Thallium	mg/L	ND	0.0010	09/24/21 09:23	

LABORATORY CONTROL SAMPLE: 2952770

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.042	106	80-120	
Arsenic	mg/L	0.04	0.039	98	80-120	
Barium	mg/L	0.04	0.039	97	80-120	
Beryllium	mg/L	0.04	0.040	99	80-120	
Cadmium	mg/L	0.04	0.040	100	80-120	
Chromium	mg/L	0.04	0.040	101	80-120	
Cobalt	mg/L	0.04	0.041	102	80-120	
Lead	mg/L	0.04	0.041	102	80-120	
Molybdenum	mg/L	0.04	0.041	102	80-120	
Selenium	mg/L	0.04	0.040	99	80-120	
Thallium	mg/L	0.04	0.040	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2952771 2952772

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50297456005 Result	Spike Conc.	Spike Conc.	MS Result						
Antimony	mg/L	ND	0.04	0.04	0.043	107	108	75-125	1	20	
Arsenic	mg/L	ND	0.04	0.04	0.038	96	97	75-125	1	20	
Barium	mg/L	0.0089	0.04	0.04	0.046	93	95	75-125	1	20	
Beryllium	mg/L	ND	0.04	0.04	0.040	100	100	75-125	1	20	
Cadmium	mg/L	ND	0.04	0.04	0.040	99	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2952771 2952772												
Parameter	Units	50297456005	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike	Spike								
Chromium	mg/L	ND	0.04	0.04	0.040	0.040	98	100	75-125	2	20	
Cobalt	mg/L	ND	0.04	0.04	0.038	0.038	94	94	75-125	0	20	
Lead	mg/L	ND	0.04	0.04	0.040	0.041	100	102	75-125	1	20	
Molybdenum	mg/L	0.0021	0.04	0.04	0.043	0.043	102	103	75-125	1	20	
Selenium	mg/L	ND	0.04	0.04	0.039	0.037	97	92	75-125	5	20	
Thallium	mg/L	ND	0.04	0.04	0.041	0.040	101	101	75-125	0	20	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

QC Batch:	640312	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50297309002, 50297309003, 50297309004

METHOD BLANK: 2948354 Matrix: Water

Associated Lab Samples: 50297309002, 50297309003, 50297309004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/16/21 12:52	

LABORATORY CONTROL SAMPLE: 2948355

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	304	101	80-120	

SAMPLE DUPLICATE: 2948356

Parameter	Units	10578587001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	4030	3950	2	10	

SAMPLE DUPLICATE: 2948357

Parameter	Units	50297298002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	735	742	1	10	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

QC Batch:	640469	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50297456004		

METHOD BLANK: 2949423 Matrix: Water

Associated Lab Samples: 50297456004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/17/21 08:05	

LABORATORY CONTROL SAMPLE: 2949424

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	292	97	80-120	

SAMPLE DUPLICATE: 2949425

Parameter	Units	50297505001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	248	249	0	10	

SAMPLE DUPLICATE: 2949426

Parameter	Units	50297505002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	411	409	0	10	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

QC Batch:	640471	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50297456001, 50297456002, 50297456003, 50297456005, 50297456006, 50297456007, 50297456008, 50297456009		

METHOD BLANK:	2949431	Matrix:	Water
Associated Lab Samples:	50297456001, 50297456002, 50297456003, 50297456005, 50297456006, 50297456007, 50297456008, 50297456009		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/17/21 08:25	

LABORATORY CONTROL SAMPLE:	2949432					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	289	96	80-120	

SAMPLE DUPLICATE:	2949434					
Parameter	Units	50297539028 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	335	321	4	10	

SAMPLE DUPLICATE:	2949593					
Parameter	Units	50297456005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	254	257	1	10	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

QC Batch:	640671	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50297456010, 50297456011, 50297456012		

METHOD BLANK: 2950929 Matrix: Water

Associated Lab Samples: 50297456010, 50297456011, 50297456012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/18/21 17:35	

LABORATORY CONTROL SAMPLE: 2950930

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	292	97	80-120	

SAMPLE DUPLICATE: 2950931

Parameter	Units	50297611001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	275	280	2	10	

SAMPLE DUPLICATE: 2950932

Parameter	Units	50297611004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	274	269	2	10	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

QC Batch:	640149	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50297309002, 50297309003, 50297309004

SAMPLE DUPLICATE: 2947559

Parameter	Units	50297273001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.9	7.0	1	2	H3

SAMPLE DUPLICATE: 2947560

Parameter	Units	50297273008 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.8	6.9	1	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

QC Batch:	640652	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50297456001, 50297456002, 50297456003, 50297456004, 50297456005, 50297456006, 50297456007, 50297456008, 50297456009, 50297456010, 50297456011, 50297456012		

SAMPLE DUPLICATE: 2950684

Parameter	Units	50297445005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.1	0	2	H3

SAMPLE DUPLICATE: 2950685

Parameter	Units	50297456005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.4	0	2	H3

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QUALIFIERS

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

PL The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50297309002	GAMW-42B-091421	EPA 9056	640865		
50297309003	GAMW-43-091421	EPA 9056	640865		
50297309004	GAMW-43B-091421	EPA 9056	640865		
50297456001	GAMW-58B-091521	EPA 9056	640736		
50297456002	FD-05-091521	EPA 9056	640736		
50297456003	FB-05-091521	EPA 9056	640736		
50297456004	GAMW-42-091421	EPA 9056	640736		
50297456005	GAMW-42C-091521	EPA 9056	640736		
50297456006	GAMW-44-091521	EPA 9056	640736		
50297456007	GAMW-044B-091521	EPA 9056	640736		
50297456008	GAMW-46-091521	EPA 9056	640736		
50297456009	GAMW-46B-091521	EPA 9056	640736		
50297456010	GAMW-57-091521	EPA 9056	640736		
50297456011	GAMW-57B-091521	EPA 9056	640736		
50297456012	GAMW-58-091521	EPA 9056	640736		
50297309002	GAMW-42B-091421	EPA 3010	640355	EPA 6010	641914
50297309003	GAMW-43-091421	EPA 3010	640355	EPA 6010	641914
50297309004	GAMW-43B-091421	EPA 3010	640355	EPA 6010	641914
50297456001	GAMW-58B-091521	EPA 3010	640356	EPA 6010	642047
50297456002	FD-05-091521	EPA 3010	640356	EPA 6010	642047
50297456003	FB-05-091521	EPA 3010	640356	EPA 6010	642047
50297456004	GAMW-42-091421	EPA 3010	640356	EPA 6010	642047
50297456005	GAMW-42C-091521	EPA 3010	640356	EPA 6010	642047
50297456006	GAMW-44-091521	EPA 3010	640356	EPA 6010	642047
50297456007	GAMW-044B-091521	EPA 3010	640356	EPA 6010	642047
50297456008	GAMW-46-091521	EPA 3010	640356	EPA 6010	642047
50297456009	GAMW-46B-091521	EPA 3010	640356	EPA 6010	642047
50297456010	GAMW-57-091521	EPA 3010	640356	EPA 6010	642047
50297456011	GAMW-57B-091521	EPA 3010	640356	EPA 6010	642047
50297456012	GAMW-58-091521	EPA 3010	640356	EPA 6010	642047
50297309002	GAMW-42B-091421	EPA 200.2	640302	EPA 6020	640686
50297309003	GAMW-43-091421	EPA 200.2	640302	EPA 6020	640686
50297309004	GAMW-43B-091421	EPA 200.2	640302	EPA 6020	640686
50297456001	GAMW-58B-091521	EPA 200.2	641073	EPA 6020	641220
50297456002	FD-05-091521	EPA 200.2	641073	EPA 6020	641220
50297456003	FB-05-091521	EPA 200.2	641073	EPA 6020	641220
50297456004	GAMW-42-091421	EPA 200.2	641073	EPA 6020	641220
50297456005	GAMW-42C-091521	EPA 200.2	641073	EPA 6020	641220
50297456006	GAMW-44-091521	EPA 200.2	641073	EPA 6020	641220
50297456007	GAMW-044B-091521	EPA 200.2	641073	EPA 6020	641220
50297456008	GAMW-46-091521	EPA 200.2	641073	EPA 6020	641220
50297456009	GAMW-46B-091521	EPA 200.2	641073	EPA 6020	641220
50297456010	GAMW-57-091521	EPA 200.2	641073	EPA 6020	641220
50297456011	GAMW-57B-091521	EPA 200.2	641073	EPA 6020	641220
50297456012	GAMW-58-091521	EPA 200.2	641073	EPA 6020	641220
50297309002	GAMW-42B-091421	EPA 7470	640931	EPA 7470	641089

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Boundary Wells Sept 21

Pace Project No.: 50297456

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50297309003	GAMW-43-091421	EPA 7470	640931	EPA 7470	641089
50297309004	GAMW-43B-091421	EPA 7470	640931	EPA 7470	641089
50297456001	GAMW-58B-091521	EPA 7470	642176	EPA 7470	642245
50297456002	FD-05-091521	EPA 7470	642176	EPA 7470	642245
50297456003	FB-05-091521	EPA 7470	642176	EPA 7470	642245
50297456004	GAMW-42-091421	EPA 7470	642176	EPA 7470	642245
50297456005	GAMW-42C-091521	EPA 7470	642176	EPA 7470	642245
50297456006	GAMW-44-091521	EPA 7470	642176	EPA 7470	642245
50297456007	GAMW-044B-091521	EPA 7470	642176	EPA 7470	642245
50297456008	GAMW-46-091521	EPA 7470	642176	EPA 7470	642245
50297456009	GAMW-46B-091521	EPA 7470	642176	EPA 7470	642245
50297456010	GAMW-57-091521	EPA 7470	642176	EPA 7470	642245
50297456011	GAMW-57B-091521	EPA 7470	642176	EPA 7470	642245
50297456012	GAMW-58-091521	EPA 7470	642176	EPA 7470	642245
50297309002	GAMW-42B-091421	SM 2540C	640312		
50297309003	GAMW-43-091421	SM 2540C	640312		
50297309004	GAMW-43B-091421	SM 2540C	640312		
50297456001	GAMW-58B-091521	SM 2540C	640471		
50297456002	FD-05-091521	SM 2540C	640471		
50297456003	FB-05-091521	SM 2540C	640471		
50297456004	GAMW-42-091421	SM 2540C	640469		
50297456005	GAMW-42C-091521	SM 2540C	640471		
50297456006	GAMW-44-091521	SM 2540C	640471		
50297456007	GAMW-044B-091521	SM 2540C	640471		
50297456008	GAMW-46-091521	SM 2540C	640471		
50297456009	GAMW-46B-091521	SM 2540C	640471		
50297456010	GAMW-57-091521	SM 2540C	640671		
50297456011	GAMW-57B-091521	SM 2540C	640671		
50297456012	GAMW-58-091521	SM 2540C	640671		
50297309002	GAMW-42B-091421	SM 4500-H+B	640149		
50297309003	GAMW-43-091421	SM 4500-H+B	640149		
50297309004	GAMW-43B-091421	SM 4500-H+B	640149		
50297456001	GAMW-58B-091521	SM 4500-H+B	640652		
50297456002	FD-05-091521	SM 4500-H+B	640652		
50297456003	FB-05-091521	SM 4500-H+B	640652		
50297456004	GAMW-42-091421	SM 4500-H+B	640652		
50297456005	GAMW-42C-091521	SM 4500-H+B	640652		
50297456006	GAMW-44-091521	SM 4500-H+B	640652		
50297456007	GAMW-044B-091521	SM 4500-H+B	640652		
50297456008	GAMW-46-091521	SM 4500-H+B	640652		
50297456009	GAMW-46B-091521	SM 4500-H+B	640652		
50297456010	GAMW-57-091521	SM 4500-H+B	640652		
50297456011	GAMW-57B-091521	SM 4500-H+B	640652		
50297456012	GAMW-58-091521	SM 4500-H+B	640652		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL

WO#: 50297309



50297309

Section A

Required Client Information:

Company: NiSource Golder
Address: 801 E. 86th Avenue
Merrillville, IN 46410
Email: jim_peace@golder.com
Phone: Fax:
Requested Due Date:

Section B

Required Project Information:

Report To: Jim Peace
Copy To: krysta.clone@golder.com,
danielle.sylvia@golder.com
Purchase Order #: PO12747
Project Name: RMSGS Boundary Wells Sept 21
Project #: 19121567-211-6

Section C

Invoice Information:

Attention: Jeff Loewe U126177
Company Name: NIPSCO
Address:
Pace Quote:
Pace Project Manager: tina.sayer@pacelabs.com,
Pace Profile #: 9045-1

Page: Of

Regulatory Agency

State / Location

IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		Total metals **	Cl, F, SO4 by 9056	pH	TDS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**B,Ca,Li by 6010; Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020 Hg by 7470	 FOLLEY	9/14/21	1630	 FOLLEY	9/15/21	0915	0.4	y	y	y

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooling (Y/N)	Packaging (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:							
SIGNATURE of SAMPLER:							
<i>R. EUDYMAN</i>							
<i>[Signature]</i>							
DATE Signed: 9/14/21							



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 09/15/21 1010 smk

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER _____

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: 0.4/0.4
Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☐ Bubble Wrap ☐ Bubble Bags

☒ None ☐ Other _____

6. Ice Type: ☒ Wet ☐ Blue ☐ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	All containers needing acid/base pres. Have been CHECKED? exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis:		/	Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	/		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):		/	Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
Custody Signatures Present?	/		Headspace Wisconsin Sulfide?			/
Containers Intact?:	/		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID		/	Trip Blank Present?		/	
Extra labels on Terracore Vials? (soils only)		/	Trip Blank Custody Seals?:			/

COMMENTS: Time on GAMW-A2B is 1430 but COC says 1420 - smk
Didn't receive GAMW-A2 - smk

SBS

DI

MeOH

(only)

BK

Kit

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit	Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZnAc pH >9	NaOH pH>10
1																										Matrix			
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Syringe Kit LL Cr+6 sampling kit	
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	C	Air Cassettes
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	R	Terracore kit
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	SP5T	120mL Coliform Na Thiosulfate
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	U	Summa Can
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	ZPLC	Ziploc Bag
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	WT	Water
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	NAL	OL Non-aqueous liquid Oil
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	WP	Wipe
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic		
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic		



50297456

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page :

1 2
2 or 4 PC

Required Client Information:

Requested Due Date:

Required Project Information:

Project #:

Invoice Information:

Pace Profile #: 9045-1

Regulatory Agency

State / Location

IN

[illegible]

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLE

DATE Signed: _____

TEMP in C

Received on

(Y/N)	Custody

Sealed Cooler

$$\frac{d}{dt} \left(\frac{N}{A} \right)$$

99
100
101

54 of



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: BC 1050 9/16/21

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER _____

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: 0.1/1.1 (2) 1.2/1.2

Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☒ Bubble Wrap ☒ Bubble Bags

☐ None

☐ Other _____

6. Ice Type: ☒ Wet ☐ Blue ☐ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	☒		
Short Hold Time Analysis (48 hours or less)? Analysis: <u>Nitrates</u> kh091621	☒	☒	Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab Time: <u>1110</u>			Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Custody Signatures Present?	☒		Headspace Wisconsin Sulfide?			☒
Containers Intact?:	☒		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Trip Blank Present?		☒	
Extra labels on Terracore Vials? (soils only)		☒	Trip Blank Custody Seals?:			☒

COMMENTS:

Sample Container Count

SBS

DI

MeOH
(only)

BK

Kit

** Place a RED dot on containers
that are out of conformance **

COC Line Item	WGFU	R	DG9H	VG9H	VOA VAL HS (≥6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit	Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZNAc pH >9	NaOH pH >10
1																		—	—	—							5	✓		
2																		↓	↓	↓							←	↓		
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Syringe Kit LL Cr+6 sampling kit	
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	C	Air Cassettes
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	R	Terracore kit
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	SP5T	120mL Coliform Na Thiosulfate
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	U	Summa Can
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	ZPLC	Ziploc Bag
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	WT	Water
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	NAL	OL Non-aqueous liquid Oil
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	WP	Wipe
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic		
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic		

Sample Container Count

SBS

DI

MeOH
(only)

BK

Kit

** Place a RED dot on containers
that are out of conformance **

COC Line Item	WGFI	R	DG9H	VG9H	VQA VIAL HS (≥6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit	Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZnAc pH >9	NaOH pH >10
1																		1	1	1							WT	✓		
2																														
3																		3	3	3							WT	✓		
4																														
5																														
6																		1	1	1							WT	✓		
7																		↓	↓	↓							↓	↓		
8																		↓	↓	↓							↓	↓		
9																		↓	↓	↓							↓	↓		
10																		↓	↓	↓							↓	↓		
11																		↓	↓	↓							↓	↓		
12																		↓	↓	↓							↓	↓		

Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Syringe Kit LL Cr+6 sampling kit	
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	C	Air Cassettes
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	R	Terracore kit
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	SP5T	120mL Coliform Na Thiosulfate
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	U	Summa Can
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	ZPLC	Ziploc Bag
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	WT	Water
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	NAL	OL Non-aqueous liquid Oil
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	WP	Wipe
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic		
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic		

October 19, 2021

Mr. Jim Peace
Golder
670 North Commercial Street
Suite 103
Manchester, NH 03101

RE: Project: RMSGS Assessment Sept 21
Pace Project No.: 50297587

Dear Mr. Peace:

Enclosed are the analytical results for sample(s) received by the laboratory between September 17, 2021 and October 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Indianapolis

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

Sincerely,



Tina Sayer
tina.sayer@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Ms. Krysta Cione, Golder
Mr. Tom Haskins, Golder
Accounts Payable., NiSource
Ms. Danielle Sylvia, Golder



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50297587001	GAMW-01-091621	Water	09/16/21 11:50	09/17/21 08:45
50297587002	GAMW-01B-091621	Water	09/16/21 10:50	09/17/21 08:45
50297587003	GAMW-12-091621	Water	09/16/21 14:10	09/17/21 08:45
50297587004	GAMW-12B-091621	Water	09/16/21 13:05	09/17/21 08:45
50297587005	GAMW-18-091621	Water	09/16/21 14:05	09/17/21 08:45
50297587006	FB-01-091621	Water	09/16/21 10:55	09/17/21 08:45
50297724001	GAMW-03-091721	Water	09/17/21 14:10	09/18/21 10:30
50297724002	GAMW-03B-091721	Water	09/17/21 13:20	09/18/21 10:30
50297724003	GAMW-13-091721	Water	09/17/21 12:00	09/18/21 10:30
50297724004	GAMW-13B-091721	Water	09/17/21 11:10	09/18/21 10:30
50297724005	GAMW-14-091721	Water	09/17/21 10:10	09/18/21 10:30
50297724006	GAMW-14B-091721	Water	09/17/21 09:15	09/18/21 10:30
50297724007	GAMW-18B-091721	Water	09/17/21 13:35	09/18/21 10:30
50297724008	GAMW-68-091721	Water	09/17/21 10:00	09/18/21 10:30
50297724009	GAMW-68B-091721	Water	09/17/21 11:10	09/18/21 10:30
50297724010	FD-01-091721	Water	09/17/21 12:00	09/18/21 10:30
50297724011	FB-03-091721	Water	09/17/21 14:15	09/18/21 10:30
50298104001	GAMW-07-092121	Water	09/21/21 14:10	09/23/21 11:40
50298104002	GAMW-16R-092121	Water	09/21/21 10:35	09/23/21 11:40
50298104003	GAMW-16BR-092121	Water	09/21/21 13:05	09/23/21 11:40
50298104004	FD-02-092121	Water	09/21/21 12:00	09/23/21 11:40
50298122001	GAMW-15-092221	Water	09/22/21 10:35	09/23/21 11:40
50298122002	GAMW-15B-092221	Water	09/22/21 11:35	09/23/21 11:40
50298122003	GAMW-17-092221	Water	09/22/21 12:45	09/23/21 11:40
50298122004	GAMW-17B-092221	Water	09/22/21 14:05	09/23/21 11:40
50298122005	FB-02-092221	Water	09/22/21 12:50	09/23/21 11:40
50298266001	GAMW-04-092321	Water	09/23/21 10:50	09/24/21 09:10
50298266002	GAMW-07B-092321	Water	09/23/21 14:20	09/24/21 09:10
50298266003	GAMW-09-092321	Water	09/23/21 12:15	09/24/21 09:10
50298266004	GAMW-09B-092321	Water	09/23/21 13:15	09/24/21 09:10
50298266005	FD-03-092321	Water	09/23/21 12:00	09/24/21 09:10
50298266006	FB-04-092321	Water	09/23/21 14:30	09/24/21 09:10
50298401001	GAMW-08-092421	Water	09/24/21 11:00	09/25/21 09:15
50298401002	GAMW-08B-092421	Water	09/24/21 12:15	09/25/21 09:15
50298401003	GAMW-60-092421	Water	09/24/21 13:15	09/25/21 09:15
50298401004	GAMW-60B-092421	Water	09/24/21 14:05	09/25/21 09:15
50298717001	GAMW-51-092921	Water	09/29/21 11:05	09/30/21 08:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50298717002	GAMW-51B-092921	Water	09/29/21 12:10	09/30/21 08:50
50298717003	GAMW-59-092921	Water	09/29/21 13:30	09/30/21 08:50
50298717004	GAMW-59B-092921	Water	09/29/21 14:20	09/30/21 08:50
50298717005	FD-04-092921	Water	09/29/21 12:00	09/30/21 08:50
50298902001	GAMW-52-093021	Water	09/30/21 09:40	10/01/21 11:50
50298902002	GAMW-52B-093021	Water	09/30/21 10:40	10/01/21 11:50
50298902003	GAMW-53-093021	Water	09/30/21 11:35	10/01/21 11:50
50298902004	GAMW-53B-093021	Water	09/30/21 13:15	10/01/21 11:50
50298977001	GAMW-54-100121	Water	10/01/21 09:50	10/02/21 09:45
50298977002	GAMW-54B-100121	Water	10/01/21 11:25	10/02/21 09:45
50298977003	GAMW-55R-100121	Water	10/01/21 12:25	10/02/21 09:45
50298977004	GAMW-55B-100121	Water	10/01/21 13:30	10/02/21 09:45
50299064001	GAMW-56-100421	Water	10/04/21 10:10	10/05/21 09:20
50299064002	GAMW-56B-100421	Water	10/04/21 11:30	10/05/21 09:20

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50297587001	GAMW-01-091621	EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50297587002	GAMW-01B-091621	EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50297587003	GAMW-12-091621	EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50297587004	GAMW-12B-091621	EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50297587005	GAMW-18-091621	EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50297587006	FB-01-091621	EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50297724001	GAMW-03-091721	EPA 9056	RID	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50297724002	GAMW-03B-091721	EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	ZM	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	BSW	1	PASI-I
50297724003	GAMW-13-091721	SM 4500-H+B	ZM	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	ZM	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
50297724004	GAMW-13B-091721	EPA 7470	ILP	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	ZM	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	ZM	1	PASI-I
		EPA 9056	RID	3	PASI-I
50297724005	GAMW-14-091721	EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	ZM	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	BSW	1	PASI-I
50297724006	GAMW-14B-091721	SM 4500-H+B	ZM	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	ZM	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
50297724007	GAMW-18B-091721	EPA 7470	ILP	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	ZM	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50297724008	GAMW-68-091721	EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	ZM	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
50297724009	GAMW-68B-091721	SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	ZM	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	ZM	1	PASI-I
50297724010	FD-01-091721	EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	ZM	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
50297724011	FB-03-091721	EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	ZM	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
50298104001	GAMW-07-092121	SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	ZM	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50298104002	GAMW-16R-092121	EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50298104003	GAMW-16BR-092121	EPA 7470	LBT	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
50298104004	FD-02-092121	SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	LBT	1	PASI-I
		SM 2540C	BSW	1	PASI-I
50298122001	GAMW-15-092221	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50298122002	GAMW-15B-092221	EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
50298122003	GAMW-17-092221	EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
50298122004	GAMW-17B-092221	EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50298122005	FB-02-092221	SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
50298266001	GAMW-04-092321	SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
50298266002	GAMW-07B-092321	SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
50298266003	GAMW-09-092321	SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
50298266004	GAMW-09B-092321	SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
50298266005	FD-03-092321	SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	BSW	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50298266006	FB-04-092321	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	BSW	1	PASI-I
50298401001	GAMW-08-092421	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	BSW	1	PASI-I
50298401002	GAMW-08B-092421	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	BSW	1	PASI-I
50298401003	GAMW-60-092421	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	BSW	1	PASI-I
50298401004	GAMW-60B-092421	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JDG	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	BSW	1	PASI-I
50298717001	GAMW-51-092921	SM 4500-H+B	SWJ	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	ZM	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50298717002	GAMW-51B-092921	EPA 9056	RID	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	ZM	1	PASI-I
50298717003	GAMW-59-092921	EPA 9056	RID	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	ZM	1	PASI-I
50298717004	GAMW-59B-092921	EPA 9056	RID	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	ZM	1	PASI-I
50298717005	FD-04-092921	EPA 9056	RID	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	ZM	1	PASI-I
50298902001	GAMW-52-093021	EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	TKG	1	PASI-I
50298902002	GAMW-52B-093021	EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	TKG	1	PASI-I
50298902003	GAMW-53-093021	EPA 9056	RMR	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50298902004	GAMW-53B-093021	EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	TKG	1	PASI-I
		EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	BSW	1	PASI-I
50298977001	GAMW-54-100121	SM 4500-H+B	TKG	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	TKG	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
50298977002	GAMW-54B-100121	EPA 7470	FRW	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	TKG	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	TKG	1	PASI-I
		EPA 9056	RID	3	PASI-I
50298977003	GAMW-55R-100121	EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	TKG	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	BSW	1	PASI-I
50298977004	GAMW-55B-100121	SM 4500-H+B	TKG	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	TKG	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	KJE	3	PASI-I
		EPA 6020	DMT	11	PASI-I
50299064001	GAMW-56-100421	EPA 7470	FRW	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	TKG	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JPK	3	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50299064002	GAMW-56B-100421	EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	TKG	1	PASI-I
		EPA 9056	RID	3	PASI-I
		EPA 6010	JPk	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	FRW	1	PASI-I
		SM 2540C	BSW	1	PASI-I
		SM 4500-H+B	TKG	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

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SUMMARY OF DETECTION

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50297587001	GAMW-01-091621					
EPA 9056	Chloride	5.9	mg/L	0.25	09/30/21 12:59	
EPA 9056	Fluoride	0.36	mg/L	0.050	09/30/21 12:59	
EPA 9056	Sulfate	42.3	mg/L	2.5	09/23/21 22:35	
EPA 6010	Boron	0.24	mg/L	0.10	09/30/21 12:21	
EPA 6010	Calcium	76.7	mg/L	1.0	09/30/21 12:21	
EPA 6020	Arsenic	0.020	mg/L	0.0010	09/27/21 09:58	
EPA 6020	Barium	0.049	mg/L	0.0010	09/27/21 09:58	
EPA 6020	Cobalt	0.0010	mg/L	0.0010	09/27/21 09:58	
EPA 6020	Molybdenum	0.0076	mg/L	0.0010	09/27/21 09:58	
SM 2540C	Total Dissolved Solids	294	mg/L	10.0	09/22/21 08:49	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	09/18/21 11:25	H3
50297587002	GAMW-01B-091621					
EPA 9056	Chloride	18.6	mg/L	2.5	09/23/21 23:31	
EPA 9056	Fluoride	0.094	mg/L	0.050	09/30/21 13:13	
EPA 9056	Sulfate	69.3	mg/L	2.5	09/23/21 23:31	
EPA 6010	Boron	0.29	mg/L	0.10	09/30/21 12:23	
EPA 6010	Calcium	112	mg/L	1.0	09/30/21 12:23	
EPA 6020	Barium	0.17	mg/L	0.0010	09/27/21 10:03	
SM 2540C	Total Dissolved Solids	443	mg/L	10.0	09/22/21 08:49	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	09/18/21 11:26	H3
50297587003	GAMW-12-091621					
EPA 9056	Chloride	3.2	mg/L	0.25	09/30/21 13:27	
EPA 9056	Fluoride	0.19	mg/L	0.050	09/30/21 13:27	
EPA 9056	Sulfate	24.2	mg/L	2.5	09/23/21 23:59	
EPA 6010	Calcium	80.7	mg/L	1.0	09/30/21 12:25	
EPA 6020	Arsenic	0.043	mg/L	0.0010	09/27/21 10:07	
EPA 6020	Barium	0.094	mg/L	0.0010	09/27/21 10:07	
EPA 6020	Cobalt	0.0028	mg/L	0.0010	09/27/21 10:07	
EPA 6020	Molybdenum	0.0041	mg/L	0.0010	09/27/21 10:07	
SM 2540C	Total Dissolved Solids	325	mg/L	10.0	09/22/21 08:49	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	09/18/21 11:27	H3
50297587004	GAMW-12B-091621					
EPA 9056	Chloride	20.6	mg/L	2.5	09/24/21 00:26	
EPA 9056	Fluoride	0.079	mg/L	0.050	09/30/21 13:40	
EPA 9056	Sulfate	57.5	mg/L	2.5	09/24/21 00:26	
EPA 6010	Boron	0.32	mg/L	0.10	09/30/21 12:27	
EPA 6010	Calcium	107	mg/L	1.0	09/30/21 12:27	
EPA 6020	Barium	0.14	mg/L	0.0010	09/27/21 10:11	
EPA 6020	Molybdenum	0.0013	mg/L	0.0010	09/27/21 10:11	
SM 2540C	Total Dissolved Solids	451	mg/L	10.0	09/22/21 08:49	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	09/18/21 11:28	H3
50297587005	GAMW-18-091621					
EPA 9056	Chloride	97.0	mg/L	2.5	09/24/21 02:57	
EPA 9056	Fluoride	0.16	mg/L	0.050	09/24/21 02:43	
EPA 9056	Sulfate	1160	mg/L	25.0	09/24/21 03:11	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50297587005	GAMW-18-091621					
EPA 6010	Boron	5.9	mg/L	0.10	09/30/21 12:29	
EPA 6010	Calcium	456	mg/L	5.0	09/30/21 13:11	
EPA 6010	Lithium	0.011	mg/L	0.0080	09/30/21 12:29	
EPA 6020	Barium	0.057	mg/L	0.0010	09/27/21 10:15	
EPA 6020	Cobalt	0.0011	mg/L	0.0010	09/27/21 10:15	
EPA 6020	Molybdenum	0.14	mg/L	0.0010	09/27/21 10:15	
EPA 6020	Selenium	0.028	mg/L	0.0010	09/27/21 10:15	
SM 2540C	Total Dissolved Solids	2020	mg/L	20.0	09/22/21 08:50	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	09/18/21 11:30	H3
50297587006	FB-01-091621					
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	09/18/21 11:33	H3
50297724001	GAMW-03-091721					
EPA 9056	Chloride	4.2	mg/L	0.25	09/25/21 04:39	
EPA 9056	Fluoride	0.20	mg/L	0.050	09/25/21 04:39	
EPA 9056	Sulfate	40.2	mg/L	2.5	09/25/21 04:53	
EPA 6010	Boron	0.13	mg/L	0.10	10/01/21 08:10	
EPA 6010	Calcium	70.2	mg/L	1.0	10/01/21 08:10	
EPA 6020	Arsenic	0.019	mg/L	0.0010	09/30/21 01:45	
EPA 6020	Barium	0.080	mg/L	0.0010	09/30/21 01:45	
EPA 6020	Molybdenum	0.0084	mg/L	0.0010	09/30/21 01:45	
SM 2540C	Total Dissolved Solids	298	mg/L	10.0	09/22/21 09:24	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	09/22/21 13:29	H3
50297724002	GAMW-03B-091721					
EPA 9056	Chloride	23.1	mg/L	2.5	09/25/21 05:35	
EPA 9056	Fluoride	0.23	mg/L	0.050	09/25/21 05:21	
EPA 9056	Sulfate	78.6	mg/L	2.5	09/25/21 05:35	
EPA 6010	Boron	0.27	mg/L	0.10	10/01/21 08:12	
EPA 6010	Calcium	102	mg/L	1.0	10/01/21 08:12	
EPA 6020	Barium	0.12	mg/L	0.0010	09/30/21 01:49	
EPA 6020	Molybdenum	0.0066	mg/L	0.0010	09/30/21 01:49	
SM 2540C	Total Dissolved Solids	439	mg/L	10.0	09/22/21 09:24	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	09/22/21 13:23	H3
50297724003	GAMW-13-091721					
EPA 9056	Chloride	10.5	mg/L	0.25	09/25/21 06:30	
EPA 9056	Fluoride	0.31	mg/L	0.050	09/25/21 06:30	
EPA 9056	Sulfate	49.3	mg/L	2.5	09/25/21 06:44	
EPA 6010	Boron	0.19	mg/L	0.10	10/01/21 08:15	
EPA 6010	Calcium	71.2	mg/L	1.0	10/01/21 08:15	
EPA 6020	Arsenic	0.0076	mg/L	0.0010	09/30/21 01:53	
EPA 6020	Barium	0.080	mg/L	0.0010	09/30/21 01:53	
EPA 6020	Molybdenum	0.0040	mg/L	0.0010	09/30/21 01:53	
SM 2540C	Total Dissolved Solids	317	mg/L	10.0	09/22/21 09:24	
SM 4500-H+B	pH at 25 Degrees C	6.9	Std. Units	0.10	09/22/21 13:09	H3

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50297724004	GAMW-13B-091721					
EPA 9056	Chloride	26.0	mg/L	2.5	09/25/21 07:26	
EPA 9056	Fluoride	0.25	mg/L	0.050	09/25/21 07:12	
EPA 9056	Sulfate	137	mg/L	2.5	09/25/21 07:26	
EPA 6010	Boron	0.60	mg/L	0.10	10/01/21 08:30	
EPA 6010	Calcium	77.8	mg/L	1.0	10/01/21 08:30	
EPA 6020	Arsenic	0.0010	mg/L	0.0010	09/30/21 01:57	
EPA 6020	Barium	0.077	mg/L	0.0010	09/30/21 01:57	
EPA 6020	Molybdenum	0.016	mg/L	0.0010	09/30/21 01:57	
SM 2540C	Total Dissolved Solids	395	mg/L	10.0	09/22/21 09:24	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	09/22/21 13:06	H3
50297724005	GAMW-14-091721					
EPA 9056	Chloride	10.6	mg/L	0.25	09/25/21 07:53	
EPA 9056	Fluoride	0.26	mg/L	0.050	09/25/21 07:53	
EPA 9056	Sulfate	31.8	mg/L	2.5	09/25/21 08:07	
EPA 6010	Boron	0.20	mg/L	0.10	10/01/21 08:32	
EPA 6010	Calcium	82.6	mg/L	1.0	10/01/21 08:32	
EPA 6020	Arsenic	0.039	mg/L	0.0010	09/30/21 02:01	
EPA 6020	Barium	0.081	mg/L	0.0010	09/30/21 02:01	
EPA 6020	Cobalt	0.024	mg/L	0.0010	09/30/21 02:01	
EPA 6020	Molybdenum	0.0077	mg/L	0.0010	09/30/21 02:01	
SM 2540C	Total Dissolved Solids	330	mg/L	10.0	09/22/21 09:25	
SM 4500-H+B	pH at 25 Degrees C	6.8	Std. Units	0.10	09/22/21 13:00	H3
50297724006	GAMW-14B-091721					
EPA 9056	Chloride	85.2	mg/L	2.5	09/25/21 09:16	
EPA 9056	Fluoride	0.28	mg/L	0.050	09/25/21 09:03	
EPA 9056	Sulfate	841	mg/L	25.0	09/25/21 09:30	
EPA 6010	Boron	2.7	mg/L	0.10	10/01/21 08:34	
EPA 6010	Calcium	112	mg/L	1.0	10/01/21 08:34	
EPA 6020	Barium	0.059	mg/L	0.0010	09/30/21 02:14	
EPA 6020	Molybdenum	0.040	mg/L	0.0010	09/30/21 02:14	
SM 2540C	Total Dissolved Solids	1660	mg/L	20.0	09/22/21 09:25	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	09/22/21 12:57	H3
50297724007	GAMW-18B-091721					
EPA 9056	Chloride	86.3	mg/L	2.5	09/25/21 09:58	
EPA 9056	Fluoride	0.60	mg/L	0.050	09/25/21 09:44	
EPA 9056	Sulfate	1120	mg/L	25.0	09/25/21 10:12	
EPA 6010	Boron	8.2	mg/L	0.10	10/01/21 08:36	
EPA 6010	Calcium	323	mg/L	2.0	10/01/21 10:16	
EPA 6010	Lithium	0.028	mg/L	0.0080	10/01/21 08:36	
EPA 6020	Arsenic	0.0027	mg/L	0.0010	09/30/21 02:18	
EPA 6020	Barium	0.029	mg/L	0.0010	09/30/21 02:18	
EPA 6020	Molybdenum	0.031	mg/L	0.0010	09/30/21 02:18	
SM 2540C	Total Dissolved Solids	2010	mg/L	20.0	09/22/21 09:25	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	09/22/21 13:27	H3

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50297724008	GAMW-68-091721					
EPA 9056	Chloride	20.4	mg/L	2.5	09/25/21 10:40	
EPA 9056	Fluoride	0.28	mg/L	0.050	09/25/21 10:26	
EPA 9056	Sulfate	81.3	mg/L	2.5	09/25/21 10:40	
EPA 6010	Calcium	66.4	mg/L	1.0	10/01/21 08:39	
EPA 6010	Lithium	0.0081	mg/L	0.0080	10/01/21 08:39	
EPA 6020	Barium	0.10	mg/L	0.0010	09/30/21 02:22	
EPA 6020	Molybdenum	0.0045	mg/L	0.0010	09/30/21 02:22	
SM 2540C	Total Dissolved Solids	315	mg/L	10.0	09/22/21 09:25	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	09/22/21 12:58	H3
50297724009	GAMW-68B-091721					
EPA 9056	Chloride	18.4	mg/L	2.5	09/25/21 11:49	
EPA 9056	Fluoride	0.20	mg/L	0.050	09/25/21 11:35	
EPA 9056	Sulfate	63.5	mg/L	2.5	09/25/21 11:49	
EPA 6010	Calcium	44.7	mg/L	1.0	10/01/21 08:41	
EPA 6020	Barium	0.10	mg/L	0.0010	09/30/21 02:26	
EPA 6020	Molybdenum	0.0027	mg/L	0.0010	09/30/21 02:26	
SM 2540C	Total Dissolved Solids	242	mg/L	10.0	09/22/21 09:25	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	09/22/21 13:08	H3
50297724010	FD-01-091721					
EPA 9056	Chloride	85.8	mg/L	2.5	09/25/21 12:31	
EPA 9056	Fluoride	0.60	mg/L	0.050	09/25/21 12:17	
EPA 9056	Sulfate	1100	mg/L	25.0	09/25/21 12:45	
EPA 6010	Boron	8.2	mg/L	0.10	10/01/21 08:43	
EPA 6010	Calcium	325	mg/L	2.0	10/01/21 10:18	
EPA 6010	Lithium	0.031	mg/L	0.0080	10/01/21 08:43	
EPA 6020	Arsenic	0.0028	mg/L	0.0010	09/30/21 02:31	
EPA 6020	Barium	0.028	mg/L	0.0010	09/30/21 02:31	
EPA 6020	Molybdenum	0.030	mg/L	0.0010	09/30/21 02:31	
SM 2540C	Total Dissolved Solids	1930	mg/L	20.0	09/22/21 09:48	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	09/22/21 13:14	H3
50297724011	FB-03-091721					
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	09/22/21 13:35	H3
50298104001	GAMW-07-092121					
EPA 9056	Chloride	12.0	mg/L	0.25	09/28/21 17:54	
EPA 9056	Fluoride	0.85	mg/L	0.050	09/28/21 17:54	
EPA 9056	Sulfate	359	mg/L	25.0	09/30/21 17:44	
EPA 6010	Boron	0.85	mg/L	0.10	10/05/21 12:21	
EPA 6010	Calcium	212	mg/L	2.0	10/05/21 13:30	
EPA 6010	Lithium	0.0088	mg/L	0.0080	10/05/21 12:21	
EPA 6020	Arsenic	0.0013	mg/L	0.0010	09/30/21 02:51	
EPA 6020	Barium	0.052	mg/L	0.0010	09/30/21 02:51	
EPA 6020	Cobalt	0.0060	mg/L	0.0010	09/30/21 02:51	
EPA 6020	Molybdenum	0.010	mg/L	0.0010	09/30/21 02:51	
EPA 6020	Selenium	0.0039	mg/L	0.0010	09/30/21 02:51	
SM 2540C	Total Dissolved Solids	894	mg/L	10.0	09/24/21 11:44	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50298104001	GAMW-07-092121					
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	09/24/21 11:12	H3
50298104002	GAMW-16R-092121					
EPA 9056	Chloride	112	mg/L	2.5	09/28/21 18:36	
EPA 9056	Fluoride	0.57	mg/L	0.050	09/28/21 18:22	
EPA 9056	Sulfate	633	mg/L	25.0	09/30/21 17:58	
EPA 6010	Boron	4.1	mg/L	0.10	10/05/21 12:23	
EPA 6010	Calcium	275	mg/L	2.0	10/05/21 13:33	
EPA 6010	Lithium	0.011	mg/L	0.0080	10/05/21 12:23	
EPA 6020	Arsenic	0.0088	mg/L	0.0010	09/30/21 02:56	
EPA 6020	Barium	0.060	mg/L	0.0010	09/30/21 02:56	
EPA 6020	Cobalt	0.0038	mg/L	0.0010	09/30/21 02:56	
EPA 6020	Molybdenum	0.019	mg/L	0.0010	09/30/21 02:56	
SM 2540C	Total Dissolved Solids	1370	mg/L	20.0	09/24/21 11:44	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	09/24/21 11:13	H3
50298104003	GAMW-16BR-092121					
EPA 9056	Chloride	516	mg/L	25.0	09/30/21 18:11	
EPA 9056	Fluoride	2.6	mg/L	0.050	09/28/21 18:50	
EPA 9056	Sulfate	2970	mg/L	250	10/02/21 02:40	
EPA 6010	Boron	25.3	mg/L	0.10	10/05/21 12:25	
EPA 6010	Calcium	265	mg/L	2.0	10/05/21 13:35	
EPA 6010	Lithium	0.031	mg/L	0.0080	10/05/21 12:25	
EPA 6020	Arsenic	0.0042	mg/L	0.0010	09/30/21 03:00	
EPA 6020	Barium	0.041	mg/L	0.0010	09/30/21 03:00	
EPA 6020	Chromium	0.0023	mg/L	0.0020	09/30/21 03:00	
EPA 6020	Molybdenum	0.043	mg/L	0.0010	09/30/21 03:00	
EPA 6020	Selenium	0.0013	mg/L	0.0010	09/30/21 03:00	
SM 2540C	Total Dissolved Solids	5970	mg/L	66.7	09/24/21 11:44	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	09/24/21 11:14	H3
50298104004	FD-02-092121					
EPA 9056	Chloride	11.9	mg/L	0.25	09/28/21 19:17	
EPA 9056	Fluoride	0.85	mg/L	0.050	09/28/21 19:17	
EPA 9056	Sulfate	362	mg/L	25.0	09/30/21 18:25	
EPA 6010	Boron	0.91	mg/L	0.10	10/05/21 12:27	
EPA 6010	Calcium	215	mg/L	2.0	10/05/21 13:42	
EPA 6010	Lithium	0.0091	mg/L	0.0080	10/05/21 12:27	
EPA 6020	Arsenic	0.0012	mg/L	0.0010	09/30/21 03:04	
EPA 6020	Barium	0.053	mg/L	0.0010	09/30/21 03:04	
EPA 6020	Cobalt	0.0061	mg/L	0.0010	09/30/21 03:04	
EPA 6020	Molybdenum	0.010	mg/L	0.0010	09/30/21 03:04	
EPA 6020	Selenium	0.0044	mg/L	0.0010	09/30/21 03:04	
SM 2540C	Total Dissolved Solids	887	mg/L	10.0	09/24/21 11:44	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	09/24/21 11:15	H3
50298122001	GAMW-15-092221					
EPA 9056	Chloride	49.8	mg/L	2.5	09/28/21 20:27	
EPA 9056	Fluoride	0.77	mg/L	0.050	09/28/21 20:13	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50298122001	GAMW-15-092221					
EPA 9056	Sulfate	265	mg/L	25.0	09/30/21 18:38	
EPA 6010	Boron	3.5	mg/L	0.10	10/05/21 12:57	
EPA 6010	Calcium	136	mg/L	1.0	10/05/21 12:57	
EPA 6010	Lithium	0.010	mg/L	0.0080	10/05/21 12:57	
EPA 6020	Arsenic	0.090	mg/L	0.0010	09/30/21 03:17	
EPA 6020	Barium	0.050	mg/L	0.0010	09/30/21 03:17	
EPA 6020	Cobalt	0.0021	mg/L	0.0010	09/30/21 03:17	
EPA 6020	Molybdenum	0.027	mg/L	0.0010	09/30/21 03:17	
SM 2540C	Total Dissolved Solids	675	mg/L	10.0	09/24/21 12:01	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	09/24/21 11:32	H3
50298122002	GAMW-15B-092221					
EPA 9056	Chloride	269	mg/L	25.0	09/30/21 19:45	
EPA 9056	Fluoride	0.44	mg/L	0.050	09/28/21 20:41	
EPA 9056	Sulfate	900	mg/L	25.0	09/30/21 19:45	
EPA 6010	Boron	28.1	mg/L	0.10	10/05/21 12:59	
EPA 6010	Calcium	352	mg/L	2.0	10/05/21 13:44	
EPA 6010	Lithium	0.026	mg/L	0.0080	10/05/21 12:59	
EPA 6020	Barium	0.17	mg/L	0.0020	09/30/21 04:15	
EPA 6020	Molybdenum	0.0029	mg/L	0.0010	09/30/21 03:21	
SM 2540C	Total Dissolved Solids	2030	mg/L	40.0	09/24/21 12:01	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	09/24/21 11:34	H3
50298122003	GAMW-17-092221					
EPA 9056	Chloride	175	mg/L	25.0	09/30/21 18:52	
EPA 9056	Fluoride	1.3	mg/L	0.050	09/28/21 22:04	
EPA 9056	Sulfate	964	mg/L	25.0	09/30/21 18:52	
EPA 6010	Boron	12.5	mg/L	0.10	10/05/21 13:21	
EPA 6010	Calcium	346	mg/L	2.0	10/05/21 13:52	
EPA 6010	Lithium	0.021	mg/L	0.0080	10/05/21 13:21	
EPA 6020	Arsenic	0.0027	mg/L	0.0010	09/30/21 03:54	
EPA 6020	Barium	0.17	mg/L	0.0010	09/30/21 03:54	
EPA 6020	Molybdenum	0.010	mg/L	0.0010	09/30/21 03:54	
EPA 6020	Selenium	0.0036	mg/L	0.0010	09/30/21 03:54	
SM 2540C	Total Dissolved Solids	1890	mg/L	20.0	09/24/21 12:01	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	09/24/21 11:36	H3
50298122004	GAMW-17B-092221					
EPA 9056	Chloride	105	mg/L	2.5	09/28/21 23:13	
EPA 9056	Fluoride	0.49	mg/L	0.050	09/28/21 22:59	
EPA 9056	Sulfate	365	mg/L	25.0	09/30/21 19:05	
EPA 6010	Boron	7.3	mg/L	0.10	10/05/21 13:23	
EPA 6010	Calcium	155	mg/L	1.0	10/05/21 13:23	
EPA 6020	Arsenic	0.0021	mg/L	0.0010	09/30/21 03:58	
EPA 6020	Barium	0.053	mg/L	0.0010	09/30/21 03:58	
EPA 6020	Molybdenum	0.012	mg/L	0.0010	09/30/21 03:58	
SM 2540C	Total Dissolved Solids	928	mg/L	20.0	09/24/21 12:01	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	09/24/21 11:37	H3

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50298122005	FB-02-092221					
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	09/24/21 11:42	H3
50298266001	GAMW-04-092321					
EPA 9056	Chloride	3.6	mg/L	0.25	09/29/21 04:12	
EPA 9056	Fluoride	0.35	mg/L	0.050	09/29/21 04:12	
EPA 9056	Sulfate	121	mg/L	2.5	09/29/21 04:29	
EPA 6010	Boron	0.35	mg/L	0.10	10/07/21 10:51	
EPA 6010	Calcium	107	mg/L	1.0	10/07/21 10:51	
EPA 6020	Arsenic	0.0036	mg/L	0.0010	10/05/21 11:21	
EPA 6020	Barium	0.056	mg/L	0.0010	10/05/21 01:52	
EPA 6020	Molybdenum	0.016	mg/L	0.0010	10/05/21 01:52	
SM 2540C	Total Dissolved Solids	380	mg/L	10.0	09/28/21 11:16	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	09/28/21 13:07	H3
50298266002	GAMW-07B-092321					
EPA 9056	Chloride	60.3	mg/L	2.5	09/29/21 05:04	
EPA 9056	Fluoride	0.95	mg/L	0.050	09/29/21 04:46	
EPA 9056	Sulfate	1060	mg/L	25.0	09/30/21 19:36	
EPA 6010	Boron	6.9	mg/L	0.10	10/07/21 10:53	
EPA 6010	Calcium	373	mg/L	2.0	10/07/21 11:25	
EPA 6010	Lithium	0.013	mg/L	0.0080	10/07/21 10:53	
EPA 6020	Arsenic	0.0022	mg/L	0.0010	10/05/21 11:53	
EPA 6020	Barium	0.037	mg/L	0.0010	10/05/21 02:24	
EPA 6020	Molybdenum	0.023	mg/L	0.0010	10/05/21 02:24	
SM 2540C	Total Dissolved Solids	1790	mg/L	20.0	09/28/21 11:16	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	09/28/21 13:10	H3
50298266003	GAMW-09-092321					
EPA 9056	Chloride	54.7	mg/L	2.5	09/29/21 05:38	
EPA 9056	Fluoride	0.34	mg/L	0.050	09/29/21 05:21	
EPA 9056	Sulfate	509	mg/L	25.0	09/30/21 19:53	
EPA 6010	Boron	3.8	mg/L	0.10	10/07/21 10:55	
EPA 6010	Calcium	227	mg/L	2.0	10/07/21 11:27	
EPA 6020	Barium	0.053	mg/L	0.0010	10/05/21 02:29	
EPA 6020	Molybdenum	0.058	mg/L	0.0010	10/05/21 02:29	
EPA 6020	Selenium	0.0079	mg/L	0.0010	10/05/21 11:58	
SM 2540C	Total Dissolved Solids	1040	mg/L	10.0	09/28/21 11:16	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	09/28/21 13:10	H3
50298266004	GAMW-09B-092321					
EPA 9056	Chloride	113	mg/L	2.5	09/29/21 06:47	
EPA 9056	Fluoride	1.3	mg/L	0.050	09/29/21 06:30	
EPA 9056	Sulfate	773	mg/L	25.0	09/30/21 20:11	
EPA 6010	Boron	6.7	mg/L	0.10	10/07/21 10:57	
EPA 6010	Calcium	163	mg/L	1.0	10/07/21 10:57	
EPA 6010	Lithium	0.0095	mg/L	0.0080	10/07/21 10:57	
EPA 6020	Arsenic	0.0031	mg/L	0.0010	10/05/21 12:02	
EPA 6020	Barium	0.059	mg/L	0.0010	10/05/21 02:33	
EPA 6020	Molybdenum	0.015	mg/L	0.0010	10/05/21 02:33	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50298266004	GAMW-09B-092321					
SM 2540C	Total Dissolved Solids	1430	mg/L	20.0	09/28/21 11:16	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	09/28/21 13:11	H3
50298266005	FD-03-092321					
EPA 9056	Chloride	3.7	mg/L	0.25	09/29/21 07:05	
EPA 9056	Fluoride	0.35	mg/L	0.050	09/29/21 07:05	
EPA 9056	Sulfate	116	mg/L	2.5	09/30/21 20:28	
EPA 6010	Boron	0.36	mg/L	0.10	10/07/21 10:59	
EPA 6010	Calcium	108	mg/L	1.0	10/07/21 10:59	
EPA 6020	Arsenic	0.0041	mg/L	0.0010	10/05/21 12:07	
EPA 6020	Barium	0.057	mg/L	0.0010	10/05/21 02:38	
EPA 6020	Molybdenum	0.015	mg/L	0.0010	10/05/21 02:38	
SM 2540C	Total Dissolved Solids	381	mg/L	10.0	09/28/21 11:17	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	09/28/21 13:35	H3
50298266006	FB-04-092321					
SM 4500-H+B	pH at 25 Degrees C	7.9	Std. Units	0.10	09/28/21 13:37	H3
50298401001	GAMW-08-092421					
EPA 9056	Chloride	14.9	mg/L	2.5	10/01/21 01:55	
EPA 9056	Fluoride	0.44	mg/L	0.050	10/01/21 01:41	
EPA 9056	Sulfate	841	mg/L	25.0	10/02/21 03:47	
EPA 6010	Boron	1.1	mg/L	0.10	10/05/21 10:43	
EPA 6010	Calcium	260	mg/L	2.0	10/05/21 11:41	
EPA 6010	Lithium	0.015	mg/L	0.0080	10/05/21 10:43	
EPA 6020	Arsenic	0.0013	mg/L	0.0010	10/05/21 12:26	
EPA 6020	Barium	0.076	mg/L	0.0010	10/05/21 02:56	
EPA 6020	Cadmium	0.00022	mg/L	0.00020	10/05/21 02:56	
EPA 6020	Cobalt	0.015	mg/L	0.0010	10/05/21 12:26	
EPA 6020	Molybdenum	0.043	mg/L	0.0010	10/05/21 02:56	
EPA 6020	Selenium	0.0050	mg/L	0.0010	10/05/21 12:26	
SM 2540C	Total Dissolved Solids	2380	mg/L	20.0	09/28/21 11:25	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	09/28/21 14:29	H3
50298401002	GAMW-08B-092421					
EPA 9056	Chloride	179	mg/L	25.0	10/02/21 04:00	
EPA 9056	Fluoride	0.73	mg/L	0.050	10/01/21 02:09	
EPA 9056	Sulfate	1060	mg/L	25.0	10/02/21 04:00	
EPA 6010	Boron	8.4	mg/L	0.10	10/05/21 10:45	
EPA 6010	Calcium	235	mg/L	2.0	10/05/21 11:47	
EPA 6010	Lithium	0.014	mg/L	0.0080	10/05/21 10:45	
EPA 6020	Barium	0.046	mg/L	0.0010	10/05/21 03:01	
EPA 6020	Molybdenum	0.011	mg/L	0.0010	10/05/21 03:01	
SM 2540C	Total Dissolved Solids	2040	mg/L	40.0	09/28/21 11:25	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	09/28/21 14:30	H3
50298401003	GAMW-60-092421					
EPA 9056	Chloride	16.5	mg/L	2.5	10/01/21 02:51	
EPA 9056	Fluoride	0.51	mg/L	0.050	10/01/21 02:37	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50298401003	GAMW-60-092421					
EPA 9056	Sulfate	1050	mg/L	25.0	10/02/21 04:14	
EPA 6010	Boron	0.97	mg/L	0.10	10/05/21 10:47	
EPA 6010	Calcium	379	mg/L	2.0	10/05/21 11:49	
EPA 6010	Lithium	0.015	mg/L	0.0080	10/05/21 10:47	
EPA 6020	Barium	0.031	mg/L	0.0010	10/05/21 03:06	
EPA 6020	Cobalt	0.0020	mg/L	0.0010	10/05/21 12:35	
EPA 6020	Molybdenum	0.015	mg/L	0.0010	10/05/21 03:06	
SM 2540C	Total Dissolved Solids	1540	mg/L	20.0	09/28/21 11:25	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	09/28/21 14:32	H3
50298401004	GAMW-60B-092421					
EPA 9056	Chloride	69.6	mg/L	2.5	10/01/21 03:46	
EPA 9056	Fluoride	1.1	mg/L	0.050	10/01/21 03:32	
EPA 9056	Sulfate	443	mg/L	25.0	10/02/21 04:27	
EPA 6010	Boron	7.3	mg/L	0.10	10/05/21 10:49	
EPA 6010	Calcium	309	mg/L	2.0	10/05/21 11:51	
EPA 6010	Lithium	0.045	mg/L	0.0080	10/05/21 10:49	
EPA 6020	Barium	0.063	mg/L	0.0010	10/05/21 03:10	
EPA 6020	Molybdenum	0.37	mg/L	0.0050	10/05/21 13:40	
SM 2540C	Total Dissolved Solids	1440	mg/L	20.0	09/28/21 11:26	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	09/28/21 14:34	H3
50298717001	GAMW-51-092921					
EPA 9056	Chloride	2.3	mg/L	0.25	10/02/21 02:11	
EPA 9056	Fluoride	0.34	mg/L	0.050	10/02/21 02:11	
EPA 9056	Sulfate	193	mg/L	2.5	10/02/21 02:28	
EPA 6010	Boron	0.50	mg/L	0.10	10/13/21 08:38	
EPA 6010	Calcium	147	mg/L	1.0	10/13/21 08:38	
EPA 6010	Lithium	0.012	mg/L	0.0080	10/13/21 08:38	F5
EPA 6020	Arsenic	0.0016	mg/L	0.0010	10/05/21 12:44	
EPA 6020	Barium	0.11	mg/L	0.0010	10/05/21 03:24	
EPA 6020	Cobalt	0.0031	mg/L	0.0010	10/05/21 12:44	
EPA 6020	Molybdenum	0.0098	mg/L	0.0010	10/05/21 03:24	
SM 2540C	Total Dissolved Solids	600	mg/L	10.0	10/01/21 09:46	
SM 4500-H+B	pH at 25 Degrees C	6.9	Std. Units	0.10	09/30/21 16:17	H3
50298717002	GAMW-51B-092921					
EPA 9056	Chloride	53.2	mg/L	2.5	10/02/21 03:55	
EPA 9056	Fluoride	0.82	mg/L	0.050	10/02/21 03:37	
EPA 9056	Sulfate	1480	mg/L	25.0	10/02/21 04:12	
EPA 6010	Boron	7.0	mg/L	0.10	10/13/21 08:40	
EPA 6010	Calcium	282	mg/L	2.0	10/13/21 08:50	
EPA 6010	Lithium	0.078	mg/L	0.0080	10/13/21 08:40	F5
EPA 6020	Arsenic	0.0044	mg/L	0.0010	10/05/21 12:58	
EPA 6020	Barium	0.077	mg/L	0.0010	10/05/21 03:29	
EPA 6020	Molybdenum	0.15	mg/L	0.0010	10/05/21 03:29	
SM 2540C	Total Dissolved Solids	2270	mg/L	40.0	10/01/21 09:47	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	09/30/21 16:33	H3

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50298717003	GAMW-59-092921					
EPA 9056	Chloride	21.1	mg/L	2.5	10/02/21 04:46	
EPA 9056	Fluoride	0.70	mg/L	0.050	10/02/21 04:29	
EPA 9056	Sulfate	434	mg/L	25.0	10/02/21 05:04	
EPA 6010	Boron	1.0	mg/L	0.10	10/13/21 08:43	
EPA 6010	Calcium	217	mg/L	2.0	10/13/21 08:56	
EPA 6010	Lithium	0.018	mg/L	0.0080	10/13/21 08:43	F5
EPA 6020	Arsenic	0.0020	mg/L	0.0010	10/05/21 13:03	
EPA 6020	Barium	0.055	mg/L	0.0010	10/05/21 03:33	
EPA 6020	Molybdenum	0.045	mg/L	0.0010	10/05/21 03:33	
SM 2540C	Total Dissolved Solids	866	mg/L	20.0	10/01/21 09:47	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	09/30/21 16:36	H3
50298717004	GAMW-59B-092921					
EPA 9056	Chloride	51.3	mg/L	2.5	10/02/21 05:38	
EPA 9056	Fluoride	0.53	mg/L	0.050	10/02/21 05:21	
EPA 9056	Sulfate	1180	mg/L	25.0	10/02/21 05:56	
EPA 6010	Boron	6.3	mg/L	0.10	10/13/21 08:45	
EPA 6010	Calcium	253	mg/L	2.0	10/13/21 08:59	
EPA 6010	Lithium	0.019	mg/L	0.0080	10/13/21 08:45	F5
EPA 6020	Barium	0.040	mg/L	0.0010	10/05/21 03:38	
EPA 6020	Molybdenum	0.050	mg/L	0.0010	10/05/21 03:38	
SM 2540C	Total Dissolved Solids	1950	mg/L	40.0	10/01/21 09:47	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	09/30/21 16:40	H3
50298717005	FD-04-092921					
EPA 9056	Chloride	2.3	mg/L	0.25	10/02/21 06:47	
EPA 9056	Fluoride	0.34	mg/L	0.050	10/02/21 06:47	
EPA 9056	Sulfate	191	mg/L	2.5	10/02/21 07:05	
EPA 6010	Boron	0.51	mg/L	0.10	10/13/21 08:47	
EPA 6010	Calcium	148	mg/L	1.0	10/13/21 08:47	
EPA 6010	Lithium	0.012	mg/L	0.0080	10/13/21 08:47	F5
EPA 6020	Arsenic	0.0016	mg/L	0.0010	10/05/21 13:12	
EPA 6020	Barium	0.11	mg/L	0.0010	10/05/21 03:43	
EPA 6020	Cobalt	0.0031	mg/L	0.0010	10/05/21 13:12	
EPA 6020	Molybdenum	0.0092	mg/L	0.0010	10/05/21 03:43	
SM 2540C	Total Dissolved Solids	597	mg/L	10.0	10/01/21 09:47	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	09/30/21 16:32	H3
50298902001	GAMW-52-093021					
EPA 9056	Chloride	15.9	mg/L	2.5	10/08/21 23:01	
EPA 9056	Fluoride	0.31	mg/L	0.050	10/08/21 22:44	
EPA 9056	Sulfate	50.1	mg/L	2.5	10/08/21 23:01	
EPA 6010	Boron	0.10	mg/L	0.10	10/14/21 08:51	
EPA 6010	Calcium	62.5	mg/L	1.0	10/14/21 08:51	
EPA 6020	Barium	0.014	mg/L	0.0010	10/13/21 05:11	
EPA 6020	Molybdenum	0.0025	mg/L	0.0010	10/13/21 05:11	
SM 2540C	Total Dissolved Solids	276	mg/L	10.0	10/02/21 10:13	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	10/07/21 09:18	H3

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50298902002	GAMW-52B-093021					
EPA 9056	Chloride	135	mg/L	25.0	10/11/21 11:29	
EPA 9056	Fluoride	0.38	mg/L	0.050	10/08/21 23:18	
EPA 9056	Sulfate	156	mg/L	2.5	10/08/21 23:36	
EPA 6010	Boron	0.64	mg/L	0.10	10/14/21 08:53	
EPA 6010	Calcium	120	mg/L	1.0	10/14/21 08:53	
EPA 6020	Arsenic	0.0011	mg/L	0.0010	10/13/21 05:15	
EPA 6020	Barium	0.14	mg/L	0.0010	10/13/21 05:15	
EPA 6020	Molybdenum	0.011	mg/L	0.0010	10/13/21 05:15	
SM 2540C	Total Dissolved Solids	667	mg/L	10.0	10/02/21 10:14	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	10/07/21 09:20	H3
50298902003	GAMW-53-093021					
EPA 9056	Chloride	2.7	mg/L	0.25	10/09/21 00:10	
EPA 9056	Sulfate	49.4	mg/L	2.5	10/09/21 00:27	
EPA 6010	Calcium	28.3	mg/L	1.0	10/14/21 08:56	
EPA 6020	Arsenic	0.0012	mg/L	0.0010	10/13/21 05:19	
EPA 6020	Barium	0.033	mg/L	0.0010	10/13/21 05:19	
EPA 6020	Molybdenum	0.0097	mg/L	0.0010	10/13/21 05:19	
EPA 6020	Selenium	0.0019	mg/L	0.0010	10/13/21 05:19	
SM 2540C	Total Dissolved Solids	147	mg/L	10.0	10/02/21 10:14	
SM 4500-H+B	pH at 25 Degrees C	6.4	Std. Units	0.10	10/07/21 09:23	H3
50298902004	GAMW-53B-093021					
EPA 9056	Chloride	66.4	mg/L	2.5	10/09/21 01:02	
EPA 9056	Fluoride	0.46	mg/L	0.050	10/09/21 00:45	
EPA 9056	Sulfate	295	mg/L	25.0	10/11/21 11:45	
EPA 6010	Boron	2.7	mg/L	0.10	10/14/21 08:58	
EPA 6010	Calcium	128	mg/L	1.0	10/14/21 08:58	
EPA 6020	Arsenic	0.0014	mg/L	0.0010	10/13/21 05:23	
EPA 6020	Barium	0.051	mg/L	0.0010	10/13/21 05:23	
EPA 6020	Molybdenum	0.011	mg/L	0.0010	10/13/21 05:23	
SM 2540C	Total Dissolved Solids	802	mg/L	10.0	10/02/21 10:14	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	10/07/21 09:25	H3
50298977001	GAMW-54-100121					
EPA 9056	Chloride	24.6	mg/L	2.5	10/11/21 14:53	
EPA 9056	Fluoride	0.30	mg/L	0.050	10/11/21 14:35	
EPA 9056	Sulfate	191	mg/L	2.5	10/11/21 14:53	
EPA 6010	Boron	0.63	mg/L	0.10	10/14/21 09:14	
EPA 6010	Calcium	114	mg/L	1.0	10/14/21 09:14	
EPA 6020	Arsenic	0.024	mg/L	0.0010	10/13/21 07:08	
EPA 6020	Barium	0.048	mg/L	0.0010	10/13/21 07:08	
EPA 6020	Molybdenum	0.025	mg/L	0.0010	10/13/21 07:08	
SM 2540C	Total Dissolved Solids	506	mg/L	10.0	10/02/21 14:36	
SM 4500-H+B	pH at 25 Degrees C	6.8	Std. Units	0.10	10/07/21 09:27	H3
50298977002	GAMW-54B-100121					
EPA 9056	Chloride	70.4	mg/L	2.5	10/11/21 15:52	
EPA 9056	Fluoride	0.52	mg/L	0.050	10/11/21 15:34	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50298977002	GAMW-54B-100121					
EPA 9056	Sulfate	501	mg/L	25.0	10/11/21 16:11	
EPA 6010	Boron	3.1	mg/L	0.10	10/14/21 09:16	
EPA 6010	Calcium	190	mg/L	1.0	10/14/21 09:16	
EPA 6020	Arsenic	0.0040	mg/L	0.0010	10/13/21 07:12	
EPA 6020	Barium	0.056	mg/L	0.0010	10/13/21 07:12	
EPA 6020	Molybdenum	0.025	mg/L	0.0010	10/13/21 07:12	
SM 2540C	Total Dissolved Solids	1030	mg/L	20.0	10/02/21 14:36	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	10/07/21 09:29	H3
50298977003	GAMW-55R-100121					
EPA 9056	Chloride	44.1	mg/L	2.5	10/11/21 18:01	
EPA 9056	Fluoride	0.51	mg/L	0.050	10/11/21 17:43	
EPA 9056	Sulfate	389	mg/L	25.0	10/11/21 18:20	
EPA 6010	Boron	1.7	mg/L	0.10	10/14/21 09:36	
EPA 6010	Calcium	197	mg/L	1.0	10/14/21 09:36	
EPA 6010	Lithium	0.010	mg/L	0.0080	10/14/21 09:36	
EPA 6020	Barium	0.038	mg/L	0.0010	10/13/21 07:16	
EPA 6020	Molybdenum	0.017	mg/L	0.0010	10/13/21 07:16	
EPA 6020	Selenium	0.0046	mg/L	0.0010	10/13/21 11:57	
SM 2540C	Total Dissolved Solids	948	mg/L	20.0	10/02/21 14:36	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	10/07/21 09:30	H3
50298977004	GAMW-55B-100121					
EPA 9056	Chloride	79.4	mg/L	2.5	10/11/21 18:57	
EPA 9056	Fluoride	0.30	mg/L	0.050	10/11/21 18:38	
EPA 9056	Sulfate	496	mg/L	25.0	10/11/21 19:15	
EPA 6010	Boron	8.3	mg/L	0.10	10/14/21 09:20	
EPA 6010	Calcium	205	mg/L	2.0	10/14/21 09:38	
EPA 6010	Lithium	0.012	mg/L	0.0080	10/14/21 09:20	
EPA 6020	Barium	0.050	mg/L	0.0010	10/13/21 07:28	
EPA 6020	Molybdenum	0.0058	mg/L	0.0010	10/13/21 07:28	
SM 2540C	Total Dissolved Solids	1120	mg/L	20.0	10/02/21 14:36	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	10/07/21 09:31	H3
50299064001	GAMW-56-100421					
EPA 9056	Chloride	1.7	mg/L	0.25	10/11/21 23:15	
EPA 9056	Fluoride	1.0	mg/L	0.050	10/11/21 23:15	
EPA 9056	Sulfate	64.8	mg/L	2.5	10/11/21 23:33	
EPA 6010	Boron	0.19	mg/L	0.10	10/07/21 01:26	
EPA 6010	Calcium	108	mg/L	1.0	10/07/21 01:26	
EPA 6020	Arsenic	0.0018	mg/L	0.0010	10/13/21 12:19	
EPA 6020	Barium	0.040	mg/L	0.0010	10/13/21 07:32	
EPA 6020	Cobalt	0.0045	mg/L	0.0010	10/13/21 07:32	
EPA 6020	Molybdenum	0.011	mg/L	0.0010	10/13/21 07:32	
SM 2540C	Total Dissolved Solids	379	mg/L	10.0	10/06/21 11:07	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	10/07/21 09:40	H3
50299064002	GAMW-56B-100421					
EPA 9056	Chloride	73.7	mg/L	2.5	10/12/21 02:56	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50299064002	GAMW-56B-100421					
EPA 9056	Fluoride	0.46	mg/L	0.050	10/12/21 02:38	
EPA 9056	Sulfate	268	mg/L	25.0	10/12/21 03:15	
EPA 6010	Boron	1.4	mg/L	0.10	10/07/21 01:28	
EPA 6010	Calcium	160	mg/L	1.0	10/07/21 01:28	
EPA 6010	Lithium	0.0091	mg/L	0.0080	10/07/21 01:28	
EPA 6020	Barium	0.081	mg/L	0.0010	10/13/21 07:36	
EPA 6020	Molybdenum	0.0062	mg/L	0.0010	10/13/21 07:36	
SM 2540C	Total Dissolved Solids	802	mg/L	20.0	10/06/21 11:07	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	10/07/21 09:42	H3

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Method: EPA 9056

Description: 9056 IC Anions

Client: NiSource_Golder

Date: October 19, 2021

General Information:

51 samples were analyzed for EPA 9056 by Pace Analytical Services Indianapolis. 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.

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.

Surrogates:

All surrogates 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.

QC Batch: 640992

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50297587005

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 2952158)
 - Chloride
 - Fluoride
- MSD (Lab ID: 2952159)
 - Chloride
 - Fluoride

QC Batch: 641595

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50298062004,50298122002

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 2955258)
 - Fluoride
- MSD (Lab ID: 2955259)
 - Fluoride

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PROJECT NARRATIVE

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Method: EPA 9056

Description: 9056 IC Anions

Client: NiSource_Golder

Date: October 19, 2021

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Method: EPA 6010

Description: 6010 MET ICP

Client: NiSource_Golder

Date: October 19, 2021

General Information:

51 samples were analyzed for EPA 6010 by Pace Analytical Services Indianapolis. 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 3010 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.

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: 640779

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50297587005

P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

- MS (Lab ID: 2951299)
 - Calcium
- MSD (Lab ID: 2951300)
 - Calcium

QC Batch: 641063

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50297724003

P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

- MSD (Lab ID: 2952738)
 - Calcium

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PROJECT NARRATIVE

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Method: EPA 6010

Description: 6010 MET ICP

Client: NiSource_Golder

Date: October 19, 2021

QC Batch: 641524

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50298119004,50298122002

P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

- MS (Lab ID: 2955003)
 - Calcium
- MS (Lab ID: 2955005)
 - Calcium
- MSD (Lab ID: 2955004)
 - Boron
 - Calcium
- MSD (Lab ID: 2955006)
 - Boron
 - Calcium

QC Batch: 642259

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50298258003

P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

- MS (Lab ID: 2958634)
 - Calcium

QC Batch: 642709

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50298673013

P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

- MS (Lab ID: 2960953)
 - Calcium
- MSD (Lab ID: 2960954)
 - Calcium

QC Batch: 643537

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50299064002

P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

- MS (Lab ID: 2964840)
 - Calcium
- MSD (Lab ID: 2964841)
 - Calcium

Additional Comments:

Analyte Comments:

QC Batch: 642259

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 2958634)
 - Calcium

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PROJECT NARRATIVE

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Method: EPA 6010

Description: 6010 MET ICP

Client: NiSource_Golder

Date: October 19, 2021

Analyte Comments:

QC Batch: 642259

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MSD (Lab ID: 2958635)
- Calcium

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PROJECT NARRATIVE

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Method: EPA 6020

Description: 6020 MET ICPMS

Client: NiSource_Golder

Date: October 19, 2021

General Information:

51 samples were analyzed for EPA 6020 by Pace Analytical Services Indianapolis. 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 200.2 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:

Analyte Comments:

QC Batch: 643754

1d: An associated reporting limit verification standard is above technical specification control limits. The element was not detected above the reporting limit.

- GAMW-54-100121 (Lab ID: 50298977001)
 - Selenium
- GAMW-54B-100121 (Lab ID: 50298977002)
 - Selenium

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PROJECT NARRATIVE

Project: RMSGS Assessment Sept 21
Pace Project No.: 50297587

Method: EPA 7470
Description: 7470 Mercury
Client: NiSource_Golder
Date: October 19, 2021

General Information:

51 samples were analyzed for EPA 7470 by Pace Analytical Services Indianapolis. 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 7470 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.

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:

Analyte Comments:

QC Batch: 642251

2d: CRDL recovery at 75.06%. ILP 09/30/21

- FB-03-091721 (Lab ID: 50297724011)
 - Mercury
- FD-01-091721 (Lab ID: 50297724010)
 - Mercury
- GAMW-03-091721 (Lab ID: 50297724001)
 - Mercury
- GAMW-03B-091721 (Lab ID: 50297724002)
 - Mercury
- GAMW-13-091721 (Lab ID: 50297724003)
 - Mercury
- GAMW-13B-091721 (Lab ID: 50297724004)
 - Mercury

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PROJECT NARRATIVE

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Method: EPA 7470

Description: 7470 Mercury

Client: NiSource_Golder

Date: October 19, 2021

Analyte Comments:

QC Batch: 642251

2d: CRDL recovery at 75.06%. ILP 09/30/21

- GAMW-14-091721 (Lab ID: 50297724005)
 - Mercury
- GAMW-14B-091721 (Lab ID: 50297724006)
 - Mercury
- GAMW-18B-091721 (Lab ID: 50297724007)
 - Mercury
- GAMW-68-091721 (Lab ID: 50297724008)
 - Mercury
- GAMW-68B-091721 (Lab ID: 50297724009)
 - Mercury

QC Batch: 642791

3d: Pass at 78.96%. ILP 10/06/21

- GAMW-08-092421 (Lab ID: 50298401001)
 - Mercury
- GAMW-08B-092421 (Lab ID: 50298401002)
 - Mercury
- GAMW-60-092421 (Lab ID: 50298401003)
 - Mercury
- GAMW-60B-092421 (Lab ID: 50298401004)
 - Mercury

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PROJECT NARRATIVE

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: NiSource_Golder

Date: October 19, 2021

General Information:

51 samples were analyzed for SM 2540C by Pace Analytical Services Indianapolis. 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:

Analyte Comments:

QC Batch: 641100

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

- FB-01-091621 (Lab ID: 50297587006)
- Total Dissolved Solids

QC Batch: 641104

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

- FB-03-091721 (Lab ID: 50297724011)
- Total Dissolved Solids

QC Batch: 641569

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

- FB-02-092221 (Lab ID: 50298122005)
- Total Dissolved Solids

QC Batch: 642055

PK: Sample volume was decreased because complete filtration was not achieved within the maximum method-specified timeframe.

- DUP (Lab ID: 2957685)
- Total Dissolved Solids

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

- FB-04-092321 (Lab ID: 50298266006)
- Total Dissolved Solids

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: NiSource_Golder

Date: October 19, 2021

Analyte Comments:

QC Batch: 642055

PP: The mass of dried residue obtained did not meet the test method requirements based on volume used.

- DUP (Lab ID: 2957685)
- Total Dissolved Solids

QC Batch: 642902

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

- DUP (Lab ID: 2962289)
- Total Dissolved Solids

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: NiSource_Golder

Date: October 19, 2021

General Information:

51 samples were analyzed for SM 4500-H+B by Pace Analytical Services Indianapolis. 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.

H3: Sample was received or analysis requested beyond the recognized method holding time.

- FB-01-091621 (Lab ID: 50297587006)
- FB-02-092221 (Lab ID: 50298122005)
- FB-03-091721 (Lab ID: 50297724011)
- FB-04-092321 (Lab ID: 50298266006)
- FD-01-091721 (Lab ID: 50297724010)
- FD-02-092121 (Lab ID: 50298104004)
- FD-03-092321 (Lab ID: 50298266005)
- FD-04-092921 (Lab ID: 50298717005)
- GAMW-01-091621 (Lab ID: 50297587001)
- GAMW-01B-091621 (Lab ID: 50297587002)
- GAMW-03-091721 (Lab ID: 50297724001)
- GAMW-03B-091721 (Lab ID: 50297724002)
- GAMW-04-092321 (Lab ID: 50298266001)
- GAMW-07-092121 (Lab ID: 50298104001)
- GAMW-07B-092321 (Lab ID: 50298266002)
- GAMW-08-092421 (Lab ID: 50298401001)
- GAMW-08B-092421 (Lab ID: 50298401002)
- GAMW-09-092321 (Lab ID: 50298266003)
- GAMW-09B-092321 (Lab ID: 50298266004)
- GAMW-12-091621 (Lab ID: 50297587003)
- GAMW-12B-091621 (Lab ID: 50297587004)
- GAMW-13-091721 (Lab ID: 50297724003)
- GAMW-13B-091721 (Lab ID: 50297724004)
- GAMW-14-091721 (Lab ID: 50297724005)
- GAMW-14B-091721 (Lab ID: 50297724006)
- GAMW-15-092221 (Lab ID: 50298122001)
- GAMW-15B-092221 (Lab ID: 50298122002)
- GAMW-16BR-092121 (Lab ID: 50298104003)
- GAMW-16R-092121 (Lab ID: 50298104002)
- GAMW-17-092221 (Lab ID: 50298122003)
- GAMW-17B-092221 (Lab ID: 50298122004)
- GAMW-18-091621 (Lab ID: 50297587005)
- GAMW-18B-091721 (Lab ID: 50297724007)
- GAMW-51-092921 (Lab ID: 50298717001)
- GAMW-51B-092921 (Lab ID: 50298717002)
- GAMW-52-093021 (Lab ID: 50298902001)
- GAMW-52B-093021 (Lab ID: 50298902002)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: NiSource_Golder

Date: October 19, 2021

H3: Sample was received or analysis requested beyond the recognized method holding time.

- GAMW-53-093021 (Lab ID: 50298902003)
- GAMW-53B-093021 (Lab ID: 50298902004)
- GAMW-54-100121 (Lab ID: 50298977001)
- GAMW-54B-100121 (Lab ID: 50298977002)
- GAMW-55B-100121 (Lab ID: 50298977004)
- GAMW-55R-100121 (Lab ID: 50298977003)
- GAMW-56-100421 (Lab ID: 50299064001)
- GAMW-56B-100421 (Lab ID: 50299064002)
- GAMW-59-092921 (Lab ID: 50298717003)
- GAMW-59B-092921 (Lab ID: 50298717004)
- GAMW-60-092421 (Lab ID: 50298401003)
- GAMW-60B-092421 (Lab ID: 50298401004)
- GAMW-68-091721 (Lab ID: 50297724008)
- GAMW-68B-091721 (Lab ID: 50297724009)

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:

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: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-01-091621		Lab ID: 50297587001		Collected: 09/16/21 11:50		Received: 09/17/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	5.9	mg/L	0.25	1		09/30/21 12:59	16887-00-6		
Fluoride	0.36	mg/L	0.050	1		09/30/21 12:59	16984-48-8		
Sulfate	42.3	mg/L	2.5	10		09/23/21 22:35	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.24	mg/L	0.10	1	09/23/21 06:52	09/30/21 12:21	7440-42-8		
Calcium	76.7	mg/L	1.0	1	09/23/21 06:52	09/30/21 12:21	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/23/21 06:52	09/30/21 12:21	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 09:58	7440-36-0		
Arsenic	0.020	mg/L	0.0010	1	09/23/21 08:40	09/27/21 09:58	7440-38-2		
Barium	0.049	mg/L	0.0010	1	09/23/21 08:40	09/27/21 09:58	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/23/21 08:40	09/27/21 09:58	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/23/21 08:40	09/27/21 09:58	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/23/21 08:40	09/27/21 09:58	7440-47-3		
Cobalt	0.0010	mg/L	0.0010	1	09/23/21 08:40	09/27/21 09:58	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 09:58	7439-92-1		
Molybdenum	0.0076	mg/L	0.0010	1	09/23/21 08:40	09/27/21 09:58	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 09:58	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 09:58	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/29/21 09:39	09/29/21 19:41	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	294	mg/L	10.0	1		09/22/21 08:49			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.3	Std. Units	0.10	1		09/18/21 11:25		H3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-01B-091621		Lab ID: 50297587002		Collected: 09/16/21 10:50		Received: 09/17/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	18.6	mg/L	2.5	10		09/23/21 23:31	16887-00-6		
Fluoride	0.094	mg/L	0.050	1		09/30/21 13:13	16984-48-8		
Sulfate	69.3	mg/L	2.5	10		09/23/21 23:31	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.29	mg/L	0.10	1	09/23/21 06:52	09/30/21 12:23	7440-42-8		
Calcium	112	mg/L	1.0	1	09/23/21 06:52	09/30/21 12:23	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/23/21 06:52	09/30/21 12:23	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:03	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:03	7440-38-2		
Barium	0.17	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:03	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/23/21 08:40	09/27/21 10:03	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/23/21 08:40	09/27/21 10:03	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/23/21 08:40	09/27/21 10:03	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:03	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:03	7439-92-1		
Molybdenum	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:03	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:03	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:03	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/29/21 09:39	09/29/21 19:44	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	443	mg/L	10.0	1		09/22/21 08:49			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	1		09/18/21 11:26		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-12-091621		Lab ID: 50297587003		Collected: 09/16/21 14:10		Received: 09/17/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	3.2	mg/L	0.25	1		09/30/21 13:27	16887-00-6		
Fluoride	0.19	mg/L	0.050	1		09/30/21 13:27	16984-48-8		
Sulfate	24.2	mg/L	2.5	10		09/23/21 23:59	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	ND	mg/L	0.10	1	09/23/21 06:52	09/30/21 12:25	7440-42-8		
Calcium	80.7	mg/L	1.0	1	09/23/21 06:52	09/30/21 12:25	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/23/21 06:52	09/30/21 12:25	7439-93-2		
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:07	7440-36-0		
Arsenic	0.043	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:07	7440-38-2		
Barium	0.094	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:07	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/23/21 08:40	09/27/21 10:07	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/23/21 08:40	09/27/21 10:07	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/23/21 08:40	09/27/21 10:07	7440-47-3		
Cobalt	0.0028	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:07	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:07	7439-92-1		
Molybdenum	0.0041	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:07	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:07	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:07	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	09/29/21 09:39	09/29/21 19:51	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	325	mg/L	10.0	1		09/22/21 08:49			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.0	Std. Units	0.10	1		09/18/21 11:27		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-12B-091621		Lab ID: 50297587004		Collected: 09/16/21 13:05		Received: 09/17/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	20.6	mg/L	2.5	10		09/24/21 00:26	16887-00-6		
Fluoride	0.079	mg/L	0.050	1		09/30/21 13:40	16984-48-8		
Sulfate	57.5	mg/L	2.5	10		09/24/21 00:26	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.32	mg/L	0.10	1	09/23/21 06:52	09/30/21 12:27	7440-42-8		
Calcium	107	mg/L	1.0	1	09/23/21 06:52	09/30/21 12:27	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/23/21 06:52	09/30/21 12:27	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:11	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:11	7440-38-2		
Barium	0.14	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:11	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/23/21 08:40	09/27/21 10:11	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/23/21 08:40	09/27/21 10:11	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/23/21 08:40	09/27/21 10:11	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:11	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:11	7439-92-1		
Molybdenum	0.0013	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:11	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:11	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:11	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/29/21 09:39	09/29/21 19:54	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	451	mg/L	10.0	1		09/22/21 08:49			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	1		09/18/21 11:28		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-18-091621		Lab ID: 50297587005		Collected: 09/16/21 14:05		Received: 09/17/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	97.0	mg/L	2.5	10		09/24/21 02:57	16887-00-6		
Fluoride	0.16	mg/L	0.050	1		09/24/21 02:43	16984-48-8		
Sulfate	1160	mg/L	25.0	100		09/24/21 03:11	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	5.9	mg/L	0.10	1	09/23/21 06:52	09/30/21 12:29	7440-42-8		
Calcium	456	mg/L	5.0	5	09/23/21 06:52	09/30/21 13:11	7440-70-2		
Lithium	0.011	mg/L	0.0080	1	09/23/21 06:52	09/30/21 12:29	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:15	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:15	7440-38-2		
Barium	0.057	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:15	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/23/21 08:40	09/27/21 10:15	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/23/21 08:40	09/27/21 10:15	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/23/21 08:40	09/27/21 10:15	7440-47-3		
Cobalt	0.0011	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:15	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:15	7439-92-1		
Molybdenum	0.14	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:15	7439-98-7		
Selenium	0.028	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:15	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:15	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/29/21 09:39	09/29/21 19:56	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	2020	mg/L	20.0	1		09/22/21 08:50			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	1		09/18/21 11:30		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: FB-01-091621		Lab ID: 50297587006		Collected: 09/16/21 10:55		Received: 09/17/21 08:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	ND	mg/L	0.25	1		09/23/21 15:36	16887-00-6		
Fluoride	ND	mg/L	0.050	1		09/23/21 15:36	16984-48-8		
Sulfate	ND	mg/L	0.25	1		09/23/21 15:36	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	ND	mg/L	0.10	1	09/23/21 06:52	09/30/21 12:43	7440-42-8		
Calcium	ND	mg/L	1.0	1	09/23/21 06:52	09/30/21 12:43	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/23/21 06:52	09/30/21 12:43	7439-93-2		
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:44	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:44	7440-38-2		
Barium	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:44	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/23/21 08:40	09/27/21 10:44	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/23/21 08:40	09/27/21 10:44	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/23/21 08:40	09/27/21 10:44	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:44	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:44	7439-92-1		
Molybdenum	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:44	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:44	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/23/21 08:40	09/27/21 10:44	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	09/29/21 09:39	09/29/21 20:03	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	ND	mg/L	10.0	1		09/22/21 08:50		PL	
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.7	Std. Units	0.10	1		09/18/21 11:33		H3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-03-091721		Lab ID: 50297724001		Collected: 09/17/21 14:10		Received: 09/18/21 10:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	4.2	mg/L	0.25	1		09/25/21 04:39	16887-00-6		
Fluoride	0.20	mg/L	0.050	1		09/25/21 04:39	16984-48-8		
Sulfate	40.2	mg/L	2.5	10		09/25/21 04:53	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.13	mg/L	0.10	1	09/29/21 06:45	10/01/21 08:10	7440-42-8		
Calcium	70.2	mg/L	1.0	1	09/29/21 06:45	10/01/21 08:10	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/29/21 06:45	10/01/21 08:10	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:45	7440-36-0		
Arsenic	0.019	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:45	7440-38-2		
Barium	0.080	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:45	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 01:45	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 01:45	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/28/21 08:50	09/30/21 01:45	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:45	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:45	7439-92-1		
Molybdenum	0.0084	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:45	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:45	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:45	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/30/21 00:11	09/30/21 09:14	7439-97-6	2d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	298	mg/L	10.0	1		09/22/21 09:24			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.7	Std. Units	0.10	1		09/22/21 13:29		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-03B-091721		Lab ID: 50297724002		Collected: 09/17/21 13:20		Received: 09/18/21 10:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	23.1	mg/L	2.5	10		09/25/21 05:35	16887-00-6		
Fluoride	0.23	mg/L	0.050	1		09/25/21 05:21	16984-48-8		
Sulfate	78.6	mg/L	2.5	10		09/25/21 05:35	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.27	mg/L	0.10	1	09/29/21 06:45	10/01/21 08:12	7440-42-8		
Calcium	102	mg/L	1.0	1	09/29/21 06:45	10/01/21 08:12	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/29/21 06:45	10/01/21 08:12	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:49	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:49	7440-38-2		
Barium	0.12	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:49	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 01:49	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 01:49	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/28/21 08:50	09/30/21 01:49	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:49	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:49	7439-92-1		
Molybdenum	0.0066	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:49	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:49	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:49	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/30/21 00:11	09/30/21 09:22	7439-97-6	2d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	439	mg/L	10.0	1		09/22/21 09:24			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	1		09/22/21 13:23		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-13-091721		Lab ID: 50297724003		Collected: 09/17/21 12:00		Received: 09/18/21 10:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	10.5	mg/L	0.25	1		09/25/21 06:30	16887-00-6		
Fluoride	0.31	mg/L	0.050	1		09/25/21 06:30	16984-48-8		
Sulfate	49.3	mg/L	2.5	10		09/25/21 06:44	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.19	mg/L	0.10	1	09/29/21 06:45	10/01/21 08:15	7440-42-8		
Calcium	71.2	mg/L	1.0	1	09/29/21 06:45	10/01/21 08:15	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/29/21 06:45	10/01/21 08:15	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:53	7440-36-0		
Arsenic	0.0076	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:53	7440-38-2		
Barium	0.080	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:53	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 01:53	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 01:53	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/28/21 08:50	09/30/21 01:53	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:53	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:53	7439-92-1		
Molybdenum	0.0040	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:53	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:53	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:53	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/30/21 00:11	09/30/21 09:24	7439-97-6	2d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	317	mg/L	10.0	1		09/22/21 09:24			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	6.9	Std. Units	0.10	1		09/22/21 13:09		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-13B-091721		Lab ID: 50297724004		Collected: 09/17/21 11:10		Received: 09/18/21 10:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	26.0	mg/L	2.5	10		09/25/21 07:26	16887-00-6		
Fluoride	0.25	mg/L	0.050	1		09/25/21 07:12	16984-48-8		
Sulfate	137	mg/L	2.5	10		09/25/21 07:26	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.60	mg/L	0.10	1	09/29/21 06:45	10/01/21 08:30	7440-42-8		
Calcium	77.8	mg/L	1.0	1	09/29/21 06:45	10/01/21 08:30	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/29/21 06:45	10/01/21 08:30	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:57	7440-36-0		
Arsenic	0.0010	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:57	7440-38-2		
Barium	0.077	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:57	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 01:57	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 01:57	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/28/21 08:50	09/30/21 01:57	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:57	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:57	7439-92-1		
Molybdenum	0.016	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:57	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:57	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 01:57	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/30/21 00:11	09/30/21 09:31	7439-97-6	2d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	395	mg/L	10.0	1		09/22/21 09:24			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	1		09/22/21 13:06		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-14-091721		Lab ID: 50297724005		Collected: 09/17/21 10:10		Received: 09/18/21 10:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	10.6	mg/L	0.25	1		09/25/21 07:53	16887-00-6		
Fluoride	0.26	mg/L	0.050	1		09/25/21 07:53	16984-48-8		
Sulfate	31.8	mg/L	2.5	10		09/25/21 08:07	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.20	mg/L	0.10	1	09/29/21 06:45	10/01/21 08:32	7440-42-8		
Calcium	82.6	mg/L	1.0	1	09/29/21 06:45	10/01/21 08:32	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/29/21 06:45	10/01/21 08:32	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:01	7440-36-0		
Arsenic	0.039	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:01	7440-38-2		
Barium	0.081	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:01	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 02:01	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 02:01	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/28/21 08:50	09/30/21 02:01	7440-47-3		
Cobalt	0.024	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:01	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:01	7439-92-1		
Molybdenum	0.0077	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:01	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:01	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:01	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/30/21 00:11	09/30/21 09:34	7439-97-6	2d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	330	mg/L	10.0	1		09/22/21 09:25			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	6.8	Std. Units	0.10	1		09/22/21 13:00		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-14B-091721		Lab ID: 50297724006		Collected: 09/17/21 09:15		Received: 09/18/21 10:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	85.2	mg/L	2.5	10		09/25/21 09:16	16887-00-6		
Fluoride	0.28	mg/L	0.050	1		09/25/21 09:03	16984-48-8		
Sulfate	841	mg/L	25.0	100		09/25/21 09:30	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	2.7	mg/L	0.10	1	09/29/21 06:45	10/01/21 08:34	7440-42-8		
Calcium	112	mg/L	1.0	1	09/29/21 06:45	10/01/21 08:34	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/29/21 06:45	10/01/21 08:34	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:14	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:14	7440-38-2		
Barium	0.059	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:14	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 02:14	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 02:14	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/28/21 08:50	09/30/21 02:14	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:14	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:14	7439-92-1		
Molybdenum	0.040	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:14	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:14	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:14	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/30/21 00:11	09/30/21 09:36	7439-97-6	2d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1660	mg/L	20.0	1		09/22/21 09:25			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	1		09/22/21 12:57		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-18B-091721		Lab ID: 50297724007		Collected: 09/17/21 13:35		Received: 09/18/21 10:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	86.3	mg/L	2.5	10		09/25/21 09:58	16887-00-6		
Fluoride	0.60	mg/L	0.050	1		09/25/21 09:44	16984-48-8		
Sulfate	1120	mg/L	25.0	100		09/25/21 10:12	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	8.2	mg/L	0.10	1	09/29/21 06:45	10/01/21 08:36	7440-42-8		
Calcium	323	mg/L	2.0	2	09/29/21 06:45	10/01/21 10:16	7440-70-2		
Lithium	0.028	mg/L	0.0080	1	09/29/21 06:45	10/01/21 08:36	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:18	7440-36-0		
Arsenic	0.0027	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:18	7440-38-2		
Barium	0.029	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:18	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 02:18	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 02:18	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/28/21 08:50	09/30/21 02:18	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:18	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:18	7439-92-1		
Molybdenum	0.031	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:18	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:18	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:18	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/30/21 00:11	09/30/21 09:39	7439-97-6	2d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	2010	mg/L	20.0	1		09/22/21 09:25			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	1		09/22/21 13:27		H3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-68-091721		Lab ID: 50297724008		Collected: 09/17/21 10:00		Received: 09/18/21 10:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	20.4	mg/L	2.5	10		09/25/21 10:40	16887-00-6		
Fluoride	0.28	mg/L	0.050	1		09/25/21 10:26	16984-48-8		
Sulfate	81.3	mg/L	2.5	10		09/25/21 10:40	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	1	09/29/21 06:45	10/01/21 08:39	7440-42-8		
Calcium	66.4	mg/L	1.0	1	09/29/21 06:45	10/01/21 08:39	7440-70-2		
Lithium	0.0081	mg/L	0.0080	1	09/29/21 06:45	10/01/21 08:39	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:22	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:22	7440-38-2		
Barium	0.10	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:22	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 02:22	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 02:22	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/28/21 08:50	09/30/21 02:22	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:22	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:22	7439-92-1		
Molybdenum	0.0045	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:22	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:22	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:22	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/30/21 00:11	09/30/21 09:41	7439-97-6	2d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	315	mg/L	10.0	1		09/22/21 09:25			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.5	Std. Units	0.10	1		09/22/21 12:58		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-68B-091721		Lab ID: 50297724009		Collected: 09/17/21 11:10		Received: 09/18/21 10:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	18.4	mg/L	2.5	10		09/25/21 11:49	16887-00-6		
Fluoride	0.20	mg/L	0.050	1		09/25/21 11:35	16984-48-8		
Sulfate	63.5	mg/L	2.5	10		09/25/21 11:49	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	1	09/29/21 06:45	10/01/21 08:41	7440-42-8		
Calcium	44.7	mg/L	1.0	1	09/29/21 06:45	10/01/21 08:41	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/29/21 06:45	10/01/21 08:41	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:26	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:26	7440-38-2		
Barium	0.10	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:26	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 02:26	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 02:26	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/28/21 08:50	09/30/21 02:26	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:26	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:26	7439-92-1		
Molybdenum	0.0027	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:26	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:26	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:26	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/30/21 00:11	09/30/21 09:44	7439-97-6	2d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	242	mg/L	10.0	1		09/22/21 09:25			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.6	Std. Units	0.10	1		09/22/21 13:08		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: FD-01-091721		Lab ID: 50297724010		Collected: 09/17/21 12:00		Received: 09/18/21 10:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	85.8	mg/L	2.5	10		09/25/21 12:31	16887-00-6		
Fluoride	0.60	mg/L	0.050	1		09/25/21 12:17	16984-48-8		
Sulfate	1100	mg/L	25.0	100		09/25/21 12:45	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	8.2	mg/L	0.10	1	09/29/21 06:45	10/01/21 08:43	7440-42-8		
Calcium	325	mg/L	2.0	2	09/29/21 06:45	10/01/21 10:18	7440-70-2		
Lithium	0.031	mg/L	0.0080	1	09/29/21 06:45	10/01/21 08:43	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:31	7440-36-0		
Arsenic	0.0028	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:31	7440-38-2		
Barium	0.028	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:31	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 02:31	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 02:31	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/28/21 08:50	09/30/21 02:31	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:31	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:31	7439-92-1		
Molybdenum	0.030	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:31	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:31	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:31	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/30/21 00:11	09/30/21 09:53	7439-97-6	2d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1930	mg/L	20.0	1		09/22/21 09:48			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	1		09/22/21 13:14		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: FB-03-091721		Lab ID: 50297724011		Collected: 09/17/21 14:15		Received: 09/18/21 10:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	ND	mg/L	0.25	1		09/25/21 12:58	16887-00-6		
Fluoride	ND	mg/L	0.050	1		09/25/21 12:58	16984-48-8		
Sulfate	ND	mg/L	0.25	1		09/25/21 12:58	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	ND	mg/L	0.10	1	09/29/21 06:45	10/01/21 08:46	7440-42-8		
Calcium	ND	mg/L	1.0	1	09/29/21 06:45	10/01/21 08:46	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/29/21 06:45	10/01/21 08:46	7439-93-2		
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:47	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:47	7440-38-2		
Barium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:47	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 02:47	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 02:47	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/28/21 08:50	09/30/21 02:47	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:47	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:47	7439-92-1		
Molybdenum	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:47	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:47	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:47	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	09/30/21 00:11	09/30/21 09:56	7439-97-6	2d,F5	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	ND	mg/L	10.0	1		09/22/21 09:49		PL	
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.0	Std. Units	0.10	1		09/22/21 13:35		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-07-092121		Lab ID: 50298104001		Collected: 09/21/21 14:10		Received: 09/23/21 11:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	12.0	mg/L	0.25	1		09/28/21 17:54	16887-00-6		
Fluoride	0.85	mg/L	0.050	1		09/28/21 17:54	16984-48-8		
Sulfate	359	mg/L	25.0	100		09/30/21 17:44	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.85	mg/L	0.10	1	09/30/21 06:53	10/05/21 12:21	7440-42-8		
Calcium	212	mg/L	2.0	2	09/30/21 06:53	10/05/21 13:30	7440-70-2		
Lithium	0.0088	mg/L	0.0080	1	09/30/21 06:53	10/05/21 12:21	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:51	7440-36-0		
Arsenic	0.0013	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:51	7440-38-2		
Barium	0.052	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:51	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 02:51	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 02:51	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/28/21 08:50	09/30/21 02:51	7440-47-3		
Cobalt	0.0060	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:51	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:51	7439-92-1		
Molybdenum	0.010	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:51	7439-98-7		
Selenium	0.0039	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:51	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:51	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/29/21 10:03	09/29/21 21:29	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	894	mg/L	10.0	1		09/24/21 11:44			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.1	Std. Units	0.10	1		09/24/21 11:12		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-16R-092121		Lab ID: 50298104002		Collected: 09/21/21 10:35		Received: 09/23/21 11:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	112	mg/L	2.5	10		09/28/21 18:36	16887-00-6		
Fluoride	0.57	mg/L	0.050	1		09/28/21 18:22	16984-48-8		
Sulfate	633	mg/L	25.0	100		09/30/21 17:58	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	4.1	mg/L	0.10	1	09/30/21 06:53	10/05/21 12:23	7440-42-8		
Calcium	275	mg/L	2.0	2	09/30/21 06:53	10/05/21 13:33	7440-70-2		
Lithium	0.011	mg/L	0.0080	1	09/30/21 06:53	10/05/21 12:23	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:56	7440-36-0		
Arsenic	0.0088	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:56	7440-38-2		
Barium	0.060	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:56	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 02:56	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 02:56	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/28/21 08:50	09/30/21 02:56	7440-47-3		
Cobalt	0.0038	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:56	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:56	7439-92-1		
Molybdenum	0.019	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:56	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:56	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 02:56	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/29/21 10:03	09/29/21 21:31	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1370	mg/L	20.0	1		09/24/21 11:44			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.0	Std. Units	0.10	1		09/24/21 11:13		H3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-16BR-092121		Lab ID: 50298104003		Collected: 09/21/21 13:05		Received: 09/23/21 11:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	516	mg/L	25.0	100		09/30/21 18:11	16887-00-6		
Fluoride	2.6	mg/L	0.050	1		09/28/21 18:50	16984-48-8		
Sulfate	2970	mg/L	250	1000		10/02/21 02:40	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	25.3	mg/L	0.10	1	09/30/21 06:53	10/05/21 12:25	7440-42-8		
Calcium	265	mg/L	2.0	2	09/30/21 06:53	10/05/21 13:35	7440-70-2		
Lithium	0.031	mg/L	0.0080	1	09/30/21 06:53	10/05/21 12:25	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:00	7440-36-0		
Arsenic	0.0042	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:00	7440-38-2		
Barium	0.041	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:00	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 03:00	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 03:00	7440-43-9		
Chromium	0.0023	mg/L	0.0020	1	09/28/21 08:50	09/30/21 03:00	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:00	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:00	7439-92-1		
Molybdenum	0.043	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:00	7439-98-7		
Selenium	0.0013	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:00	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:00	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/29/21 10:03	09/29/21 21:34	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 15 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	5970	mg/L	66.7	1		09/24/21 11:44			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	1		09/24/21 11:14		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: FD-02-092121		Lab ID: 50298104004		Collected: 09/21/21 12:00		Received: 09/23/21 11:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	11.9	mg/L	0.25	1		09/28/21 19:17	16887-00-6		
Fluoride	0.85	mg/L	0.050	1		09/28/21 19:17	16984-48-8		
Sulfate	362	mg/L	25.0	100		09/30/21 18:25	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.91	mg/L	0.10	1	09/30/21 06:53	10/05/21 12:27	7440-42-8		
Calcium	215	mg/L	2.0	2	09/30/21 06:53	10/05/21 13:42	7440-70-2		
Lithium	0.0091	mg/L	0.0080	1	09/30/21 06:53	10/05/21 12:27	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:04	7440-36-0		
Arsenic	0.0012	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:04	7440-38-2		
Barium	0.053	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:04	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 03:04	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 03:04	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/28/21 08:50	09/30/21 03:04	7440-47-3		
Cobalt	0.0061	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:04	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:04	7439-92-1		
Molybdenum	0.010	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:04	7439-98-7		
Selenium	0.0044	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:04	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:04	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	09/29/21 10:03	09/29/21 21:36	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	887	mg/L	10.0	1		09/24/21 11:44			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.1	Std. Units	0.10	1		09/24/21 11:15		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-15-092221		Lab ID: 50298122001		Collected: 09/22/21 10:35		Received: 09/23/21 11:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	49.8	mg/L	2.5	10		09/28/21 20:27	16887-00-6		
Fluoride	0.77	mg/L	0.050	1		09/28/21 20:13	16984-48-8		
Sulfate	265	mg/L	25.0	100		09/30/21 18:38	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	3.5	mg/L	0.10	1	09/30/21 06:53	10/05/21 12:57	7440-42-8		
Calcium	136	mg/L	1.0	1	09/30/21 06:53	10/05/21 12:57	7440-70-2		
Lithium	0.010	mg/L	0.0080	1	09/30/21 06:53	10/05/21 12:57	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:17	7440-36-0		
Arsenic	0.090	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:17	7440-38-2		
Barium	0.050	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:17	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 03:17	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 03:17	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/28/21 08:50	09/30/21 03:17	7440-47-3		
Cobalt	0.0021	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:17	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:17	7439-92-1		
Molybdenum	0.027	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:17	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:17	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:17	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/05/21 10:14	10/06/21 07:49	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	675	mg/L	10.0	1		09/24/21 12:01			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.1	Std. Units	0.10	1		09/24/21 11:32		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-15B-092221		Lab ID: 50298122002		Collected: 09/22/21 11:35		Received: 09/23/21 11:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	269	mg/L	25.0	100		09/30/21 19:45	16887-00-6		
Fluoride	0.44	mg/L	0.050	1		09/28/21 20:41	16984-48-8		
Sulfate	900	mg/L	25.0	100		09/30/21 19:45	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	28.1	mg/L	0.10	1	09/30/21 06:53	10/05/21 12:59	7440-42-8		
Calcium	352	mg/L	2.0	2	09/30/21 06:53	10/05/21 13:44	7440-70-2		
Lithium	0.026	mg/L	0.0080	1	09/30/21 06:53	10/05/21 12:59	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:21	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:21	7440-38-2		
Barium	0.17	mg/L	0.0020	2	09/28/21 08:50	09/30/21 04:15	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 03:21	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 03:21	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/28/21 08:50	09/30/21 03:21	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:21	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:21	7439-92-1		
Molybdenum	0.0029	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:21	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:21	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:21	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/05/21 10:14	10/06/21 07:52	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	2030	mg/L	40.0	1		09/24/21 12:01			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	1		09/24/21 11:34		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-17-092221		Lab ID: 50298122003		Collected: 09/22/21 12:45		Received: 09/23/21 11:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	175	mg/L	25.0	100		09/30/21 18:52	16887-00-6		
Fluoride	1.3	mg/L	0.050	1		09/28/21 22:04	16984-48-8		
Sulfate	964	mg/L	25.0	100		09/30/21 18:52	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	12.5	mg/L	0.10	1	09/30/21 06:53	10/05/21 13:21	7440-42-8		
Calcium	346	mg/L	2.0	2	09/30/21 06:53	10/05/21 13:52	7440-70-2		
Lithium	0.021	mg/L	0.0080	1	09/30/21 06:53	10/05/21 13:21	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:54	7440-36-0		
Arsenic	0.0027	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:54	7440-38-2		
Barium	0.17	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:54	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 03:54	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 03:54	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/28/21 08:50	09/30/21 03:54	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:54	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:54	7439-92-1		
Molybdenum	0.010	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:54	7439-98-7		
Selenium	0.0036	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:54	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:54	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/05/21 10:14	10/06/21 07:59	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1890	mg/L	20.0	1		09/24/21 12:01			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	1		09/24/21 11:36		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-17B-092221		Lab ID: 50298122004		Collected: 09/22/21 14:05		Received: 09/23/21 11:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	105	mg/L	2.5	10		09/28/21 23:13	16887-00-6		
Fluoride	0.49	mg/L	0.050	1		09/28/21 22:59	16984-48-8		
Sulfate	365	mg/L	25.0	100		09/30/21 19:05	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	7.3	mg/L	0.10	1	09/30/21 06:53	10/05/21 13:23	7440-42-8		
Calcium	155	mg/L	1.0	1	09/30/21 06:53	10/05/21 13:23	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/30/21 06:53	10/05/21 13:23	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:58	7440-36-0		
Arsenic	0.0021	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:58	7440-38-2		
Barium	0.053	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:58	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 03:58	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 03:58	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/28/21 08:50	09/30/21 03:58	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:58	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:58	7439-92-1		
Molybdenum	0.012	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:58	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:58	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 03:58	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/05/21 10:14	10/06/21 08:02	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	928	mg/L	20.0	1		09/24/21 12:01			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.5	Std. Units	0.10	1		09/24/21 11:37		H3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: FB-02-092221		Lab ID: 50298122005		Collected: 09/22/21 12:50		Received: 09/23/21 11:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	ND	mg/L	0.25	1		09/28/21 23:27	16887-00-6		
Fluoride	ND	mg/L	0.050	1		09/28/21 23:27	16984-48-8		
Sulfate	ND	mg/L	0.25	1		09/28/21 23:27	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	ND	mg/L	0.10	1	09/30/21 06:53	10/05/21 13:58	7440-42-8		
Calcium	ND	mg/L	1.0	1	09/30/21 06:53	10/05/21 13:58	7440-70-2		
Lithium	ND	mg/L	0.0080	1	09/30/21 06:53	10/05/21 13:58	7439-93-2		
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 04:02	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 04:02	7440-38-2		
Barium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 04:02	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 04:02	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	09/28/21 08:50	09/30/21 04:02	7440-43-9		
Chromium	ND	mg/L	0.0020	1	09/28/21 08:50	09/30/21 04:02	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 04:02	7440-48-4		
Lead	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 04:02	7439-92-1		
Molybdenum	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 04:02	7439-98-7		
Selenium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 04:02	7782-49-2		
Thallium	ND	mg/L	0.0010	1	09/28/21 08:50	09/30/21 04:02	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	10/05/21 10:14	10/06/21 08:04	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	ND	mg/L	10.0	1		09/24/21 12:02		PL	
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.0	Std. Units	0.10	1		09/24/21 11:42		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-04-092321		Lab ID: 50298266001		Collected: 09/23/21 10:50		Received: 09/24/21 09:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	3.6	mg/L	0.25	1		09/29/21 04:12	16887-00-6		
Fluoride	0.35	mg/L	0.050	1		09/29/21 04:12	16984-48-8		
Sulfate	121	mg/L	2.5	10		09/29/21 04:29	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.35	mg/L	0.10	1	10/04/21 06:57	10/07/21 10:51	7440-42-8		
Calcium	107	mg/L	1.0	1	10/04/21 06:57	10/07/21 10:51	7440-70-2		
Lithium	ND	mg/L	0.0080	1	10/04/21 06:57	10/07/21 10:51	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 01:52	7440-36-0		
Arsenic	0.0036	mg/L	0.0010	1	10/01/21 08:42	10/05/21 11:21	7440-38-2		
Barium	0.056	mg/L	0.0010	1	10/01/21 08:42	10/05/21 01:52	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 11:21	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 01:52	7440-43-9		
Chromium	ND	mg/L	0.0020	1	10/01/21 08:42	10/05/21 11:21	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 11:21	7440-48-4		
Lead	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 01:52	7439-92-1		
Molybdenum	0.016	mg/L	0.0010	1	10/01/21 08:42	10/05/21 01:52	7439-98-7		
Selenium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 11:21	7782-49-2		
Thallium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 01:52	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/06/21 10:14	10/07/21 07:33	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	380	mg/L	10.0	1		09/28/21 11:16			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	1		09/28/21 13:07		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-07B-092321		Lab ID: 50298266002		Collected: 09/23/21 14:20		Received: 09/24/21 09:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	60.3	mg/L	2.5	10		09/29/21 05:04	16887-00-6		
Fluoride	0.95	mg/L	0.050	1		09/29/21 04:46	16984-48-8		
Sulfate	1060	mg/L	25.0	100		09/30/21 19:36	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	6.9	mg/L	0.10	1	10/04/21 06:57	10/07/21 10:53	7440-42-8		
Calcium	373	mg/L	2.0	2	10/04/21 06:57	10/07/21 11:25	7440-70-2		
Lithium	0.013	mg/L	0.0080	1	10/04/21 06:57	10/07/21 10:53	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:24	7440-36-0		
Arsenic	0.0022	mg/L	0.0010	1	10/01/21 08:42	10/05/21 11:53	7440-38-2		
Barium	0.037	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:24	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 11:53	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 02:24	7440-43-9		
Chromium	ND	mg/L	0.0020	1	10/01/21 08:42	10/05/21 11:53	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 11:53	7440-48-4		
Lead	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:24	7439-92-1		
Molybdenum	0.023	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:24	7439-98-7		
Selenium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 11:53	7782-49-2		
Thallium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:24	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/06/21 10:14	10/07/21 07:36	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1790	mg/L	20.0	1		09/28/21 11:16			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.3	Std. Units	0.10	1		09/28/21 13:10		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-09-092321		Lab ID: 50298266003		Collected: 09/23/21 12:15		Received: 09/24/21 09:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	54.7	mg/L	2.5	10		09/29/21 05:38	16887-00-6		
Fluoride	0.34	mg/L	0.050	1		09/29/21 05:21	16984-48-8		
Sulfate	509	mg/L	25.0	100		09/30/21 19:53	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	3.8	mg/L	0.10	1	10/04/21 06:57	10/07/21 10:55	7440-42-8		
Calcium	227	mg/L	2.0	2	10/04/21 06:57	10/07/21 11:27	7440-70-2		
Lithium	ND	mg/L	0.0080	1	10/04/21 06:57	10/07/21 10:55	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:29	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 11:58	7440-38-2		
Barium	0.053	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:29	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 11:58	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 02:29	7440-43-9		
Chromium	ND	mg/L	0.0020	1	10/01/21 08:42	10/05/21 11:58	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 11:58	7440-48-4		
Lead	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:29	7439-92-1		
Molybdenum	0.058	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:29	7439-98-7		
Selenium	0.0079	mg/L	0.0010	1	10/01/21 08:42	10/05/21 11:58	7782-49-2		
Thallium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:29	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/06/21 10:14	10/07/21 07:38	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1040	mg/L	10.0	1		09/28/21 11:16			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	1		09/28/21 13:10		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-09B-092321		Lab ID: 50298266004		Collected: 09/23/21 13:15		Received: 09/24/21 09:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	113	mg/L	2.5	10		09/29/21 06:47	16887-00-6		
Fluoride	1.3	mg/L	0.050	1		09/29/21 06:30	16984-48-8		
Sulfate	773	mg/L	25.0	100		09/30/21 20:11	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	6.7	mg/L	0.10	1	10/04/21 06:57	10/07/21 10:57	7440-42-8		
Calcium	163	mg/L	1.0	1	10/04/21 06:57	10/07/21 10:57	7440-70-2		
Lithium	0.0095	mg/L	0.0080	1	10/04/21 06:57	10/07/21 10:57	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:33	7440-36-0		
Arsenic	0.0031	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:02	7440-38-2		
Barium	0.059	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:33	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 12:02	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 02:33	7440-43-9		
Chromium	ND	mg/L	0.0020	1	10/01/21 08:42	10/05/21 12:02	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:02	7440-48-4		
Lead	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:33	7439-92-1		
Molybdenum	0.015	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:33	7439-98-7		
Selenium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:02	7782-49-2		
Thallium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:33	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/06/21 10:14	10/07/21 07:41	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1430	mg/L	20.0	1		09/28/21 11:16			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.3	Std. Units	0.10	1		09/28/21 13:11		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: FD-03-092321		Lab ID: 50298266005		Collected: 09/23/21 12:00		Received: 09/24/21 09:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	3.7	mg/L	0.25	1		09/29/21 07:05	16887-00-6		
Fluoride	0.35	mg/L	0.050	1		09/29/21 07:05	16984-48-8		
Sulfate	116	mg/L	2.5	10		09/30/21 20:28	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.36	mg/L	0.10	1	10/04/21 06:57	10/07/21 10:59	7440-42-8		
Calcium	108	mg/L	1.0	1	10/04/21 06:57	10/07/21 10:59	7440-70-2		
Lithium	ND	mg/L	0.0080	1	10/04/21 06:57	10/07/21 10:59	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:38	7440-36-0		
Arsenic	0.0041	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:07	7440-38-2		
Barium	0.057	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:38	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 12:07	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 02:38	7440-43-9		
Chromium	ND	mg/L	0.0020	1	10/01/21 08:42	10/05/21 12:07	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:07	7440-48-4		
Lead	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:38	7439-92-1		
Molybdenum	0.015	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:38	7439-98-7		
Selenium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:07	7782-49-2		
Thallium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:38	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/06/21 10:14	10/07/21 07:43	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	381	mg/L	10.0	1		09/28/21 11:17			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	1		09/28/21 13:35		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: FB-04-092321		Lab ID: 50298266006		Collected: 09/23/21 14:30		Received: 09/24/21 09:10		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	ND	mg/L	0.25	1		09/29/21 07:22	16887-00-6		
Fluoride	ND	mg/L	0.050	1		09/29/21 07:22	16984-48-8		
Sulfate	ND	mg/L	0.25	1		09/29/21 07:22	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	ND	mg/L	0.10	1	10/04/21 06:57	10/07/21 11:01	7440-42-8		
Calcium	ND	mg/L	1.0	1	10/04/21 06:57	10/07/21 11:01	7440-70-2		
Lithium	ND	mg/L	0.0080	1	10/04/21 06:57	10/07/21 11:01	7439-93-2		
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:43	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:12	7440-38-2		
Barium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:43	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 12:12	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 02:43	7440-43-9		
Chromium	ND	mg/L	0.0020	1	10/01/21 08:42	10/05/21 12:12	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:12	7440-48-4		
Lead	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:43	7439-92-1		
Molybdenum	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:43	7439-98-7		
Selenium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:12	7782-49-2		
Thallium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:43	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	10/06/21 10:14	10/07/21 07:51	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	ND	mg/L	10.0	1		09/28/21 11:17		PL	
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	7.9	Std. Units	0.10	1		09/28/21 13:37		H3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-08-092421		Lab ID: 50298401001		Collected: 09/24/21 11:00		Received: 09/25/21 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	14.9	mg/L	2.5	10		10/01/21 01:55	16887-00-6		
Fluoride	0.44	mg/L	0.050	1		10/01/21 01:41	16984-48-8		
Sulfate	841	mg/L	25.0	100		10/02/21 03:47	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	1.1	mg/L	0.10	1	10/03/21 13:45	10/05/21 10:43	7440-42-8		
Calcium	260	mg/L	2.0	2	10/03/21 13:45	10/05/21 11:41	7440-70-2		
Lithium	0.015	mg/L	0.0080	1	10/03/21 13:45	10/05/21 10:43	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:56	7440-36-0		
Arsenic	0.0013	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:26	7440-38-2		
Barium	0.076	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:56	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 12:26	7440-41-7		
Cadmium	0.00022	mg/L	0.00020	1	10/01/21 08:42	10/05/21 02:56	7440-43-9		
Chromium	ND	mg/L	0.0020	1	10/01/21 08:42	10/05/21 12:26	7440-47-3		
Cobalt	0.015	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:26	7440-48-4		
Lead	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:56	7439-92-1		
Molybdenum	0.043	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:56	7439-98-7		
Selenium	0.0050	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:26	7782-49-2		
Thallium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 02:56	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/05/21 10:24	10/06/21 11:37	7439-97-6	3d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	2380	mg/L	20.0	1		09/28/21 11:25			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.1	Std. Units	0.10	1		09/28/21 14:29		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-08B-092421		Lab ID: 50298401002		Collected: 09/24/21 12:15		Received: 09/25/21 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	179	mg/L	25.0	100		10/02/21 04:00	16887-00-6		
Fluoride	0.73	mg/L	0.050	1		10/01/21 02:09	16984-48-8		
Sulfate	1060	mg/L	25.0	100		10/02/21 04:00	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	8.4	mg/L	0.10	1	10/03/21 13:45	10/05/21 10:45	7440-42-8		
Calcium	235	mg/L	2.0	2	10/03/21 13:45	10/05/21 11:47	7440-70-2		
Lithium	0.014	mg/L	0.0080	1	10/03/21 13:45	10/05/21 10:45	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:01	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:30	7440-38-2		
Barium	0.046	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:01	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 12:30	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 03:01	7440-43-9		
Chromium	ND	mg/L	0.0020	1	10/01/21 08:42	10/05/21 12:30	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:30	7440-48-4		
Lead	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:01	7439-92-1		
Molybdenum	0.011	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:01	7439-98-7		
Selenium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:30	7782-49-2		
Thallium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:01	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/05/21 10:24	10/06/21 11:39	7439-97-6	3d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	2040	mg/L	40.0	1		09/28/21 11:25			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	1		09/28/21 14:30		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-60-092421		Lab ID: 50298401003		Collected: 09/24/21 13:15		Received: 09/25/21 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	16.5	mg/L	2.5	10		10/01/21 02:51	16887-00-6		
Fluoride	0.51	mg/L	0.050	1		10/01/21 02:37	16984-48-8		
Sulfate	1050	mg/L	25.0	100		10/02/21 04:14	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.97	mg/L	0.10	1	10/03/21 13:45	10/05/21 10:47	7440-42-8		
Calcium	379	mg/L	2.0	2	10/03/21 13:45	10/05/21 11:49	7440-70-2		
Lithium	0.015	mg/L	0.0080	1	10/03/21 13:45	10/05/21 10:47	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:06	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:35	7440-38-2		
Barium	0.031	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:06	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 12:35	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 03:06	7440-43-9		
Chromium	ND	mg/L	0.0020	1	10/01/21 08:42	10/05/21 12:35	7440-47-3		
Cobalt	0.0020	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:35	7440-48-4		
Lead	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:06	7439-92-1		
Molybdenum	0.015	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:06	7439-98-7		
Selenium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:35	7782-49-2		
Thallium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:06	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/05/21 10:24	10/06/21 11:42	7439-97-6	3d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1540	mg/L	20.0	1		09/28/21 11:25			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.3	Std. Units	0.10	1		09/28/21 14:32		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-60B-092421		Lab ID: 50298401004		Collected: 09/24/21 14:05		Received: 09/25/21 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	69.6	mg/L	2.5	10		10/01/21 03:46	16887-00-6		
Fluoride	1.1	mg/L	0.050	1		10/01/21 03:32	16984-48-8		
Sulfate	443	mg/L	25.0	100		10/02/21 04:27	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	7.3	mg/L	0.10	1	10/03/21 13:45	10/05/21 10:49	7440-42-8		
Calcium	309	mg/L	2.0	2	10/03/21 13:45	10/05/21 11:51	7440-70-2		
Lithium	0.045	mg/L	0.0080	1	10/03/21 13:45	10/05/21 10:49	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:10	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:40	7440-38-2		
Barium	0.063	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:10	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 12:40	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 03:10	7440-43-9		
Chromium	ND	mg/L	0.0020	1	10/01/21 08:42	10/05/21 12:40	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:40	7440-48-4		
Lead	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:10	7439-92-1		
Molybdenum	0.37	mg/L	0.0050	5	10/01/21 08:42	10/05/21 13:40	7439-98-7		
Selenium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:40	7782-49-2		
Thallium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:10	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/05/21 10:24	10/06/21 11:44	7439-97-6	3d,F5	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1440	mg/L	20.0	1		09/28/21 11:26			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.0	Std. Units	0.10	1		09/28/21 14:34		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-51-092921		Lab ID: 50298717001		Collected: 09/29/21 11:05		Received: 09/30/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	2.3	mg/L	0.25	1		10/02/21 02:11	16887-00-6		
Fluoride	0.34	mg/L	0.050	1		10/02/21 02:11	16984-48-8		
Sulfate	193	mg/L	2.5	10		10/02/21 02:28	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.50	mg/L	0.10	1	10/07/21 06:43	10/13/21 08:38	7440-42-8		
Calcium	147	mg/L	1.0	1	10/07/21 06:43	10/13/21 08:38	7440-70-2		
Lithium	0.012	mg/L	0.0080	1	10/07/21 06:43	10/13/21 08:38	7439-93-2	F5	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:24	7440-36-0		
Arsenic	0.0016	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:44	7440-38-2		
Barium	0.11	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:24	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 12:44	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 03:24	7440-43-9		
Chromium	ND	mg/L	0.0020	1	10/01/21 08:42	10/05/21 12:44	7440-47-3		
Cobalt	0.0031	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:44	7440-48-4		
Lead	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:24	7439-92-1		
Molybdenum	0.0098	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:24	7439-98-7		
Selenium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:44	7782-49-2		
Thallium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:24	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/10/21 14:31	10/11/21 16:03	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	600	mg/L	10.0	1		10/01/21 09:46			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	6.9	Std. Units	0.10	1		09/30/21 16:17		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-51B-092921		Lab ID: 50298717002		Collected: 09/29/21 12:10		Received: 09/30/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	53.2	mg/L	2.5	10		10/02/21 03:55	16887-00-6		
Fluoride	0.82	mg/L	0.050	1		10/02/21 03:37	16984-48-8		
Sulfate	1480	mg/L	25.0	100		10/02/21 04:12	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	7.0	mg/L	0.10	1	10/07/21 06:43	10/13/21 08:40	7440-42-8		
Calcium	282	mg/L	2.0	2	10/07/21 06:43	10/13/21 08:50	7440-70-2		
Lithium	0.078	mg/L	0.0080	1	10/07/21 06:43	10/13/21 08:40	7439-93-2	F5	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:29	7440-36-0		
Arsenic	0.0044	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:58	7440-38-2		
Barium	0.077	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:29	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 12:58	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 03:29	7440-43-9		
Chromium	ND	mg/L	0.0020	1	10/01/21 08:42	10/05/21 12:58	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:58	7440-48-4		
Lead	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:29	7439-92-1		
Molybdenum	0.15	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:29	7439-98-7		
Selenium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 12:58	7782-49-2		
Thallium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:29	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/10/21 14:31	10/11/21 16:06	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	2270	mg/L	40.0	1		10/01/21 09:47			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	1		09/30/21 16:33		H3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-59-092921		Lab ID: 50298717003		Collected: 09/29/21 13:30		Received: 09/30/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	21.1	mg/L	2.5	10		10/02/21 04:46	16887-00-6		
Fluoride	0.70	mg/L	0.050	1		10/02/21 04:29	16984-48-8		
Sulfate	434	mg/L	25.0	100		10/02/21 05:04	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	1.0	mg/L	0.10	1	10/07/21 06:43	10/13/21 08:43	7440-42-8		
Calcium	217	mg/L	2.0	2	10/07/21 06:43	10/13/21 08:56	7440-70-2		
Lithium	0.018	mg/L	0.0080	1	10/07/21 06:43	10/13/21 08:43	7439-93-2	F5	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:33	7440-36-0		
Arsenic	0.0020	mg/L	0.0010	1	10/01/21 08:42	10/05/21 13:03	7440-38-2		
Barium	0.055	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:33	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 13:03	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 03:33	7440-43-9		
Chromium	ND	mg/L	0.0020	1	10/01/21 08:42	10/05/21 13:03	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 13:03	7440-48-4		
Lead	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:33	7439-92-1		
Molybdenum	0.045	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:33	7439-98-7		
Selenium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 13:03	7782-49-2		
Thallium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:33	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/10/21 14:31	10/11/21 16:13	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	866	mg/L	20.0	1		10/01/21 09:47			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.1	Std. Units	0.10	1		09/30/21 16:36		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-59B-092921		Lab ID: 50298717004		Collected: 09/29/21 14:20		Received: 09/30/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	51.3	mg/L	2.5	10		10/02/21 05:38	16887-00-6		
Fluoride	0.53	mg/L	0.050	1		10/02/21 05:21	16984-48-8		
Sulfate	1180	mg/L	25.0	100		10/02/21 05:56	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	6.3	mg/L	0.10	1	10/07/21 06:43	10/13/21 08:45	7440-42-8		
Calcium	253	mg/L	2.0	2	10/07/21 06:43	10/13/21 08:59	7440-70-2		
Lithium	0.019	mg/L	0.0080	1	10/07/21 06:43	10/13/21 08:45	7439-93-2	F5	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:38	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 13:07	7440-38-2		
Barium	0.040	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:38	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 13:07	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 03:38	7440-43-9		
Chromium	ND	mg/L	0.0020	1	10/01/21 08:42	10/05/21 13:07	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 13:07	7440-48-4		
Lead	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:38	7439-92-1		
Molybdenum	0.050	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:38	7439-98-7		
Selenium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 13:07	7782-49-2		
Thallium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:38	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/10/21 14:31	10/11/21 16:15	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1950	mg/L	40.0	1		10/01/21 09:47			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	1		09/30/21 16:40		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: FD-04-092921		Lab ID: 50298717005		Collected: 09/29/21 12:00		Received: 09/30/21 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	2.3	mg/L	0.25	1		10/02/21 06:47	16887-00-6		
Fluoride	0.34	mg/L	0.050	1		10/02/21 06:47	16984-48-8		
Sulfate	191	mg/L	2.5	10		10/02/21 07:05	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.51	mg/L	0.10	1	10/07/21 06:43	10/13/21 08:47	7440-42-8		
Calcium	148	mg/L	1.0	1	10/07/21 06:43	10/13/21 08:47	7440-70-2		
Lithium	0.012	mg/L	0.0080	1	10/07/21 06:43	10/13/21 08:47	7439-93-2	F5	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:43	7440-36-0		
Arsenic	0.0016	mg/L	0.0010	1	10/01/21 08:42	10/05/21 13:12	7440-38-2		
Barium	0.11	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:43	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 13:12	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	10/01/21 08:42	10/05/21 03:43	7440-43-9		
Chromium	ND	mg/L	0.0020	1	10/01/21 08:42	10/05/21 13:12	7440-47-3		
Cobalt	0.0031	mg/L	0.0010	1	10/01/21 08:42	10/05/21 13:12	7440-48-4		
Lead	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:43	7439-92-1		
Molybdenum	0.0092	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:43	7439-98-7		
Selenium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 13:12	7782-49-2		
Thallium	ND	mg/L	0.0010	1	10/01/21 08:42	10/05/21 03:43	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/10/21 14:31	10/11/21 16:18	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	597	mg/L	10.0	1		10/01/21 09:47			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.0	Std. Units	0.10	1		09/30/21 16:32		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-52-093021		Lab ID: 50298902001		Collected: 09/30/21 09:40		Received: 10/01/21 11:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	15.9	mg/L	2.5	10		10/08/21 23:01	16887-00-6		
Fluoride	0.31	mg/L	0.050	1		10/08/21 22:44	16984-48-8		
Sulfate	50.1	mg/L	2.5	10		10/08/21 23:01	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.10	mg/L	0.10	1	10/10/21 14:24	10/14/21 08:51	7440-42-8		
Calcium	62.5	mg/L	1.0	1	10/10/21 14:24	10/14/21 08:51	7440-70-2		
Lithium	ND	mg/L	0.0080	1	10/10/21 14:24	10/14/21 08:51	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:11	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:11	7440-38-2		
Barium	0.014	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:11	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	10/08/21 08:10	10/13/21 05:11	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	10/08/21 08:10	10/13/21 05:11	7440-43-9		
Chromium	ND	mg/L	0.0020	1	10/08/21 08:10	10/13/21 05:11	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:11	7440-48-4		
Lead	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:11	7439-92-1		
Molybdenum	0.0025	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:11	7439-98-7		
Selenium	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:11	7782-49-2		
Thallium	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:11	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/10/21 14:31	10/11/21 16:25	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	276	mg/L	10.0	1		10/02/21 10:13			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.4	Std. Units	0.10	1		10/07/21 09:18		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-52B-093021		Lab ID: 50298902002		Collected: 09/30/21 10:40		Received: 10/01/21 11:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	135	mg/L	25.0	100		10/11/21 11:29	16887-00-6		
Fluoride	0.38	mg/L	0.050	1		10/08/21 23:18	16984-48-8		
Sulfate	156	mg/L	2.5	10		10/08/21 23:36	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.64	mg/L	0.10	1	10/10/21 14:24	10/14/21 08:53	7440-42-8		
Calcium	120	mg/L	1.0	1	10/10/21 14:24	10/14/21 08:53	7440-70-2		
Lithium	ND	mg/L	0.0080	1	10/10/21 14:24	10/14/21 08:53	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:15	7440-36-0		
Arsenic	0.0011	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:15	7440-38-2		
Barium	0.14	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:15	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	10/08/21 08:10	10/13/21 05:15	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	10/08/21 08:10	10/13/21 05:15	7440-43-9		
Chromium	ND	mg/L	0.0020	1	10/08/21 08:10	10/13/21 05:15	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:15	7440-48-4		
Lead	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:15	7439-92-1		
Molybdenum	0.011	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:15	7439-98-7		
Selenium	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:15	7782-49-2		
Thallium	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:15	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/10/21 14:31	10/11/21 16:28	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	667	mg/L	10.0	1		10/02/21 10:14			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	1		10/07/21 09:20		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-53-093021		Lab ID: 50298902003		Collected: 09/30/21 11:35		Received: 10/01/21 11:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	2.7	mg/L	0.25	1		10/09/21 00:10	16887-00-6		
Fluoride	ND	mg/L	0.050	1		10/09/21 00:10	16984-48-8		
Sulfate	49.4	mg/L	2.5	10		10/09/21 00:27	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	ND	mg/L	0.10	1	10/10/21 14:24	10/14/21 08:56	7440-42-8		
Calcium	28.3	mg/L	1.0	1	10/10/21 14:24	10/14/21 08:56	7440-70-2		
Lithium	ND	mg/L	0.0080	1	10/10/21 14:24	10/14/21 08:56	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:19	7440-36-0		
Arsenic	0.0012	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:19	7440-38-2		
Barium	0.033	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:19	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	10/08/21 08:10	10/13/21 05:19	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	10/08/21 08:10	10/13/21 05:19	7440-43-9		
Chromium	ND	mg/L	0.0020	1	10/08/21 08:10	10/13/21 05:19	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:19	7440-48-4		
Lead	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:19	7439-92-1		
Molybdenum	0.0097	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:19	7439-98-7		
Selenium	0.0019	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:19	7782-49-2		
Thallium	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:19	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/10/21 14:31	10/11/21 16:30	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	147	mg/L	10.0	1		10/02/21 10:14			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	6.4	Std. Units	0.10	1		10/07/21 09:23		H3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-53B-093021		Lab ID: 50298902004		Collected: 09/30/21 13:15		Received: 10/01/21 11:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	66.4	mg/L	2.5	10		10/09/21 01:02	16887-00-6		
Fluoride	0.46	mg/L	0.050	1		10/09/21 00:45	16984-48-8		
Sulfate	295	mg/L	25.0	100		10/11/21 11:45	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	2.7	mg/L	0.10	1	10/10/21 14:24	10/14/21 08:58	7440-42-8		
Calcium	128	mg/L	1.0	1	10/10/21 14:24	10/14/21 08:58	7440-70-2		
Lithium	ND	mg/L	0.0080	1	10/10/21 14:24	10/14/21 08:58	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:23	7440-36-0		
Arsenic	0.0014	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:23	7440-38-2		
Barium	0.051	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:23	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	10/08/21 08:10	10/13/21 05:23	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	10/08/21 08:10	10/13/21 05:23	7440-43-9		
Chromium	ND	mg/L	0.0020	1	10/08/21 08:10	10/13/21 05:23	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:23	7440-48-4		
Lead	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:23	7439-92-1		
Molybdenum	0.011	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:23	7439-98-7		
Selenium	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:23	7782-49-2		
Thallium	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 05:23	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/10/21 14:31	10/11/21 16:33	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	802	mg/L	10.0	1		10/02/21 10:14			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.3	Std. Units	0.10	1		10/07/21 09:25		H3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-54-100121		Lab ID: 50298977001		Collected: 10/01/21 09:50		Received: 10/02/21 09:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions		Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	24.6	mg/L	2.5	10		10/11/21 14:53	16887-00-6		
Fluoride	0.30	mg/L	0.050	1		10/11/21 14:35	16984-48-8		
Sulfate	191	mg/L	2.5	10		10/11/21 14:53	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Boron	0.63	mg/L	0.10	1	10/10/21 14:24	10/14/21 09:14	7440-42-8		
Calcium	114	mg/L	1.0	1	10/10/21 14:24	10/14/21 09:14	7440-70-2		
Lithium	ND	mg/L	0.0080	1	10/10/21 14:24	10/14/21 09:14	7439-93-2		
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:08	7440-36-0		
Arsenic	0.024	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:08	7440-38-2		
Barium	0.048	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:08	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	10/08/21 08:10	10/13/21 07:08	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	10/08/21 08:10	10/13/21 07:08	7440-43-9		
Chromium	ND	mg/L	0.0020	1	10/08/21 08:10	10/13/21 07:08	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:08	7440-48-4		
Lead	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:08	7439-92-1		
Molybdenum	0.025	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:08	7439-98-7		
Selenium	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:08	7782-49-2	1d	
Thallium	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:08	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	10/10/21 14:31	10/11/21 16:35	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	506	mg/L	10.0	1		10/02/21 14:36			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	6.8	Std. Units	0.10	1		10/07/21 09:27		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-54B-100121		Lab ID: 50298977002		Collected: 10/01/21 11:25		Received: 10/02/21 09:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	70.4	mg/L	2.5	10		10/11/21 15:52	16887-00-6		
Fluoride	0.52	mg/L	0.050	1		10/11/21 15:34	16984-48-8		
Sulfate	501	mg/L	25.0	100		10/11/21 16:11	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	3.1	mg/L	0.10	1	10/10/21 14:24	10/14/21 09:16	7440-42-8		
Calcium	190	mg/L	1.0	1	10/10/21 14:24	10/14/21 09:16	7440-70-2		
Lithium	ND	mg/L	0.0080	1	10/10/21 14:24	10/14/21 09:16	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:12	7440-36-0		
Arsenic	0.0040	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:12	7440-38-2		
Barium	0.056	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:12	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	10/08/21 08:10	10/13/21 07:12	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	10/08/21 08:10	10/13/21 07:12	7440-43-9		
Chromium	ND	mg/L	0.0020	1	10/08/21 08:10	10/13/21 07:12	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:12	7440-48-4		
Lead	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:12	7439-92-1		
Molybdenum	0.025	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:12	7439-98-7		
Selenium	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:12	7782-49-2	1d	
Thallium	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:12	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/10/21 14:31	10/11/21 16:37	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1030	mg/L	20.0	1		10/02/21 14:36			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	1		10/07/21 09:29		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-55R-100121		Lab ID: 50298977003		Collected: 10/01/21 12:25		Received: 10/02/21 09:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	44.1	mg/L	2.5	10		10/11/21 18:01	16887-00-6		
Fluoride	0.51	mg/L	0.050	1		10/11/21 17:43	16984-48-8		
Sulfate	389	mg/L	25.0	100		10/11/21 18:20	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	1.7	mg/L	0.10	1	10/10/21 14:24	10/14/21 09:36	7440-42-8		
Calcium	197	mg/L	1.0	1	10/10/21 14:24	10/14/21 09:36	7440-70-2		
Lithium	0.010	mg/L	0.0080	1	10/10/21 14:24	10/14/21 09:36	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:16	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:16	7440-38-2		
Barium	0.038	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:16	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	10/08/21 08:10	10/13/21 11:57	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	10/08/21 08:10	10/13/21 07:16	7440-43-9		
Chromium	ND	mg/L	0.0020	1	10/08/21 08:10	10/13/21 07:16	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:16	7440-48-4		
Lead	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:16	7439-92-1		
Molybdenum	0.017	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:16	7439-98-7		
Selenium	0.0046	mg/L	0.0010	1	10/08/21 08:10	10/13/21 11:57	7782-49-2		
Thallium	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:16	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/10/21 14:31	10/11/21 16:40	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	948	mg/L	20.0	1		10/02/21 14:36			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	1		10/07/21 09:30		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-55B-100121		Lab ID: 50298977004		Collected: 10/01/21 13:30		Received: 10/02/21 09:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	79.4	mg/L	2.5	10		10/11/21 18:57	16887-00-6		
Fluoride	0.30	mg/L	0.050	1		10/11/21 18:38	16984-48-8		
Sulfate	496	mg/L	25.0	100		10/11/21 19:15	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	8.3	mg/L	0.10	1	10/10/21 14:24	10/14/21 09:20	7440-42-8		
Calcium	205	mg/L	2.0	2	10/10/21 14:24	10/14/21 09:38	7440-70-2		
Lithium	0.012	mg/L	0.0080	1	10/10/21 14:24	10/14/21 09:20	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:28	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 12:02	7440-38-2		
Barium	0.050	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:28	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	10/08/21 08:10	10/13/21 12:02	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	10/08/21 08:10	10/13/21 07:28	7440-43-9		
Chromium	ND	mg/L	0.0020	1	10/08/21 08:10	10/13/21 07:28	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:28	7440-48-4		
Lead	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:28	7439-92-1		
Molybdenum	0.0058	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:28	7439-98-7		
Selenium	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 12:02	7782-49-2		
Thallium	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:28	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/10/21 14:31	10/11/21 16:42	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	1120	mg/L	20.0	1		10/02/21 14:36			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.2	Std. Units	0.10	1		10/07/21 09:31		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-56-100421		Lab ID: 50299064001		Collected: 10/04/21 10:10		Received: 10/05/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	1.7	mg/L	0.25	1		10/11/21 23:15	16887-00-6		
Fluoride	1.0	mg/L	0.050	1		10/11/21 23:15	16984-48-8		
Sulfate	64.8	mg/L	2.5	10		10/11/21 23:33	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	0.19	mg/L	0.10	1	10/06/21 14:53	10/07/21 01:26	7440-42-8		
Calcium	108	mg/L	1.0	1	10/06/21 14:53	10/07/21 01:26	7440-70-2		
Lithium	ND	mg/L	0.0080	1	10/06/21 14:53	10/07/21 01:26	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:32	7440-36-0		
Arsenic	0.0018	mg/L	0.0010	1	10/08/21 08:10	10/13/21 12:19	7440-38-2		
Barium	0.040	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:32	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	10/08/21 08:10	10/13/21 12:19	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	10/08/21 08:10	10/13/21 07:32	7440-43-9		
Chromium	ND	mg/L	0.0020	1	10/08/21 08:10	10/13/21 07:32	7440-47-3		
Cobalt	0.0045	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:32	7440-48-4		
Lead	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:32	7439-92-1		
Molybdenum	0.011	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:32	7439-98-7		
Selenium	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 12:19	7782-49-2		
Thallium	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:32	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/10/21 14:31	10/11/21 16:45	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	379	mg/L	10.0	1		10/06/21 11:07			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.0	Std. Units	0.10	1		10/07/21 09:40		H3	

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ANALYTICAL RESULTS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Sample: GAMW-56B-100421		Lab ID: 50299064002		Collected: 10/04/21 11:30		Received: 10/05/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
9056 IC Anions									
Analytical Method: EPA 9056									
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL									
Pace Analytical Services - Indianapolis									
Chloride	73.7	mg/L	2.5	10		10/12/21 02:56	16887-00-6		
Fluoride	0.46	mg/L	0.050	1		10/12/21 02:38	16984-48-8		
Sulfate	268	mg/L	25.0	100		10/12/21 03:15	14808-79-8		
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Boron	1.4	mg/L	0.10	1	10/06/21 14:53	10/07/21 01:28	7440-42-8		
Calcium	160	mg/L	1.0	1	10/06/21 14:53	10/07/21 01:28	7440-70-2		
Lithium	0.0091	mg/L	0.0080	1	10/06/21 14:53	10/07/21 01:28	7439-93-2		
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 200.2									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Indianapolis									
Antimony	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:36	7440-36-0		
Arsenic	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 12:23	7440-38-2		
Barium	0.081	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:36	7440-39-3		
Beryllium	ND	mg/L	0.00020	1	10/08/21 08:10	10/13/21 12:23	7440-41-7		
Cadmium	ND	mg/L	0.00020	1	10/08/21 08:10	10/13/21 07:36	7440-43-9		
Chromium	ND	mg/L	0.0020	1	10/08/21 08:10	10/13/21 07:36	7440-47-3		
Cobalt	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:36	7440-48-4		
Lead	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:36	7439-92-1		
Molybdenum	0.0062	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:36	7439-98-7		
Selenium	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 12:23	7782-49-2		
Thallium	ND	mg/L	0.0010	1	10/08/21 08:10	10/13/21 07:36	7440-28-0		
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL									
Pace Analytical Services - Indianapolis									
Mercury	ND	ug/L	0.20	1	10/10/21 14:31	10/11/21 16:47	7439-97-6		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL									
Pace Analytical Services - Indianapolis									
Total Dissolved Solids	802	mg/L	20.0	1		10/06/21 11:07			
4500H+ pH, Electrometric									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Indianapolis									
pH at 25 Degrees C	7.1	Std. Units	0.10	1		10/07/21 09:42		H3	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	640991	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50297587001, 50297587002, 50297587003, 50297587004

METHOD BLANK: 2952152 Matrix: Water

Associated Lab Samples: 50297587001, 50297587002, 50297587003, 50297587004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	09/28/21 16:41	
Fluoride	mg/L	ND	0.050	09/28/21 16:41	
Sulfate	mg/L	ND	0.25	09/28/21 16:41	

LABORATORY CONTROL SAMPLE: 2952153

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	98	80-120	
Fluoride	mg/L	0.5	0.52	105	80-120	
Sulfate	mg/L	2.5	2.0	82	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2952154 2952155

Parameter	Units	50297557005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	14.1	12.5	12.5	26.8	26.8	102	102	80-120	0	15	
Fluoride	mg/L	0.19	0.5	0.5	0.72	0.73	106	108	80-120	2	15	
Sulfate	mg/L	109	25	25	139	139	119	119	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	640992	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50297587005, 50297587006

METHOD BLANK: 2952156 Matrix: Water

Associated Lab Samples: 50297587005, 50297587006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	09/24/21 02:16	
Fluoride	mg/L	ND	0.050	09/24/21 02:16	
Sulfate	mg/L	ND	0.25	09/24/21 02:16	

LABORATORY CONTROL SAMPLE: 2952157

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	97	80-120	
Fluoride	mg/L	0.5	0.54	109	80-120	
Sulfate	mg/L	2.5	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2952158 2952159

Parameter	Units	50297587005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	97.0	12.5	12.5	113	113	130	129	80-120	0	15	M0
Fluoride	mg/L	0.16	0.5	0.5	0.49	0.51	65	69	80-120	4	15	M0
Sulfate	mg/L	1160	250	250	1450	1450	119	118	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21
Pace Project No.: 50297587

QC Batch:	641158	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50297724001, 50297724002, 50297724003, 50297724004, 50297724005, 50297724006, 50297724007, 50297724008, 50297724009, 50297724010, 50297724011		

METHOD BLANK: 2953020 Matrix: Water
Associated Lab Samples: 50297724001, 50297724002, 50297724003, 50297724004, 50297724005, 50297724006, 50297724007, 50297724008, 50297724009, 50297724010, 50297724011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	09/24/21 12:43	
Fluoride	mg/L	ND	0.050	09/24/21 12:43	
Sulfate	mg/L	ND	0.25	09/24/21 12:43	

LABORATORY CONTROL SAMPLE: 2953021

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	97	80-120	
Fluoride	mg/L	0.5	0.51	101	80-120	
Sulfate	mg/L	2.5	2.4	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2953022 2953023

Parameter	Units	50297657008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	15.7	12.5	12.5	26.6	26.6	87	87	80-120	0	15	
Fluoride	mg/L	0.12	0.5	0.5	0.52	0.53	80	81	80-120	1	15	
Sulfate	mg/L	190	25	25	215	215	99	97	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21
Pace Project No.: 50297587

QC Batch:	641595	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50298104001, 50298104002, 50298104003, 50298104004, 50298122001, 50298122002, 50298122003, 50298122004, 50298122005		

METHOD BLANK: 2955254 Matrix: Water
Associated Lab Samples: 50298104001, 50298104002, 50298104003, 50298104004, 50298122001, 50298122002, 50298122003, 50298122004, 50298122005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	09/28/21 12:07	
Fluoride	mg/L	ND	0.050	09/28/21 12:07	
Sulfate	mg/L	ND	0.25	09/28/21 12:07	

LABORATORY CONTROL SAMPLE: 2955255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	94	80-120	
Fluoride	mg/L	0.5	0.50	100	80-120	
Sulfate	mg/L	2.5	2.4	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2955256 2955257

Parameter	Units	50298062004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	108	12.5	12.5	121	121	102	102	80-120	0	15	
Fluoride	mg/L	0.15	0.5	0.5	0.65	0.66	100	101	80-120	1	15	
Sulfate	mg/L	51.2	25	25	75.5	75.5	97	97	80-120	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2955258 2955259

Parameter	Units	50298122002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	269	125	125	395	395	101	101	80-120	0	15	
Fluoride	mg/L	0.44	0.5	0.5	0.55	0.55	21	23	80-120	1	15	M0
Sulfate	mg/L	900	250	250	1160	1160	106	106	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	642111	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50298266001, 50298266002, 50298266003, 50298266004, 50298266005, 50298266006		

METHOD BLANK:	2957853	Matrix:	Water
Associated Lab Samples:	50298266001, 50298266002, 50298266003, 50298266004, 50298266005, 50298266006		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	09/29/21 03:20	
Fluoride	mg/L	ND	0.050	09/29/21 03:20	
Sulfate	mg/L	ND	0.25	09/29/21 03:20	

LABORATORY CONTROL SAMPLE: 2957854

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	92	80-120	
Fluoride	mg/L	0.5	0.49	98	80-120	
Sulfate	mg/L	2.5	2.4	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2957855 2957856

Parameter	Units	50298279001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	17.8	12.5	12.5	30.2	30.1	100	99	80-120	0	15	
Fluoride	mg/L	0.98	0.5	0.5	1.5	1.5	100	104	80-120	1	15	
Sulfate	mg/L	318	250	250	568	567	100	100	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	642303	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50298401001, 50298401002, 50298401003, 50298401004		

METHOD BLANK: 2958728 Matrix: Water
Associated Lab Samples: 50298401001, 50298401002, 50298401003, 50298401004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	09/30/21 16:54	
Fluoride	mg/L	ND	0.050	09/30/21 16:54	
Sulfate	mg/L	ND	0.25	09/30/21 16:54	

LABORATORY CONTROL SAMPLE: 2958729

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	100	80-120	
Fluoride	mg/L	0.5	0.53	106	80-120	
Sulfate	mg/L	2.5	2.5	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2958730 2958731

Parameter	Units	50298513001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	12.6	12.5	12.5	23.6	23.6	87	88	80-120	0	15	
Fluoride	mg/L	0.16	0.5	0.5	0.59	0.59	87	88	80-120	0	15	
Sulfate	mg/L	204	25	25	230	230	105	104	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	642684	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50298717001, 50298717002, 50298717003, 50298717004, 50298717005

METHOD BLANK: 2960755

Matrix: Water

Associated Lab Samples: 50298717001, 50298717002, 50298717003, 50298717004, 50298717005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	10/01/21 15:22	
Fluoride	mg/L	ND	0.050	10/01/21 15:22	
Sulfate	mg/L	ND	0.25	10/01/21 15:22	

LABORATORY CONTROL SAMPLE: 2960756

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	94	80-120	
Fluoride	mg/L	0.5	0.48	96	80-120	
Sulfate	mg/L	2.5	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2960757 2960758

Parameter	Units	50298610010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	13.2	12.5	12.5	25.4	25.4	98	98	80-120	0	15	
Fluoride	mg/L	0.21	0.5	0.5	0.72	0.72	101	102	80-120	0	15	
Sulfate	mg/L	21.7	2.5	2.5	24.5	24.0	114	94	80-120	2	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	643429	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50298902001, 50298902002, 50298902003, 50298902004

METHOD BLANK: 2964339 Matrix: Water

Associated Lab Samples: 50298902001, 50298902002, 50298902003, 50298902004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	10/08/21 13:08	
Fluoride	mg/L	ND	0.050	10/08/21 13:08	
Sulfate	mg/L	ND	0.25	10/08/21 13:08	

LABORATORY CONTROL SAMPLE: 2964340

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.1	90	80-120	
Fluoride	mg/L	0.5	0.47	94	80-120	
Sulfate	mg/L	2.5	2.4	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2964341 2964342

Parameter	Units	50298874002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	536	125	125	650	648	92	90	80-120	0	15	
Fluoride	mg/L	2.0	0.5	0.5	2.5	2.5	102	102	80-120	0	15	
Sulfate	mg/L	80.1	25	25	104	104	97	97	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	644075	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples: 50298977001, 50298977002, 50298977003, 50298977004, 50299064001, 50299064002			

METHOD BLANK:	2967724	Matrix:	Water
Associated Lab Samples: 50298977001, 50298977002, 50298977003, 50298977004, 50299064001, 50299064002			

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	10/11/21 13:58	
Fluoride	mg/L	ND	0.050	10/11/21 13:58	
Sulfate	mg/L	ND	0.25	10/11/21 13:58	

LABORATORY CONTROL SAMPLE: 2967725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	97	80-120	
Fluoride	mg/L	0.5	0.49	98	80-120	
Sulfate	mg/L	2.5	2.5	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2967726 2967727

Parameter	Units	50299064001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.7	1.2	1.2	2.9	2.9	94	93	80-120	0	15	
Fluoride	mg/L	1.0	0.5	0.5	1.5	1.5	96	96	80-120	0	15	
Sulfate	mg/L	64.8	25	25	88.0	88.0	93	93	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	642247	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50297587001, 50297587002, 50297587003, 50297587004, 50297587005, 50297587006

METHOD BLANK:	2958602	Matrix:	Water

Associated Lab Samples: 50297587001, 50297587002, 50297587003, 50297587004, 50297587005, 50297587006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	09/29/21 19:22	

LABORATORY CONTROL SAMPLE: 2958603						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2958604													2958605		
Parameter	Units	50297587005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual			
Mercury	ug/L	ND	5	5	4.8	5.2	96	104	75-125	8	20				

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch: 642249

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50298104001, 50298104002, 50298104003, 50298104004

METHOD BLANK: 2958608

Matrix: Water

Associated Lab Samples: 50298104001, 50298104002, 50298104003, 50298104004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	09/29/21 20:30	

LABORATORY CONTROL SAMPLE: 2958609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.4	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2958610 2958611

Parameter	Units	50297742011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.2	5.0	103	100	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	642251	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50297724001, 50297724002, 50297724003, 50297724004, 50297724005, 50297724006, 50297724007, 50297724008, 50297724009, 50297724010, 50297724011		

METHOD BLANK:	2958612	Matrix:	Water
Associated Lab Samples:	50297724001, 50297724002, 50297724003, 50297724004, 50297724005, 50297724006, 50297724007, 50297724008, 50297724009, 50297724010, 50297724011		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	09/30/21 08:52	

LABORATORY CONTROL SAMPLE: 2958613						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.1	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:					2958614								2958615			
Parameter	Units	50297724003 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual				
			Spike Conc.	Spike Conc.												
Mercury	ug/L	ND	5	5	5.0	5.1	101	101	75-125	1	20					

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	642480	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50298122001, 50298122002, 50298122003, 50298122004, 50298122005		

METHOD BLANK:	2959662	Matrix:	Water
Associated Lab Samples:	50298122001, 50298122002, 50298122003, 50298122004, 50298122005		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	10/06/21 07:20	

LABORATORY CONTROL SAMPLE:	2959663					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.1	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	2959664			2959665								
Parameter	Units	50298122002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.7	4.8	94	97	75-125	3	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	642586	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples: 50298266001, 50298266002, 50298266003, 50298266004, 50298266005, 50298266006			

METHOD BLANK:	2960032	Matrix:	Water
Associated Lab Samples: 50298266001, 50298266002, 50298266003, 50298266004, 50298266005, 50298266006			

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	10/07/21 07:21	

LABORATORY CONTROL SAMPLE: 2960033						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2960034 2960035												
Parameter	Units	50298327003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.3	5.1	106	103	75-125	3	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	642791	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50298401001, 50298401002, 50298401003, 50298401004		

METHOD BLANK: 2961322 Matrix: Water
Associated Lab Samples: 50298401001, 50298401002, 50298401003, 50298401004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	10/06/21 10:53	

LABORATORY CONTROL SAMPLE: 2961323

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2961324 2961325

Parameter	Units	50298381004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.0	5.0	100	100	75-125	0	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	643729	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50298717001, 50298717002, 50298717003, 50298717004, 50298717005, 50298902001, 50298902002, 50298902003, 50298902004, 50298977001, 50298977002, 50298977003, 50298977004, 50299064001, 50299064002		

METHOD BLANK:	2965663	Matrix:	Water
Associated Lab Samples:	50298717001, 50298717002, 50298717003, 50298717004, 50298717005, 50298902001, 50298902002, 50298902003, 50298902004, 50298977001, 50298977002, 50298977003, 50298977004, 50299064001, 50299064002		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	10/11/21 15:56	

LABORATORY CONTROL SAMPLE: 2965664						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:					2965665	2965666							
		50298717002	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits		Max RPD	Qual	
Parameter	Units	Result											
Mercury	ug/L	ND	5	5	5.4	5.5	109	111	75-125	1	20		

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	640779	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50297587001, 50297587002, 50297587003, 50297587004, 50297587005, 50297587006

METHOD BLANK: 2951297

Matrix: Water

Associated Lab Samples: 50297587001, 50297587002, 50297587003, 50297587004, 50297587005, 50297587006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	09/30/21 11:56	
Calcium	mg/L	ND	1.0	09/30/21 11:56	
Lithium	mg/L	ND	0.0080	09/30/21 11:56	

LABORATORY CONTROL SAMPLE: 2951298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	100	80-120	
Calcium	mg/L	5	5.1	103	80-120	
Lithium	mg/L	1	1.0	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2951299 2951300

Parameter	Units	50297587005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	5.9	1	1	7.1	6.9	118	99	75-125	3	20	
Calcium	mg/L	456	5	5	471	457	304	9	75-125	3	20	P6
Lithium	mg/L	0.011	1	1	1.1	1.0	104	103	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	641063	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50297724001, 50297724002, 50297724003, 50297724004, 50297724005, 50297724006, 50297724007, 50297724008, 50297724009, 50297724010, 50297724011		

METHOD BLANK: 2952735

Matrix: Water

Associated Lab Samples: 50297724001, 50297724002, 50297724003, 50297724004, 50297724005, 50297724006, 50297724007, 50297724008, 50297724009, 50297724010, 50297724011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	10/01/21 08:06	
Calcium	mg/L	ND	1.0	10/01/21 08:06	
Lithium	mg/L	ND	0.0080	10/01/21 08:06	

LABORATORY CONTROL SAMPLE: 2952736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	101	80-120	
Calcium	mg/L	5	5.3	106	80-120	
Lithium	mg/L	1	1.1	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2952737 2952738

Parameter	Units	50297724003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.19	1	1	1.2	1.2	101	101	75-125	1	20	
Calcium	mg/L	71.2	5	5	77.1	78.6	118	148	75-125	2	20	P6
Lithium	mg/L	ND	1	1	1.1	1.1	106	105	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21
Pace Project No.: 50297587

QC Batch:	641524	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50298104001, 50298104002, 50298104003, 50298104004, 50298122001, 50298122002, 50298122003, 50298122004, 50298122005		

METHOD BLANK: 2955001 Matrix: Water
Associated Lab Samples: 50298104001, 50298104002, 50298104003, 50298104004, 50298122001, 50298122002, 50298122003, 50298122004, 50298122005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	10/05/21 11:58	
Calcium	mg/L	ND	1.0	10/05/21 11:58	
Lithium	mg/L	ND	0.0080	10/05/21 11:58	

LABORATORY CONTROL SAMPLE: 2955002

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	102	80-120	
Calcium	mg/L	5	5.2	105	80-120	
Lithium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2955003 2955004

Parameter	Units	50298119004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	7.1	1	1	8.2	8.3	118	127	75-125	1	20	P6
Calcium	mg/L	150	5	5	162	164	238	286	75-125	1	20	P6
Lithium	mg/L	0.011	1	1	1.0	1.0	104	104	75-125	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2955005 2955006

Parameter	Units	50298122002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	28.1	1	1	29.0	29.6	91	156	75-125	2	20	P6
Calcium	mg/L	352	5	5	369	359	344	152	75-125	3	20	P6
Lithium	mg/L	0.026	1	1	1.1	1.0	103	100	75-125	3	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	642259	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50298266001, 50298266002, 50298266003, 50298266004, 50298266005, 50298266006

METHOD BLANK: 2958632 Matrix: Water

Associated Lab Samples: 50298266001, 50298266002, 50298266003, 50298266004, 50298266005, 50298266006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	10/07/21 10:15	
Calcium	mg/L	ND	1.0	10/07/21 10:15	
Lithium	mg/L	ND	0.0080	10/07/21 10:15	

LABORATORY CONTROL SAMPLE: 2958633

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	100	80-120	
Calcium	mg/L	5	5.2	105	80-120	
Lithium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2958634 2958635

Parameter	Units	50298258003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	3.6	1	1	4.9	4.7	123	112	75-125	2	20	
Calcium	mg/L	219	5	5	227	224	168	110	75-125	1	20	E,P6
Lithium	mg/L	ND	1	1	1.1	1.1	106	105	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	642471	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50298401001, 50298401002, 50298401003, 50298401004

METHOD BLANK: 2959627 Matrix: Water

Associated Lab Samples: 50298401001, 50298401002, 50298401003, 50298401004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	10/05/21 10:32	
Calcium	mg/L	ND	1.0	10/05/21 10:32	
Lithium	mg/L	ND	0.0080	10/05/21 10:32	

LABORATORY CONTROL SAMPLE: 2959628

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.93	93	80-120	
Calcium	mg/L	5	5.0	100	80-120	
Lithium	mg/L	1	0.97	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2959629 2959630

Parameter	Units	50298610010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	ND	1	1	0.97	0.98	95	96	75-125	0	20	
Calcium	mg/L	69600 ug/L	5	5	73.7	74.2	82	92	75-125	1	20	
Lithium	mg/L	ND	1	1	0.97	0.96	97	96	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	642709	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50298717001, 50298717002, 50298717003, 50298717004, 50298717005

METHOD BLANK: 2960951

Matrix: Water

Associated Lab Samples: 50298717001, 50298717002, 50298717003, 50298717004, 50298717005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	10/13/21 08:36	
Calcium	mg/L	ND	1.0	10/13/21 08:36	
Lithium	mg/L	ND	0.0080	10/13/21 08:36	

LABORATORY CONTROL SAMPLE: 2960952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.97	97	80-120	
Calcium	mg/L	5	4.9	98	80-120	
Lithium	mg/L	1	1.1	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2960953 2960954

Parameter	Units	50298673013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	ND	1	1	1.1	1.1	100	100	75-125	0	20	
Calcium	mg/L	75800 ug/L	5	5	83.3	82.7	150	138	75-125	1	20	P6
Lithium	mg/L	ND	1	1	1.1	1.1	107	109	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	643500	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50298902001, 50298902002, 50298902003, 50298902004, 50298977001, 50298977002, 50298977003, 50298977004		

METHOD BLANK:	2964600	Matrix:	Water
Associated Lab Samples:	50298902001, 50298902002, 50298902003, 50298902004, 50298977001, 50298977002, 50298977003, 50298977004		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	10/14/21 08:21	
Calcium	mg/L	ND	1.0	10/14/21 08:21	
Lithium	mg/L	ND	0.0080	10/14/21 08:21	

LABORATORY CONTROL SAMPLE: 2964601						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	102	80-120	
Calcium	mg/L	5	4.9	98	80-120	
Lithium	mg/L	1	1.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2964602					2964603							
Parameter	Units	50298896003	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike Conc.	Spike Conc.								
Boron	mg/L	ND	1	1	1.1	1.1	98	98	75-125	0	20	
Calcium	mg/L	27.4	5	5	31.3	31.3	78	77	75-125	0	20	
Lithium	mg/L	ND	1	1	0.98	0.99	98	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	643537	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50299064001, 50299064002

METHOD BLANK: 2964838 Matrix: Water

Associated Lab Samples: 50299064001, 50299064002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	10/07/21 01:21	
Calcium	mg/L	ND	1.0	10/07/21 01:21	
Lithium	mg/L	ND	0.0080	10/07/21 01:21	

LABORATORY CONTROL SAMPLE: 2964839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.99	99	80-120	
Calcium	mg/L	5	5.0	101	80-120	
Lithium	mg/L	1	1.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2964840 2964841

Parameter	Units	50299064002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	1.4	1	1	2.4	2.3	101	94	75-125	3	20	
Calcium	mg/L	160	5	5	161	156	30	-74	75-125	3	20	P6
Lithium	mg/L	0.0091	1	1	1.0	1.0	101	99	75-125	2	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	641183	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50297587001, 50297587002, 50297587003, 50297587004, 50297587005, 50297587006		

METHOD BLANK:	2953130	Matrix:	Water
Associated Lab Samples:	50297587001, 50297587002, 50297587003, 50297587004, 50297587005, 50297587006		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	09/27/21 09:50	
Arsenic	mg/L	ND	0.0010	09/27/21 09:50	
Barium	mg/L	ND	0.0010	09/27/21 09:50	
Beryllium	mg/L	ND	0.00020	09/27/21 09:50	
Cadmium	mg/L	ND	0.00020	09/27/21 09:50	
Chromium	mg/L	ND	0.0020	09/27/21 09:50	
Cobalt	mg/L	ND	0.0010	09/27/21 09:50	
Lead	mg/L	ND	0.0010	09/27/21 09:50	
Molybdenum	mg/L	ND	0.0010	09/27/21 09:50	
Selenium	mg/L	ND	0.0010	09/27/21 09:50	
Thallium	mg/L	ND	0.0010	09/27/21 09:50	

LABORATORY CONTROL SAMPLE: 2953131						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.042	105	80-120	
Arsenic	mg/L	0.04	0.038	96	80-120	
Barium	mg/L	0.04	0.038	94	80-120	
Beryllium	mg/L	0.04	0.037	93	80-120	
Cadmium	mg/L	0.04	0.040	99	80-120	
Chromium	mg/L	0.04	0.040	99	80-120	
Cobalt	mg/L	0.04	0.040	101	80-120	
Lead	mg/L	0.04	0.040	101	80-120	
Molybdenum	mg/L	0.04	0.040	99	80-120	
Selenium	mg/L	0.04	0.039	97	80-120	
Thallium	mg/L	0.04	0.040	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2953132 2953133												
Parameter	Units	50297587005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.04	0.04	0.042	0.042	106	105	75-125	1	20	
Arsenic	mg/L	ND	0.04	0.04	0.039	0.039	97	95	75-125	2	20	
Barium	mg/L	0.057	0.04	0.04	0.098	0.099	104	105	75-125	1	20	
Beryllium	mg/L	ND	0.04	0.04	0.036	0.036	91	90	75-125	1	20	
Cadmium	mg/L	ND	0.04	0.04	0.036	0.035	91	87	75-125	4	20	
Chromium	mg/L	ND	0.04	0.04	0.038	0.038	94	94	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
2953132					2953133							
Parameter	Units	50297587005	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike Conc.	Spike Conc.								
Cobalt	mg/L	0.0011	0.04	0.04	0.038	0.038	92	92	75-125	1	20	
Lead	mg/L	ND	0.04	0.04	0.040	0.040	99	99	75-125	0	20	
Molybdenum	mg/L	0.14	0.04	0.04	0.18	0.18	100	97	75-125	1	20	
Selenium	mg/L	0.028	0.04	0.04	0.068	0.069	101	104	75-125	1	20	
Thallium	mg/L	ND	0.04	0.04	0.040	0.040	99	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	641915	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50297724001, 50297724002, 50297724003, 50297724004, 50297724005, 50297724006, 50297724007, 50297724008, 50297724009, 50297724010, 50297724011, 50298104001, 50298104002, 50298104003, 50298104004, 50298122001, 50298122002, 50298122003, 50298122004, 50298122005		

METHOD BLANK: 2957241

Matrix: Water

Associated Lab Samples: 50297724001, 50297724002, 50297724003, 50297724004, 50297724005, 50297724006, 50297724007, 50297724008, 50297724009, 50297724010, 50297724011, 50298104001, 50298104002, 50298104003, 50298104004, 50298122001, 50298122002, 50298122003, 50298122004, 50298122005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	09/30/21 01:36	
Arsenic	mg/L	ND	0.0010	09/30/21 01:36	
Barium	mg/L	ND	0.0010	09/30/21 01:36	
Beryllium	mg/L	ND	0.00020	09/30/21 01:36	
Cadmium	mg/L	ND	0.00020	09/30/21 01:36	
Chromium	mg/L	ND	0.0020	09/30/21 01:36	
Cobalt	mg/L	ND	0.0010	09/30/21 01:36	
Lead	mg/L	ND	0.0010	09/30/21 01:36	
Molybdenum	mg/L	ND	0.0010	09/30/21 01:36	
Selenium	mg/L	ND	0.0010	09/30/21 01:36	
Thallium	mg/L	ND	0.0010	09/30/21 01:36	

LABORATORY CONTROL SAMPLE: 2957242

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.042	105	80-120	
Arsenic	mg/L	0.04	0.039	99	80-120	
Barium	mg/L	0.04	0.039	97	80-120	
Beryllium	mg/L	0.04	0.039	98	80-120	
Cadmium	mg/L	0.04	0.040	100	80-120	
Chromium	mg/L	0.04	0.041	102	80-120	
Cobalt	mg/L	0.04	0.041	102	80-120	
Lead	mg/L	0.04	0.040	101	80-120	
Molybdenum	mg/L	0.04	0.040	100	80-120	
Selenium	mg/L	0.04	0.039	98	80-120	
Thallium	mg/L	0.04	0.040	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2957243 2957244

Parameter	Units	50298122002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.04	0.04	0.044	0.045	111	113	75-125	2	20	
Arsenic	mg/L	ND	0.04	0.04	0.040	0.039	99	97	75-125	3	20	
Barium	mg/L	0.17	0.04	0.04	0.21	0.21	102	104	75-125	0	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2957243 2957244													
Parameter	Units	50298122002	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Max	Qual
		Result	Spike	Spike									
Beryllium	mg/L	ND	0.04	0.04	0.039	0.040	97	100	75-125	3	20		
Cadmium	mg/L	ND	0.04	0.04	0.036	0.037	91	92	75-125	2	20		
Chromium	mg/L	ND	0.04	0.04	0.040	0.039	100	96	75-125	4	20		
Cobalt	mg/L	ND	0.04	0.04	0.037	0.038	90	92	75-125	2	20		
Lead	mg/L	ND	0.04	0.04	0.041	0.041	102	103	75-125	2	20		
Molybdenum	mg/L	0.0029	0.04	0.04	0.044	0.045	103	105	75-125	2	20		
Selenium	mg/L	ND	0.04	0.04	0.038	0.037	94	91	75-125	3	20		
Thallium	mg/L	ND	0.04	0.04	0.041	0.042	103	105	75-125	2	20		

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	642574	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50298266001, 50298266002, 50298266003, 50298266004, 50298266005, 50298266006, 50298401001, 50298401002, 50298401003, 50298401004, 50298717001, 50298717002, 50298717003, 50298717004, 50298717005		

METHOD BLANK: 2959971

Matrix: Water

Associated Lab Samples: 50298266001, 50298266002, 50298266003, 50298266004, 50298266005, 50298266006, 50298401001, 50298401002, 50298401003, 50298401004, 50298717001, 50298717002, 50298717003, 50298717004, 50298717005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	10/05/21 01:42	
Arsenic	mg/L	ND	0.0010	10/05/21 11:11	
Barium	mg/L	ND	0.0010	10/05/21 01:42	
Beryllium	mg/L	ND	0.00020	10/05/21 11:11	
Cadmium	mg/L	ND	0.00020	10/05/21 01:42	
Chromium	mg/L	ND	0.0020	10/05/21 11:11	
Cobalt	mg/L	ND	0.0010	10/05/21 11:11	
Lead	mg/L	ND	0.0010	10/05/21 01:42	
Molybdenum	mg/L	ND	0.0010	10/05/21 01:42	
Selenium	mg/L	ND	0.0010	10/05/21 11:11	
Thallium	mg/L	ND	0.0010	10/05/21 01:42	

LABORATORY CONTROL SAMPLE: 2959972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.041	104	80-120	
Arsenic	mg/L	0.04	0.039	97	80-120	
Barium	mg/L	0.04	0.037	94	80-120	
Beryllium	mg/L	0.04	0.040	101	80-120	
Cadmium	mg/L	0.04	0.037	94	80-120	
Chromium	mg/L	0.04	0.042	104	80-120	
Cobalt	mg/L	0.04	0.041	103	80-120	
Lead	mg/L	0.04	0.041	102	80-120	
Molybdenum	mg/L	0.04	0.039	98	80-120	
Selenium	mg/L	0.04	0.039	98	80-120	
Thallium	mg/L	0.04	0.040	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2959973 2959974

Parameter	Units	50298266001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.04	0.04	0.042	0.042	105	104	75-125	1	20	
Arsenic	mg/L	0.0036	0.04	0.04	0.043	0.042	97	96	75-125	1	20	
Barium	mg/L	0.056	0.04	0.04	0.096	0.096	101	100	75-125	0	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2959973 2959974												
Parameter	Units	50298266001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	mg/L	ND	0.04	0.04	0.039	0.038	98	95	75-125	3	20	
Cadmium	mg/L	ND	0.04	0.04	0.037	0.037	92	91	75-125	1	20	
Chromium	mg/L	ND	0.04	0.04	0.042	0.042	103	102	75-125	1	20	
Cobalt	mg/L	ND	0.04	0.04	0.040	0.040	98	97	75-125	1	20	
Lead	mg/L	ND	0.04	0.04	0.041	0.040	102	100	75-125	2	20	
Molybdenum	mg/L	0.016	0.04	0.04	0.056	0.056	101	100	75-125	1	20	
Selenium	mg/L	ND	0.04	0.04	0.039	0.038	96	95	75-125	1	20	
Thallium	mg/L	ND	0.04	0.04	0.041	0.040	101	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	643754	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50298902001, 50298902002, 50298902003, 50298902004, 50298977001, 50298977002, 50298977003, 50298977004, 50299064001, 50299064002		

METHOD BLANK: 2965807

Matrix: Water

Associated Lab Samples: 50298902001, 50298902002, 50298902003, 50298902004, 50298977001, 50298977002, 50298977003, 50298977004, 50299064001, 50299064002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	10/13/21 05:03	
Arsenic	mg/L	ND	0.0010	10/13/21 05:03	
Barium	mg/L	ND	0.0010	10/13/21 05:03	
Beryllium	mg/L	ND	0.00020	10/13/21 05:03	
Cadmium	mg/L	ND	0.00020	10/13/21 05:03	
Chromium	mg/L	ND	0.0020	10/13/21 05:03	
Cobalt	mg/L	ND	0.0010	10/13/21 05:03	
Lead	mg/L	ND	0.0010	10/13/21 05:03	
Molybdenum	mg/L	ND	0.0010	10/13/21 05:03	
Selenium	mg/L	ND	0.0010	10/13/21 05:03	
Thallium	mg/L	ND	0.0010	10/13/21 05:03	

LABORATORY CONTROL SAMPLE: 2965808

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.042	105	80-120	
Arsenic	mg/L	0.04	0.041	103	80-120	
Barium	mg/L	0.04	0.039	97	80-120	
Beryllium	mg/L	0.04	0.039	98	80-120	
Cadmium	mg/L	0.04	0.039	97	80-120	
Chromium	mg/L	0.04	0.041	103	80-120	
Cobalt	mg/L	0.04	0.040	101	80-120	
Lead	mg/L	0.04	0.040	99	80-120	
Molybdenum	mg/L	0.04	0.040	99	80-120	
Selenium	mg/L	0.04	0.042	105	80-120	
Thallium	mg/L	0.04	0.040	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2965809 2965810

Parameter	Units	50299374004		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec				
Antimony	mg/L	ND	0.04	0.04	0.04	0.043	0.042	107	104	75-125	4	20	
Arsenic	mg/L	0.023	0.04	0.04	0.04	0.062	0.062	97	97	75-125	0	20	
Barium	mg/L	0.17	0.04	0.04	0.04	0.21	0.21	98	104	75-125	1	20	
Beryllium	mg/L	ND	0.04	0.04	0.04	0.040	0.040	99	99	75-125	0	20	
Cadmium	mg/L	ND	0.04	0.04	0.04	0.036	0.036	91	90	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
2965809					2965810							
Parameter	Units	50299374004	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike	Spike								
Chromium	mg/L	ND	0.04	0.04	0.039	0.039	97	98	75-125	0	20	
Cobalt	mg/L	ND	0.04	0.04	0.036	0.036	89	90	75-125	1	20	
Lead	mg/L	ND	0.04	0.04	0.039	0.039	97	97	75-125	1	20	
Molybdenum	mg/L	0.0020	0.04	0.04	0.043	0.041	102	98	75-125	3	20	
Selenium	mg/L	ND	0.04	0.04	0.035	0.036	87	89	75-125	2	20	
Thallium	mg/L	ND	0.04	0.04	0.040	0.040	99	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	641100	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50297587001, 50297587002, 50297587003, 50297587004, 50297587005, 50297587006		

METHOD BLANK:	2952851	Matrix:	Water
Associated Lab Samples:	50297587001, 50297587002, 50297587003, 50297587004, 50297587005, 50297587006		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/22/21 08:45	

LABORATORY CONTROL SAMPLE:	2952852					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	281	94	80-120	

SAMPLE DUPLICATE:	2952853					
Parameter	Units	50297557005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	523	537	3	10	

SAMPLE DUPLICATE:	2952854					
Parameter	Units	50297587005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2020	2030	1	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	641102	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50297724001, 50297724002, 50297724003, 50297724004, 50297724005, 50297724006, 50297724007, 50297724008, 50297724009		

METHOD BLANK:	2952858	Matrix:	Water
Associated Lab Samples:	50297724001, 50297724002, 50297724003, 50297724004, 50297724005, 50297724006, 50297724007, 50297724008, 50297724009		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/22/21 09:21	

LABORATORY CONTROL SAMPLE: 2952859						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	278	93	80-120	

SAMPLE DUPLICATE: 2952948						
Parameter	Units	50297745001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	6580	7180	9	10	

SAMPLE DUPLICATE: 2952949						
		50297657007	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Total Dissolved Solids	mg/L	1200	1180	2	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch: 641104

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50297724010, 50297724011

METHOD BLANK: 2952862

Matrix: Water

Associated Lab Samples: 50297724010, 50297724011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/22/21 09:48	

LABORATORY CONTROL SAMPLE: 2952863

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	291	97	80-120	

SAMPLE DUPLICATE: 2952865

Parameter	Units	50297926004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	798	793	1	10	

SAMPLE DUPLICATE: 2952985

Parameter	Units	50297724010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1930	1960	2	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	641568	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50298104001, 50298104002, 50298104003, 50298104004

METHOD BLANK: 2955171 Matrix: Water
Associated Lab Samples: 50298104001, 50298104002, 50298104003, 50298104004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/24/21 11:42	

LABORATORY CONTROL SAMPLE: 2955172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	290	97	80-120	

SAMPLE DUPLICATE: 2955174

Parameter	Units	50298166005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	292	320	9	10	

SAMPLE DUPLICATE: 2955241

Parameter	Units	50298166003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	224	224	0	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	641569	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50298122001, 50298122002, 50298122003, 50298122004, 50298122005		

METHOD BLANK: 2955175 Matrix: Water
Associated Lab Samples: 50298122001, 50298122002, 50298122003, 50298122004, 50298122005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/24/21 11:57	

LABORATORY CONTROL SAMPLE: 2955176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	299	100	80-120	

SAMPLE DUPLICATE: 2955177

Parameter	Units	50298118001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	798	800	0	10	

SAMPLE DUPLICATE: 2955178

Parameter	Units	50298122002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2030	2050	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	642055	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50298266001, 50298266002, 50298266003, 50298266004, 50298266005, 50298266006		

METHOD BLANK:	2957683	Matrix:	Water
Associated Lab Samples:	50298266001, 50298266002, 50298266003, 50298266004, 50298266005, 50298266006		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/28/21 11:12	

LABORATORY CONTROL SAMPLE: 2957684						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	273	91	80-120	

SAMPLE DUPLICATE: 2957685						
Parameter	Units	50298226002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	240	9	10	PK,PP

SAMPLE DUPLICATE: 2957686						
Parameter	Units	50298226005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1140	1150	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	642058	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50298401001, 50298401002, 50298401003, 50298401004

METHOD BLANK: 2957691 Matrix: Water

Associated Lab Samples: 50298401001, 50298401002, 50298401003, 50298401004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/28/21 11:22	

LABORATORY CONTROL SAMPLE: 2957692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	274	91	80-120	

SAMPLE DUPLICATE: 2957693

Parameter	Units	50298327003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	359	363	1	10	

SAMPLE DUPLICATE: 2957694

Parameter	Units	50298372001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	384	386	1	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	642746	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50298717001, 50298717002, 50298717003, 50298717004, 50298717005		

METHOD BLANK: 2961091 Matrix: Water
Associated Lab Samples: 50298717001, 50298717002, 50298717003, 50298717004, 50298717005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10/01/21 09:42	

LABORATORY CONTROL SAMPLE: 2961092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	278	93	80-120	

SAMPLE DUPLICATE: 2961093

Parameter	Units	50298765006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	351	357	2	10	

SAMPLE DUPLICATE: 2961094

Parameter	Units	50298717001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	600	608	1	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	642902	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples: 50298902001, 50298902002, 50298902003, 50298902004			

METHOD BLANK: 2962287 Matrix: Water
Associated Lab Samples: 50298902001, 50298902002, 50298902003, 50298902004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10/02/21 10:12	

LABORATORY CONTROL SAMPLE: 2962288

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	290	97	80-120	

SAMPLE DUPLICATE: 2962289

Parameter	Units	50298973001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10 PL	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	642909	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples: 50298977001, 50298977002, 50298977003, 50298977004			

METHOD BLANK: 2962375 Matrix: Water
Associated Lab Samples: 50298977001, 50298977002, 50298977003, 50298977004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10/02/21 14:35	

LABORATORY CONTROL SAMPLE: 2962376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	271	90	80-120	

SAMPLE DUPLICATE: 2962377

Parameter	Units	50298977001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	506	507	0	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	643410	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50299064001, 50299064002

METHOD BLANK: 2964281 Matrix: Water

Associated Lab Samples: 50299064001, 50299064002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10/06/21 11:05	

LABORATORY CONTROL SAMPLE: 2964282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	280	93	80-120	

SAMPLE DUPLICATE: 2964283

Parameter	Units	50299054001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1040	1000	4	10	

SAMPLE DUPLICATE: 2964284

Parameter	Units	50299064002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	802	804	0	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	640657	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50297587001, 50297587002, 50297587003, 50297587004, 50297587005, 50297587006

SAMPLE DUPLICATE: 2950691

Parameter	Units	50297526002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.3	0	2	H3

SAMPLE DUPLICATE: 2950692

Parameter	Units	50297587005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	0	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	641199	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50297724001, 50297724002, 50297724003, 50297724004, 50297724005, 50297724006, 50297724007, 50297724008, 50297724009, 50297724010, 50297724011		

SAMPLE DUPLICATE: 2953202

Parameter	Units	50297760001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.7	7.7	0	2	H3

SAMPLE DUPLICATE: 2953203

Parameter	Units	50297724006 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.4	0	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	641563	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50298104001, 50298104002, 50298104003, 50298104004, 50298122001, 50298122002, 50298122003, 50298122004, 50298122005		

SAMPLE DUPLICATE: 2955157

Parameter	Units	50297955001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.2	1	2	H3

SAMPLE DUPLICATE: 2955158

Parameter	Units	50298122002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	1	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	642056	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50298266001, 50298266002, 50298266003, 50298266004, 50298266005, 50298266006

SAMPLE DUPLICATE: 2957687

Parameter	Units	50298266001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.3	1	2	H3

SAMPLE DUPLICATE: 2957744

Parameter	Units	50297880008 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.9	8.9	1	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	642057	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50298401001, 50298401002, 50298401003, 50298401004

SAMPLE DUPLICATE: 2957689

Parameter	Units	50298322001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	1	2	H3

SAMPLE DUPLICATE: 2957690

Parameter	Units	50298327003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.3	0	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	642609	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50298717001, 50298717002, 50298717003, 50298717004, 50298717005

SAMPLE DUPLICATE: 2960158

Parameter	Units	50298719003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.9	7.0	1	2	H3

SAMPLE DUPLICATE: 2960159

Parameter	Units	50298717003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.1	0	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

QC Batch:	643669	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50298902001, 50298902002, 50298902003, 50298902004, 50298977001, 50298977002, 50298977003, 50298977004, 50299064001, 50299064002		

SAMPLE DUPLICATE: 2965514

Parameter	Units	50298954001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.4	8.5	1	2	H3

SAMPLE DUPLICATE: 2965515

Parameter	Units	50299018001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.5	2	2	H3

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QUALIFIERS

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	An associated reporting limit verification standard is above technical specification control limits. The element was not detected above the reporting limit.
2d	CRDL recovery at 75.06%. ILP 09/30/21
3d	Pass at 78.96%. ILP 10/06/21
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
F5	The recovery of the analyte in the CRDL standard (also known as the reporting limit verification) did not meet the acceptance criteria.
H3	Sample was received or analysis requested beyond the recognized method holding time.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
PK	Sample volume was decreased because complete filtration was not achieved within the maximum method-specified timeframe.
PL	The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.
PP	The mass of dried residue obtained did not meet the test method requirements based on volume used.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50297587001	GAMW-01-091621	EPA 9056	640991		
50297587002	GAMW-01B-091621	EPA 9056	640991		
50297587003	GAMW-12-091621	EPA 9056	640991		
50297587004	GAMW-12B-091621	EPA 9056	640991		
50297587005	GAMW-18-091621	EPA 9056	640992		
50297587006	FB-01-091621	EPA 9056	640992		
50297724001	GAMW-03-091721	EPA 9056	641158		
50297724002	GAMW-03B-091721	EPA 9056	641158		
50297724003	GAMW-13-091721	EPA 9056	641158		
50297724004	GAMW-13B-091721	EPA 9056	641158		
50297724005	GAMW-14-091721	EPA 9056	641158		
50297724006	GAMW-14B-091721	EPA 9056	641158		
50297724007	GAMW-18B-091721	EPA 9056	641158		
50297724008	GAMW-68-091721	EPA 9056	641158		
50297724009	GAMW-68B-091721	EPA 9056	641158		
50297724010	FD-01-091721	EPA 9056	641158		
50297724011	FB-03-091721	EPA 9056	641158		
50298104001	GAMW-07-092121	EPA 9056	641595		
50298104002	GAMW-16R-092121	EPA 9056	641595		
50298104003	GAMW-16BR-092121	EPA 9056	641595		
50298104004	FD-02-092121	EPA 9056	641595		
50298122001	GAMW-15-092221	EPA 9056	641595		
50298122002	GAMW-15B-092221	EPA 9056	641595		
50298122003	GAMW-17-092221	EPA 9056	641595		
50298122004	GAMW-17B-092221	EPA 9056	641595		
50298122005	FB-02-092221	EPA 9056	641595		
50298266001	GAMW-04-092321	EPA 9056	642111		
50298266002	GAMW-07B-092321	EPA 9056	642111		
50298266003	GAMW-09-092321	EPA 9056	642111		
50298266004	GAMW-09B-092321	EPA 9056	642111		
50298266005	FD-03-092321	EPA 9056	642111		
50298266006	FB-04-092321	EPA 9056	642111		
50298401001	GAMW-08-092421	EPA 9056	642303		
50298401002	GAMW-08B-092421	EPA 9056	642303		
50298401003	GAMW-60-092421	EPA 9056	642303		
50298401004	GAMW-60B-092421	EPA 9056	642303		
50298717001	GAMW-51-092921	EPA 9056	642684		
50298717002	GAMW-51B-092921	EPA 9056	642684		
50298717003	GAMW-59-092921	EPA 9056	642684		
50298717004	GAMW-59B-092921	EPA 9056	642684		
50298717005	FD-04-092921	EPA 9056	642684		
50298902001	GAMW-52-093021	EPA 9056	643429		
50298902002	GAMW-52B-093021	EPA 9056	643429		
50298902003	GAMW-53-093021	EPA 9056	643429		
50298902004	GAMW-53B-093021	EPA 9056	643429		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment Sept 21

Pace Project No.: 50297587

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50298977001	GAMW-54-100121	EPA 9056	644075		
50298977002	GAMW-54B-100121	EPA 9056	644075		
50298977003	GAMW-55R-100121	EPA 9056	644075		
50298977004	GAMW-55B-100121	EPA 9056	644075		
50299064001	GAMW-56-100421	EPA 9056	644075		
50299064002	GAMW-56B-100421	EPA 9056	644075		
50297587001	GAMW-01-091621	EPA 3010	640779	EPA 6010	642537
50297587002	GAMW-01B-091621	EPA 3010	640779	EPA 6010	642537
50297587003	GAMW-12-091621	EPA 3010	640779	EPA 6010	642537
50297587004	GAMW-12B-091621	EPA 3010	640779	EPA 6010	642537
50297587005	GAMW-18-091621	EPA 3010	640779	EPA 6010	642537
50297587006	FB-01-091621	EPA 3010	640779	EPA 6010	642537
50297724001	GAMW-03-091721	EPA 3010	641063	EPA 6010	642728
50297724002	GAMW-03B-091721	EPA 3010	641063	EPA 6010	642728
50297724003	GAMW-13-091721	EPA 3010	641063	EPA 6010	642728
50297724004	GAMW-13B-091721	EPA 3010	641063	EPA 6010	642728
50297724005	GAMW-14-091721	EPA 3010	641063	EPA 6010	642728
50297724006	GAMW-14B-091721	EPA 3010	641063	EPA 6010	642728
50297724007	GAMW-18B-091721	EPA 3010	641063	EPA 6010	642728
50297724008	GAMW-68-091721	EPA 3010	641063	EPA 6010	642728
50297724009	GAMW-68B-091721	EPA 3010	641063	EPA 6010	642728
50297724010	FD-01-091721	EPA 3010	641063	EPA 6010	642728
50297724011	FB-03-091721	EPA 3010	641063	EPA 6010	642728
50298104001	GAMW-07-092121	EPA 3010	641524	EPA 6010	643234
50298104002	GAMW-16R-092121	EPA 3010	641524	EPA 6010	643234
50298104003	GAMW-16BR-092121	EPA 3010	641524	EPA 6010	643234
50298104004	FD-02-092121	EPA 3010	641524	EPA 6010	643234
50298122001	GAMW-15-092221	EPA 3010	641524	EPA 6010	643234
50298122002	GAMW-15B-092221	EPA 3010	641524	EPA 6010	643234
50298122003	GAMW-17-092221	EPA 3010	641524	EPA 6010	643234
50298122004	GAMW-17B-092221	EPA 3010	641524	EPA 6010	643234
50298122005	FB-02-092221	EPA 3010	641524	EPA 6010	643234
50298266001	GAMW-04-092321	EPA 3010	642259	EPA 6010	643682
50298266002	GAMW-07B-092321	EPA 3010	642259	EPA 6010	643682
50298266003	GAMW-09-092321	EPA 3010	642259	EPA 6010	643682
50298266004	GAMW-09B-092321	EPA 3010	642259	EPA 6010	643682
50298266005	FD-03-092321	EPA 3010	642259	EPA 6010	643682
50298266006	FB-04-092321	EPA 3010	642259	EPA 6010	643682
50298401001	GAMW-08-092421	EPA 3010	642471	EPA 6010	643231
50298401002	GAMW-08B-092421	EPA 3010	642471	EPA 6010	643231
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50298401004	GAMW-60B-092421	EPA 3010	642471	EPA 6010	643231
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50298717002	GAMW-51B-092921	EPA 3010	642709	EPA 6010	644595
50298717003	GAMW-59-092921	EPA 3010	642709	EPA 6010	644595
50298717004	GAMW-59B-092921	EPA 3010	642709	EPA 6010	644595

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50298717005	FD-04-092921	EPA 3010	642709	EPA 6010	644595
50298902001	GAMW-52-093021	EPA 3010	643500	EPA 6010	644826
50298902002	GAMW-52B-093021	EPA 3010	643500	EPA 6010	644826
50298902003	GAMW-53-093021	EPA 3010	643500	EPA 6010	644826
50298902004	GAMW-53B-093021	EPA 3010	643500	EPA 6010	644826
50298977001	GAMW-54-100121	EPA 3010	643500	EPA 6010	644826
50298977002	GAMW-54B-100121	EPA 3010	643500	EPA 6010	644826
50298977003	GAMW-55R-100121	EPA 3010	643500	EPA 6010	644826
50298977004	GAMW-55B-100121	EPA 3010	643500	EPA 6010	644826
50299064001	GAMW-56-100421	EPA 3010	643537	EPA 6010	643627
50299064002	GAMW-56B-100421	EPA 3010	643537	EPA 6010	643627
50297587001	GAMW-01-091621	EPA 200.2	641183	EPA 6020	641519
50297587002	GAMW-01B-091621	EPA 200.2	641183	EPA 6020	641519
50297587003	GAMW-12-091621	EPA 200.2	641183	EPA 6020	641519
50297587004	GAMW-12B-091621	EPA 200.2	641183	EPA 6020	641519
50297587005	GAMW-18-091621	EPA 200.2	641183	EPA 6020	641519
50297587006	FB-01-091621	EPA 200.2	641183	EPA 6020	641519
50297724001	GAMW-03-091721	EPA 200.2	641915	EPA 6020	642268
50297724002	GAMW-03B-091721	EPA 200.2	641915	EPA 6020	642268
50297724003	GAMW-13-091721	EPA 200.2	641915	EPA 6020	642268
50297724004	GAMW-13B-091721	EPA 200.2	641915	EPA 6020	642268
50297724005	GAMW-14-091721	EPA 200.2	641915	EPA 6020	642268
50297724006	GAMW-14B-091721	EPA 200.2	641915	EPA 6020	642268
50297724007	GAMW-18B-091721	EPA 200.2	641915	EPA 6020	642268
50297724008	GAMW-68-091721	EPA 200.2	641915	EPA 6020	642268
50297724009	GAMW-68B-091721	EPA 200.2	641915	EPA 6020	642268
50297724010	FD-01-091721	EPA 200.2	641915	EPA 6020	642268
50297724011	FB-03-091721	EPA 200.2	641915	EPA 6020	642268
50298104001	GAMW-07-092121	EPA 200.2	641915	EPA 6020	642268
50298104002	GAMW-16R-092121	EPA 200.2	641915	EPA 6020	642268
50298104003	GAMW-16BR-092121	EPA 200.2	641915	EPA 6020	642268
50298104004	FD-02-092121	EPA 200.2	641915	EPA 6020	642268
50298122001	GAMW-15-092221	EPA 200.2	641915	EPA 6020	642268
50298122002	GAMW-15B-092221	EPA 200.2	641915	EPA 6020	642268
50298122003	GAMW-17-092221	EPA 200.2	641915	EPA 6020	642268
50298122004	GAMW-17B-092221	EPA 200.2	641915	EPA 6020	642268
50298122005	FB-02-092221	EPA 200.2	641915	EPA 6020	642268
50298266001	GAMW-04-092321	EPA 200.2	642574	EPA 6020	642823
50298266002	GAMW-07B-092321	EPA 200.2	642574	EPA 6020	642823
50298266003	GAMW-09-092321	EPA 200.2	642574	EPA 6020	642823
50298266004	GAMW-09B-092321	EPA 200.2	642574	EPA 6020	642823
50298266005	FD-03-092321	EPA 200.2	642574	EPA 6020	642823
50298266006	FB-04-092321	EPA 200.2	642574	EPA 6020	642823
50298401001	GAMW-08-092421	EPA 200.2	642574	EPA 6020	642823
50298401002	GAMW-08B-092421	EPA 200.2	642574	EPA 6020	642823
50298401003	GAMW-60-092421	EPA 200.2	642574	EPA 6020	642823

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50298401004	GAMW-60B-092421	EPA 200.2	642574	EPA 6020	642823
50298717001	GAMW-51-092921	EPA 200.2	642574	EPA 6020	642823
50298717002	GAMW-51B-092921	EPA 200.2	642574	EPA 6020	642823
50298717003	GAMW-59-092921	EPA 200.2	642574	EPA 6020	642823
50298717004	GAMW-59B-092921	EPA 200.2	642574	EPA 6020	642823
50298717005	FD-04-092921	EPA 200.2	642574	EPA 6020	642823
50298902001	GAMW-52-093021	EPA 200.2	643754	EPA 6020	643978
50298902002	GAMW-52B-093021	EPA 200.2	643754	EPA 6020	643978
50298902003	GAMW-53-093021	EPA 200.2	643754	EPA 6020	643978
50298902004	GAMW-53B-093021	EPA 200.2	643754	EPA 6020	643978
50298977001	GAMW-54-100121	EPA 200.2	643754	EPA 6020	643978
50298977002	GAMW-54B-100121	EPA 200.2	643754	EPA 6020	643978
50298977003	GAMW-55R-100121	EPA 200.2	643754	EPA 6020	643978
50298977004	GAMW-55B-100121	EPA 200.2	643754	EPA 6020	643978
50299064001	GAMW-56-100421	EPA 200.2	643754	EPA 6020	643978
50299064002	GAMW-56B-100421	EPA 200.2	643754	EPA 6020	643978
50297587001	GAMW-01-091621	EPA 7470	642247	EPA 7470	642481
50297587002	GAMW-01B-091621	EPA 7470	642247	EPA 7470	642481
50297587003	GAMW-12-091621	EPA 7470	642247	EPA 7470	642481
50297587004	GAMW-12B-091621	EPA 7470	642247	EPA 7470	642481
50297587005	GAMW-18-091621	EPA 7470	642247	EPA 7470	642481
50297587006	FB-01-091621	EPA 7470	642247	EPA 7470	642481
50297724001	GAMW-03-091721	EPA 7470	642251	EPA 7470	642509
50297724002	GAMW-03B-091721	EPA 7470	642251	EPA 7470	642509
50297724003	GAMW-13-091721	EPA 7470	642251	EPA 7470	642509
50297724004	GAMW-13B-091721	EPA 7470	642251	EPA 7470	642509
50297724005	GAMW-14-091721	EPA 7470	642251	EPA 7470	642509
50297724006	GAMW-14B-091721	EPA 7470	642251	EPA 7470	642509
50297724007	GAMW-18B-091721	EPA 7470	642251	EPA 7470	642509
50297724008	GAMW-68-091721	EPA 7470	642251	EPA 7470	642509
50297724009	GAMW-68B-091721	EPA 7470	642251	EPA 7470	642509
50297724010	FD-01-091721	EPA 7470	642251	EPA 7470	642509
50297724011	FB-03-091721	EPA 7470	642251	EPA 7470	642509
50298104001	GAMW-07-092121	EPA 7470	642249	EPA 7470	642482
50298104002	GAMW-16R-092121	EPA 7470	642249	EPA 7470	642482
50298104003	GAMW-16BR-092121	EPA 7470	642249	EPA 7470	642482
50298104004	FD-02-092121	EPA 7470	642249	EPA 7470	642482
50298122001	GAMW-15-092221	EPA 7470	642480	EPA 7470	643375
50298122002	GAMW-15B-092221	EPA 7470	642480	EPA 7470	643375
50298122003	GAMW-17-092221	EPA 7470	642480	EPA 7470	643375
50298122004	GAMW-17B-092221	EPA 7470	642480	EPA 7470	643375
50298122005	FB-02-092221	EPA 7470	642480	EPA 7470	643375
50298266001	GAMW-04-092321	EPA 7470	642586	EPA 7470	643637
50298266002	GAMW-07B-092321	EPA 7470	642586	EPA 7470	643637
50298266003	GAMW-09-092321	EPA 7470	642586	EPA 7470	643637
50298266004	GAMW-09B-092321	EPA 7470	642586	EPA 7470	643637

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50298266005	FD-03-092321	EPA 7470	642586	EPA 7470	643637
50298266006	FB-04-092321	EPA 7470	642586	EPA 7470	643637
50298401001	GAMW-08-092421	EPA 7470	642791	EPA 7470	643378
50298401002	GAMW-08B-092421	EPA 7470	642791	EPA 7470	643378
50298401003	GAMW-60-092421	EPA 7470	642791	EPA 7470	643378
50298401004	GAMW-60B-092421	EPA 7470	642791	EPA 7470	643378
50298717001	GAMW-51-092921	EPA 7470	643729	EPA 7470	644246
50298717002	GAMW-51B-092921	EPA 7470	643729	EPA 7470	644246
50298717003	GAMW-59-092921	EPA 7470	643729	EPA 7470	644246
50298717004	GAMW-59B-092921	EPA 7470	643729	EPA 7470	644246
50298717005	FD-04-092921	EPA 7470	643729	EPA 7470	644246
50298902001	GAMW-52-093021	EPA 7470	643729	EPA 7470	644246
50298902002	GAMW-52B-093021	EPA 7470	643729	EPA 7470	644246
50298902003	GAMW-53-093021	EPA 7470	643729	EPA 7470	644246
50298902004	GAMW-53B-093021	EPA 7470	643729	EPA 7470	644246
50298977001	GAMW-54-100121	EPA 7470	643729	EPA 7470	644246
50298977002	GAMW-54B-100121	EPA 7470	643729	EPA 7470	644246
50298977003	GAMW-55R-100121	EPA 7470	643729	EPA 7470	644246
50298977004	GAMW-55B-100121	EPA 7470	643729	EPA 7470	644246
50299064001	GAMW-56-100421	EPA 7470	643729	EPA 7470	644246
50299064002	GAMW-56B-100421	EPA 7470	643729	EPA 7470	644246
50297587001	GAMW-01-091621	SM 2540C	641100		
50297587002	GAMW-01B-091621	SM 2540C	641100		
50297587003	GAMW-12-091621	SM 2540C	641100		
50297587004	GAMW-12B-091621	SM 2540C	641100		
50297587005	GAMW-18-091621	SM 2540C	641100		
50297587006	FB-01-091621	SM 2540C	641100		
50297724001	GAMW-03-091721	SM 2540C	641102		
50297724002	GAMW-03B-091721	SM 2540C	641102		
50297724003	GAMW-13-091721	SM 2540C	641102		
50297724004	GAMW-13B-091721	SM 2540C	641102		
50297724005	GAMW-14-091721	SM 2540C	641102		
50297724006	GAMW-14B-091721	SM 2540C	641102		
50297724007	GAMW-18B-091721	SM 2540C	641102		
50297724008	GAMW-68-091721	SM 2540C	641102		
50297724009	GAMW-68B-091721	SM 2540C	641102		
50297724010	FD-01-091721	SM 2540C	641104		
50297724011	FB-03-091721	SM 2540C	641104		
50298104001	GAMW-07-092121	SM 2540C	641568		
50298104002	GAMW-16R-092121	SM 2540C	641568		
50298104003	GAMW-16BR-092121	SM 2540C	641568		
50298104004	FD-02-092121	SM 2540C	641568		
50298122001	GAMW-15-092221	SM 2540C	641569		
50298122002	GAMW-15B-092221	SM 2540C	641569		
50298122003	GAMW-17-092221	SM 2540C	641569		

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50298122004	GAMW-17B-092221	SM 2540C	641569		
50298122005	FB-02-092221	SM 2540C	641569		
50298266001	GAMW-04-092321	SM 2540C	642055		
50298266002	GAMW-07B-092321	SM 2540C	642055		
50298266003	GAMW-09-092321	SM 2540C	642055		
50298266004	GAMW-09B-092321	SM 2540C	642055		
50298266005	FD-03-092321	SM 2540C	642055		
50298266006	FB-04-092321	SM 2540C	642055		
50298401001	GAMW-08-092421	SM 2540C	642058		
50298401002	GAMW-08B-092421	SM 2540C	642058		
50298401003	GAMW-60-092421	SM 2540C	642058		
50298401004	GAMW-60B-092421	SM 2540C	642058		
50298717001	GAMW-51-092921	SM 2540C	642746		
50298717002	GAMW-51B-092921	SM 2540C	642746		
50298717003	GAMW-59-092921	SM 2540C	642746		
50298717004	GAMW-59B-092921	SM 2540C	642746		
50298717005	FD-04-092921	SM 2540C	642746		
50298902001	GAMW-52-093021	SM 2540C	642902		
50298902002	GAMW-52B-093021	SM 2540C	642902		
50298902003	GAMW-53-093021	SM 2540C	642902		
50298902004	GAMW-53B-093021	SM 2540C	642902		
50298977001	GAMW-54-100121	SM 2540C	642909		
50298977002	GAMW-54B-100121	SM 2540C	642909		
50298977003	GAMW-55R-100121	SM 2540C	642909		
50298977004	GAMW-55B-100121	SM 2540C	642909		
50299064001	GAMW-56-100421	SM 2540C	643410		
50299064002	GAMW-56B-100421	SM 2540C	643410		
50297587001	GAMW-01-091621	SM 4500-H+B	640657		
50297587002	GAMW-01B-091621	SM 4500-H+B	640657		
50297587003	GAMW-12-091621	SM 4500-H+B	640657		
50297587004	GAMW-12B-091621	SM 4500-H+B	640657		
50297587005	GAMW-18-091621	SM 4500-H+B	640657		
50297587006	FB-01-091621	SM 4500-H+B	640657		
50297724001	GAMW-03-091721	SM 4500-H+B	641199		
50297724002	GAMW-03B-091721	SM 4500-H+B	641199		
50297724003	GAMW-13-091721	SM 4500-H+B	641199		
50297724004	GAMW-13B-091721	SM 4500-H+B	641199		
50297724005	GAMW-14-091721	SM 4500-H+B	641199		
50297724006	GAMW-14B-091721	SM 4500-H+B	641199		
50297724007	GAMW-18B-091721	SM 4500-H+B	641199		
50297724008	GAMW-68-091721	SM 4500-H+B	641199		
50297724009	GAMW-68B-091721	SM 4500-H+B	641199		
50297724010	FD-01-091721	SM 4500-H+B	641199		
50297724011	FB-03-091721	SM 4500-H+B	641199		

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50298104001	GAMW-07-092121	SM 4500-H+B	641563		
50298104002	GAMW-16R-092121	SM 4500-H+B	641563		
50298104003	GAMW-16BR-092121	SM 4500-H+B	641563		
50298104004	FD-02-092121	SM 4500-H+B	641563		
50298122001	GAMW-15-092221	SM 4500-H+B	641563		
50298122002	GAMW-15B-092221	SM 4500-H+B	641563		
50298122003	GAMW-17-092221	SM 4500-H+B	641563		
50298122004	GAMW-17B-092221	SM 4500-H+B	641563		
50298122005	FB-02-092221	SM 4500-H+B	641563		
50298266001	GAMW-04-092321	SM 4500-H+B	642056		
50298266002	GAMW-07B-092321	SM 4500-H+B	642056		
50298266003	GAMW-09-092321	SM 4500-H+B	642056		
50298266004	GAMW-09B-092321	SM 4500-H+B	642056		
50298266005	FD-03-092321	SM 4500-H+B	642056		
50298266006	FB-04-092321	SM 4500-H+B	642056		
50298401001	GAMW-08-092421	SM 4500-H+B	642057		
50298401002	GAMW-08B-092421	SM 4500-H+B	642057		
50298401003	GAMW-60-092421	SM 4500-H+B	642057		
50298401004	GAMW-60B-092421	SM 4500-H+B	642057		
50298717001	GAMW-51-092921	SM 4500-H+B	642609		
50298717002	GAMW-51B-092921	SM 4500-H+B	642609		
50298717003	GAMW-59-092921	SM 4500-H+B	642609		
50298717004	GAMW-59B-092921	SM 4500-H+B	642609		
50298717005	FD-04-092921	SM 4500-H+B	642609		
50298902001	GAMW-52-093021	SM 4500-H+B	643669		
50298902002	GAMW-52B-093021	SM 4500-H+B	643669		
50298902003	GAMW-53-093021	SM 4500-H+B	643669		
50298902004	GAMW-53B-093021	SM 4500-H+B	643669		
50298977001	GAMW-54-100121	SM 4500-H+B	643669		
50298977002	GAMW-54B-100121	SM 4500-H+B	643669		
50298977003	GAMW-55R-100121	SM 4500-H+B	643669		
50298977004	GAMW-55B-100121	SM 4500-H+B	643669		
50299064001	GAMW-56-100421	SM 4500-H+B	643669		
50299064002	GAMW-56B-100421	SM 4500-H+B	643669		

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents:

MR 2/17/21 0930
1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER _____2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)3. Thermometer: 1 2 3 4 5 6 A B C D E F4. Cooler Temperature: 0.7/0.7 0.7/0.5
Temp should be above freezing to 6°C (Initial/Corrected)5. Packing Material: ☐ Bubble Wrap ☐ Bubble Bags☒ None ☐ Other _____6. Ice Type: ☒ Wet ☐ Blue ☐ None7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis:		☒	Circle: HNO ₃ (>2) H ₂ SO ₄ (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	☒		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			<u>Present</u>	<u>Absent</u>	<u>N/A</u>
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			<u>—</u>
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Custody Signatures Present?	☒		Headspace Wisconsin Sulfide?			☒
	☒		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Containers Intact?:	☒					☒
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Trip Blank Present?		☒	
Extra labels on Terracore Vials? (soils only)		☒	Trip Blank Custody Seals?:		☒	

COMMENTS:

SBS

DI

MeOH
(only)

BK

Kit

** Place a RED dot on containers
that are out of conformance **

COC Line Item	WGUFU	R	DG9H VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit		Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZnAc pH >9	NaOH pH>10
1																	1	1	1								4	✓		
2																	1	1	1								4	✓		
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																	1	1	1								3	✓		

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass
GN	General	AG3C	250mL NaOH amber glass

Plastic / Misc.

BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
Syringe Kit	LL Cr+6 sampling kit
AF	Air Filter
C	Air Cassettes
R	Terracore kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag
WT	Water
SL	Solid
NAL	OL Non-aqueous liquid
WP	Oil Wipe

Sample Container Count

SBS

DI

MeOH

(only)

BK

Kit

** Place a RED dot on containers
that are out of conformance **

COC Line Item	WGFU	R	DG9H VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit		Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZNAc pH >9	NaOH pH>10
1																	1	1	1							4	✓			
2																														
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4																														
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9																														
10																														
11																														
12																	3	3	3							4	✓			

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass
GN	General	AG3C	250mL NaOH amber glass

Plastic / Misc.

BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
Syringe Kit	LL Cr+6 sampling kit
AF	Air Filter
C	Air Cassettes
R	Terracore kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag
WT	Water
SL	Solid
NAL	OL Non-aqueous liquid
WP	Oil Wipe

SBS

DI

MeOH
(only)

BK

Kit

** Place a RED dot on containers
that are out of conformance **

COC Line Item	WGFU	R	DG9H VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit		Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZNAc pH >9	NaOH pH >10
1																														
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9																														
10																														
11																														
12																														

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass
GN	General	AG3C	250mL NaOH amber glass

Plastic / Misc.

BP4U	125mL unpreserved plastic			
BP4N	125mL HNO3 plastic			
BP4S	125mL H2SO4 plastic			
Syringe Kit	LL Cr+6 sampling kit			
AF	Air Filter			
C	Air Cassettes			
R	Terracore kit			
SP5T	120mL Coliform Na Thiosulfate			
U	Summa Can			
ZPLC	Ziploc Bag			
WT	Water			
SL	Solid			
NAL	OL	Non-aqueous liquid	Oil	Page
WP	Wipe			



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents:

BF 09/21 1300

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: 1.7°C/1.7°C; 1.0°C/1.0°C; 0.1°C/0.1°C

Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☐ Bubble Wrap ☐ Bubble Bags

☒ None

☐ Other

6. Ice Type: ☒ Wet ☐ Blue ☐ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	☒		
Short Hold Time Analysis (48 hours or less)? Analysis:		☒	Circle: BF 09/21 HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			☒
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Custody Signatures Present?	☒		Headspace Wisconsin Sulfide?			☒
Containers Intact?:	☒		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Trip Blank Present?		☒	
Extra labels on Terracore Vials? (soils only)		☒	Trip Blank Custody Seals?:			☒

COMMENTS:

Sample Container Count

SBS

DI

MeOH
(only)

BK

Kit

** Place a RED dot on containers
that are out of conformance **

COC Line Item	WGFI	R	DG9H VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit	Matrix			
																										HNO3/ H2SO4 pH <2	NaOH/ ZNAc pH >9	NaOH pH>10	
1																											WT	✓	
2																											WT	✓	
3																		—	—	—									
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8																													
9																													
10																													
11																													
12																													

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass
GN	General	AG3C	250mL NaOH amber glass

Plastic / Misc.

BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Syringe Kit	LL Cr+6 sampling kit

AF	Air Filter
C	Air Cassettes
R	Terracore kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

WT	Water		
SL	Solid		
NAL	OL	Non-aqueous liquid	Oil
WP	Wipe		

Sample Container Count

SBS

DI

MeOH
(only)

BK

Kit

** Place a RED dot on containers
that are out of conformance **

COC Line Item	WGFI	R	DG9H VG9H	VOA VIAL HS (≥8mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit			Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZNAc pH >9	NaOH pH>10	
1																													Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZNAc pH >9	NaOH pH>10
2																																
3																																
4																																
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10																																
11																																
12																																

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass
GN	General	AG3C	250mL NaOH amber glass

Plastic / Misc.

BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Syringe Kit LL Cr+6 sampling kit

AF	Air Filter
C	Air Cassettes
R	Terracore kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

WT	Water
SL	Solid
NAL	OL Non-aqueous liquid
WP	Oil
	Wipe

Sample Container Count

SBS

DI

MeOH
(only)

BK

Kit

** Place a RED dot on containers
that are out of conformance **

COC Line Item	WGFU	R	DG9H VG9H	VOA VIAL HS (≥9mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit	Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZNAc pH >9	NaOH pH>10
1																										WT	✓		
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass
GN	General	AG3C	250mL NaOH amber glass

Plastic / Misc.

BP4U	125mL unpreserved plastic		
BP4N	125mL HNO3 plastic		
BP4S	125mL H2SO4 plastic		
Syringe Kit			
LL Cr+6 sampling kit			
AF	Air Filter		
C	Air Cassettes		
R	Terracore kit		
SP5T	120mL Coliform Na Thiosulfate		
U	Summa Can		
ZPLC	Ziploc Bag		
WT	Water		
SL	Solid		
NAL	OL	Non-aqueous liquid	Oil
WP	Wipe	Pa	

Sample Container Count

SBS
DI
MeOH
(only)
BK
Kit

** Place a RED dot on containers
that are out of conformance **

COC Line Item	WGFU	R	DG9H VG9H	VOA VIAL HS (≥8mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit			Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZNAc pH >9	NaOH pH>10
1																															
2																															
3																															
4																															
5																															
6																	↓	↓	↓									WT	↓	↓	↓
7																	↓	↓	↓												
8																	↓	↓	↓												
9																															
10																															
11																															
12																															

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass
GN	General	AG3C	250mL NaOH amber glass

Plastic / Misc.

BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
Syringe Kit	LL Cr+6 sampling kit
AF	Air Filter
C	Air Cassettes
R	Terracore kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag
WT	Water
SL	Solid
NAL	OL Non-aqueous liquid
WP	Oil Wipe

Sample Container Count

SBS

DI

MeOH

(only)

BK

Kit

** Place a RED dot on containers

that are out of conformance **

COC Line Item	WGUFU	R	DG9H VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit		Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZNAc pH >9	NaOH pH>10
1																														
2																	1	1	1									Σ	✓	
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Container Codes

Glass

DG9H	40mL HCl amber vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGUFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass
GN	General	AG3C	250mL NaOH amber glass

Plastic / Misc.

BP4U	125mL unpreserved plastic		
BP4N	125mL HNO3 plastic		
BP4S	125mL H2SO4 plastic		
Syringe Kit	LL Cr+6 sampling kit		
AF	Air Filter		
C	Air Cassettes		
R	Terracore kit		
SP5T	120mL Coliform Na Thiosulfate		
U	Summa Can		
ZPLC	Ziploc Bag		
WT	Water		
SL	Solid		
NAL	OL	Non-aqueous liquid	Oil
WP	Wipe		



Pace Analytical
WWW.PACELABS.COM



50298104

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Required Client Information

Company: NiSource Golder

Address: 801 E. 86th Avenue

Merrillville, IN 46410

Email: jim_peace@golder.com

Phone:	Fax:

Requested Due Date:

Report To: Jim Peace

Copy To: krysta_cione@golder.com,

danielle sylvia@golder.com

Purchase Order #: PO12747

Project Name: RMSGS Assessment Sept 21

Project #:

Section C

Invoice Information:

Attention: Jeff Loewe U126177

Company Name: NIPSCO

Address:

Pace Quote:

Pace Project Manager: tina.sayer@pacelabs.com.

Pace Profile #: 9045-1

Page : Of

Requested Due Date:		Requester:		Requester Phone:		Requester Email:		Requested Analysis Filtered (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		Analyses Test	Total metals **	Cl, F, SO4 by 9056	pH	TDS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER

DATE Signed: _____

TEMP in C

Received on

(Y/N)	Custody

Sealed
Cooler

	(Y/N)
1. The company's financial performance is strong.	
2. The company's financial performance is weak.	
3. The company's financial performance is stable.	
4. The company's financial performance is volatile.	
5. The company's financial performance is consistent.	
6. The company's financial performance is inconsistent.	
7. The company's financial performance is predictable.	
8. The company's financial performance is unpredictable.	
9. The company's financial performance is reliable.	
10. The company's financial performance is unreliable.	
11. The company's financial performance is secure.	
12. The company's financial performance is insecure.	
13. The company's financial performance is safe.	
14. The company's financial performance is unsafe.	
15. The company's financial performance is sound.	
16. The company's financial performance is unsound.	
17. The company's financial performance is solid.	
18. The company's financial performance is unsolid.	
19. The company's financial performance is sturdy.	
20. The company's financial performance is unsturdy.	
21. The company's financial performance is strong.	
22. The company's financial performance is weak.	
23. The company's financial performance is stable.	
24. The company's financial performance is volatile.	
25. The company's financial performance is consistent.	
26. The company's financial performance is inconsistent.	
27. The company's financial performance is predictable.	
28. The company's financial performance is unpredictable.	
29. The company's financial performance is reliable.	
30. The company's financial performance is unreliable.	
31. The company's financial performance is secure.	
32. The company's financial performance is insecure.	
33. The company's financial performance is safe.	
34. The company's financial performance is unsafe.	
35. The company's financial performance is sound.	
36. The company's financial performance is unsound.	
37. The company's financial performance is solid.	
38. The company's financial performance is unsolid.	
39. The company's financial performance is sturdy.	
40. The company's financial performance is unsturdy.	

Samples
contact (Y/N)

Page 167 of 205



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents:

09/23/21 1210 SML

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: 0-4/10.4

Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☐ Bubble Wrap ☐ Bubble Bags

☒ None

☐ Other

6. Ice Type: ☒ Wet ☐ Blue ☐ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis:		/	Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	/		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			/
Rush TAT Requested (4 days or less):		/	Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
Custody Signatures Present?	/		Headspace Wisconsin Sulfide?			/
	/		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Containers Intact?:	/					/
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		Trip Blank Present?		/	
Extra labels on Terracore Vials? (soils only)		/	Trip Blank Custody Seals?:			/

COMMENTS:

Sample Container Count

SBS

DI

MeOH
(only)

BK

Kit

** Place a RED dot on containers
that are out of conformance **

COC Line Item	WGFL	R	DG9H VG9H	VOA MAL HS (≥6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit			Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZNAc pH >9	NaOH pH>10
1																															
2																															
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4																															
5																															
6																		1	1	1										W	✓
7																															
8																															
9																															
10																															
11																															
12																															

Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Syringe Kit LL Cr+6 sampling kit	
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	C	Air Cassettes
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	R	Terracore kit
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	SP5T	120mL Coliform Na Thiosulfate
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	U	Summa Can
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	ZPLC	Ziploc Bag
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	WT	Water
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	NAL	OL Non-aqueous liquid Oil
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	WP	Wipe
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic		
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic		

Sample Container Count

SBS

DI

MeOH
(only)

BK

Kit

** Place a RED dot on containers
that are out of conformance **

COC Line Item	WGUF	R	DG9H VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit		Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZNAc pH >9	NaOH pH>10
1																														
2																														
3																														
4																														
5																														
6																														
7																														
8																	↓	↓	↓								✓	✓		
9																	↓	↓	↓								✓	✓		
10																														
11																														
12																														

Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Syringe Kit LL Cr+6 sampling kit	
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	C	Air Cassettes
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	R	Terracore kit
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	SP5T	120mL Coliform Na Thiosulfate
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	U	Summa Can
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	ZPLC	Ziploc Bag
WGUF	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	WT	Water
JGUF	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	NAL	Non-aqueous liquid Oil
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	WP	Wipe
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic		
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic		

Sample Container Count

SBS
DI
MeOH
(only)
BK
Kit

** Place a RED dot on containers
that are out of conformance **

COC Line Item	WGFL	R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit		Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZNAc pH >9	NaOH pH>10
1																														
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6																														
7																														
8																														
9																		1	1	1							47	✓		
10																														
11																														
12																														

Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic		
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	Syringe Kit	LL Cr+6 sampling kit
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	AF	Air Filter
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	C	Air Cassettes
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	R	Terracore kit
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	SP5T	120mL Coliform Na Thiosulfate
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
WGUF	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	ZPLC	Ziploc Bag
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic		
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered		
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	WT	Water
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic	SL	Solid
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic	NAL	OL Non-aqueous liquid Oil
						WP	Wipe



CHAIN-OF-CUSTODY / Analytical Re
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant

W0# : 50298122



50298122

Section A

Required Client Information:

Company: NiSource Golder
Address: 801 E 86th Avenue
Merrillville, IN 46410
Email: jim.peace@golder.com
Phone: (603)782-2433 Fax:
Requested Due Date:

Section B

Required Project Information:

Report To: Jim Peace
Copy To: Krysta Clone, Danielle Sylvia
Purchase Order #: PO12747
Project Name: RMSGS Assessment Sept 21
Project #: 19121567

Section C

Invoice Information:

Attention: Jeff Loewe U126177
Company Name: NIPSCO
Address:
Pace Quote:
Pace Project Manager: tina.sayer@pacelabs.com
Pace Profile #: 9045-1

Regulatory Agency

State / Location

IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		Analyses Test	Total metals **	Cl, F, SO4 by 9056	pH	TDS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**B,Ca,Li by 6010; Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020 Hg by 7470	Jim Peace / Golder Fedex	9/22/21	1030	Jeff Loewe / NIPSCO JC	9/23/21	1410	2.0	4	4	1
							1.3			

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Colder (Y/N)	Samples Initialed (Y/N)
PRINT Name of SAMPLER:	DANZAN					
SIGNATURE of SAMPLER:	[Signature]					
	DATE Signed: 9/22/21					



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents:

JC [Signature] 9/23/21 1235

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: #1 (2.0/2.0), #2 (1.3/1.3)
Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☒ Bubble Wrap ☐ Bubble Bags

☐ None ☐ Other

6. Ice Type: ☒ Wet ☐ Blue ☐ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	☒		
Short Hold Time Analysis (48 hours or less)? Analysis:		☒	Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	☒		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			☒
Custody Signatures Present?	☒		Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Containers Intact?:	☒		Headspace Wisconsin Sulfide?	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Headspace in VOA Vials (>6mm): See Container Count form for details		☒	
Extra labels on Terracore Vials? (soils only)			Trip Blank Present?			☒
			Trip Blank Custody Seals?:			

COMMENTS:

SBS

DI

MeOH
(only)

BK

Kit

** Place a RED dot on containers
that are out of conformance **

COC Line Item	WGUFU	R	DG9H VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit			Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZNAc pH >9	NaOH pH>10
1																															
2																															
3																															
4																															
5																															
6																	1	1	1								WT				
7																	3	3	3								WT				
8																															
9																															
10																	1	1	1								WT				
11																	1	1	1								WT				
12																															

Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Syringe Kit LL Cr+6 sampling kit	
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	C	Air Cassettes
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	R	Terracore kit
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	SP5T	120mL Coliform Na Thiosulfate
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	U	Summa Can
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	ZPLC	Ziploc Bag
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	WT	Water
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	NAL	Non-aqueous liquid
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	OL	Oil
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic	WP	Wipe
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic		

Sample Container Count

SBS

DI

MeOH
(only)

BK

Kit

** Place a RED dot on containers
that are out of conformance **

COC Line Item	WGFU	R	DG9H VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit		Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZNAc pH >9	NaOH pH>10
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Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic		
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	Syringe Kit LL Cr+6 sampling kit	
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic		
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic		
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic		
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic		
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac		
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic		
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic		
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered		
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic		
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic		
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic		



Pace Associates
www.pacefl.com



The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : Of

IN

Page 178 of 205

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DMP 9/24/21 11:39

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER _____

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: 0.3/0.3°C; 0.5/0.5°C
Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☒ Bubble Wrap ☐ Bubble Bags

☐ None ☐ Other _____

6. Ice Type: ☒ Wet ☐ Blue ☐ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis:		☒	Circle: <u>2</u> H ₂ SO ₄ (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	☒		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			☒
Custody Signatures Present?	☒		Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Containers Intact?:	☒		Headspace Wisconsin Sulfide?			☒
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Extra labels on Terracore Vials? (soils only)		<u>N/A</u>	Trip Blank Present?		☒	
			Trip Blank Custody Seals?:			☒

COMMENTS:

Sample Container Count

SBS

DI

MeOH
(only)

BK

Kit

** Place a RED dot on containers
that are out of conformance **

COC Line Item	WGFI	R	DG9H VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit			Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZnAc pH >9	NaOH pH>10
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10																		1	1	1								WT	✓		
11																		1	1	1								WT	✓		
12																															

Container Codes

Glass

DG9H	40mL HCl amber vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFI	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFI	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass
GN	General	AG3C	250mL NaOH amber glass

Plastic / Misc.

BP4U	125mL unpreserved plastic		
BP4N	125mL HNO3 plastic		
BP4S	125mL H2SO4 plastic		
Syringe Kit	LL Cr+6 sampling kit		
AF	Air Filter		
C	Air Cassettes		
R	Terracore kit		
SP5T	120mL Coliform Na Thiosulfate		
U	Summa Can		
ZPLC	Ziploc Bag		
WT	Water		
SL	Solid		
NAL	OL	Non-aqueous liquid	Oil
WP	Wipe		
			Pa

Sample Container Count

SBS

DI

MeOH
(only)

BK

Kit

** Place a RED dot on containers
that are out of conformance **

COC Line Item	WGFI	R	DG9H VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit		Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZnAc pH >9	NaOH pH >10
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10																		1	1	1								WT	✓	
11																														
12																														

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFI	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFI	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass
GN	General	AG3C	250mL NaOH amber glass

Plastic / Misc.

BP4U	125mL unpreserved plastic		
BP4N	125mL HNO3 plastic		
BP4S	125mL H2SO4 plastic		
Syringe Kit	LL Cr+6 sampling kit		
AF	Air Filter		
C	Air Cassettes		
R	Terracore kit		
SP5T	120mL Coliform Na Thiosulfate		
U	Summa Can		
ZPLC	Ziploc Bag		
WT	Water		
SL	Solid		
NAL	OL	Non-aqueous liquid	Oil
WP	Wipe	Pa	

Sample Container Count

SBS
DI
MeOH
(only)
BK
Kit** Place a RED dot on containers
that are out of conformance **

COC Line Item	WGUFU	R	DG9H VG9H	VOA MAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit	Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZnAc pH >9	NaOH pH>10
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1 1 1

WT ✓

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGUFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass
GN	General	AG3C	250mL NaOH amber glass

Plastic / Misc.

BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Syringe Kit LL Cr+6 sampling kit

AF	Air Filter
C	Air Cassettes
R	Terracore kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

WT	Water
SL	Solid
NAL	OL Non-aqueous liquid
WP	Oil Wipe

WO#: 50298401



50298401

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Sec
Req

Information:

Section C

Invoice Information:

Page : Of

Company: NiSource_Golder	Copy To: krysta_cione@golder.com	Attention: Jeff Loewe U126177
Address: 801 E. 86th Avenue	Copy To: danielle_sylvia@golder.com	Company Name: NIPSCO
Merrillville, IN 46410	Purchase Order #: PO12747	Address:
Email: jim_peace@golder.com	Project Name: RMSGS Assessment Sept 21	Pace Quote:
Phone: Fax:	Project #: 19121561	Pace Project Manager: tina.sayer@pacelabs.com
Requested Due Date:	Pace Profile #: 9045-1	

Regulatory Agency

State / Location

IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test	Total metals **		Cl, F, SO4 by 9056	pH	TDS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**B,Ca,Li by 6010;	<i>[Signature]</i> / <i>[Signature]</i>	9/24/21	1600	Fedex						
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020	Fedex	9/25/21	915	<i>[Signature]</i>	9/25/21	915	1.12	Y	Y	Y
Hg by 7470										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE OF SAMPLER:

DATE Signed:

TEMP in C

Received on

ice

(Y/N)

Clarity

Sealed

Cover

(Y/N)

Samples

Int.

(Y/N)



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: BF092521 1050

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER _____

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: 1.1°C / 1.1°C
Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☒ Bubble Wrap ☐ Bubble Bags

☐ None ☐ Other _____

6. Ice Type: ☒ Wet ☐ Blue ☐ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base pres. Have been <u>CHECKED</u> ?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	☒		
Short Hold Time Analysis (48 hours or less)? Analysis:		☒	Circle: <u>BF092521</u> HNO ₃ (<2) <u>H₂SO₄ (<2)</u> NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			<u>Present</u>	<u>Absent</u>	<u>N/A</u>
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			☒
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Custody Signatures Present?	☒		Headspace Wisconsin Sulfide?			☒
Containers Intact?:	☒		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Trip Blank Present?		☒	
Extra labels on Terracore Vials? (soils only)		☒	Trip Blank Custody Seals?:			☒

COMMENTS:

Sample Container Count

SBS

DI

MeOH
(only)

BK

Kit

** Place a RED dot on containers
that are out of conformance **

COC Line Item	WGUFU	R	DG9H VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit	Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZnAc pH >9	NaOH pH >10
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12																													

WT ✓
WT ✓

Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Syringe Kit	
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	LL Cr+6 sampling kit	
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	AF	Air Filter
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	C	Air Cassettes
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	R	Terracore kit
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	SP5T	120mL Coliform Na Thiosulfate
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
WGUFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	ZPLC	Ziploc Bag
JGUFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	WT	Water
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	SL	Solid
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	NAL OL	Non-aqueous liquid Oil
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic	WP	Wipe
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic		

Sample Container Count

SBS

DI

MeOH
(only)

BK

Kit

** Place a RED dot on containers
that are out of conformance **

COC Line Item	WGUFU	R	DG9H	VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit	Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZNAc pH >9	NaOH pH>10
37																														
38																														
39																														
40																														
41																														
42																														
7																														
8																														
9																														
10																														
11																														
12																														

WT
WT✓
✓

Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic		
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac		
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	Syringe Kit	LL Cr+6 sampling kit
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	AF	Air Filter
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	C	Air Cassettes
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	R	Terracore kit
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate
WGUFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	U	Summa Can
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	ZPLC	Ziploc Bag
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered		
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	WT	Water
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic	SL	Solid
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic	NAL	OL Non-aqueous liquid Oil
						WP	Wipe



Section

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Required client information:

Company:	NiSource, Golden

Address: 801 E 86th Avenue

Merrillville, IN 46410

Email: jim_peace@golder.com

Phone:	(603)782-2433	Fax:

Requested Due Date:

required project information:

Report To: Jim Peace

Copy To: Krysta Cione, Danielle Sylvia

Purchase Order #:	PO12747

Project Name: RMSGS Assessment Sept 21

Project #: 19121577-711-6

Section C

Invoice Information:

Attention: Jeff Loewe U126177

Company Name:	NIPSCO

Address:

Pace Quote:

Pace Project Manager: tina.sayer@pacelabs.com

Pace Profile #: 9045-1

Page : Of

Regulatory Agency

State / Location

1N

[illegible]

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: _____

DATE Signed: _____

TEMP in C

Received on

(N/A)

Custody
ealedCooler
(N/N)

2 samples

(N/A)



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DAP 9/30/21 1040

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER _____

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 (A B C D E F)

4. Cooler Temperature: 1.2/1.2

Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☐ Bubble Wrap ☐ Bubble Bags

☐ None ☐ Other 201C

6. Ice Type: ☒ Wet ☐ Blue ☐ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis:		☒	Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	☒		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			<u>Present</u>	<u>Absent</u>	<u>N/A</u>
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			☒
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Custody Signatures Present?	☒		Headspace Wisconsin Sulfide?			☒
			Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Containers Intact?:	☒					☒
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Trip Blank Present?		☒	
Extra labels on Terracore Vials? (soils only)		☒	Trip Blank Custody Seals?:			☒

COMMENTS:

Sample Container Count

SBS

DI

MeOH
(only)

BK

Kit

** Place a RED dot on containers

that are out of conformance **

COC Line Item	WGFU	R	DG9H VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit	Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZnAc pH >9	NaOH pH>10
1																													
2																	↓	↓	↓								WT	✓	
3																	↓	↓	↓									✓	
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Syringe Kit LL Cr+6 sampling kit	
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	C	Air Cassettes
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	R	Terracore kit
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	SP5T	120mL Coliform Na Thiosulfate
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	U	Summa Can
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	ZPLC	Ziploc Bag
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	WT	Water
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	NAL	Non-aqueous liquid
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	OL	Oil
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic	WP	Wipe
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic		

Sample Container Count

SBS

DI

MeOH
(only)

BK

Kit

** Place a RED dot on containers
that are out of conformance **

COC Line Item	WGUFU	R	DG9H	VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit	Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZNAc pH >9	NaOH pH>10
1																														
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Syringe Kit LL Cr+6 sampling kit	
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	C	Air Cassettes
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	R	Terracore kit
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	SP5T	120mL Coliform Na Thiosulfate
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	U	Summa Can
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	ZPLC	Ziploc Bag
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	WT	Water
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	NAL	OL Non-aqueous liquid Oil
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	WP	Wipe
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic		
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic		



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: MCS 10/1/21 1237

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER _____

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: 1.0 / 1.0
Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☒ Bubble Wrap ☐ Bubble Bags

☐ None ☐ Other _____

6. Ice Type: ☒ Wet ☐ Blue ☐ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base pres. Have been <u>CHECKED</u> ?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	☒		
Short Hold Time Analysis (48 hours or less)? Analysis:		☒	Circle: HNO ₃ (<2) H ₂ SO ₄ (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Custody Signatures Present?	☒		Headspace Wisconsin Sulfide?			☒
Containers Intact?	☒		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Trip Blank Present?		☒	
Extra labels on Terracore Vials? (soils only)		☒	Trip Blank Custody Seals?:			☒

COMMENTS:

SBS

DI

MeOH

(only)

BK

Kit

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGUFU	R	DG9H	VG9H	VOA MIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit			Matrix	HNO3/H2SO4 pH <2	NaOH/ZnAc pH >9	NaOH pH >10
1																		-	-	-									5	✓		
2																		↓	↓	↓									↓	↓		
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Syringe Kit LL Cr+6 sampling kit	
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	C	Air Cassettes
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	R	Terracore kit
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	SP5T	120mL Coliform Na Thiosulfate
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	U	Summa Can
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	ZPLC	Ziploc Bag
WGUFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	WT	Water
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	NAL	Non-aqueous liquid
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	OL	Oil
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic	WP	Wipe
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic		

50298977

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section

Required

mation:

Section C

Invoice Information:

Page :

Of

Company: NiSource_Golder		Report To: Jim Peace	Attention: Jeff Loewe U126177	
Address: 801 E 86th Avenue		Copy To: Krysta Cione, Danielle Sylvia	Company Name: NIPSCO	
Merrillville, IN 46410			Address:	Regulatory Agency
Email: jim.peace@golder.com		Purchase Order #: PD12747	Pace Quote:	
Phone: (603)782-2433	Fax:	Project Name: RMSGS Assessment Sept 21	Pace Project Manager: tina.sayer@pacelabs.com	State / Location
Requested Due Date:		Project #: 19121867-211-6	Pace Profile #: 9045-1	IN

[illegible][illegible]

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on	Price	(Y/N)	Cody	Sayed	Cler	(Y)	Samples	Sung	(Y)
PRINT Name of SAMPLER: <i>P. GUZMAN</i>												
SIGNATURE of SAMPLER: <i>[Signature]</i>												



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: BF 100221 1000

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER _____

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: 0.5°C / 0.5°C
Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☒ Bubble Wrap ☐ Bubble Bags

☐ None ☐ Other _____

6. Ice Type: ☒ Wet ☐ Blue ☐ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.	☒		
Short Hold Time Analysis (48 hours or less)? Analysis:		☒	Circle: HNO ₃ (<2) H ₂ SO ₄ (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Custody Signatures Present?	☒		Headspace Wisconsin Sulfide?			☒
Containers Intact?:	☒		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Trip Blank Present?		☒	
Extra labels on Terracore Vials? (soils only)		☒	Trip Blank Custody Seals?:			☒

COMMENTS:

SBS

DI

MeOH

(only)

BK

Kit

**** Place a RED dot on containers that are out of conformance ****

[illegible]

Container Codes

Glass				Plastic / Misc.					
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic		
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic		
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic		
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic				
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	Syringe Kit	LL Cr+6 sampling kit		
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic				
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	AF	Air Filter		
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	C	Air Cassettes		
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	R	Terracore kit		
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate		
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	U	Summa Can		
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	ZPLC	Ziploc Bag		
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered				
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	WT	Water		
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic	SL	Solid		
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic	NAL	OL	Non-aqueous liquid	Oil
						WP	Wipe		

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CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must

WO#: 50299064



Section A

Required Client Information:

Company: NiSource_Golder
Address: 801 E 86th Avenue
Merrillville, IN 46410
Email: jim.peace@golder.com
Phone: (603)782-2433 Fax:
Requested Due Date:

Section B

Required Project Information:

Report To: Jim Peace
Copy To: Krysta Cione, Danielle Sylvia
Purchase Order #: PO12747
Project Name: RMSGS Assessment Sept 21
Project #: 19121567-211-6

Section C

Invoice Information:

Attention: Jeff Loewe U126177
Company Name: NIPSCO
Address:
Pace Quote:
Pace Project Manager: tina.sayer@pacelabs.com
Pace Profile #: 9045-1

Regulatory Agency

State / Location

IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test	Y/N																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
**B,Ca,Li by 6010;				10/4/21	1400			10/5/21	0920	B0	y	y	y
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020													
Hg by 7470													

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Seal Copied (Y/N)	Page 201 of 205
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER: 					
DATE Signed: 10/4/21					



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents:

10/5/21 0930 sm/c

1. Courier: ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☐ OTHER

2. Custody Seal on Cooler/Box Present: ☒ Yes ☐ No

(If yes) Seals Intact: ☒ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 A B C D E F

4. Cooler Temperature: 40/30
Temp should be above freezing to 6°C (Initial/Corrected)

5. Packing Material: ☒ Bubble Wrap ☐ Bubble Bags

☐ None ☐ Other

6. Ice Type: ☒ Wet ☐ Blue ☐ None

7. If temp. is over 6°C or under 0°C, was the PM notified?: ☐ Yes ☐ No

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis:		☒	Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	☒		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			☒
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Custody Signatures Present?	☒		Headspace Wisconsin Sulfide?			☒
	☒		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Containers Intact?:	☒					☒
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Trip Blank Present?		☒	
Extra labels on Terracore Vials? (soils only)		☒	Trip Blank Custody Seals?:			☒

COMMENTS:

Sample Container Count

SBS

DI

MeOH

(only)

BK

Kit

** Place a RED dot on containers
that are out of conformance **

COC Line Item	WGFL	R	DG9H VG9H	VOA M/L HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit			Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZNAc pH >9	NaOH pH>10
1																															
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic		
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	Syringe Kit	LL Cr+6 sampling kit
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic		
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	AF	Air Filter
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	C	Air Cassettes
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	R	Terracore kit
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	U	Summa Can
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	ZPLC	Ziploc Bag
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered		
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass-field filtered	BP3U	250mL unpreserved plastic	WT	Water
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic	SL	Solid
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic	NAL	OL Non-aqueous liquid Oil
						WP	Wipe

Sample Container Count

SBS
DI
MeOH
(only)
BK
Kit

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGUFU	R	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit	Matrix	HNO3/H2SO4 pH <2	NaOH/ZnAc pH >9	NaOH pH >10
1																											WT			
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic		
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	Syringe Kit	LL Cr+6 sampling kit
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic		
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	AF	Air Filter
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	C	Air Cassettes
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	R	Terracore kit
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	U	Summa Can
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	ZPLC	Ziploc Bag
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered		
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	WT	Water
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic	SL	Solid
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic	NAL	OL Non-aqueous liquid
				Oil			
				Page 1			
				WP Wipe			

ATTACHMENT F

2021 R. M. Schahfer Generating Station Data Usability Report

Data Usability Summary Report 2021 Groundwater Samples

This Data Usability Summary Report (DUSR) presents the findings of the data quality assessment performed on the analyses of groundwater samples collected for two (2) semi-annual sampling events, conducted between April 12th and April 27th, 2021 and between September 10th and October 4th, 2021 at the R. M. Schahfer Generating Station. Samples reported in laboratory sample delivery groups (SDGs) listed in Table 1 were reviewed as part of this DUSR.

The samples were submitted Pace Analytical Laboratories located in Indianapolis, IN and Greensburg, PA to perform requested analyses. Information regarding the sample point identifications, analytical parameters, quality control (QC) samples, sampling dates, and laboratory SDG designations are summarized in Table 1. Groundwater samples were analyzed following methods:

- Target Compound List (TCL) Total Metals following USEPA SW-846 Method 6020A, Inductively Coupled Plasma-Mass Spectrometry, February 2007 and USEPA SW-846 Method 6010C Inductively Coupled Plasma- Atomic Emission Spectrometry Revision 3 (November 2000);
- Mercury following USEPA SW846 7470A Mercury in Liquid Wastes (Manual Cold- Vapor Technique) Revision 1 (September 1994);
- Anions (chloride, fluoride, and sulfate) following USEPA SW846 9056A Determination of Inorganic Anions by Ion Chromatography Revision 1 (February 2007);
- Total Dissolved Solids (TDS) following SM 2540C Total Dissolved Solids Dried at 180 °C, Standard Methods 20th Edition (1998);
- pH by SM 4500-H+B pH in Water by Potentiometry; and,
- Radium-226 and Radium-228 following USEPA SW846 Method 903.1 Radium-226 in Drinking Water Radon Emanation Technique (January 1980) and USEPA SW846 Method 904.0 Radium-228 in Drinking Water (January 1980), respectively.

A total of 202 groundwater samples, as well as 19 field blanks, 19 field duplicates, and 11 matrix spikes/matrix spike duplicates (MS/MSDs) were collected and analyzed during the two semi-annual events.

The data quality assessment of inorganic results was performed in accordance with the Quality Assurance Project Plan (QAPP) and EPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (January 2017) (Inorganic Guidelines) and the Evaluation of Radiochemistry Data Usability- Department of Energy (DOE, 1997) (Guidelines), where applicable to the methods listed above. If there was a conflict between the Guidelines and the analytical methodology, method specific criteria and professional judgment were used.

In general, chemical results for the samples collected at the Site were qualified based on outlying accuracy, precision, and analytical holding time exceedances. The following definitions provide brief explanations of the qualifiers which may have been assigned to data during the data validation process.

J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample and may be considered biased high.
J-	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample and may be considered biased low.

U	The analyte was analyzed for but was not detected above the reported sample quantitation limit.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

In general, the data generated as part of the groundwater sampling event met the QC criteria established in the respective methods and the Inorganic Guidelines. Table 2 summarizes all qualifications applied to the data, with applicable qualifier codes. Certain samples may have been qualified for multiple data quality assessment (DQA) findings, as shown in Table 2. The following bulleted items highlight qualifications to specific parameters and/or samples:

- Laboratory analyzed pH samples were analyzed outside of method holding time. All laboratory measured pH values were qualified as estimated (J). Field measured pH values were used in all data evaluations.
- The total dissolved solids result for sample GAMW-51B-042121 and GAMW-58-042321 were qualified as estimated (J) due to the laboratory duplicate relative percentage difference above the quality control criteria.
- The sulfate results for sample GAMW-09B-042021 and the corresponding field duplicate (FD-04-042021) were qualified as estimated (J) due to the field duplicate relative percent difference above the quality control criteria.
- The radium-228 and associated combined radium result for GAMW-55R-042021 were rejected (R) due to method blank contamination. Following the Guidelines, when the blank concentration is greater than the minimum detectable concentration, the normalized absolute difference was calculated. If the normalized absolute difference is between 0 and 1.96 the associated sample results are rejected.
- The detected fluoride results for samples collected on April 23, September 10, September 16, and September 22, 2021 were qualified as estimated bias low (J-) and non-detect fluoride results for samples collected on April 23, 2021 were qualified as estimated (UJ) due to matrix spike recovery below quality control criteria.
- The sulfate results for all samples collected on April 27, 2021 were qualified as estimated biased high (J+) due to matrix spike/matrix spike duplicate above quality control criteria.

Dilutions do not require qualifications based on the Guidelines. Detection and reporting limits of non-detect compounds are elevated proportional to the dilution when undiluted sample results are not provided by the laboratory. The data usability of diluted results was evaluated by the data user in the context of statewide characterization.

Based on the data validations and data quality assessment, with the exception of the two rejected radium results, the analytical data for samples collected at the Site were determined to be acceptable (including estimated data) for their intended use.

TABLE 1

Sample Collection and Analysis Summary
NIPSCO LLC CCR Groundwater Monitoring - R. M. Schahfer

Lab Sample ID	Field Identification	Collection Date	Location	Matrix	QC Samples	Anions	Metals	Mercury	Total Dissolved Solids	pH	Radium-226	Radium-228
50284673001	GAMW-20-041221	4/12/2021	GAMW-20	GW	-	X	X		X	X		
50284673002	GAMW-24-041221	4/12/2021	GAMW-24	GW	-	X	X		X	X		
50284673003	GAMW-25-041221	4/12/2021	GAMW-25	GW	MS/MSD	X	X		X	X		
50284673004	GAMW-25B-041221	4/12/2021	GAMW-25B	GW	-	X	X		X	X		
50284673005	GAMW-26-041221	4/12/2021	GAMW-26	GW	-	X	X		X	X		
50284673006	GAMW-26B-041221	4/12/2021	GAMW-26B	GW	-	X	X		X	X		
50284673007	FD-01-041221	4/12/2021	GAMW-25B	GW	FD	X	X		X	X		
50284673008	FB-01-041221	4/12/2021	GAMW-26	WQ	FB	X	X		X	X		
50284793001	GAMW-24B-041231	4/13/2021	GAMW-24B	GW	-	X	X		X	X		
50284793002	GAMW-27-041231	4/13/2021	GAMW-27	GW	-	X	X		X	X		
50284793003	GAMW-27B-041321	4/13/2021	GAMW-27B	GW	-	X	X		X	X		
50284793004	GAMW-38-041321	4/13/2021	GAMW-38	GW	-	X	X		X	X		
50284793005	GAMW-38B-041321	4/13/2021	GAMW-38B	GW	-	X	X		X	X		
50284793006	GAMW-39-041321	4/13/2021	GAMW-39	GW	-	X	X		X	X		
50284793007	GAMW-39B-041321	4/13/2021	GAMW-39B	GW	-	X	X		X	X		
50284793008	GAMW-41B-041321	4/13/2021	GAMW-41B	GW	-	X	X		X	X		
50284793009	FD-02-041321	4/13/2021	GAMW-27	GW	FD	X	X		X	X		
50284793010	FB-02-041321	4/13/2021	GAMW-39	WQ	FB	X	X		X	X		
50284881001	GAMW-40-041421	4/14/2021	GAMW-40	GW	-	X	X		X	X		
50284881002	GAMW-40B-041421	4/14/2021	GAMW-40B	GW	-	X	X		X	X		
50284881003	GAMW-41-041421	4/14/2021	GAMW-41	GW	-	X	X		X	X		
50284873001	GAMW-01-041421	4/14/2021	GAMW-01	GW	-	X	X	X	X	X		
50284873002	GAMW-01B-041421	4/14/2021	GAMW-01B	GW	-	X	X	X	X	X		
50284873003	GAMW-03-041421	4/14/2021	GAMW-03	GW	-	X	X	X	X	X		
50284873004	GAMW-17-041421	4/14/2021	GAMW-17	GW	-	X	X	X	X	X		
50284873005	GAMW-17B-041421	4/14/2021	GAMW-17B	GW	-	X	X	X	X	X		
50285068001	GAMW-12B-041521	4/15/2021	GAMW-12B	GW	-	X	X	X	X	X		
50285068002	GAMW-03B-041521	4/15/2021	GAMW-03B	GW	MS/MSD	X	X	X	X	X		
50285068003	GAMW-04-041521	4/15/2021	GAMW-04	GW	-	X	X	X	X	X		
50285068004	FD-01-041521	4/15/2021	GAMW-12B	GW	FD	X	X	X	X	X		
50285068005	GAMW-12-041521	4/15/2021	GAMW-12	GW	-	X	X	X	X	X		
50285157001	GAMW-07B-041621	4/16/2021	GAMW-07B	GW	-	X	X	X	X	X		
50285157002	GAMW-07-041621	4/16/2021	GAMW-07	GW	-	X	X	X	X	X		
50285157003	GAMW-15-041621	4/16/2021	GAMW-15	GW	-	X	X	X	X	X		
50285157004	GAMW-52-041621	4/16/2021	GAMW-52	GW	MS/MSD	X	X	X	X	X		
50285157005	GAMW-52B-041621	4/16/2021	GAMW-52B	GW	-	X	X	X	X	X		
50285157006	GAMW-53-041621	4/16/2021	GAMW-53	GW	-	X	X	X	X	X		
50285157007	GAMW-53B-041621	4/16/2021	GAMW-53B	GW	-	X	X	X	X	X		
50285157008	FB-01-041621	4/16/2021	GAMW-15	WQ	FB	X	X	X	X	X		
50285157009	GAMW-15B-041621	4/16/2021	GAMW-15B	GW	-	X	X	X	X	X		
50285157010	FD-02-041621	4/16/2021	GAMW-15B	GW	FD	X	X	X	X	X		
50285295001	GAMW-13-041921	4/19/2021	GAMW-13	GW	-	X	X	X	X	X		
50285295002	GAMW-13B-041921	4/19/2021	GAMW-13B	GW	-	X	X	X	X	X		
50285295003	GAMW-14-041921	4/19/2021	GAMW-14	GW	-	X	X	X	X	X		
50285295004	GAMW-14B-041921	4/19/2021	GAMW-14B	GW	-	X	X	X	X	X		
50285295005	FD-03-041921	4/19/2021	GAMW-14B	GW	FD	X	X	X	X	X		
50285295006	FB-02-041921	4/19/2021	GAMW-14	WQ	FB	X	X	X	X	X		
50285295007	GAMW-54-041921	4/19/2021	GAMW-54	GW	-	X	X	X	X	X		
50285295008	GAMW-54B-041921	4/19/2021	GAMW-54B	GW	-	X	X	X	X	X		
50285463001	FD-04-042021	4/20/2021	GAMW-09B	GW	FD	X	X	X	X	X		
50285463002	FB-03-042021	4/20/2021	GAMW-18	WQ	FB	X	X	X	X	X		
50285463003	GAMW-18-042021	4/20/2021	GAMW-18	GW	-	X	X	X	X	X		

TABLE 1

Sample Collection and Analysis Summary
NIPSCO LLC CCR Groundwater Monitoring - R. M. Schahfer

Lab Sample ID	Field Identification	Collection Date	Location	Matrix	QC Samples	Anions	Metals	Mercury	Total Dissolved Solids	pH	Radium-226	Radium-228
50285463004	GAMW-09B-042021	4/20/2021	GAMW-09B	GW	-	X	X	X	X	X		
50285463005	GAMW-09-042021	4/20/2021	GAMW-09	GW	-	X	X	X	X	X		
50285463006	GAMW-55R-042021	4/20/2021	GAMW-55R	GW	-	X	X	X	X	X		
50285463007	GAMW-55B-042021	4/20/2021	GAMW-55B	GW	-	X	X	X	X	X		
50285463008	GAMW-56-042021	4/20/2021	GAMW-56	GW	-	X	X	X	X	X		
50285591001	GAMW-56B-042121	4/21/2021	GAMW-56B	GW	-	X	X	X	X	X		
50285591002	GAMW-51-042121	4/21/2021	GAMW-51	GW	-	X	X	X	X	X		
50285591003	GAMW-51B-042121	4/21/2021	GAMW-51B	GW	-	X	X	X	X	X		
50285591004	GAMW-60-042121	4/21/2021	GAMW-60	GW	-	X	X	X	X	X		
50285591005	GAMW-60B-042121	4/21/2021	GAMW-60B	GW	-	X	X	X	X	X		
50285591006	GAMW-18B-042121	4/21/2021	GAMW-18B	GW	-	X	X	X	X	X		
50285591007	FB-04-042121	4/21/2021	GAMW-56B	WQ	FB	X	X	X	X	X		
50285591008	GAMW-59-042121	4/21/2021	GAMW-59	GW	-	X	X	X	X	X		
50285705001	GAMW-16R-042221	4/22/2021	GAMW-16R	GW	-	X	X	X	X	X		
50285705002	GAMW-16BR-042221	4/22/2021	GAMW-16BR	GW	-	X	X	X	X	X		
50285705003	GAMW-59B-042221	4/22/2021	GAMW-59B	GW	-	X	X	X	X	X		
50285705004	GAMW-08-042221	4/22/2021	GAMW-08	GW	-	X	X	X	X	X		
50285705005	GAMW-08B-042221	4/22/2021	GAMW-08B	GW	-	X	X	X	X	X		
50285705006	GAMW-68-042221	4/22/2021	GAMW-68	GW	-	X	X	X	X	X		
50285705007	GAMW-68B-042221	4/22/2021	GAMW-68B	GW	-	X	X	X	X	X		
50284875001	GAMW-01-041421	4/14/2021	GAMW-01	GW	-						X	X
50284875002	GAMW-01B-041421	4/14/2021	GAMW-01B	GW	-						X	X
50284875003	GAMW-03-041421	4/14/2021	GAMW-03	GW	-						X	X
50284875004	GAMW-17-041421	4/14/2021	GAMW-17	GW	-						X	X
50284875005	GAMW-17B-041421	4/14/2021	GAMW-17B	GW	-						X	X
50285069001	GAMW-12-041521	4/15/2021	GAMW-12	GW	-						X	X
50285069002	GAMW-12B-041521	4/15/2021	GAMW-12B	GW	-						X	X
50285069003	GAMW-04-041521	4/15/2021	GAMW-04	GW	-						X	X
50285069004	GAMW-03B-041521	4/15/2021	GAMW-03B	GW	MS/MSD						X	X
50285069005	FD-01-041521	4/15/2021	GAMW-12B	GW	FD						X	X
50285156001	GAMW-07B-041621	4/16/2021	GAMW-07B	GW	-						X	X
50285156002	GAMW-07-041621	4/16/2021	GAMW-07	GW	-						X	X
50285156003	GAMW-15-041621	4/16/2021	GAMW-15	GW	-						X	X
50285156004	GAMW-52-041621	4/16/2021	GAMW-52	GW	MS/MSD						X	X
50285156007	GAMW-52B-041621	4/16/2021	GAMW-52B	GW	-						X	X
50285156008	GAMW-53-041621	4/16/2021	GAMW-53	GW	-						X	X
50285156009	GAMW-53B-041621	4/16/2021	GAMW-53B	GW	-						X	X
50285156010	FB-01-041621	4/16/2021	GAMW-15	WQ	FB						X	X
50285156011	FD-02-041621	4/16/2021	GAMW-15B	GW	FD						X	X
50285156012	GAMW-15B-041621	4/16/2021	GAMW-15B	GW	-						X	X
50287525001	GAMW-13-041921	4/19/2021	GAMW-13	GW	-						X	X
50287525002	GAMW-13B-041921	4/19/2021	GAMW-13B	GW	-						X	X
50287525003	GAMW-14-041921	4/19/2021	GAMW-14	GW	-						X	X
50287525004	GAMW-14B-041921	4/19/2021	GAMW-14B	GW	-						X	X
50287525005	FD-03-041921	4/19/2021	GAMW-14B	GW	FD						X	X
50287525006	FB-02-041921	4/19/2021	GAMW-14	WQ	FB						X	X
50287525007	GAMW-54-041921	4/19/2021	GAMW-54	GW	-						X	X
50287525008	GAMW-54B-041921	4/19/2021	GAMW-54B	GW	-						X	X
50285424001	GAMW-56-042021	4/20/2021	GAMW-56	GW	-						X	X
50285424002	GAMW-55R-042021	4/20/2021	GAMW-55R	GW	-						X	X
50285424003	GAMW-55B-042021	4/20/2021	GAMW-55B	GW	-						X	X
50285424004	GAMW-09-042021	4/20/2021	GAMW-09	GW	-						X	X
50285424005	GAMW-09B-042021	4/20/2021	GAMW-09B	GW	-						X	X

TABLE 1

Sample Collection and Analysis Summary
NIPSCO LLC CCR Groundwater Monitoring - R. M. Schahfer

Lab Sample ID	Field Identification	Collection Date	Location	Matrix	QC Samples	Anions	Metals	Mercury	Total Dissolved Solids	pH	Radium-226	Radium-228
50285424006	GAMW-18-042021	4/20/2021	GAMW-18	GW	-						X	X
50285424007	FB-03-042021	4/20/2021	GAMW-18	WQ	FB						X	X
50285424008	FD-04-042021	4/20/2021	GAMW-09B	GW	FD						X	X
50285534001	GAMW-56B-042121	4/21/2021	GAMW-56B	GW	-						X	X
50285534002	GAMW-51-042121	4/21/2021	GAMW-51	GW	-						X	X
50285534003	GAMW-51B-042121	4/21/2021	GAMW-51B	GW	-						X	X
50285534004	GAMW-60-042121	4/21/2021	GAMW-60	GW	-						X	X
50285534005	GAMW-60B-042121	4/21/2021	GAMW-60B	GW	-						X	X
50285534006	GAMW-18B-042121	4/21/2021	GAMW-18B	GW	-						X	X
50285534007	FB-04-042121	4/21/2021	GAMW-56B	WQ	FB						X	X
50285534008	GAMW-59-042121	4/21/2021	GAMW-59	GW	-						X	X
50285654001	GAMW-16R-042221	4/22/2021	GAMW-16R	GW	-						X	X
50285654002	GAMW-16BR-042221	4/22/2021	GAMW-16BR	GW	-						X	X
50285654003	GAMW-59B-042221	4/22/2021	GAMW-59B	GW	-						X	X
50285654004	GAMW-08-042221	4/22/2021	GAMW-08	GW	-						X	X
50285654005	GAMW-08B-042221	4/22/2021	GAMW-08B	GW	-						X	X
50285654006	GAMW-68-042221	4/22/2021	GAMW-68	GW	-						X	X
50285654007	GAMW-68B-042221	4/22/2021	GAMW-68B	GW	-						X	X
50285740001	GAMW-42-042321	4/23/2021	GAMW-42	GW	-	X	X	X	X	X		
50285740002	GAMW-42B-042321	4/23/2021	GAMW-42B	GW	-	X	X	X	X	X		
50285740003	GAMW-42C-042321	4/23/2021	GAMW-42C	GW	-	X	X	X	X	X		
50285740004	GAMW-43-042321	4/23/2021	GAMW-43	GW	-	X	X	X	X	X		
50285740005	GAMW-57-042321	4/23/2021	GAMW-57	GW	-	X	X	X	X	X		
50285740006	GAMW-57B-042321	4/23/2021	GAMW-57B	GW	-	X	X	X	X	X		
50285740007	GAMW-58-042321	4/23/2021	GAMW-58	GW	MS/MSD	X	X	X	X	X		
50285740008	GAMW-58B-042321	4/23/2021	GAMW-58B	GW	-	X	X	X	X	X		
50285964001	GAMW-43B-042721	4/27/2021	GAMW-43B	GW	-	X	X	X	X	X		
50285964002	FD-05-042721	4/27/2021	GAMW-43B	GW	FD	X	X	X	X	X		
50285964003	FB-05-042721	4/27/2021	GAMW-44	WQ	FB	X	X	X	X	X		
50285964004	GAMW-44-042721	4/27/2021	GAMW-44	GW	-	X	X	X	X	X		
50285964005	GAMW-44B-042721	4/27/2021	GAMW-44B	GW	-	X	X	X	X	X		
50285964006	GAMW-46-042721	4/27/2021	GAMW-46	GW	-	X	X	X	X	X		
50285964007	GAMW-46B-042721	4/27/2021	GAMW-46B	GW	-	X	X	X	X	X		
50285733001	GAMW-42-042321	4/23/2021	GAMW-42	GW	-						X	X
50285733002	GAMW-42B-042321	4/23/2021	GAMW-42B	GW	-						X	X
50285733003	GAMW-42C-042321	4/23/2021	GAMW-42C	GW	-						X	X
50285733004	GAMW-43-042321	4/23/2021	GAMW-43	GW	-						X	X
50285733005	GAMW-57-042321	4/23/2021	GAMW-57	GW	-						X	X
50285733006	GAMW-57B-042321	4/23/2021	GAMW-57B	GW	-						X	X
50285733007	GAMW-58-042321	4/23/2021	GAMW-58	GW	MS/MSD						X	X
50285733010	GAMW-58B-042321	4/23/2021	GAMW-58B	GW	-						X	X
50285987001	GAMW-43B-042721	4/27/2021	GAMW-43B	GW	-						X	X
50285987002	FD-05-042721	4/27/2021	GAMW-43B	GW	FD						X	X
50285987003	FB-05-042721	4/27/2021	GAMW-44	WQ	FB						X	X
50285987004	GAMW-44-042721	4/27/2021	GAMW-44	GW	-						X	X
50285987005	GAMW-44B-042721	4/27/2021	GAMW-44B	GW	-						X	X
50285987006	GAMW-46-042721	4/27/2021	GAMW-46	GW	-						X	X
50285987007	GAMW-46B-042721	4/27/2021	GAMW-46B	GW	-						X	X
50297273001	GAMW-20-091321	9/13/2021	GAMW-20	GW	-	X	X		X	X		
50297273002	GAMW-24-091321	9/13/2021	GAMW-24	GW	-	X	X		X	X		
50297273003	GAMW-24B-091321	9/13/2021	GAMW-24B	GW	-	X	X		X	X		
50297273004	GAMW-27B-091321	9/13/2021	GAMW-27B	GW	-	X	X		X	X		

TABLE 1

Sample Collection and Analysis Summary
NIPSCO LLC CCR Groundwater Monitoring - R. M. Schahfer

Lab Sample ID	Field Identification	Collection Date	Location	Matrix	QC Samples	Anions	Metals	Mercury	Total Dissolved Solids	pH	Radium-226	Radium-228
50297273005	GAMW-38-091121	9/11/2021	GAMW-38	GW	-	X	X		X	X		
50297273006	GAMW-38B-091121	9/11/2021	GAMW-38B	GW	-	X	X		X	X		
50297273007	GAMW-39-091121	9/11/2021	GAMW-39	GW	-	X	X		X	X		
50297273008	GAMW-39B-091121	9/11/2021	GAMW-39B	GW	-	X	X		X	X		
50297273009	GAMW-40-091321	9/13/2021	GAMW-40	GW	-	X	X		X	X		
50297273010	GAMW-40B-091321	9/13/2021	GAMW-40B	GW	-	X	X		X	X		
50297273011	GAMW-41-091321	9/13/2021	GAMW-41	GW	-	X	X		X	X		
50297273012	GAMW-41B-091321	9/13/2021	GAMW-41B	GW	-	X	X		X	X		
50297273013	FD-02-091321	9/13/2021	GAMW-24	GW	FD	X	X		X	X		
50297273014	FB-02-091321	9/13/2021	GAMW-27B	WQ	FB	X	X		X	X		
50297273015	FD-01-091121	9/11/2021	GAMW-38B	GW	FD	X	X		X	X		
50297273016	FB-01-091121	9/11/2021	GAMW-38B	WQ	FB	X	X		X	X		
50297127001	GAMW-25-091021	9/10/2021	GAMW-25	GW	MS/MSD	X	X		X	X		
50297127002	GAMW-25B-091021	9/10/2021	GAMW-25B	GW	-	X	X		X	X		
50297127003	GAMW-26-091021	9/10/2021	GAMW-26	GW	-	X	X		X	X		
50297127004	GAMW-26B-091021	9/10/2021	GAMW-26B	GW	-	X	X		X	X		
50297127005	GAMW-27-091021	9/10/2021	GAMW-27	GW	-	X	X		X	X		
50297587001	GAMW-01-091621	9/16/2021	GAMW-01	GW	-	X	X	X	X	X		
50297587002	GAMW-01B-091621	9/16/2021	GAMW-01B	GW	-	X	X	X	X	X		
50297587003	GAMW-12-091621	9/16/2021	GAMW-12	GW	-	X	X	X	X	X		
50297587004	GAMW-12B-091621	9/16/2021	GAMW-12B	GW	-	X	X	X	X	X		
50297587005	GAMW-18-091621	9/16/2021	GAMW-18	GW	MS/MSD	X	X	X	X	X		
50297587006	FB-01-091621	9/16/2021	GAMW-01B	WQ	FB	X	X	X	X	X		
50297724001	GAMW-03-091721	9/17/2021	GAMW-03	GW	-	X	X	X	X	X		
50297724002	GAMW-03B-091721	9/17/2021	GAMW-03B	GW	-	X	X	X	X	X		
50297724003	GAMW-13-091721	9/17/2021	GAMW-13	GW	-	X	X	X	X	X		
50297724004	GAMW-13B-091721	9/17/2021	GAMW-13B	GW	-	X	X	X	X	X		
50297724005	GAMW-14-091721	9/17/2021	GAMW-14	GW	-	X	X	X	X	X		
50297724006	GAMW-14B-091721	9/17/2021	GAMW-14B	GW	-	X	X	X	X	X		
50297724007	GAMW-18B-091721	9/17/2021	GAMW-18B	GW	-	X	X	X	X	X		
50297724008	GAMW-68-091721	9/17/2021	GAMW-68	GW	-	X	X	X	X	X		
50297724009	GAMW-68B-091721	9/17/2021	GAMW-68B	GW	-	X	X	X	X	X		
50297724010	FD-01-091721	9/17/2021	GAMW-18B	GW	FD	X	X	X	X	X		
50297724011	FB-03-091721	9/17/2021	GAMW-03	WQ	FB	X	X	X	X	X		
50298104001	GAMW-07-092121	9/21/2021	GAMW-07	GW	-	X	X	X	X	X		
50298104002	GAMW-16R-092121	9/21/2021	GAMW-16R	GW	-	X	X	X	X	X		
50298104003	GAMW-16BR-092121	9/21/2021	GAMW-16BR	GW	-	X	X	X	X	X		
50298104004	FD-02-092121	9/21/2021	GAMW-07	GW	FD	X	X	X	X	X		
50298122001	GAMW-15-092221	9/22/2021	GAMW-15	GW	-	X	X	X	X	X		
50298122002	GAMW-15B-092221	9/22/2021	GAMW-15B	GW	MS/MSD	X	X	X	X	X		
50298122003	GAMW-17-092221	9/22/2021	GAMW-17	GW	-	X	X	X	X	X		
50298122004	GAMW-17B-092221	9/22/2021	GAMW-17B	GW	-	X	X	X	X	X		
50298122005	FB-02-092221	9/22/2021	GAMW-17	WQ	FB	X	X	X	X	X		
50298266001	GAMW-04-092321	9/23/2021	GAMW-04	GW	-	X	X	X	X	X		
50298266002	GAMW-07B-092321	9/23/2021	GAMW-07B	GW	-	X	X	X	X	X		
50298266003	GAMW-09-092321	9/23/2021	GAMW-09	GW	-	X	X	X	X	X		
50298266004	GAMW-09B-092321	9/23/2021	GAMW-09B	GW	-	X	X	X	X	X		
50298266005	FD-03-092321	9/23/2021	GAMW-04	GW	FD	X	X	X	X	X		
50298266006	FB-04-092321	9/23/2021	GAMW-07B	WQ	FB	X	X	X	X	X		
50298401001	GAMW-08-092421	9/24/2021	GAMW-08	GW	-	X	X	X	X	X		
50298401002	GAMW-08B-092421	9/24/2021	GAMW-08B	GW	-	X	X	X	X	X		
50298401003	GAMW-60-092421	9/24/2021	GAMW-60	GW	-	X	X	X	X	X		

TABLE 1

Sample Collection and Analysis Summary
NIPSCO LLC CCR Groundwater Monitoring - R. M. Schahfer

<i>Lab Sample ID</i>	<i>Field Identification</i>	<i>Collection Date</i>	<i>Location</i>	<i>Matrix</i>	<i>QC Samples</i>	<i>Anions</i>	<i>Metals</i>	<i>Mercury</i>	<i>Total Dissolved Solids</i>	<i>pH</i>	<i>Radium-226</i>	<i>Radium-228</i>
50298401004	GAMW-60B-092421	9/24/2021	GAMW-60B	GW	-	X	X	X	X	X		
50298717001	GAMW-51-092921	9/29/2021	GAMW-51	GW	-	X	X	X	X	X		
50298717002	GAMW-51B-092921	9/29/2021	GAMW-51B	GW	-	X	X	X	X	X		
50298717003	GAMW-59-092921	9/29/2021	GAMW-59	GW	-	X	X	X	X	X		
50298717004	GAMW-59B-092921	9/29/2021	GAMW-59B	GW	-	X	X	X	X	X		
50298717005	FD-04-092921	9/29/2021	GAMW-51	GW	FD	X	X	X	X	X		
50298902001	GAMW-52-093021	9/30/2021	GAMW-52	GW	-	X	X	X	X	X		
50298902002	GAMW-52B-093021	9/30/2021	GAMW-52B	GW	-	X	X	X	X	X		
50298902003	GAMW-53-093021	9/30/2021	GAMW-53	GW	-	X	X	X	X	X		
50298902004	GAMW-53B-093021	9/30/2021	GAMW-53B	GW	-	X	X	X	X	X		
50298977001	GAMW-54-100121	10/1/2021	GAMW-54	GW	-	X	X	X	X	X		
50298977002	GAMW-54B-100121	10/1/2021	GAMW-54B	GW	-	X	X	X	X	X		
50298977003	GAMW-55R-100121	10/1/2021	GAMW-55R	GW	-	X	X	X	X	X		
50298977004	GAMW-55B-100121	10/1/2021	GAMW-55B	GW	-	X	X	X	X	X		
50299064001	GAMW-56-100421	10/4/2021	GAMW-56	GW	-	X	X	X	X	X		
50299064002	GAMW-56B-100421	10/4/2021	GAMW-56B	GW	-	X	X	X	X	X		
50297456001	GAMW-58B-091521	9/15/2021	GAMW-58B	GW	-	X	X	X	X	X		
50297456002	FD-05-091521	9/15/2021	GAMW-46	GW	FD	X	X	X	X	X		
50297456003	FB-05-091521	9/15/2021	GAMW-58B	WQ	FB	X	X	X	X	X		
50297456004	GAMW-42-091421	9/14/2021	GAMW-42	GW	-	X	X	X	X	X		
50297456005	GAMW-42C-091521	9/15/2021	GAMW-42C	GW	MS/MSD	X	X	X	X	X		
50297456006	GAMW-44-091521	9/15/2021	GAMW-44	GW	-	X	X	X	X	X		
50297456007	GAMW-044B-091521	9/15/2021	GAMW-44B	GW	-	X	X	X	X	X		
50297456008	GAMW-46-091521	9/15/2021	GAMW-46	GW	-	X	X	X	X	X		
50297456009	GAMW-46B-091521	9/15/2021	GAMW-46B	GW	-	X	X	X	X	X		
50297456010	GAMW-57-091521	9/15/2021	GAMW-57	GW	-	X	X	X	X	X		
50297456011	GAMW-57B-091521	9/15/2021	GAMW-57B	GW	-	X	X	X	X	X		
50297456012	GAMW-58-091521	9/15/2021	GAMW-58	GW	-	X	X	X	X	X		
50297309002	GAMW-42B-091421	9/14/2021	GAMW-42B	GW	-	X	X	X	X	X		
50297309003	GAMW-43-091421	9/14/2021	GAMW-43	GW	-	X	X	X	X	X		
50297309004	GAMW-43B-091421	9/14/2021	GAMW-43B	GW	-	X	X	X	X	X		

Notes:

All analyses performed by PACE at the Indianapolis, IN and Greengburg, PA laboratories.

Abbreviations:

WQ: Water Quality GW: Ground Water
 FB: Field Blank QC: Quality Control
 FD: Field Duplicate SDG: Sample Delivery Group
 MS/MSD: Matrix Spike/Matrix Spike Duplicate

TABLE 2

Qualifier Summary Table
NIPSCO LLC CCR Groundwater Monitoring - R. M. Schahfer

<i>Sample Name</i>	<i>Constituent</i>	<i>New Result</i>	<i>New RL</i>	<i>Qualifier</i>	<i>Reason</i>
GAMW-20-041221	pH	-	-	J	Method holding time exceedance
GAMW-24-041221	pH	-	-	J	Method holding time exceedance
GAMW-25-041221	pH	-	-	J	Method holding time exceedance
GAMW-25B-041221	pH	-	-	J	Method holding time exceedance
GAMW-26-041221	pH	-	-	J	Method holding time exceedance
GAMW-26B-041221	pH	-	-	J	Method holding time exceedance
FD-01-041221	pH	-	-	J	Method holding time exceedance
GAMW-24B-041231	pH	-	-	J	Method holding time exceedance
GAMW-27-041231	pH	-	-	J	Method holding time exceedance
GAMW-27B-041321	pH	-	-	J	Method holding time exceedance
GAMW-38-041321	pH	-	-	J	Method holding time exceedance
GAMW-38B-041321	pH	-	-	J	Method holding time exceedance
GAMW-39-041321	pH	-	-	J	Method holding time exceedance
GAMW-39B-041321	pH	-	-	J	Method holding time exceedance
GAMW-41B-041321	pH	-	-	J	Method holding time exceedance
FD-02-041321	pH	-	-	J	Method holding time exceedance
GAMW-40-041421	pH	-	-	J	Method holding time exceedance
GAMW-40B-041421	pH	-	-	J	Method holding time exceedance
GAMW-41-041421	pH	-	-	J	Method holding time exceedance
GAMW-01-041421	pH	-	-	J	Method holding time exceedance
GAMW-01B-041421	pH	-	-	J	Method holding time exceedance
GAMW-03-041421	pH	-	-	J	Method holding time exceedance
GAMW-17-041421	pH	-	-	J	Method holding time exceedance
GAMW-17B-041421	pH	-	-	J	Method holding time exceedance
GAMW-12B-041521	pH	-	-	J	Method holding time exceedance
GAMW-03B-041521	pH	-	-	J	Method holding time exceedance
GAMW-04-041521	pH	-	-	J	Method holding time exceedance
FD-01-041521	pH	-	-	J	Method holding time exceedance
GAMW-12-041521	pH	-	-	J	Method holding time exceedance
GAMW-07B-041621	pH	-	-	J	Method holding time exceedance
GAMW-07-041621	pH	-	-	J	Method holding time exceedance
GAMW-15-041621	pH	-	-	J	Method holding time exceedance
GAMW-52-041621	pH	-	-	J	Method holding time exceedance
GAMW-52B-041621	pH	-	-	J	Method holding time exceedance
GAMW-53-041621	pH	-	-	J	Method holding time exceedance
GAMW-53B-041621	pH	-	-	J	Method holding time exceedance
GAMW-15B-041621	pH	-	-	J	Method holding time exceedance
GAMW-13-041921	pH	-	-	J	Method holding time exceedance
GAMW-13B-041921	pH	-	-	J	Method holding time exceedance
GAMW-14-041921	pH	-	-	J	Method holding time exceedance
GAMW-14B-041921	pH	-	-	J	Method holding time exceedance
FD-03-041921	pH	-	-	J	Method holding time exceedance
GAMW-54-041921	pH	-	-	J	Method holding time exceedance
GAMW-54B-041921	pH	-	-	J	Method holding time exceedance
FD-04-042021	pH	-	-	J	Method holding time exceedance
GAMW-18-042021	pH	-	-	J	Method holding time exceedance
GAMW-09B-042021	pH	-	-	J	Method holding time exceedance
GAMW-09-042021	pH	-	-	J	Method holding time exceedance
GAMW-55R-042021	pH	-	-	J	Method holding time exceedance
GAMW-55B-042021	pH	-	-	J	Method holding time exceedance

TABLE 2

Qualifier Summary Table
NIPSCO LLC CCR Groundwater Monitoring - R. M. Schahfer

<i>Sample Name</i>	<i>Constituent</i>	<i>New Result</i>	<i>New RL</i>	<i>Qualifier</i>	<i>Reason</i>
GAMW-56-042021	pH	-	-	J	Method holding time exceedance
GAMW-56B-042121	pH	-	-	J	Method holding time exceedance
GAMW-51-042121	pH	-	-	J	Method holding time exceedance
GAMW-51B-042121	pH	-	-	J	Method holding time exceedance
GAMW-60-042121	pH	-	-	J	Method holding time exceedance
GAMW-60B-042121	pH	-	-	J	Method holding time exceedance
GAMW-18B-042121	pH	-	-	J	Method holding time exceedance
GAMW-59-042121	pH	-	-	J	Method holding time exceedance
GAMW-16R-042221	pH	-	-	J	Method holding time exceedance
GAMW-16BR-042221	pH	-	-	J	Method holding time exceedance
GAMW-59B-042221	pH	-	-	J	Method holding time exceedance
GAMW-08-042221	pH	-	-	J	Method holding time exceedance
GAMW-08B-042221	pH	-	-	J	Method holding time exceedance
GAMW-68-042221	pH	-	-	J	Method holding time exceedance
GAMW-68B-042221	pH	-	-	J	Method holding time exceedance
GAMW-51B-042121	TDS	-	-	J	Laboratory duplicate RPD above QC criteria
GAMW-09B-042021	Sulfate	-	-	J	Field duplicate RPD above QC criteria
FD-04-042021	Sulfate	-	-	J	Field duplicate RPD above QC criteria
GAMW-55R-042021	Radium-228	-	-	R	Associated Method Blank Detection
GAMW-55R-042021	Combined Radium	-	-	R	Associated Method Blank Detection
GAMW-42-042321	pH	-	-	J	Method holding time exceedance
GAMW-42B-042321	pH	-	-	J	Method holding time exceedance
GAMW-42C-042321	pH	-	-	J	Method holding time exceedance
GAMW-43-042321	pH	-	-	J	Method holding time exceedance
GAMW-57-042321	pH	-	-	J	Method holding time exceedance
GAMW-57B-042321	pH	-	-	J	Method holding time exceedance
GAMW-58-042321	pH	-	-	J	Method holding time exceedance
GAMW-58B-042321	pH	-	-	J	Method holding time exceedance
GAMW-43B-042721	pH	-	-	J	Method holding time exceedance
FD-05-042721	pH	-	-	J	Method holding time exceedance
GAMW-44-042721	pH	-	-	J	Method holding time exceedance
GAMW-44B-042721	pH	-	-	J	Method holding time exceedance
GAMW-46-042721	pH	-	-	J	Method holding time exceedance
GAMW-46B-042721	pH	-	-	J	Method holding time exceedance
GAMW-42-042321	Fluoride	-	-	J-	MS Recovery below QC criteria
GAMW-42B-042321	Fluoride	-	-	J-	MS Recovery below QC criteria
GAMW-42C-042321	Fluoride	-	-	J-	MS Recovery below QC criteria
GAMW-43-042321	Fluoride	-	-	J-	MS Recovery below QC criteria
GAMW-57-042321	Fluoride	-	-	UJ	MS Recovery below QC criteria
GAMW-57B-042321	Fluoride	-	-	J-	MS Recovery below QC criteria
GAMW-58-042321	Fluoride	-	-	J-	MS Recovery below QC criteria
GAMW-58B-042321	Fluoride	-	-	J-	MS Recovery below QC criteria
GAMW-43B-042721	Sulfate	-	-	J+	MS/MSD Recovery above QC criteria
FD-05-042721	Sulfate	-	-	J+	MS/MSD Recovery above QC criteria
GAMW-44-042721	Sulfate	-	-	J+	MS/MSD Recovery above QC criteria
GAMW-44B-042721	Sulfate	-	-	J+	MS/MSD Recovery above QC criteria
GAMW-46-042721	Sulfate	-	-	J+	MS/MSD Recovery above QC criteria
GAMW-46B-042721	Sulfate	-	-	J+	MS/MSD Recovery above QC criteria
GAMW-58-042321	TDS	-	-	J	Laboratory duplicate RPD above QC criteria
GAMW-20-091321	pH	-	-	J	Method holding time exceedance

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Qualifier Summary Table
NIPSCO LLC CCR Groundwater Monitoring - R. M. Schahfer

<i>Sample Name</i>	<i>Constituent</i>	<i>New Result</i>	<i>New RL</i>	<i>Qualifier</i>	<i>Reason</i>
GAMW-24-091321	pH	-	-	J	Method holding time exceedance
GAMW-24B-091321	pH	-	-	J	Method holding time exceedance
GAMW-27B-091321	pH	-	-	J	Method holding time exceedance
GAMW-38-091121	pH	-	-	J	Method holding time exceedance
GAMW-38B-091121	pH	-	-	J	Method holding time exceedance
GAMW-39-091121	pH	-	-	J	Method holding time exceedance
GAMW-39B-091121	pH	-	-	J	Method holding time exceedance
GAMW-40-091321	pH	-	-	J	Method holding time exceedance
GAMW-40B-091321	pH	-	-	J	Method holding time exceedance
GAMW-41-091321	pH	-	-	J	Method holding time exceedance
GAMW-41B-091321	pH	-	-	J	Method holding time exceedance
FD-02-091321	pH	-	-	J	Method holding time exceedance
FD-01-091121	pH	-	-	J	Method holding time exceedance
GAMW-25-091021	pH	-	-	J	Method holding time exceedance
GAMW-25B-091021	pH	-	-	J	Method holding time exceedance
GAMW-26-091021	pH	-	-	J	Method holding time exceedance
GAMW-26B-091021	pH	-	-	J	Method holding time exceedance
GAMW-27-091021	pH	-	-	J	Method holding time exceedance
GAMW-25-091021	Fluoride	-	-	J-	MS/MSD Recovery below QC Criteria
GAMW-25B-091021	Fluoride	-	-	J-	MS/MSD Recovery below QC Criteria
GAMW-26-091021	Fluoride	-	-	J-	MS/MSD Recovery below QC Criteria
GAMW-26B-091021	Fluoride	-	-	J-	MS/MSD Recovery below QC Criteria
GAMW-27-091021	Fluoride	-	-	J-	MS/MSD Recovery below QC Criteria
GAMW-01-091621	pH	-	-	J	Method holding time exceedance
GAMW-01B-091621	pH	-	-	J	Method holding time exceedance
GAMW-12-091621	pH	-	-	J	Method holding time exceedance
GAMW-12B-091621	pH	-	-	J	Method holding time exceedance
GAMW-18-091621	pH	-	-	J	Method holding time exceedance
GAMW-03-091721	pH	-	-	J	Method holding time exceedance
GAMW-03B-091721	pH	-	-	J	Method holding time exceedance
GAMW-13-091721	pH	-	-	J	Method holding time exceedance
GAMW-13B-091721	pH	-	-	J	Method holding time exceedance
GAMW-14-091721	pH	-	-	J	Method holding time exceedance
GAMW-14B-091721	pH	-	-	J	Method holding time exceedance
GAMW-18B-091721	pH	-	-	J	Method holding time exceedance
GAMW-68-091721	pH	-	-	J	Method holding time exceedance
GAMW-68B-091721	pH	-	-	J	Method holding time exceedance
FD-01-091721	pH	-	-	J	Method holding time exceedance
GAMW-07-092121	pH	-	-	J	Method holding time exceedance
GAMW-16R-092121	pH	-	-	J	Method holding time exceedance
GAMW-16BR-092121	pH	-	-	J	Method holding time exceedance
FD-02-092121	pH	-	-	J	Method holding time exceedance
GAMW-15-092221	pH	-	-	J	Method holding time exceedance
GAMW-15B-092221	pH	-	-	J	Method holding time exceedance
GAMW-17-092221	pH	-	-	J	Method holding time exceedance
GAMW-17B-092221	pH	-	-	J	Method holding time exceedance
GAMW-04-092321	pH	-	-	J	Method holding time exceedance
GAMW-07B-092321	pH	-	-	J	Method holding time exceedance
GAMW-09-092321	pH	-	-	J	Method holding time exceedance
GAMW-09B-092321	pH	-	-	J	Method holding time exceedance

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Qualifier Summary Table
NIPSCO LLC CCR Groundwater Monitoring - R. M. Schahfer

<i>Sample Name</i>	<i>Constituent</i>	<i>New Result</i>	<i>New RL</i>	<i>Qualifier</i>	<i>Reason</i>
FD-03-092321	pH	-	-	J	Method holding time exceedance
GAMW-08-092421	pH	-	-	J	Method holding time exceedance
GAMW-08B-092421	pH	-	-	J	Method holding time exceedance
GAMW-60-092421	pH	-	-	J	Method holding time exceedance
GAMW-60B-092421	pH	-	-	J	Method holding time exceedance
GAMW-51-092921	pH	-	-	J	Method holding time exceedance
GAMW-51B-092921	pH	-	-	J	Method holding time exceedance
GAMW-59-092921	pH	-	-	J	Method holding time exceedance
GAMW-59B-092921	pH	-	-	J	Method holding time exceedance
FD-04-092921	pH	-	-	J	Method holding time exceedance
GAMW-52-093021	pH	-	-	J	Method holding time exceedance
GAMW-52B-093021	pH	-	-	J	Method holding time exceedance
GAMW-53-093021	pH	-	-	J	Method holding time exceedance
GAMW-53B-093021	pH	-	-	J	Method holding time exceedance
GAMW-54-100121	pH	-	-	J	Method holding time exceedance
GAMW-54B-100121	pH	-	-	J	Method holding time exceedance
GAMW-55R-100121	pH	-	-	J	Method holding time exceedance
GAMW-55B-100121	pH	-	-	J	Method holding time exceedance
GAMW-56-100421	pH	-	-	J	Method holding time exceedance
GAMW-56B-100421	pH	-	-	J	Method holding time exceedance
GAMW-01-091621	Fluoride	-	-	J-	MS/MSD recovery below QC criteria
GAMW-01B-091621	Fluoride	-	-	J-	MS/MSD recovery below QC criteria
GAMW-12-091621	Fluoride	-	-	J-	MS/MSD recovery below QC criteria
GAMW-12B-091621	Fluoride	-	-	J-	MS/MSD recovery below QC criteria
GAMW-18-091621	Fluoride	-	-	J-	MS/MSD recovery below QC criteria
GAMW-15-092221	Fluoride	-	-	J-	MS/MSD recovery below QC criteria
GAMW-15B-092221	Fluoride	-	-	J-	MS/MSD recovery below QC criteria
GAMW-17-092221	Fluoride	-	-	J-	MS/MSD recovery below QC criteria
GAMW-17B-092221	Fluoride	-	-	J-	MS/MSD recovery below QC criteria
GAMW-58B-091521	pH	-	-	J	Method holding time exceedance
FD-05-091521	pH	-	-	J	Method holding time exceedance
GAMW-42-091421	pH	-	-	J	Method holding time exceedance
GAMW-42C-091521	pH	-	-	J	Method holding time exceedance
GAMW-44-091521	pH	-	-	J	Method holding time exceedance
GAMW-044B-091521	pH	-	-	J	Method holding time exceedance
GAMW-46-091521	pH	-	-	J	Method holding time exceedance
GAMW-46B-091521	pH	-	-	J	Method holding time exceedance
GAMW-57-091521	pH	-	-	J	Method holding time exceedance
GAMW-57B-091521	pH	-	-	J	Method holding time exceedance
GAMW-58-091521	pH	-	-	J	Method holding time exceedance
GAMW-42B-091421	pH	-	-	J	Method holding time exceedance
GAMW-43-091421	pH	-	-	J	Method holding time exceedance
GAMW-43B-091421	pH	-	-	J	Method holding time exceedance

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Qualifier Summary Table
NIPSCO LLC CCR Groundwater Monitoring - R. M. Schahfer

<i>Sample Name</i>	<i>Constituent</i>	<i>New Result</i>	<i>New RL</i>	<i>Qualifier</i>	<i>Reason</i>
All Samples	-	-	-	-	Laboratory applied U-qualifiers indicating non-detect results and J-qualifiers indicating estimated results below the reporting limit are retained unless other qualification is indicated in this table. All other qualifiers are removed.

Abbreviations:

RL: Reporting Limit
 QC: Quality Control
 MS: Matrix Spike
 MSD: Matrix Spike Duplicate
 TDS: Total Dissolved Solids
 RPD: Relative percent difference

Qualifier Definitions:

J: Estimated Result
 J-: Estimated, biased low
 J+: Estimated, biased high
 UJ: Estimated reporting limit
 R: Rejected