



Phillip Courtney
Land Manager

January 8, 2024

Re: Front Range Aggregates Parkdale Quarry Background Surface and Groundwater Monitoring, Permit M-1997-054

Surface and groundwater sampling was conducted at Parkdale Quarry per Exhibit G, Monitoring and Mitigation Plan for Surface Water and Groundwater, Parkdale Quarry and Technical Revision #8 (TR-8), approved on February 23, 2024.

No mining activity has commenced on the amended permit area at the Parkdale quarry, so two sampling events were completed on April 16 and September 24, as required per TR-8. The results are being submitted with the annual report for permit M-1997-054 as approved by TR-8.

Surface samples were collected according to the procedures outlined in section 5.1.1 of *Exhibit G – Monitoring and Mitigation Plan for Surface Water and Groundwater – Parkdale Quarry* (“Exhibit G”) at CC-1, CC-2 and TC-2 during both sampling events. Sampling occurred at TC-1 during the April 16 event but there was no flow during the September 24 sampling event.

Groundwater well sampling was completed according to the procedures outlined in section 5.2.2 of Exhibit G at MW-1, MW-3 and MW-10 during both sampling events. A map is attached showing each sampling location.

The results of each sampling event were compared to the standards listed in Table 9 of Exhibit G in the attached tables. As approved in TR-8, analysis is no longer required for radionuclides. Any exceedances of the standards are highlighted in red in the table.

Reports from the laboratory are also attached for reference.

Should you have any questions or need additional information regarding this submittal please do not hesitate to contact me at (720) 612-6232 or phillip.courtney@martinmarietta.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Phillip J. Courtney", is written over a light blue horizontal line.

Phillip J. Courtney
Land Manager

Martin Marietta | West Division

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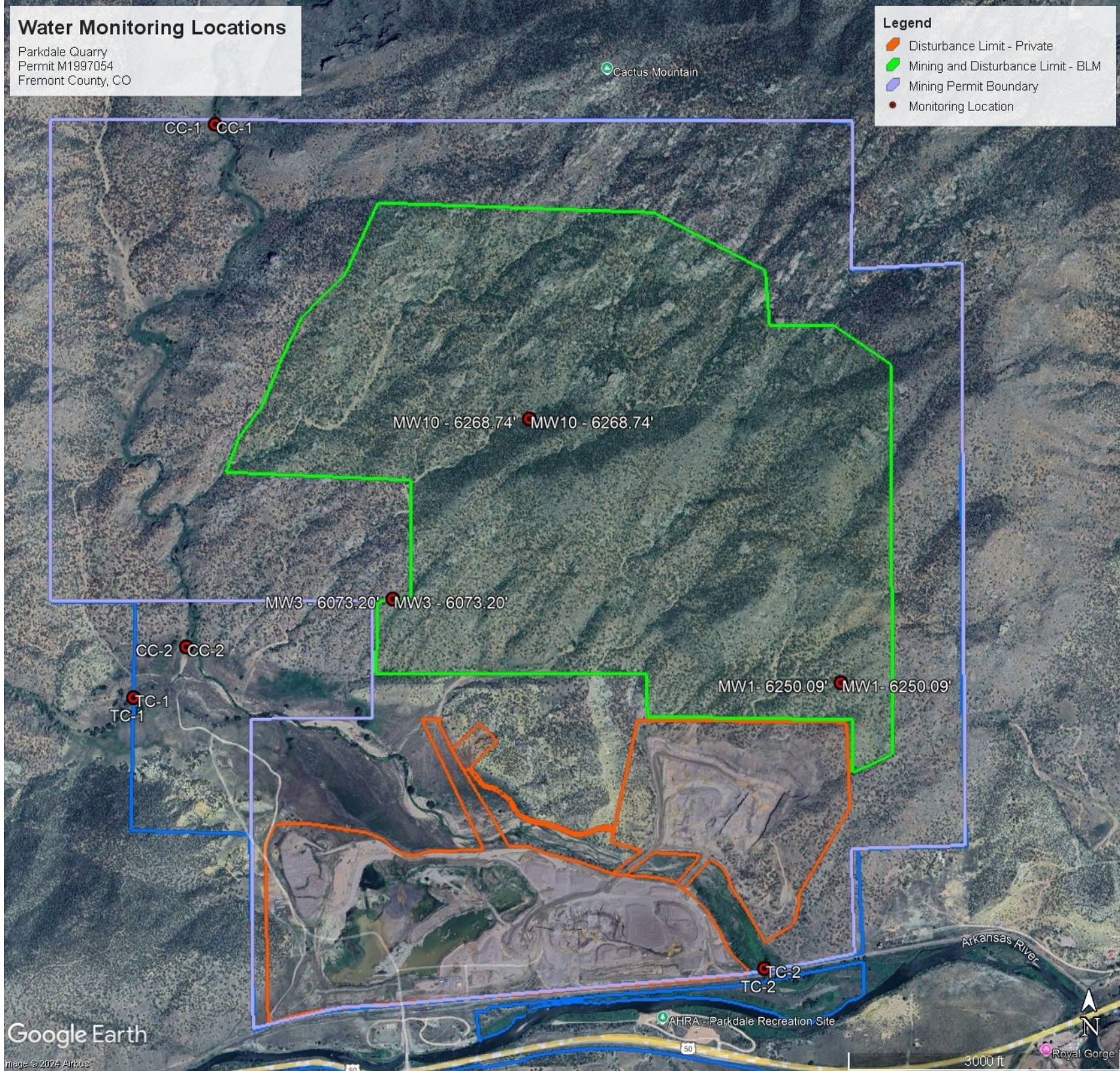
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Water Monitoring Locations

Parkdale Quarry
Permit M1997054
Fremont County, CO

Legend

- Disturbance Limit - Private
- Mining and Disturbance Limit - BLM
- Mining Permit Boundary
- Monitoring Location



Sampling Results for CC-1

			16-Apr-24		24-Sep-24	
Flow during Sampling event?	Yes/No		Yes		Yes	
Parameter	Units	Standard(1)	Result	Calculated Standard	Result	Calculated Standard
Field						
Dissolved Oxygen (DO)	mg/L	>6	10.78		NS	
pH	std units	--	8.77		8.76	
Specific Conductivity (SC)	µS/Cm	--	977.2		773.57	
Temperature (T)	Celsius	--	15.26		19.16	
Turbidity	NTU	--	3.13		1.58	
Solution Paramters, Nonmetals, Major Ions						
Ammonia (NH3)	mg/L	TVS ch (2)	ND	0.694	ND	0.705
Chloride	mg/L	250	75		65	
Fluoride	mg/L	2	0.86		0.94	
Sulfate	mg/L	250	88		72	
Sulfide	mg/L	0.002	ND		ND	
Total Suspended Solids (TSS)	mg/L	--	ND		13	
Nutrients						
Nitrogen, Nitrate	mg/L	10	1		0.85	
Nitrogen, Nitrite	mg/L	0.05	ND		ND	
Dissolved Metals						
Arsenic (As)	mg/L	0.34	0.0009		0.00094	
Cadmium (Cd)	mg/L	0.005	ND		ND	
Calcium	mg/L	--	76		71	
Chromium (Cr)	mg/L	0.05	ND		ND	
Chromium III (Cr 3)	mg/L	0.5	ND		ND	
Chromium VI (Cr 6)	mg/L	0.5	ND		ND	
Copper (Cu)	µg/L	ch(3)	ND	25.093	ND	22.953
Iron (Fe)	mg/L	1	0.027		ND	
Lead (Pb)	mg/L	0.05	ND		ND	
Magnesium	mg/L	--	35		30	
Manganese (Mn)	mg/L	--	ND	0.049	0.0013	0.047
Molybdenum (Mo)	mg/L	150	0.0043		0.0049	
Nickel (Ni)	mg/L	0.1	ND		ND	
Selenium (Se)	mg/L	4.6	0.0058		0.0031	
Silver (Ag)	mg/L	ch(5)	ND	0.597	ND	0.499
Zinc (Zn)	mg/L	ch(6)	ND	362.776	ND	329.944
Oil and Grease (visual)	Yes/No		No		No	
Oil and Grease	mg/L		N/A		N/A	

Notes:

ND = Reported value less than Reporting Limit

NS- Not collected/measured

-- = No Applicable Standard

TVS = Table Value Standard. ☐

ac =acute

ch = chronic

(1) Standards from 5 CCR 1002-31 TABLE II and TABLE III: The referenced water quality standard is the lower of the drinking water standard, human health standard, agricultural standard, or TVS.

(2) TVS (chronic elsp) from 5 CCR 1002-31 TABLE II

(3) Cu chronic standard from 5 CCR 1002-31 TABLE III = $\exp(0.8545 * [\ln(\text{hardness})] - 1.7428)$

(4) Mg chronic standard from 5 CCR 1002-31 TABLE III = $\exp(0.3331 * [\ln(\text{hardness})] + 5.8743)$

(5) Ag chronic trout standard from 5 CCR 1002-31 TABLE III = $\exp(1.72 * [\ln(\text{hardness})] - 10.51)$

(6) Zn chronic standard from 5 CCR 1002-31 TABLE III = $0.986 * \exp((0.9094 * [\ln(\text{hardness})] + 0.6235))$

Hardness = $(\text{Ca} * 2.497) + (\text{Mg} * 4.118)$

Sampling Results for CC-2

Flow during Sampling event?			16-Apr-24		24-Sep-24	
Yes/No			Yes		Yes	
Parameter	Units	Standard(1)	Result	Calculated Standard	Result	Calculated Standard
Field						
Dissolved Oxygen (DO)	mg/L	>6	10.69		NS	
pH	std units	--	8.76		8.81	
Specific Conductivity (SC)	µS/Cm	--	939.06		771.14	
Temperature (T)	Celsius	--	13.75		21.76	
Turbidity	NTU	--	2.16		1.12	
Solution Parameters, Nonmetals, Major Ions						
Ammonia (NH3)	mg/L	TVS ch (2)	ND	0.705	ND	0.651
Chloride	mg/L	250	76		66	
Fluoride	mg/L	2	0.9		0.96	
Sulfate	mg/L	250	92		73	
Sulfide	mg/L	0.002	ND		ND	
Total Suspended Solids (TSS)	mg/L	--	12		2.4	
Nutrients						
Nitrogen, Nitrate	mg/L	10	0.85		0.71	
Nitrogen, Nitrite	mg/L	0.05	ND		ND	
Dissolved Metals						
Arsenic (As)	mg/L	0.34	0.0009		0.00094	
Cadmium (Cd)	mg/L	0.005	ND		ND	
Calcium	mg/L	--	73		71	
Chromium (Cr)	mg/L	0.05	0.0006		ND	
Chromium III (Cr 3)	mg/L	0.5	ND		ND	
Chromium VI (Cr 6)	mg/L	0.5	ND		ND	
Copper (Cu)	µg/L	ch(3)	ND	24.345	ND	22.953
Iron (Fe)	mg/L	1	0.01		ND	
Lead (Pb)	mg/L	0.05	ND		ND	
Magnesium	mg/L	--	34		30	
Manganese (Mn)	mg/L	--	0.0009	0.048	0.0043	0.047
Molybdenum (Mo)	mg/L	150	0.0042		0.0046	
Nickel (Ni)	mg/L	0.1	ND		ND	
Selenium (Se)	mg/L	4.6	0.0045		0.0031	
Silver (Ag)	mg/L	ch(5)	ND	0.562	ND	0.499
Zinc (Zn)	mg/L	ch(6)	ND	351.288	ND	329.944
Oil and Grease (visual)	Yes/No		No		No	
Oil and Grease	mg/L		N/A		N/A	

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Hardness = $(\text{Ca} * 2.497) + (\text{Mg} * 4.118)$

Sampling Results for TC-1

Flow during Sampling event? Yes/No			16-Apr-24		24-Sep-24	
			Yes		No	
Parameter	Units	Standard(1)	Result	Calculated Standard	Result	Calculated Standard
Field						
Dissolved Oxygen (DO)	mg/L	>6	8.62		NS	
pH	std units	--	8.63		NS	
Specific Conductivity (SC)	µS/Cm	--	405.79		NS	
Temperature (T)	Celsius	--	13.32		NS	
Turbidity	NTU	--	0.53		NS	
Solution Paramters, Nonmetals, Major Ions						
Ammonia (NH3)	mg/L	TVS ch (2)	ND	0.875	NS	#VALUE!
Chloride	mg/L	250	11		NS	
Fluoride	mg/L	2	0.53		NS	
Sulfate	mg/L	250	23		NS	
Sulfide	mg/L	0.002	ND		NS	
Total Suspended Solids (TSS)	mg/L	--	ND		NS	
Nutrients						
Nitrogen, Nitrate	mg/L	10	ND		NS	
Nitrogen, Nitrite	mg/L	0.05	ND		NS	
Dissolved Metals						
Arsenic (As)	mg/L	0.34	0.0014		NS	
Cadmium (Cd)	mg/L	0.005	ND		NS	
Calcium	mg/L	--			NS	
Chromium (Cr)	mg/L	0.05	ND		NS	
Chromium III (Cr 3)	mg/L	0.5	ND		NS	
Chromium VI (Cr 6)	mg/L	0.5	ND		NS	
Copper (Cu)	µg/L	ch(3)	ND		NS	
Iron (Fe)	mg/L	1	0.0091		NS	
Lead (Pb)	mg/L	0.05	ND		NS	
Magnesium	mg/L	--			NS	
Manganese (Mn)	mg/L	--	0.00055		NS	
Molybdenum (Mo)	mg/L	150	0.0029		NS	
Nickel (Ni)	mg/L	0.1	ND		NS	
Selenium (Se)	mg/L	4.6	0.001		NS	
Silver (Ag)	mg/L	ch(5)	ND		NS	
Zinc (Zn)	mg/L	ch(6)	ND		NS	
Oil and Grease (visual)	Yes/No		No		NS	
Oil and Grease	mg/L		N/A		NS	

Notes:

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(6) Zn chronic standard from 5 CCR 1002-31 TABLE III = $0.986 \cdot \exp((0.9094 \cdot [\ln(\text{hardness})] + 0.6235))$

Hardness = $(\text{Ca} \cdot 2.497) + (\text{Mg} \cdot 4.118)$

Sampling Results for TC-2

Flow during Sampling event? Yes/No			16-Apr-24		24-Sep-24	
			Yes		Yes	
Parameter	Units	Standard(1)	Result	Calculated Standard	Result	Calculated Standard
Field						
Dissolved Oxygen (DO)	mg/L	>6	8.34		NS	
pH	std units	--	8.35		8.43	
Specific Conductivity (SC)	µS/Cm	--	811.02		712.62	
Temperature (T)	Celsius	--	18.13		22.3	
Turbidity	NTU	--	14.33		13.85	
Solution Paramters, Nonmetals, Major Ions						
Ammonia (NH3)	mg/L	TVS ch (2)	ND	1.403	ND	1.226
Chloride	mg/L	250	62		55	
Fluoride	mg/L	2	0.83		0.91	
Sulfate	mg/L	250	75		63	
Sulfide	mg/L	0.002	0.024		ND	
Total Suspended Solids (TSS)	mg/L	--	11		7.2	
Nutrients						
Nitrogen, Nitrate	mg/L	10	0.27		0.4	
Nitrogen, Nitrite	mg/L	0.05	ND		ND	
Dissolved Metals						
Arsenic (As)	mg/L	0.34	0.0015		0.0013	
Cadmium (Cd)	mg/L	0.005	ND		ND	
Calcium	mg/L	--				
Chromium (Cr)	mg/L	0.05	ND		ND	
Chromium III (Cr 3)	mg/L	0.5	ND		ND	
Chromium VI (Cr 6)	mg/L	0.5	ND		ND	
Copper (Cu)	µg/L	ch(3)	0.00088		ND	
Iron (Fe)	mg/L	1	0.0092		ND	
Lead (Pb)	mg/L	0.05	ND		ND	
Magnesium	mg/L	--				
Manganese (Mn)	mg/L	--	0.00063		0.0010	
Molybdenum (Mo)	mg/L	150	0.0056		0.006	
Nickel (Ni)	mg/L	0.1	ND		ND	
Selenium (Se)	mg/L	4.6	0.0031		0.0018	
Silver (Ag)	mg/L	ch(5)	ND		0.00006	
Zinc (Zn)	mg/L	ch(6)	ND		ND	
Oil and Grease (visual)	Yes/No		No		No	
Oil and Grease	mg/L		N/A		N/A	

Notes:

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Hardness = $(\text{Ca} * 2.497) + (\text{Mg} * 4.118)$

Sampling Results for MW-1

Parameter	Units	Standard(1)	Note	16-Apr-24 Result	24-Sep-24 Result
Field					
pH	std units	6.5-8.5	DWS	7.51	7.69
Corrosivity (as pH)		Noncorrosive	DWS	Noncorrosive	Noncorrosive
Specific Conductivity (SC)	mS/Cm	-	-	552.68	539.39
Temperature (T)	Celsius	-	-	16.29	17.5
Turbidity	NTU	-	-	110.29	NS
Solution Paramters, Nonmetals, Major Ions					
Chloride	mg/L	250	-	7.2	7.2
Fluoride	mg/L	2	A	2.1	2.1
Sulfate	mg/L	250	DWS	84	89
Total Dissolved Solids (TDS)	mg/L	400	Note 2	580	390
Total Suspended Solids (TSS)	mg/L	-	-	92	33
Nutrients					
Nitrogen, Nitrate	mg/L	10	HHS	6.2	6.7
Nitrogen, Nitrite	mg/L	1	HHS	ND	ND
Total Nitrate + Nitrite	mg/L	10	HHS	6.4	6.9
Dissolved Metals					
Aluminum (Al)	mg/L	5	A	0.041	0.038
Antimony (Sb)	mg/L	0.006	HHS	ND	ND
Arsenic (As)	mg/L	0.01	HHS	ND	ND
Barium (Ba)	mg/L	2	HHS	0.011	0.012
Beryllium (Be)	mg/L	0.004	HHS	ND	ND
Boron (B)	mg/L	0.75	A	0.039	0.054
Cadmium (Cd)	mg/L	0.005	HHS	ND	ND
Chromium (Cr)	mg/L	0.1	HHS	ND	ND
Chromium III (Cr 3)	mg/L	0.1	HHS	ND	ND
Chromium VI (Cr 6)	mg/L	0.1	HHS	ND	ND
Cobalt (Co)	mg/L	0.05	A	ND	ND
Copper (Cu)	mg/L	0.2	A	ND	ND
Iron (Fe)	mg/L	0.3	DWS	0.012	0.017
Lead (Pb)	mg/L	0.05	HHS	ND	ND
Lithium (Li)	mg/L	2.5	A	0.013	0.018
Manganese (Mn)	mg/L	0.05	DWS	0.00081	0.00072
Molybdenum (Mo)	mg/L	0.21	HHS	0.017	0.015
Nickel (Ni)	mg/L	0.1	HHS	ND	ND
Selenium (Se)	mg/L	0.02	A	0.0046	0.0041
Silver (Ag)	mg/L	0.05	HHS	ND	0.00005
Thallium (Tl)	mg/L	0.002	HHS	ND	ND
Uranium (U), unspeciati	mg/L	0.0168 to 0.03	HHS	0.018	0.016
Vanadium (V)	mg/L	0.1	A	0.0011	0.0015
Zinc (Zn)	mg/L	2	A	0.0036	ND

NS- Not collected/measured

HHS - Human Health Standard

ND = Reported value less than Reporting Limit

MDC - Minimal Detectable Concentration

A - Agricultural Standard

TVS: Table value standard

DWS - Drinking Water Standard

WS: Water Supply Standard

(1) Standards from 5 CCR 1002-41: The referenced water quality standard is the lower of the drinking water standard, human health standard, agricultural standard, or TVS.

(2) 5 CCR 1002-41, Table 4

Sampling Results for MW-3

				16-Apr-24	24-Sep-24
Parameter	Units	Standard(1)	Note	Result	Result
Field					
pH	std units	6.5-8.5	DWS	7.42	7.87
Corrosivity (as pH)		Noncorrosive	DWS	Noncorrosive	Noncorrosive
Specific Conductivity (SC)	mS/Cm	-	-	403.16	408.27
Temperature (T)	Celsius	-	-	16.1	17.04
Turbidity	NTU	-	-	3.82	NS
Solution Paramters, Nonmetals, Major Ions					
Chloride	mg/L	250	-	3.3	6
Fluoride	mg/L	2	A	1.3	2..2
Sulfate	mg/L	250	DWS	36	54
Total Dissolved Solids (TDS)	mg/L	400	Note 2	250	280
Total Suspended Solids (TSS)	mg/L	-	-	12	12
Nutrients					
Nitrogen, Nitrate	mg/L	10	HHS	2.2	1.8
Nitrogen, Nitrite	mg/L	1	HHS	ND	ND
Total Nitrate + Nitrite	mg/L	10	HHS	2.4	2.3
Dissolved Metals					
Aluminum (Al)	mg/L	5	A	ND	ND
Antimony (Sb)	mg/L	0.006	HHS	ND	0.00066
Arsenic (As)	mg/L	0.01	HHS	ND	ND
Barium (Ba)	mg/L	2	HHS	0.0083	0.007
Beryllium (Be)	mg/L	0.004	HHS	ND	ND
Boron (B)	mg/L	0.75	A	0.032	0.048
Cadmium (Cd)	mg/L	0.005	HHS	ND	ND
Chromium (Cr)	mg/L	0.1	HHS	ND	ND
Chromium III (Cr 3)	mg/L	0.1	HHS	ND	ND
Chromium VI (Cr 6)	mg/L	0.1	HHS	ND	ND
Cobalt (Co)	mg/L	0.05	A	ND	ND
Copper (Cu)	mg/L	0.2	A	0.0021	0.00085
Iron (Fe)	mg/L	0.3	DWS	ND	ND
Lead (Pb)	mg/L	0.05	HHS	ND	ND
Lithium (Li)	mg/L	2.5	A	0.016	0.022
Manganese (Mn)	mg/L	0.05	DWS	0.0013	ND
Molybdenum (Mo)	mg/L	0.21	HHS	0.039	0.02
Nickel (Ni)	mg/L	0.1	HHS	ND	ND
Selenium (Se)	mg/L	0.02	A	0.0015	0.0033
Silver (Ag)	mg/L	0.05	HHS	0.000089	ND
Thallium (Tl)	mg/L	0.002	HHS	ND	ND
Uranium (U), unspeciated	mg/L	0.0168 to 0.03	HHS	0.0096	0.022
Vanadium (V)	mg/L	0.1	A	0.0022	0.0018
Zinc (Zn)	mg/L	2	A	0.0025	0.0043

NS- Not collected/measured

HHS - Human Health Standard

ND = Reported value less than Reporting Limit

MDC - Minimal Detectable Concentration

A - Agricultural Standard

TVS: Table value standard

DWS - Drinking Water Standard

WS: Water Supply Standard

(1) Standards from 5 CCR 1002-41: The referenced water quality standard is the lower of the drinking water standard, human health standard, agricultural standard, or TVS.

(2) 5 CCR 1002-41, Table 4

Sampling Results for MW-10

				16-Apr-24	24-Sep-24
Parameter	Units	Standard(1)	Note	Result	Result
Field					
pH	std units	6.5-8.5	DWS	7.08	7.19
Corrosivity (as pH)		Noncorrosive	DWS	Noncorrosive	Noncorrosive
Specific Conductivity (SC)	mS/Cm	-	-	657.84	636.87
Temperature (T)	Celsius	-	-	13.7	15.98
Turbidity	NTU	-	-	126.78	NS
Solution Paramters, Nonmetals, Major Ions					
Chloride	mg/L	250	-	11	9.1
Fluoride	mg/L	2	A	1.6	1.8
Sulfate	mg/L	250	DWS	130	100
Total Dissolved Solids (TDS)	mg/L	400	Note 2	450	500
Total Suspended Solids (TSS)	mg/L	-	-	310	150
Nutrients					
Nitrogen, Nitrate	mg/L	10	HHS	0.26	0.36
Nitrogen, Nitrite	mg/L	1	HHS	ND	ND
Total Nitrate + Nitrite	mg/L	10	HHS	0.2	0.4
Dissolved Metals					
Aluminum (Al)	mg/L	5	A	0.011	ND
Antimony (Sb)	mg/L	0.006	HHS	ND	ND
Arsenic (As)	mg/L	0.01	HHS	ND	ND
Barium (Ba)	mg/L	2	HHS	0.055	0.064
Beryllium (Be)	mg/L	0.004	HHS	ND	ND
Boron (B)	mg/L	0.75	A	0.025	0.044
Cadmium (Cd)	mg/L	0.005	HHS	ND	ND
Chromium (Cr)	mg/L	0.1	HHS	ND	ND
Chromium III (Cr 3)	mg/L	0.1	HHS	ND	ND
Chromium VI (Cr 6)	mg/L	0.1	HHS	ND	ND
Cobalt (Co)	mg/L	0.05	A	ND	ND
Copper (Cu)	mg/L	0.2	A	0.0035	0.003
Iron (Fe)	mg/L	0.3	DWS	0.0089	ND
Lead (Pb)	mg/L	0.05	HHS	ND	ND
Lithium (Li)	mg/L	2.5	A	0.016	0.028
Manganese (Mn)	mg/L	0.05	DWS	0.0018	0.0011
Molybdenum (Mo)	mg/L	0.21	HHS	0.0048	0.0063
Nickel (Ni)	mg/L	0.1	HHS	ND	ND
Selenium (Se)	mg/L	0.02	A	0.0047	0.0019
Silver (Ag)	mg/L	0.05	HHS	ND	ND
Thallium (Tl)	mg/L	0.002	HHS	ND	ND
Uranium (U), unspeciati	mg/L	0.0168 to 0.03	HHS	0.013	0.016
Vanadium (V)	mg/L	0.1	A	0.0026	0.0027
Zinc (Zn)	mg/L	2	A	0.0065	0.003

NS- Not collected/measured

HHS - Human Health Standard

ND = Reported value less than Reporting Limit /DC - Minimal Detectable Concentration

A - Agricultural Standard

TVS: Table value standard

DWS - Drinking Water Standard

WS: Water Supply Standard

LE - Lab Error/Lab lost samples

(1) Standards from 5 CCR 1002-41: The referenced water quality standard is the lower of the drinking water standard, human health standard, agricultural standard, or TVS.

(2) 5 CCR 1002-41, Table 4

ANALYTICAL REPORT

PREPARED FOR

Attn: Julie Mikulas
Martin Marietta
11252 Aurora Ave.
Des Moines, Iowa 50322
Generated 4/30/2024 10:54:07 AM

JOB DESCRIPTION

Parkdale

JOB NUMBER

280-190228-1

Eurofins Denver

Job Notes

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Authorization



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Definitions/Glossary

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Qualifiers

Metals

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

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: Martin Marietta
Project: Parkdale

Job ID: 280-190228-1

Job ID: 280-190228-1

Eurofins Denver

Job Narrative 280-190228-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 4/17/2024 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.0°C and 2.9°C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

Receipt Exceptions

The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the Hexavalent Chromium analysis within holding time: TC-2 (280-190228-2) and MW-1 (280-190228-5).

Method 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Samples MW-1 (280-190228-5), MW-3 (280-190228-6) and MW-10 (280-190228-7) were analyzed for Metals (ICP) - Dissolved. The samples were prepared on 4/19/2024 and analyzed on 4/23/2024 and 4/24/2024.

Method 200.8 - Metals (ICP/MS) - Dissolved

Samples TC-1 (280-190228-1), TC-2 (280-190228-2), CC-1 (280-190228-3), CC-2 (280-190228-4), MW-1 (280-190228-5), MW-3 (280-190228-6) and MW-10 (280-190228-7) were analyzed for Metals (ICP/MS) - Dissolved. The samples were prepared on 4/19/2024 and 4/23/2024 and analyzed on 4/22/2024, 4/23/2024 and 4/25/2024.

The instrument blank for analytical batch 280-650879 contained 135 ug/L Ca greater than one-half the reporting limit (RL) of 200 ug/L and were not re-analyzed because sample > 10x the blank. The data have been qualified and reported.

Method SM 2540C - Solids, Total Dissolved (TDS)

Samples MW-1 (280-190228-5), MW-3 (280-190228-6) and MW-10 (280-190228-7) were analyzed for Solids, Total Dissolved (TDS). The samples were analyzed on 4/19/2024.

Method SM 2540D - Solids, Total Suspended (TSS)

Samples TC-1 (280-190228-1), TC-2 (280-190228-2), CC-1 (280-190228-3), CC-2 (280-190228-4), MW-1 (280-190228-5), MW-3 (280-190228-6) and MW-10 (280-190228-7) were analyzed for Solids, Total Suspended (TSS). The samples were analyzed on 4/18/2024.

Method 300.0 - Anions, Ion Chromatography

Samples TC-1 (280-190228-1), TC-2 (280-190228-2), CC-1 (280-190228-3), CC-2 (280-190228-4), MW-1 (280-190228-5), MW-3 (280-190228-6) and MW-10 (280-190228-7) were analyzed for Anions, Ion Chromatography. The samples were analyzed on 4/23/2024 and 4/24/2024.

Method 300.0 - Anions, Ion Chromatography

Samples TC-1 (280-190228-1), TC-2 (280-190228-2), CC-1 (280-190228-3), CC-2 (280-190228-4), MW-1 (280-190228-5), MW-3 (280-190228-6) and MW-10 (280-190228-7) were analyzed for Anions, Ion Chromatography. The samples were analyzed on 4/18/2024.

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Case Narrative

Client: Martin Marietta
Project: Parkdale

Job ID: 280-190228-1

Job ID: 280-190228-1 (Continued)

Eurofins Denver

Method 350.1 - Nitrogen, Ammonia

Samples TC-1 (280-190228-1), TC-2 (280-190228-2), CC-1 (280-190228-3) and CC-2 (280-190228-4) were analyzed for Nitrogen, Ammonia. The samples were analyzed on 4/19/2024 and 4/23/2024.

Method SM 3500 CR B - Chromium, Hexavalent - Dissolved

Samples TC-1 (280-190228-1), TC-2 (280-190228-2), CC-1 (280-190228-3), CC-2 (280-190228-4), MW-1 (280-190228-5), MW-3 (280-190228-6) and MW-10 (280-190228-7) were analyzed for Chromium, Hexavalent - Dissolved. The samples were analyzed on 4/17/2024.

The following samples were received with less than 1 hour remaining on the holding time on a test with a holding time of 24 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: TC-2 (280-190228-2) and MW-1 (280-190228-5).

Method 353.2 - Nitrogen, Nitrate-Nitrite

Samples MW-1 (280-190228-5), MW-3 (280-190228-6) and MW-10 (280-190228-7) were analyzed for Nitrogen, Nitrate-Nitrite. The samples were analyzed on 4/25/2024.

Sample MW-1 (280-190228-5)[2x] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method SM3500 CR B - Chromium, Trivalent - Dissolved

Samples TC-1 (280-190228-1), TC-2 (280-190228-2), CC-1 (280-190228-3), CC-2 (280-190228-4), MW-1 (280-190228-5), MW-3 (280-190228-6) and MW-10 (280-190228-7) were analyzed for Chromium, Trivalent - Dissolved. The samples were analyzed on 4/29/2024.

Method SM 4500 Cl- E - Chloride, Total

Samples TC-1 (280-190228-1), TC-2 (280-190228-2), CC-1 (280-190228-3), CC-2 (280-190228-4), MW-1 (280-190228-5), MW-3 (280-190228-6) and MW-10 (280-190228-7) were analyzed for Chloride, Total. The samples were analyzed on 4/18/2024 and 4/23/2024.

Samples TC-2 (280-190228-2)[2x], CC-1 (280-190228-3)[2x] and CC-2 (280-190228-4)[2x] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method SM 4500 H+ B - pH

Samples MW-1 (280-190228-5), MW-3 (280-190228-6) and MW-10 (280-190228-7) were analyzed for pH. The samples were analyzed on 4/22/2024.

Sample MW-1 (280-190228-5) did not equilibrate to within 0.05 pH units after three measurements but its duplicate did; therefore, the samples were not rerun.

Method SM 4500 S2 D - Sulfide, Total

Samples TC-1 (280-190228-1), TC-2 (280-190228-2), CC-1 (280-190228-3) and CC-2 (280-190228-4) were analyzed for Sulfide, Total. The samples were analyzed on 4/22/2024.

The matrix spike and matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 280-650481 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample and laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method SM 4500 SO4 E - Sulfate, Total

Samples TC-1 (280-190228-1), TC-2 (280-190228-2), CC-1 (280-190228-3), CC-2 (280-190228-4), MW-1 (280-190228-5), MW-3 (280-190228-6) and MW-10 (280-190228-7) were analyzed for Sulfate, Total. The samples were analyzed on 4/18/2024.

Samples TC-2 (280-190228-2)[2x], CC-1 (280-190228-3)[4x], CC-2 (280-190228-4)[4x], MW-1 (280-190228-5)[4x] and MW-10 (280-190228-7)[4x] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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Detection Summary

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Client Sample ID: TC-1

Lab Sample ID: 280-190228-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.4	J	5.0	0.50	ug/L	1		200.8	Dissolved
Manganese	0.55	J	3.0	0.51	ug/L	1		200.8	Dissolved
Molybdenum	2.9		2.0	0.37	ug/L	1		200.8	Dissolved
Selenium	1.0	J	5.0	1.0	ug/L	1		200.8	Dissolved
Iron	9.1	J	200	8.7	ug/L	1		200.8	Dissolved
Fluoride	0.53		0.50	0.17	mg/L	1		300.0	Total/NA
Chloride	11		2.0	0.68	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	23		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: TC-2

Lab Sample ID: 280-190228-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.5	J	5.0	0.50	ug/L	1		200.8	Dissolved
Copper	0.88	J	2.0	0.71	ug/L	1		200.8	Dissolved
Manganese	0.63	J	3.0	0.51	ug/L	1		200.8	Dissolved
Molybdenum	5.6		2.0	0.37	ug/L	1		200.8	Dissolved
Selenium	3.1	J	5.0	1.0	ug/L	1		200.8	Dissolved
Iron	9.2	J	200	8.7	ug/L	1		200.8	Dissolved
Fluoride	0.83		0.50	0.17	mg/L	1		300.0	Total/NA
Nitrate as N	0.27	J	0.50	0.090	mg/L	1		300.0	Total/NA
Total Suspended Solids	11		4.0	1.1	mg/L	1		SM 2540D	Total/NA
Chloride	62		4.0	1.4	mg/L	2		SM 4500 Cl- E	Total/NA
Sulfide	0.024	J	0.050	0.022	mg/L	1		SM 4500 S2 D	Total/NA
Sulfate	75		10	1.4	mg/L	2		SM 4500 SO4 E	Total/NA

Client Sample ID: CC-1

Lab Sample ID: 280-190228-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.92	J	5.0	0.50	ug/L	1		200.8	Dissolved
Molybdenum	4.3		2.0	0.37	ug/L	1		200.8	Dissolved
Selenium	5.8		5.0	1.0	ug/L	1		200.8	Dissolved
Iron	27	J	200	8.7	ug/L	1		200.8	Dissolved
Calcium	76000		200	32	ug/L	1		200.8	Dissolved
Magnesium	35000		200	4.2	ug/L	1		200.8	Dissolved
Fluoride	0.86		0.50	0.17	mg/L	1		300.0	Total/NA
Nitrate as N	1.0		0.50	0.090	mg/L	1		300.0	Total/NA
Chloride	75		4.0	1.4	mg/L	2		SM 4500 Cl- E	Total/NA
Sulfate	88		20	2.8	mg/L	4		SM 4500 SO4 E	Total/NA
Hexavalent chromium	0.011	J	0.020	0.0040	mg/L	1		SM 3500 CR B	Dissolved

Client Sample ID: CC-2

Lab Sample ID: 280-190228-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.93	J	5.0	0.50	ug/L	1		200.8	Dissolved
Chromium	0.61	J	3.0	0.50	ug/L	1		200.8	Dissolved
Manganese	0.87	J	3.0	0.51	ug/L	1		200.8	Dissolved
Molybdenum	4.2		2.0	0.37	ug/L	1		200.8	Dissolved
Selenium	4.5	J	5.0	1.0	ug/L	1		200.8	Dissolved
Iron	10	J	200	8.7	ug/L	1		200.8	Dissolved
Calcium	73000		200	32	ug/L	1		200.8	Dissolved
Magnesium	34000		200	4.2	ug/L	1		200.8	Dissolved
Fluoride	0.90		0.50	0.17	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Client Sample ID: CC-2 (Continued)

Lab Sample ID: 280-190228-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	0.85		0.50	0.090	mg/L	1		300.0	Total/NA
Total Suspended Solids	12		4.0	1.1	mg/L	1		SM 2540D	Total/NA
Chloride	76		4.0	1.4	mg/L	2		SM 4500 Cl- E	Total/NA
Sulfate	92		20	2.8	mg/L	4		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-1

Lab Sample ID: 280-190228-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	39	J	100	1.5	ug/L	1		200.7 Rev 4.4	Dissolved
Lithium	13	J	20	9.1	ug/L	1		200.7 Rev 4.4	Dissolved
Barium	11		3.0	0.38	ug/L	1		200.8	Dissolved
Manganese	0.81	J	3.0	0.51	ug/L	1		200.8	Dissolved
Molybdenum	17		2.0	0.37	ug/L	1		200.8	Dissolved
Selenium	4.6	J	5.0	1.0	ug/L	1		200.8	Dissolved
Uranium	18		1.0	0.030	ug/L	1		200.8	Dissolved
Vanadium	1.1	J	5.0	1.1	ug/L	1		200.8	Dissolved
Zinc	3.6	J	10	2.0	ug/L	1		200.8	Dissolved
Aluminum	41	J	200	8.3	ug/L	1		200.8	Dissolved
Iron	12	J	200	8.7	ug/L	1		200.8	Dissolved
Fluoride	2.1		0.50	0.17	mg/L	1		300.0	Total/NA
Nitrate as N	6.2		0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	6.4		0.20	0.088	mg/L	2		353.2	Total/NA
Total Dissolved Solids (TDS)	580		10	4.7	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	92		4.0	1.1	mg/L	1		SM 2540D	Total/NA
Chloride	7.2		2.0	0.68	mg/L	1		SM 4500 Cl- E	Total/NA
pH adj. to 25 deg C	7.4	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	21.9	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Sulfate	84		20	2.8	mg/L	4		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 280-190228-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	32	J	100	1.5	ug/L	1		200.7 Rev 4.4	Dissolved
Lithium	16	J	20	9.1	ug/L	1		200.7 Rev 4.4	Dissolved
Barium	8.3		3.0	0.38	ug/L	1		200.8	Dissolved
Copper	2.1		2.0	0.71	ug/L	1		200.8	Dissolved
Manganese	1.3	J	3.0	0.51	ug/L	1		200.8	Dissolved
Molybdenum	39		2.0	0.37	ug/L	1		200.8	Dissolved
Selenium	1.5	J	5.0	1.0	ug/L	1		200.8	Dissolved
Silver	0.089	J	1.0	0.045	ug/L	1		200.8	Dissolved
Uranium	9.6		1.0	0.030	ug/L	1		200.8	Dissolved
Vanadium	2.2	J	5.0	1.1	ug/L	1		200.8	Dissolved
Zinc	2.5	J	10	2.0	ug/L	1		200.8	Dissolved
Fluoride	1.3		0.50	0.17	mg/L	1		300.0	Total/NA
Nitrate as N	2.2		0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	2.4		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	250		10	4.7	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	12		4.0	1.1	mg/L	1		SM 2540D	Total/NA
Chloride	3.3		2.0	0.68	mg/L	1		SM 4500 Cl- E	Total/NA
pH adj. to 25 deg C	7.7	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	21.6	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Sulfate	36		5.0	0.71	mg/L	1		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Client Sample ID: MW-10

Lab Sample ID: 280-190228-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	25	J	100	1.5	ug/L	1		200.7 Rev 4.4	Dissolved
Lithium	16	J	20	9.1	ug/L	1		200.7 Rev 4.4	Dissolved
Barium	55		3.0	0.38	ug/L	1		200.8	Dissolved
Copper	3.5		2.0	0.71	ug/L	1		200.8	Dissolved
Manganese	1.8	J	3.0	0.51	ug/L	1		200.8	Dissolved
Molybdenum	4.8		2.0	0.37	ug/L	1		200.8	Dissolved
Selenium	4.7	J	5.0	1.0	ug/L	1		200.8	Dissolved
Uranium	13		1.0	0.030	ug/L	1		200.8	Dissolved
Vanadium	2.6	J	5.0	1.1	ug/L	1		200.8	Dissolved
Zinc	6.5	J	10	2.0	ug/L	1		200.8	Dissolved
Aluminum	11	J	200	8.3	ug/L	1		200.8	Dissolved
Iron	8.9	J	200	8.7	ug/L	1		200.8	Dissolved
Fluoride	1.6		0.50	0.17	mg/L	1		300.0	Total/NA
Nitrate as N	0.26	J	0.50	0.090	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.20		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	450		10	4.7	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	310		4.0	1.1	mg/L	1		SM 2540D	Total/NA
Chloride	11		2.0	0.68	mg/L	1		SM 4500 Cl- E	Total/NA
pH adj. to 25 deg C	7.3	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	20.5	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Sulfate	130		20	2.8	mg/L	4		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	EET DEN
200.8	Metals (ICP/MS)	EPA	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
350.1	Nitrogen, Ammonia	EPA	EET DEN
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
SM 3500 CR B	Chromium, Hexavalent	SM	EET DEN
SM 4500 Cl- E	Chloride, Total	SM	EET DEN
SM 4500 H+ B	pH	SM	EET DEN
SM 4500 S2 D	Sulfide, Total	SM	EET DEN
SM 4500 SO4 E	Sulfate, Total	SM	EET DEN
SM3500 CR B	Chromium, Trivalent	SM	EET DEN
200.7	Preparation, Total Recoverable Metals	EPA	EET DEN
200.8	Preparation, Total Recoverable Metals	EPA	EET DEN
FILTRATION	Sample Filtration	None	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-190228-1	TC-1	Water	04/16/24 13:41	04/17/24 09:30
280-190228-2	TC-2	Water	04/16/24 11:15	04/17/24 09:30
280-190228-3	CC-1	Water	04/16/24 14:45	04/17/24 09:30
280-190228-4	CC-2	Water	04/16/24 13:55	04/17/24 09:30
280-190228-5	MW-1	Water	04/16/24 10:32	04/17/24 09:30
280-190228-6	MW-3	Water	04/16/24 12:45	04/17/24 09:30
280-190228-7	MW-10	Water	04/16/24 16:12	04/17/24 09:30

Client Sample Results

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Client Sample ID: MW-1
Date Collected: 04/16/24 10:32
Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	39	J	100	1.5	ug/L		04/19/24 18:58	04/23/24 23:17	1
Lithium	13	J	20	9.1	ug/L		04/19/24 18:58	04/24/24 17:29	1

Client Sample ID: MW-3
Date Collected: 04/16/24 12:45
Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	32	J	100	1.5	ug/L		04/19/24 18:58	04/23/24 23:21	1
Lithium	16	J	20	9.1	ug/L		04/19/24 18:58	04/24/24 17:33	1

Client Sample ID: MW-10
Date Collected: 04/16/24 16:12
Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	25	J	100	1.5	ug/L		04/19/24 18:58	04/23/24 23:25	1
Lithium	16	J	20	9.1	ug/L		04/19/24 18:58	04/24/24 17:37	1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

Client Sample ID: TC-1
Date Collected: 04/16/24 13:41
Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.4	J	5.0	0.50	ug/L		04/23/24 18:11	04/25/24 01:24	1
Cadmium	ND		1.0	0.19	ug/L		04/23/24 18:11	04/25/24 01:24	1
Chromium	ND		3.0	0.50	ug/L		04/23/24 18:11	04/25/24 01:24	1
Copper	ND		2.0	0.71	ug/L		04/23/24 18:11	04/25/24 01:24	1
Lead	ND		1.0	0.23	ug/L		04/23/24 18:11	04/25/24 01:24	1
Manganese	0.55	J	3.0	0.51	ug/L		04/23/24 18:11	04/25/24 23:04	1
Molybdenum	2.9		2.0	0.37	ug/L		04/23/24 18:11	04/25/24 01:24	1
Nickel	ND		3.0	0.83	ug/L		04/23/24 18:11	04/25/24 01:24	1
Selenium	1.0	J	5.0	1.0	ug/L		04/23/24 18:11	04/25/24 23:04	1
Silver	ND		1.0	0.045	ug/L		04/23/24 18:11	04/25/24 01:24	1
Zinc	ND		10	2.0	ug/L		04/23/24 18:11	04/25/24 01:24	1
Iron	9.1	J	200	8.7	ug/L		04/23/24 18:11	04/25/24 01:24	1

Client Sample ID: TC-2
Date Collected: 04/16/24 11:15
Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.5	J	5.0	0.50	ug/L		04/23/24 18:11	04/25/24 01:28	1
Cadmium	ND		1.0	0.19	ug/L		04/23/24 18:11	04/25/24 01:28	1
Chromium	ND		3.0	0.50	ug/L		04/23/24 18:11	04/25/24 01:28	1
Copper	0.88	J	2.0	0.71	ug/L		04/23/24 18:11	04/25/24 01:28	1
Lead	ND		1.0	0.23	ug/L		04/23/24 18:11	04/25/24 01:28	1
Manganese	0.63	J	3.0	0.51	ug/L		04/23/24 18:11	04/25/24 23:08	1
Molybdenum	5.6		2.0	0.37	ug/L		04/23/24 18:11	04/25/24 01:28	1
Nickel	ND		3.0	0.83	ug/L		04/23/24 18:11	04/25/24 01:28	1
Selenium	3.1	J	5.0	1.0	ug/L		04/23/24 18:11	04/25/24 23:08	1
Silver	ND		1.0	0.045	ug/L		04/23/24 18:11	04/25/24 01:28	1
Zinc	ND		10	2.0	ug/L		04/23/24 18:11	04/25/24 01:28	1

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Client Sample Results

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved (Continued)

Client Sample ID: TC-2
Date Collected: 04/16/24 11:15
Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	9.2	J	200	8.7	ug/L		04/23/24 18:11	04/25/24 01:28	1

Client Sample ID: CC-1
Date Collected: 04/16/24 14:45
Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.92	J	5.0	0.50	ug/L		04/23/24 18:11	04/25/24 01:32	1
Cadmium	ND		1.0	0.19	ug/L		04/23/24 18:11	04/25/24 01:32	1
Chromium	ND		3.0	0.50	ug/L		04/23/24 18:11	04/25/24 01:32	1
Copper	ND		2.0	0.71	ug/L		04/23/24 18:11	04/25/24 01:32	1
Lead	ND		1.0	0.23	ug/L		04/23/24 18:11	04/25/24 01:32	1
Manganese	ND		3.0	0.51	ug/L		04/23/24 18:11	04/25/24 23:11	1
Molybdenum	4.3		2.0	0.37	ug/L		04/23/24 18:11	04/25/24 01:32	1
Nickel	ND		3.0	0.83	ug/L		04/23/24 18:11	04/25/24 01:32	1
Selenium	5.8		5.0	1.0	ug/L		04/23/24 18:11	04/25/24 23:11	1
Silver	ND		1.0	0.045	ug/L		04/23/24 18:11	04/25/24 01:32	1
Zinc	ND		10	2.0	ug/L		04/23/24 18:11	04/25/24 01:32	1
Iron	27	J	200	8.7	ug/L		04/23/24 18:11	04/25/24 01:32	1
Calcium	76000		200	32	ug/L		04/23/24 18:11	04/25/24 01:32	1
Magnesium	35000		200	4.2	ug/L		04/23/24 18:11	04/25/24 23:11	1

Client Sample ID: CC-2
Date Collected: 04/16/24 13:55
Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.93	J	5.0	0.50	ug/L		04/23/24 18:11	04/25/24 01:42	1
Cadmium	ND		1.0	0.19	ug/L		04/23/24 18:11	04/25/24 01:42	1
Chromium	0.61	J	3.0	0.50	ug/L		04/23/24 18:11	04/25/24 01:42	1
Copper	ND		2.0	0.71	ug/L		04/23/24 18:11	04/25/24 01:42	1
Lead	ND		1.0	0.23	ug/L		04/23/24 18:11	04/25/24 01:42	1
Manganese	0.87	J	3.0	0.51	ug/L		04/23/24 18:11	04/25/24 23:15	1
Molybdenum	4.2		2.0	0.37	ug/L		04/23/24 18:11	04/25/24 01:42	1
Nickel	ND		3.0	0.83	ug/L		04/23/24 18:11	04/25/24 01:42	1
Selenium	4.5	J	5.0	1.0	ug/L		04/23/24 18:11	04/25/24 23:15	1
Silver	ND		1.0	0.045	ug/L		04/23/24 18:11	04/25/24 01:42	1
Zinc	ND		10	2.0	ug/L		04/23/24 18:11	04/25/24 01:42	1
Iron	10	J	200	8.7	ug/L		04/23/24 18:11	04/25/24 01:42	1
Calcium	73000		200	32	ug/L		04/23/24 18:11	04/25/24 01:42	1
Magnesium	34000		200	4.2	ug/L		04/23/24 18:11	04/25/24 23:15	1

Client Sample ID: MW-1
Date Collected: 04/16/24 10:32
Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.40	ug/L		04/19/24 18:58	04/22/24 19:04	1
Arsenic	ND		5.0	0.50	ug/L		04/19/24 18:58	04/22/24 19:04	1
Barium	11		3.0	0.38	ug/L		04/19/24 18:58	04/23/24 11:25	1
Beryllium	ND		1.0	0.30	ug/L		04/19/24 18:58	04/23/24 11:25	1
Cadmium	ND		1.0	0.19	ug/L		04/19/24 18:58	04/23/24 11:25	1
Chromium	ND		3.0	0.50	ug/L		04/19/24 18:58	04/22/24 19:04	1

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Client Sample Results

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved (Continued)

Client Sample ID: MW-1
Date Collected: 04/16/24 10:32
Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	ND		1.0	0.33	ug/L		04/19/24 18:58	04/23/24 11:25	1
Copper	ND		2.0	0.71	ug/L		04/19/24 18:58	04/23/24 11:25	1
Lead	ND		1.0	0.23	ug/L		04/19/24 18:58	04/23/24 11:25	1
Manganese	0.81	J	3.0	0.51	ug/L		04/19/24 18:58	04/23/24 11:25	1
Molybdenum	17		2.0	0.37	ug/L		04/19/24 18:58	04/22/24 19:04	1
Nickel	ND		3.0	0.83	ug/L		04/19/24 18:58	04/22/24 19:04	1
Selenium	4.6	J	5.0	1.0	ug/L		04/19/24 18:58	04/22/24 19:04	1
Silver	ND		1.0	0.045	ug/L		04/19/24 18:58	04/22/24 19:04	1
Thallium	ND		1.0	0.21	ug/L		04/19/24 18:58	04/23/24 11:25	1
Uranium	18		1.0	0.030	ug/L		04/19/24 18:58	04/23/24 11:25	1
Vanadium	1.1	J	5.0	1.1	ug/L		04/19/24 18:58	04/22/24 19:04	1
Zinc	3.6	J	10	2.0	ug/L		04/19/24 18:58	04/23/24 11:25	1
Aluminum	41	J	200	8.3	ug/L		04/19/24 18:58	04/23/24 11:25	1
Iron	12	J	200	8.7	ug/L		04/19/24 18:58	04/22/24 19:04	1

Client Sample ID: MW-3
Date Collected: 04/16/24 12:45
Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.40	ug/L		04/19/24 18:58	04/22/24 19:11	1
Arsenic	ND		5.0	0.50	ug/L		04/19/24 18:58	04/22/24 19:11	1
Barium	8.3		3.0	0.38	ug/L		04/19/24 18:58	04/23/24 11:28	1
Beryllium	ND		1.0	0.30	ug/L		04/19/24 18:58	04/23/24 11:28	1
Cadmium	ND		1.0	0.19	ug/L		04/19/24 18:58	04/23/24 11:28	1
Chromium	ND		3.0	0.50	ug/L		04/19/24 18:58	04/22/24 19:11	1
Cobalt	ND		1.0	0.33	ug/L		04/19/24 18:58	04/23/24 11:28	1
Copper	2.1		2.0	0.71	ug/L		04/19/24 18:58	04/23/24 11:28	1
Lead	ND		1.0	0.23	ug/L		04/19/24 18:58	04/23/24 11:28	1
Manganese	1.3	J	3.0	0.51	ug/L		04/19/24 18:58	04/23/24 11:28	1
Molybdenum	39		2.0	0.37	ug/L		04/19/24 18:58	04/22/24 19:11	1
Nickel	ND		3.0	0.83	ug/L		04/19/24 18:58	04/22/24 19:11	1
Selenium	1.5	J	5.0	1.0	ug/L		04/19/24 18:58	04/22/24 19:11	1
Silver	0.089	J	1.0	0.045	ug/L		04/19/24 18:58	04/22/24 19:11	1
Thallium	ND		1.0	0.21	ug/L		04/19/24 18:58	04/23/24 11:28	1
Uranium	9.6		1.0	0.030	ug/L		04/19/24 18:58	04/23/24 11:28	1
Vanadium	2.2	J	5.0	1.1	ug/L		04/19/24 18:58	04/22/24 19:11	1
Zinc	2.5	J	10	2.0	ug/L		04/19/24 18:58	04/23/24 11:28	1
Aluminum	ND		200	8.3	ug/L		04/19/24 18:58	04/23/24 11:28	1
Iron	ND		200	8.7	ug/L		04/19/24 18:58	04/22/24 19:11	1

Client Sample ID: MW-10
Date Collected: 04/16/24 16:12
Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.40	ug/L		04/19/24 18:58	04/22/24 19:13	1
Arsenic	ND		5.0	0.50	ug/L		04/19/24 18:58	04/22/24 19:13	1
Barium	55		3.0	0.38	ug/L		04/19/24 18:58	04/23/24 11:30	1
Beryllium	ND		1.0	0.30	ug/L		04/19/24 18:58	04/23/24 11:30	1
Cadmium	ND		1.0	0.19	ug/L		04/19/24 18:58	04/23/24 11:30	1
Chromium	ND		3.0	0.50	ug/L		04/19/24 18:58	04/22/24 19:13	1

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Client Sample Results

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved (Continued)

Client Sample ID: MW-10
Date Collected: 04/16/24 16:12
Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	ND		1.0	0.33	ug/L		04/19/24 18:58	04/23/24 11:30	1
Copper	3.5		2.0	0.71	ug/L		04/19/24 18:58	04/23/24 11:30	1
Lead	ND		1.0	0.23	ug/L		04/19/24 18:58	04/23/24 11:30	1
Manganese	1.8	J	3.0	0.51	ug/L		04/19/24 18:58	04/23/24 11:30	1
Molybdenum	4.8		2.0	0.37	ug/L		04/19/24 18:58	04/22/24 19:13	1
Nickel	ND		3.0	0.83	ug/L		04/19/24 18:58	04/22/24 19:13	1
Selenium	4.7	J	5.0	1.0	ug/L		04/19/24 18:58	04/22/24 19:13	1
Silver	ND		1.0	0.045	ug/L		04/19/24 18:58	04/22/24 19:13	1
Thallium	ND		1.0	0.21	ug/L		04/19/24 18:58	04/23/24 11:30	1
Uranium	13		1.0	0.030	ug/L		04/19/24 18:58	04/23/24 11:30	1
Vanadium	2.6	J	5.0	1.1	ug/L		04/19/24 18:58	04/22/24 19:13	1
Zinc	6.5	J	10	2.0	ug/L		04/19/24 18:58	04/23/24 11:30	1
Aluminum	11	J	200	8.3	ug/L		04/19/24 18:58	04/23/24 11:30	1
Iron	8.9	J	200	8.7	ug/L		04/19/24 18:58	04/22/24 19:13	1

General Chemistry

Client Sample ID: TC-1
Date Collected: 04/16/24 13:41
Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	0.53		0.50	0.17	mg/L			04/23/24 17:04	1
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			04/18/24 07:31	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			04/18/24 07:31	1
Ammonia as N (EPA 350.1)	ND		0.10	0.029	mg/L			04/19/24 14:29	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			04/18/24 16:39	1
Chloride (SM 4500 Cl- E)	11		2.0	0.68	mg/L			04/18/24 15:57	1
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			04/22/24 14:12	1
Sulfate (SM 4500 SO4 E)	23		5.0	0.71	mg/L			04/18/24 16:50	1

Client Sample ID: TC-2
Date Collected: 04/16/24 11:15
Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	0.83		0.50	0.17	mg/L			04/23/24 23:39	1
Nitrate as N (EPA 300.0)	0.27	J	0.50	0.090	mg/L			04/18/24 03:16	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			04/18/24 03:16	1
Ammonia as N (EPA 350.1)	ND		0.10	0.029	mg/L			04/19/24 14:31	1
Total Suspended Solids (SM 2540D)	11		4.0	1.1	mg/L			04/18/24 16:39	1
Chloride (SM 4500 Cl- E)	62		4.0	1.4	mg/L			04/18/24 15:57	2
Sulfide (SM 4500 S2 D)	0.024	J	0.050	0.022	mg/L			04/22/24 14:12	1
Sulfate (SM 4500 SO4 E)	75		10	1.4	mg/L			04/18/24 16:51	2

Client Sample ID: CC-1
Date Collected: 04/16/24 14:45
Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	0.86		0.50	0.17	mg/L			04/23/24 19:48	1
Nitrate as N (EPA 300.0)	1.0		0.50	0.090	mg/L			04/18/24 09:47	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			04/18/24 09:47	1

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Client Sample Results

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

General Chemistry (Continued)

Client Sample ID: CC-1

Date Collected: 04/16/24 14:45

Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	ND		0.10	0.029	mg/L			04/19/24 14:33	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			04/18/24 16:39	1
Chloride (SM 4500 Cl- E)	75		4.0	1.4	mg/L			04/18/24 15:57	2
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			04/22/24 14:11	1
Sulfate (SM 4500 SO4 E)	88		20	2.8	mg/L			04/18/24 16:52	4

Client Sample ID: CC-2

Date Collected: 04/16/24 13:55

Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	0.90		0.50	0.17	mg/L			04/24/24 00:01	1
Nitrate as N (EPA 300.0)	0.85		0.50	0.090	mg/L			04/18/24 08:22	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			04/18/24 08:22	1
Ammonia as N (EPA 350.1)	ND		0.10	0.029	mg/L			04/23/24 14:19	1
Total Suspended Solids (SM 2540D)	12		4.0	1.1	mg/L			04/18/24 16:39	1
Chloride (SM 4500 Cl- E)	76		4.0	1.4	mg/L			04/18/24 15:58	2
Sulfide (SM 4500 S2 D)	ND	F1 F2	0.050	0.022	mg/L			04/22/24 14:10	1
Sulfate (SM 4500 SO4 E)	92		20	2.8	mg/L			04/18/24 16:52	4

Client Sample ID: MW-1

Date Collected: 04/16/24 10:32

Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	2.1		0.50	0.17	mg/L			04/23/24 19:59	1
Nitrate as N (EPA 300.0)	6.2		0.50	0.090	mg/L			04/18/24 01:00	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			04/18/24 01:00	1
Nitrate Nitrite as N (EPA 353.2)	6.4		0.20	0.088	mg/L			04/25/24 18:27	2
Total Dissolved Solids (TDS) (SM 2540C)	580		10	4.7	mg/L			04/19/24 11:03	1
Total Suspended Solids (SM 2540D)	92		4.0	1.1	mg/L			04/18/24 16:39	1
Chloride (SM 4500 Cl- E)	7.2		2.0	0.68	mg/L			04/18/24 15:58	1
pH adj. to 25 deg C (SM 4500 H+ B)	7.4	HF	0.1	0.1	SU			04/22/24 20:52	1
Temperature (SM 4500 H+ B)	21.9	HF	1.0	1.0	Degrees C			04/22/24 20:52	1
Sulfate (SM 4500 SO4 E)	84		20	2.8	mg/L			04/18/24 16:52	4

Client Sample ID: MW-3

Date Collected: 04/16/24 12:45

Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	1.3		0.50	0.17	mg/L			04/23/24 19:37	1
Nitrate as N (EPA 300.0)	2.2		0.50	0.090	mg/L			04/18/24 05:32	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			04/18/24 05:32	1
Nitrate Nitrite as N (EPA 353.2)	2.4		0.10	0.044	mg/L			04/25/24 18:29	1
Total Dissolved Solids (TDS) (SM 2540C)	250		10	4.7	mg/L			04/19/24 11:03	1
Total Suspended Solids (SM 2540D)	12		4.0	1.1	mg/L			04/18/24 16:39	1
Chloride (SM 4500 Cl- E)	3.3		2.0	0.68	mg/L			04/18/24 16:22	1
pH adj. to 25 deg C (SM 4500 H+ B)	7.7	HF	0.1	0.1	SU			04/22/24 20:08	1

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Client Sample Results

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

General Chemistry (Continued)

Client Sample ID: MW-3
Date Collected: 04/16/24 12:45
Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Temperature (SM 4500 H+ B)	21.6	HF	1.0	1.0	Degrees C			04/22/24 20:08	1
Sulfate (SM 4500 SO4 E)	36		5.0	0.71	mg/L			04/18/24 16:52	1

Client Sample ID: MW-10
Date Collected: 04/16/24 16:12
Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	1.6		0.50	0.17	mg/L			04/23/24 23:50	1
Nitrate as N (EPA 300.0)	0.26	J	0.50	0.090	mg/L			04/18/24 10:55	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			04/18/24 10:55	1
Nitrate Nitrite as N (EPA 353.2)	0.20		0.10	0.044	mg/L			04/25/24 18:31	1
Total Dissolved Solids (TDS) (SM 2540C)	450		10	4.7	mg/L			04/19/24 11:03	1
Total Suspended Solids (SM 2540D)	310		4.0	1.1	mg/L			04/18/24 16:39	1
Chloride (SM 4500 Cl- E)	11		2.0	0.68	mg/L			04/18/24 15:58	1
pH adj. to 25 deg C (SM 4500 H+ B)	7.3	HF	0.1	0.1	SU			04/22/24 20:16	1
Temperature (SM 4500 H+ B)	20.5	HF	1.0	1.0	Degrees C			04/22/24 20:16	1
Sulfate (SM 4500 SO4 E)	130		20	2.8	mg/L			04/18/24 16:53	4

General Chemistry - Dissolved

Client Sample ID: TC-1
Date Collected: 04/16/24 13:41
Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium (SM 3500 CR B)	ND		0.020	0.0040	mg/L			04/17/24 11:44	1
Trivalent Chromium (SM3500 CR B)	ND		20	20	ug/L			04/29/24 18:54	1
Chromium (SM3500 CR B)	ND		20	20	ug/L			04/29/24 18:54	1
Hexavalent chromium (SM3500 CR B)	ND		20	20	ug/L			04/29/24 18:54	1

Client Sample ID: TC-2
Date Collected: 04/16/24 11:15
Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium (SM 3500 CR B)	ND	H	0.020	0.0040	mg/L			04/17/24 11:49	1
Trivalent Chromium (SM3500 CR B)	ND		20	20	ug/L			04/29/24 18:54	1
Chromium (SM3500 CR B)	ND		20	20	ug/L			04/29/24 18:54	1
Hexavalent chromium (SM3500 CR B)	ND		20	20	ug/L			04/29/24 18:54	1

Client Sample ID: CC-1
Date Collected: 04/16/24 14:45
Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium (SM 3500 CR B)	0.011	J	0.020	0.0040	mg/L			04/17/24 11:50	1
Trivalent Chromium (SM3500 CR B)	ND		20	20	ug/L			04/29/24 18:54	1
Chromium (SM3500 CR B)	ND		20	20	ug/L			04/29/24 18:54	1
Hexavalent chromium (SM3500 CR B)	ND		20	20	ug/L			04/29/24 18:54	1

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Client Sample Results

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

General Chemistry - Dissolved

Client Sample ID: CC-2
Date Collected: 04/16/24 13:55
Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium (SM 3500 CR B)	ND		0.020	0.0040	mg/L			04/17/24 11:52	1
Trivalent Chromium (SM3500 CR B)	ND		20	20	ug/L			04/29/24 18:54	1
Chromium (SM3500 CR B)	ND		20	20	ug/L			04/29/24 18:54	1
Hexavalent chromium (SM3500 CR B)	ND		20	20	ug/L			04/29/24 18:54	1

Client Sample ID: MW-1
Date Collected: 04/16/24 10:32
Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium (SM 3500 CR B)	ND	H	0.020	0.0040	mg/L			04/17/24 11:52	1
Trivalent Chromium (SM3500 CR B)	ND		20	20	ug/L			04/29/24 18:54	1
Chromium (SM3500 CR B)	ND		20	20	ug/L			04/29/24 18:54	1
Hexavalent chromium (SM3500 CR B)	ND		20	20	ug/L			04/29/24 18:54	1

Client Sample ID: MW-3
Date Collected: 04/16/24 12:45
Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium (SM 3500 CR B)	ND		0.020	0.0040	mg/L			04/17/24 11:54	1
Trivalent Chromium (SM3500 CR B)	ND		20	20	ug/L			04/29/24 18:54	1
Chromium (SM3500 CR B)	ND		20	20	ug/L			04/29/24 18:54	1
Hexavalent chromium (SM3500 CR B)	ND		20	20	ug/L			04/29/24 18:54	1

Client Sample ID: MW-10
Date Collected: 04/16/24 16:12
Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium (SM 3500 CR B)	ND		0.020	0.0040	mg/L			04/17/24 11:56	1
Trivalent Chromium (SM3500 CR B)	ND		20	20	ug/L			04/29/24 18:54	1
Chromium (SM3500 CR B)	ND		20	20	ug/L			04/29/24 18:54	1
Hexavalent chromium (SM3500 CR B)	ND		20	20	ug/L			04/29/24 18:54	1

QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-650045/1-B
Matrix: Water
Analysis Batch: 650650

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 650087

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.64	J	100	1.5	ug/L		04/19/24 18:58	04/22/24 17:22	1
Lithium	ND		20	9.1	ug/L		04/19/24 18:58	04/22/24 17:22	1

Lab Sample ID: LCS 280-650045/2-B
Matrix: Water
Analysis Batch: 650650

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 650087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	2000	1990		ug/L		99	86 - 110
Lithium	1000	952		ug/L		95	90 - 112

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-650045/1-B
Matrix: Water
Analysis Batch: 650533

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 650087

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.40	ug/L		04/19/24 18:58	04/22/24 18:44	1
Arsenic	ND		5.0	0.50	ug/L		04/19/24 18:58	04/22/24 18:44	1
Chromium	ND		3.0	0.50	ug/L		04/19/24 18:58	04/22/24 18:44	1
Molybdenum	ND		2.0	0.37	ug/L		04/19/24 18:58	04/22/24 18:44	1
Nickel	ND		3.0	0.83	ug/L		04/19/24 18:58	04/22/24 18:44	1
Selenium	ND		5.0	1.0	ug/L		04/19/24 18:58	04/22/24 18:44	1
Silver	ND		1.0	0.045	ug/L		04/19/24 18:58	04/22/24 18:44	1
Vanadium	ND		5.0	1.1	ug/L		04/19/24 18:58	04/22/24 18:44	1
Iron	ND		200	8.7	ug/L		04/19/24 18:58	04/22/24 18:44	1

Lab Sample ID: MB 280-650045/1-B
Matrix: Water
Analysis Batch: 650619

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 650087

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		3.0	0.38	ug/L		04/19/24 18:58	04/23/24 11:03	1
Cadmium	ND		1.0	0.19	ug/L		04/19/24 18:58	04/23/24 11:03	1
Cobalt	ND		1.0	0.33	ug/L		04/19/24 18:58	04/23/24 11:03	1
Copper	ND		2.0	0.71	ug/L		04/19/24 18:58	04/23/24 11:03	1
Lead	ND		1.0	0.23	ug/L		04/19/24 18:58	04/23/24 11:03	1
Thallium	ND		1.0	0.21	ug/L		04/19/24 18:58	04/23/24 11:03	1
Uranium	ND		1.0	0.030	ug/L		04/19/24 18:58	04/23/24 11:03	1
Zinc	3.45	J	10	2.0	ug/L		04/19/24 18:58	04/23/24 11:03	1
Aluminum	37.2	J	200	8.3	ug/L		04/19/24 18:58	04/23/24 11:03	1

Lab Sample ID: MB 280-650045/1-B
Matrix: Water
Analysis Batch: 651182

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 650087

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		1.0	0.30	ug/L		04/19/24 18:58	04/26/24 12:42	1
Manganese	0.548	J	3.0	0.51	ug/L		04/19/24 18:58	04/26/24 12:42	1

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QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: LCS 280-650045/26-B
Matrix: Water
Analysis Batch: 650619

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 650087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	40.0	40.4		ug/L		101	85 - 115
Arsenic	40.0	41.4		ug/L		104	89 - 111
Barium	40.0	40.9		ug/L		102	89 - 115
Beryllium	40.0	39.2		ug/L		98	85 - 115
Cadmium	40.0	39.9		ug/L		100	89 - 111
Chromium	40.0	42.2		ug/L		106	86 - 115
Cobalt	40.0	42.0		ug/L		105	92 - 115
Copper	40.0	42.2		ug/L		105	90 - 115
Lead	40.0	39.5		ug/L		99	88 - 115
Manganese	40.0	42.8		ug/L		107	87 - 115
Molybdenum	40.0	39.9		ug/L		100	89 - 112
Nickel	40.0	41.2		ug/L		103	86 - 115
Selenium	40.0	41.3		ug/L		103	85 - 114
Silver	40.0	41.0		ug/L		102	90 - 114
Thallium	40.0	38.8		ug/L		97	86 - 115
Uranium	40.0	38.8		ug/L		97	85 - 115
Vanadium	40.0	42.5		ug/L		106	90 - 115
Zinc	40.0	41.1		ug/L		103	88 - 115
Aluminum	800	814		ug/L		102	85 - 115
Iron	800	839		ug/L		105	85 - 115

Lab Sample ID: MB 280-650501/1-B
Matrix: Water
Analysis Batch: 650879

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 650572

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		04/23/24 18:11	04/25/24 00:59	1
Cadmium	ND		1.0	0.19	ug/L		04/23/24 18:11	04/25/24 00:59	1
Chromium	ND		3.0	0.50	ug/L		04/23/24 18:11	04/25/24 00:59	1
Copper	ND		2.0	0.71	ug/L		04/23/24 18:11	04/25/24 00:59	1
Lead	ND		1.0	0.23	ug/L		04/23/24 18:11	04/25/24 00:59	1
Molybdenum	ND		2.0	0.37	ug/L		04/23/24 18:11	04/25/24 00:59	1
Nickel	ND		3.0	0.83	ug/L		04/23/24 18:11	04/25/24 00:59	1
Calcium	ND		200	32	ug/L		04/23/24 18:11	04/25/24 00:59	1
Silver	ND		1.0	0.045	ug/L		04/23/24 18:11	04/25/24 00:59	1
Zinc	ND		10	2.0	ug/L		04/23/24 18:11	04/25/24 00:59	1
Iron	ND		200	8.7	ug/L		04/23/24 18:11	04/25/24 00:59	1

Lab Sample ID: LCS 280-650501/20-B
Matrix: Water
Analysis Batch: 650879

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 650572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	41.5		ug/L		104	89 - 111
Cadmium	40.0	40.4		ug/L		101	89 - 111
Chromium	40.0	39.6		ug/L		99	86 - 115
Copper	40.0	38.5		ug/L		96	90 - 115
Lead	40.0	40.0		ug/L		100	88 - 115
Molybdenum	40.0	38.3		ug/L		96	89 - 112

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QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 280-650501/20-B
Matrix: Water
Analysis Batch: 650879

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 650572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	40.0	39.6		ug/L		99	86 - 115
Calcium	1000	1110		ug/L		111	85 - 115
Silver	40.0	38.2		ug/L		95	90 - 114
Zinc	40.0	36.1		ug/L		90	88 - 115
Iron	800	832		ug/L		104	85 - 115

Lab Sample ID: LCS 280-650501/20-B
Matrix: Water
Analysis Batch: 651056

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 650572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	40.0	38.0		ug/L		95	87 - 115
Selenium	40.0	38.7		ug/L		97	85 - 114
Magnesium	1000	976		ug/L		98	85 - 115

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-649871/43
Matrix: Water
Analysis Batch: 649871

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			04/18/24 04:41	1
Nitrite as N	ND		0.50	0.049	mg/L			04/18/24 04:41	1

Lab Sample ID: MB 280-649871/6
Matrix: Water
Analysis Batch: 649871

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			04/17/24 14:51	1
Nitrite as N	ND		0.50	0.049	mg/L			04/17/24 14:51	1

Lab Sample ID: LCS 280-649871/4
Matrix: Water
Analysis Batch: 649871

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.91		mg/L		98	90 - 110
Nitrite as N	5.00	5.10		mg/L		102	90 - 110

Lab Sample ID: LCS 280-649871/41
Matrix: Water
Analysis Batch: 649871

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.92		mg/L		98	90 - 110
Nitrite as N	5.00	5.21		mg/L		104	90 - 110

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QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 280-649871/42

Matrix: Water

Analysis Batch: 649871

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	5.00	4.95		mg/L		99	90 - 110	1	10
Nitrite as N	5.00	5.21		mg/L		104	90 - 110	0	10

Lab Sample ID: LCSD 280-649871/5

Matrix: Water

Analysis Batch: 649871

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	5.00	4.90		mg/L		98	90 - 110	0	10
Nitrite as N	5.00	5.10		mg/L		102	90 - 110	0	10

Lab Sample ID: MRL 280-649871/3

Matrix: Water

Analysis Batch: 649871

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	0.500	0.466	J	mg/L		93	50 - 150		
Nitrite as N	0.500	0.482	J	mg/L		96	50 - 150		

Lab Sample ID: 280-190228-3 MS

Matrix: Water

Analysis Batch: 649871

Client Sample ID: CC-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	1.0		5.00	5.94		mg/L		98	80 - 120		
Nitrite as N	ND		5.00	4.36		mg/L		87	80 - 120		

Lab Sample ID: 280-190228-3 MSD

Matrix: Water

Analysis Batch: 649871

Client Sample ID: CC-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	1.0		5.00	5.92		mg/L		98	80 - 120	0	20
Nitrite as N	ND		5.00	4.30		mg/L		86	80 - 120	1	20

Lab Sample ID: 280-190228-6 MS

Matrix: Water

Analysis Batch: 649871

Client Sample ID: MW-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	2.2		5.00	6.74		mg/L		90	80 - 120		
Nitrite as N	ND		5.00	4.50		mg/L		90	80 - 120		

Lab Sample ID: 280-190228-6 MSD

Matrix: Water

Analysis Batch: 649871

Client Sample ID: MW-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	2.2		5.00	7.05		mg/L		96	80 - 120	4	20
Nitrite as N	ND		5.00	4.71		mg/L		94	80 - 120	5	20

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QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 280-190228-3 DU

Matrix: Water

Analysis Batch: 649871

Client Sample ID: CC-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	1.0		1.04		mg/L		0.4	15
Nitrite as N	ND		ND		mg/L		NC	15

Lab Sample ID: 280-190228-6 DU

Matrix: Water

Analysis Batch: 649871

Client Sample ID: MW-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	2.2		2.25		mg/L		0.9	15
Nitrite as N	ND		ND		mg/L		NC	15

Lab Sample ID: MB 280-650552/48

Matrix: Water

Analysis Batch: 650552

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.50	0.17	mg/L			04/23/24 21:05	1

Lab Sample ID: MB 280-650552/6

Matrix: Water

Analysis Batch: 650552

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.50	0.17	mg/L			04/23/24 10:20	1

Lab Sample ID: LCS 280-650552/4

Matrix: Water

Analysis Batch: 650552

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	5.00	4.68		mg/L		94	90 - 110

Lab Sample ID: LCS 280-650552/46

Matrix: Water

Analysis Batch: 650552

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	5.00	4.98		mg/L		100	90 - 110

Lab Sample ID: LCSD 280-650552/47

Matrix: Water

Analysis Batch: 650552

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	5.00	5.05		mg/L		101	90 - 110	1	10

Eurofins Denver

QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 280-650552/5
Matrix: Water
Analysis Batch: 650552

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	5.00	4.61		mg/L		92	90 - 110	2	10

Lab Sample ID: MRL 280-650552/3
Matrix: Water
Analysis Batch: 650552

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.500	0.390	J	mg/L		78	50 - 150		

Lab Sample ID: 280-190228-1 MS
Matrix: Water
Analysis Batch: 650552

Client Sample ID: TC-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.53		5.00	6.32		mg/L		116	80 - 120		

Lab Sample ID: 280-190228-1 MSD
Matrix: Water
Analysis Batch: 650552

Client Sample ID: TC-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.53		5.00	5.85		mg/L		106	80 - 120	8	20

Lab Sample ID: 280-190228-1 DU
Matrix: Water
Analysis Batch: 650552

Client Sample ID: TC-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.53			0.533		mg/L				0.2	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-650307/60
Matrix: Water
Analysis Batch: 650307

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.10	0.029	mg/L			04/19/24 14:01	1

Lab Sample ID: LCS 280-650307/61
Matrix: Water
Analysis Batch: 650307

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	2.50	2.51		mg/L		100	90 - 110		

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QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCSD 280-650307/62
Matrix: Water
Analysis Batch: 650307

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	2.50	2.53		mg/L		101	90 - 110	1	10

Lab Sample ID: MB 280-650671/18
Matrix: Water
Analysis Batch: 650671

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.10	0.029	mg/L			04/23/24 14:06	1

Lab Sample ID: LCS 280-650671/19
Matrix: Water
Analysis Batch: 650671

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	2.50	2.58		mg/L		103	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-651034/131
Matrix: Water
Analysis Batch: 651034

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.10	0.044	mg/L			04/25/24 18:07	1

Lab Sample ID: MB 280-651034/94
Matrix: Water
Analysis Batch: 651034

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.10	0.044	mg/L			04/25/24 16:53	1

Lab Sample ID: LCS 280-651034/129
Matrix: Water
Analysis Batch: 651034

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.00	0.944		mg/L		94	90 - 110

Lab Sample ID: LCS 280-651034/93
Matrix: Water
Analysis Batch: 651034

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.00	1.01		mg/L		101	90 - 110

QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCSD 280-651034/130
Matrix: Water
Analysis Batch: 651034

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	1.00	0.936		mg/L		94	90 - 110	8	10

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-650238/1
Matrix: Water
Analysis Batch: 650238

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		10	4.7	mg/L			04/19/24 11:03	1

Lab Sample ID: LCS 280-650238/2
Matrix: Water
Analysis Batch: 650238

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids (TDS)	502	478		mg/L		95	88 - 114		

Lab Sample ID: LCSD 280-650238/3
Matrix: Water
Analysis Batch: 650238

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids (TDS)	502	480		mg/L		96	88 - 114	0	20

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-650114/1
Matrix: Water
Analysis Batch: 650114

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.1	mg/L			04/18/24 16:39	1

Lab Sample ID: LCS 280-650114/2
Matrix: Water
Analysis Batch: 650114

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids	509	478		mg/L		94	79 - 114		

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-649899/3-A
Matrix: Water
Analysis Batch: 650024

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	ND		0.020	0.0040	mg/L			04/17/24 11:39	1

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QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Lab Sample ID: LCS 280-649899/1-A
Matrix: Water
Analysis Batch: 650024

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexavalent chromium	0.100	0.102		mg/L		102	91 - 112

Lab Sample ID: LCSD 280-649899/2-A
Matrix: Water
Analysis Batch: 650024

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexavalent chromium	0.100	0.103		mg/L		103	91 - 112	0	20

Lab Sample ID: 280-190228-1 MS
Matrix: Water
Analysis Batch: 650024

Client Sample ID: TC-1
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexavalent chromium	ND		0.100	0.104		mg/L		104	91 - 112

Lab Sample ID: 280-190228-1 MSD
Matrix: Water
Analysis Batch: 650024

Client Sample ID: TC-1
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexavalent chromium	ND		0.100	0.108		mg/L		108	91 - 112	4	20

Lab Sample ID: 280-190228-1 DU
Matrix: Water
Analysis Batch: 650024

Client Sample ID: TC-1
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Hexavalent chromium	ND		ND		mg/L		NC	20

Method: SM 4500 CI- E - Chloride, Total

Lab Sample ID: MB 280-650301/15
Matrix: Water
Analysis Batch: 650301

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		2.0	0.68	mg/L			04/18/24 15:56	1

Lab Sample ID: LCS 280-650301/13
Matrix: Water
Analysis Batch: 650301

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.3		mg/L		101	90 - 110

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QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: LCS 280-650301/24

Matrix: Water

Analysis Batch: 650301

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.1		mg/L		101	90 - 110

Lab Sample ID: LCSD 280-650301/14

Matrix: Water

Analysis Batch: 650301

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.0	20.1		mg/L		100	90 - 110	1	10

Lab Sample ID: LCSD 280-650301/25

Matrix: Water

Analysis Batch: 650301

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.0	20.1		mg/L		101	90 - 110	0	10

Lab Sample ID: 280-190228-6 MS

Matrix: Water

Analysis Batch: 650301

Client Sample ID: MW-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.3		20.0	23.7		mg/L		102	90 - 110

Lab Sample ID: 280-190228-6 MSD

Matrix: Water

Analysis Batch: 650301

Client Sample ID: MW-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3.3		20.0	23.6		mg/L		102	90 - 110	0	10

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-650526/31

Matrix: Water

Analysis Batch: 650526

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH adj. to 25 deg C	7.00	7.0		SU		100	99 - 101

Lab Sample ID: LCS 280-650526/5

Matrix: Water

Analysis Batch: 650526

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH adj. to 25 deg C	7.00	7.0		SU		100	99 - 101

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QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Method: SM 4500 H+ B - pH (Continued)

Lab Sample ID: 280-190228-5 DU

Matrix: Water

Analysis Batch: 650526

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH adj. to 25 deg C	7.4	HF	7.7		SU		4	5
Temperature	21.9	HF	21.4		Degrees C		2	10

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 280-650481/11

Matrix: Water

Analysis Batch: 650481

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		0.050	0.022	mg/L			04/22/24 14:03	1

Lab Sample ID: LCS 280-650481/9

Matrix: Water

Analysis Batch: 650481

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.501	0.479		mg/L		95	81 - 122

Lab Sample ID: LCSD 280-650481/10

Matrix: Water

Analysis Batch: 650481

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	0.501	0.485		mg/L		97	81 - 122	1	10

Lab Sample ID: 280-190228-4 MS

Matrix: Water

Analysis Batch: 650481

Client Sample ID: CC-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	ND	F1 F2	0.501	0.402	F1	mg/L		80	81 - 122

Lab Sample ID: 280-190228-4 MSD

Matrix: Water

Analysis Batch: 650481

Client Sample ID: CC-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	ND	F1 F2	0.501	0.313	F1 F2	mg/L		62	81 - 122	25	10

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 280-650127/14

Matrix: Water

Analysis Batch: 650127

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	0.71	mg/L			04/18/24 16:50	1

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QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: LCS 280-650127/12

Matrix: Water

Analysis Batch: 650127

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	25.0	25.9		mg/L		104	90 - 110

Lab Sample ID: LCSD 280-650127/13

Matrix: Water

Analysis Batch: 650127

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	25.0	25.7		mg/L		103	90 - 110	1	10

Lab Sample ID: 280-190228-1 MS

Matrix: Water

Analysis Batch: 650127

Client Sample ID: TC-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	19	J	125	154		mg/L		108	90 - 110

Lab Sample ID: 280-190228-1 MSD

Matrix: Water

Analysis Batch: 650127

Client Sample ID: TC-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	19	J	125	153		mg/L		107	90 - 110	1	10

QC Association Summary

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Metals

Filtration Batch: 650045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190228-5	MW-1	Dissolved	Water	Filtration	
280-190228-6	MW-3	Dissolved	Water	Filtration	
280-190228-7	MW-10	Dissolved	Water	Filtration	
MB 280-650045/1-B	Method Blank	Dissolved	Water	Filtration	
LCS 280-650045/26-B	Lab Control Sample	Dissolved	Water	Filtration	
LCS 280-650045/2-B	Lab Control Sample	Dissolved	Water	Filtration	

Prep Batch: 650087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190228-5	MW-1	Dissolved	Water	200.7	650045
280-190228-6	MW-3	Dissolved	Water	200.7	650045
280-190228-7	MW-10	Dissolved	Water	200.7	650045
MB 280-650045/1-B	Method Blank	Dissolved	Water	200.7	650045
LCS 280-650045/26-B	Lab Control Sample	Dissolved	Water	200.7	650045
LCS 280-650045/2-B	Lab Control Sample	Dissolved	Water	200.7	650045

Filtration Batch: 650501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190228-1	TC-1	Dissolved	Water	Filtration	
280-190228-2	TC-2	Dissolved	Water	Filtration	
280-190228-3	CC-1	Dissolved	Water	Filtration	
280-190228-4	CC-2	Dissolved	Water	Filtration	
MB 280-650501/1-B	Method Blank	Dissolved	Water	Filtration	
LCS 280-650501/20-B	Lab Control Sample	Dissolved	Water	Filtration	

Analysis Batch: 650533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190228-5	MW-1	Dissolved	Water	200.8	650087
280-190228-6	MW-3	Dissolved	Water	200.8	650087
280-190228-7	MW-10	Dissolved	Water	200.8	650087
MB 280-650045/1-B	Method Blank	Dissolved	Water	200.8	650087

Prep Batch: 650572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190228-1	TC-1	Dissolved	Water	200.8	650501
280-190228-2	TC-2	Dissolved	Water	200.8	650501
280-190228-3	CC-1	Dissolved	Water	200.8	650501
280-190228-4	CC-2	Dissolved	Water	200.8	650501
MB 280-650501/1-B	Method Blank	Dissolved	Water	200.8	650501
LCS 280-650501/20-B	Lab Control Sample	Dissolved	Water	200.8	650501

Analysis Batch: 650619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190228-5	MW-1	Dissolved	Water	200.8	650087
280-190228-6	MW-3	Dissolved	Water	200.8	650087
280-190228-7	MW-10	Dissolved	Water	200.8	650087
MB 280-650045/1-B	Method Blank	Dissolved	Water	200.8	650087
LCS 280-650045/26-B	Lab Control Sample	Dissolved	Water	200.8	650087

QC Association Summary

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Metals

Analysis Batch: 650650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-650045/1-B	Method Blank	Dissolved	Water	200.7 Rev 4.4	650087
LCS 280-650045/2-B	Lab Control Sample	Dissolved	Water	200.7 Rev 4.4	650087

Analysis Batch: 650762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190228-5	MW-1	Dissolved	Water	200.7 Rev 4.4	650087
280-190228-6	MW-3	Dissolved	Water	200.7 Rev 4.4	650087
280-190228-7	MW-10	Dissolved	Water	200.7 Rev 4.4	650087

Analysis Batch: 650879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190228-1	TC-1	Dissolved	Water	200.8	650572
280-190228-2	TC-2	Dissolved	Water	200.8	650572
280-190228-3	CC-1	Dissolved	Water	200.8	650572
280-190228-4	CC-2	Dissolved	Water	200.8	650572
MB 280-650501/1-B	Method Blank	Dissolved	Water	200.8	650572
LCS 280-650501/20-B	Lab Control Sample	Dissolved	Water	200.8	650572

Analysis Batch: 650938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190228-5	MW-1	Dissolved	Water	200.7 Rev 4.4	650087
280-190228-6	MW-3	Dissolved	Water	200.7 Rev 4.4	650087
280-190228-7	MW-10	Dissolved	Water	200.7 Rev 4.4	650087

Analysis Batch: 651056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190228-1	TC-1	Dissolved	Water	200.8	650572
280-190228-2	TC-2	Dissolved	Water	200.8	650572
280-190228-3	CC-1	Dissolved	Water	200.8	650572
280-190228-4	CC-2	Dissolved	Water	200.8	650572
LCS 280-650501/20-B	Lab Control Sample	Dissolved	Water	200.8	650572

Analysis Batch: 651182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-650045/1-B	Method Blank	Dissolved	Water	200.8	650087

General Chemistry

Analysis Batch: 649871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190228-1	TC-1	Total/NA	Water	300.0	
280-190228-2	TC-2	Total/NA	Water	300.0	
280-190228-3	CC-1	Total/NA	Water	300.0	
280-190228-4	CC-2	Total/NA	Water	300.0	
280-190228-5	MW-1	Total/NA	Water	300.0	
280-190228-6	MW-3	Total/NA	Water	300.0	
280-190228-7	MW-10	Total/NA	Water	300.0	
MB 280-649871/43	Method Blank	Total/NA	Water	300.0	
MB 280-649871/6	Method Blank	Total/NA	Water	300.0	
LCS 280-649871/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-649871/41	Lab Control Sample	Total/NA	Water	300.0	

Eurofins Denver

QC Association Summary

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

General Chemistry (Continued)

Analysis Batch: 649871 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 280-649871/42	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-649871/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-649871/3	Lab Control Sample	Total/NA	Water	300.0	
280-190228-3 MS	CC-1	Total/NA	Water	300.0	
280-190228-3 MSD	CC-1	Total/NA	Water	300.0	
280-190228-6 MS	MW-3	Total/NA	Water	300.0	
280-190228-6 MSD	MW-3	Total/NA	Water	300.0	
280-190228-3 DU	CC-1	Total/NA	Water	300.0	
280-190228-6 DU	MW-3	Total/NA	Water	300.0	

Filtration Batch: 649899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190228-1	TC-1	Dissolved	Water	FILTRATION	
280-190228-1	TC-1	Dissolved	Water	FILTRATION	
280-190228-2	TC-2	Dissolved	Water	FILTRATION	
280-190228-2	TC-2	Dissolved	Water	FILTRATION	
280-190228-3	CC-1	Dissolved	Water	FILTRATION	
280-190228-3	CC-1	Dissolved	Water	FILTRATION	
280-190228-4	CC-2	Dissolved	Water	FILTRATION	
280-190228-4	CC-2	Dissolved	Water	FILTRATION	
280-190228-5	MW-1	Dissolved	Water	FILTRATION	
280-190228-5	MW-1	Dissolved	Water	FILTRATION	
280-190228-6	MW-3	Dissolved	Water	FILTRATION	
280-190228-6	MW-3	Dissolved	Water	FILTRATION	
280-190228-7	MW-10	Dissolved	Water	FILTRATION	
280-190228-7	MW-10	Dissolved	Water	FILTRATION	
MB 280-649899/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-649899/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-649899/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-190228-1 MS	TC-1	Dissolved	Water	FILTRATION	
280-190228-1 MSD	TC-1	Dissolved	Water	FILTRATION	
280-190228-1 DU	TC-1	Dissolved	Water	FILTRATION	

Analysis Batch: 650024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190228-1	TC-1	Dissolved	Water	SM 3500 CR B	649899
280-190228-2	TC-2	Dissolved	Water	SM 3500 CR B	649899
280-190228-3	CC-1	Dissolved	Water	SM 3500 CR B	649899
280-190228-4	CC-2	Dissolved	Water	SM 3500 CR B	649899
280-190228-5	MW-1	Dissolved	Water	SM 3500 CR B	649899
280-190228-6	MW-3	Dissolved	Water	SM 3500 CR B	649899
280-190228-7	MW-10	Dissolved	Water	SM 3500 CR B	649899
MB 280-649899/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	649899
LCS 280-649899/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	649899
LCSD 280-649899/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	649899
280-190228-1 MS	TC-1	Dissolved	Water	SM 3500 CR B	649899
280-190228-1 MSD	TC-1	Dissolved	Water	SM 3500 CR B	649899
280-190228-1 DU	TC-1	Dissolved	Water	SM 3500 CR B	649899

Eurofins Denver

QC Association Summary

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

General Chemistry

Analysis Batch: 650114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190228-1	TC-1	Total/NA	Water	SM 2540D	
280-190228-2	TC-2	Total/NA	Water	SM 2540D	
280-190228-3	CC-1	Total/NA	Water	SM 2540D	
280-190228-4	CC-2	Total/NA	Water	SM 2540D	
280-190228-5	MW-1	Total/NA	Water	SM 2540D	
280-190228-6	MW-3	Total/NA	Water	SM 2540D	
280-190228-7	MW-10	Total/NA	Water	SM 2540D	
MB 280-650114/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-650114/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 650127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190228-1	TC-1	Total/NA	Water	SM 4500 SO4 E	
280-190228-2	TC-2	Total/NA	Water	SM 4500 SO4 E	
280-190228-3	CC-1	Total/NA	Water	SM 4500 SO4 E	
280-190228-4	CC-2	Total/NA	Water	SM 4500 SO4 E	
280-190228-5	MW-1	Total/NA	Water	SM 4500 SO4 E	
280-190228-6	MW-3	Total/NA	Water	SM 4500 SO4 E	
280-190228-7	MW-10	Total/NA	Water	SM 4500 SO4 E	
MB 280-650127/14	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 280-650127/12	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCSD 280-650127/13	Lab Control Sample Dup	Total/NA	Water	SM 4500 SO4 E	
280-190228-1 MS	TC-1	Total/NA	Water	SM 4500 SO4 E	
280-190228-1 MSD	TC-1	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 650238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190228-5	MW-1	Total/NA	Water	SM 2540C	
280-190228-6	MW-3	Total/NA	Water	SM 2540C	
280-190228-7	MW-10	Total/NA	Water	SM 2540C	
MB 280-650238/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-650238/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-650238/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 650301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190228-1	TC-1	Total/NA	Water	SM 4500 Cl- E	
280-190228-2	TC-2	Total/NA	Water	SM 4500 Cl- E	
280-190228-3	CC-1	Total/NA	Water	SM 4500 Cl- E	
280-190228-4	CC-2	Total/NA	Water	SM 4500 Cl- E	
280-190228-5	MW-1	Total/NA	Water	SM 4500 Cl- E	
280-190228-6	MW-3	Total/NA	Water	SM 4500 Cl- E	
280-190228-7	MW-10	Total/NA	Water	SM 4500 Cl- E	
MB 280-650301/15	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 280-650301/13	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 280-650301/24	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCSD 280-650301/14	Lab Control Sample Dup	Total/NA	Water	SM 4500 Cl- E	
LCSD 280-650301/25	Lab Control Sample Dup	Total/NA	Water	SM 4500 Cl- E	
280-190228-6 MS	MW-3	Total/NA	Water	SM 4500 Cl- E	
280-190228-6 MSD	MW-3	Total/NA	Water	SM 4500 Cl- E	

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QC Association Summary

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

General Chemistry

Analysis Batch: 650307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190228-1	TC-1	Total/NA	Water	350.1	
280-190228-2	TC-2	Total/NA	Water	350.1	
280-190228-3	CC-1	Total/NA	Water	350.1	
MB 280-650307/60	Method Blank	Total/NA	Water	350.1	
LCS 280-650307/61	Lab Control Sample	Total/NA	Water	350.1	
LCSD 280-650307/62	Lab Control Sample Dup	Total/NA	Water	350.1	

Analysis Batch: 650481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190228-1	TC-1	Total/NA	Water	SM 4500 S2 D	
280-190228-2	TC-2	Total/NA	Water	SM 4500 S2 D	
280-190228-3	CC-1	Total/NA	Water	SM 4500 S2 D	
280-190228-4	CC-2	Total/NA	Water	SM 4500 S2 D	
MB 280-650481/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-650481/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-650481/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
280-190228-4 MS	CC-2	Total/NA	Water	SM 4500 S2 D	
280-190228-4 MSD	CC-2	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 650526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190228-5	MW-1	Total/NA	Water	SM 4500 H+ B	
280-190228-6	MW-3	Total/NA	Water	SM 4500 H+ B	
280-190228-7	MW-10	Total/NA	Water	SM 4500 H+ B	
LCS 280-650526/31	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCS 280-650526/5	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
280-190228-5 DU	MW-1	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 650552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190228-1	TC-1	Total/NA	Water	300.0	
280-190228-2	TC-2	Total/NA	Water	300.0	
280-190228-3	CC-1	Total/NA	Water	300.0	
280-190228-4	CC-2	Total/NA	Water	300.0	
280-190228-5	MW-1	Total/NA	Water	300.0	
280-190228-6	MW-3	Total/NA	Water	300.0	
280-190228-7	MW-10	Total/NA	Water	300.0	
MB 280-650552/48	Method Blank	Total/NA	Water	300.0	
MB 280-650552/6	Method Blank	Total/NA	Water	300.0	
LCS 280-650552/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-650552/46	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-650552/47	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-650552/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-650552/3	Lab Control Sample	Total/NA	Water	300.0	
280-190228-1 MS	TC-1	Total/NA	Water	300.0	
280-190228-1 MSD	TC-1	Total/NA	Water	300.0	
280-190228-1 DU	TC-1	Total/NA	Water	300.0	

Analysis Batch: 650671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190228-4	CC-2	Total/NA	Water	350.1	

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QC Association Summary

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

General Chemistry (Continued)

Analysis Batch: 650671 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-650671/18	Method Blank	Total/NA	Water	350.1	
LCS 280-650671/19	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 651034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190228-5	MW-1	Total/NA	Water	353.2	
280-190228-6	MW-3	Total/NA	Water	353.2	
280-190228-7	MW-10	Total/NA	Water	353.2	
MB 280-651034/131	Method Blank	Total/NA	Water	353.2	
MB 280-651034/94	Method Blank	Total/NA	Water	353.2	
LCS 280-651034/129	Lab Control Sample	Total/NA	Water	353.2	
LCS 280-651034/93	Lab Control Sample	Total/NA	Water	353.2	
LCSD 280-651034/130	Lab Control Sample Dup	Total/NA	Water	353.2	

Analysis Batch: 651408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-190228-1	TC-1	Dissolved	Water	SM3500 CR B	649899
280-190228-2	TC-2	Dissolved	Water	SM3500 CR B	649899
280-190228-3	CC-1	Dissolved	Water	SM3500 CR B	649899
280-190228-4	CC-2	Dissolved	Water	SM3500 CR B	649899
280-190228-5	MW-1	Dissolved	Water	SM3500 CR B	649899
280-190228-6	MW-3	Dissolved	Water	SM3500 CR B	649899
280-190228-7	MW-10	Dissolved	Water	SM3500 CR B	649899

Lab Chronicle

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Client Sample ID: TC-1

Lab Sample ID: 280-190228-1

Date Collected: 04/16/24 13:41

Matrix: Water

Date Received: 04/17/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			50 mL	50 mL	650501	04/22/24 17:03	KLG	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	650572	04/23/24 18:11	KLG	EET DEN
Dissolved	Analysis	200.8		1			650879	04/25/24 01:24	LMT	EET DEN
Dissolved	Filtration	Filtration			50 mL	50 mL	650501	04/22/24 17:03	KLG	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	650572	04/23/24 18:11	KLG	EET DEN
Dissolved	Analysis	200.8		1			651056	04/25/24 23:04	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	649871	04/18/24 07:31	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	650552	04/23/24 17:04	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	650307	04/19/24 14:29	LBR	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	650114	04/18/24 16:39	AKF	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	649899	04/17/24 11:10	SL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	650024	04/17/24 11:44	SL	EET DEN
Total/NA	Analysis	SM 4500 CI- E		1	2 mL	2 mL	650301	04/18/24 15:57	CLP	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	650481	04/22/24 14:12	CLP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	650127	04/18/24 16:50	CLP	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	649899	04/17/24 11:11	SL	EET DEN
Dissolved	Analysis	SM3500 CR B		1			651408	04/29/24 18:54	RMS	EET DEN

Client Sample ID: TC-2

Lab Sample ID: 280-190228-2

Date Collected: 04/16/24 11:15

Matrix: Water

Date Received: 04/17/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			50 mL	50 mL	650501	04/22/24 17:03	KLG	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	650572	04/23/24 18:11	KLG	EET DEN
Dissolved	Analysis	200.8		1			650879	04/25/24 01:28	LMT	EET DEN
Dissolved	Filtration	Filtration			50 mL	50 mL	650501	04/22/24 17:03	KLG	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	650572	04/23/24 18:11	KLG	EET DEN
Dissolved	Analysis	200.8		1			651056	04/25/24 23:08	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	649871	04/18/24 03:16	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	650552	04/23/24 23:39	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	650307	04/19/24 14:31	LBR	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	650114	04/18/24 16:39	AKF	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	649899	04/17/24 11:10	SL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	650024	04/17/24 11:49	SL	EET DEN
Total/NA	Analysis	SM 4500 CI- E		2	2 mL	2 mL	650301	04/18/24 15:57	CLP	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	650481	04/22/24 14:12	CLP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		2	2 mL	2 mL	650127	04/18/24 16:51	CLP	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	649899	04/17/24 11:11	SL	EET DEN
Dissolved	Analysis	SM3500 CR B		1			651408	04/29/24 18:54	RMS	EET DEN

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Lab Chronicle

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Client Sample ID: CC-1

Lab Sample ID: 280-190228-3

Date Collected: 04/16/24 14:45

Matrix: Water

Date Received: 04/17/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			50 mL	50 mL	650501	04/22/24 17:03	KLG	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	650572	04/23/24 18:11	KLG	EET DEN
Dissolved	Analysis	200.8		1			650879	04/25/24 01:32	LMT	EET DEN
Dissolved	Filtration	Filtration			50 mL	50 mL	650501	04/22/24 17:03	KLG	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	650572	04/23/24 18:11	KLG	EET DEN
Dissolved	Analysis	200.8		1			651056	04/25/24 23:11	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	649871	04/18/24 09:47	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	650552	04/23/24 19:48	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	650307	04/19/24 14:33	LBR	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	650114	04/18/24 16:39	AKF	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	649899	04/17/24 11:10	SL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	650024	04/17/24 11:50	SL	EET DEN
Total/NA	Analysis	SM 4500 CI- E		2	2 mL	2 mL	650301	04/18/24 15:57	CLP	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	650481	04/22/24 14:11	CLP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		4	2 mL	2 mL	650127	04/18/24 16:52	CLP	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	649899	04/17/24 11:11	SL	EET DEN
Dissolved	Analysis	SM3500 CR B		1			651408	04/29/24 18:54	RMS	EET DEN

Client Sample ID: CC-2

Lab Sample ID: 280-190228-4

Date Collected: 04/16/24 13:55

Matrix: Water

Date Received: 04/17/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			50 mL	50 mL	650501	04/22/24 17:03	KLG	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	650572	04/23/24 18:11	KLG	EET DEN
Dissolved	Analysis	200.8		1			650879	04/25/24 01:42	LMT	EET DEN
Dissolved	Filtration	Filtration			50 mL	50 mL	650501	04/22/24 17:03	KLG	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	650572	04/23/24 18:11	KLG	EET DEN
Dissolved	Analysis	200.8		1			651056	04/25/24 23:15	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	649871	04/18/24 08:22	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	650552	04/24/24 00:01	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	650671	04/23/24 14:19	LBR	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	650114	04/18/24 16:39	AKF	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	649899	04/17/24 11:10	SL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	650024	04/17/24 11:52	SL	EET DEN
Total/NA	Analysis	SM 4500 CI- E		2	2 mL	2 mL	650301	04/18/24 15:58	CLP	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	650481	04/22/24 14:10	CLP	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		4	2 mL	2 mL	650127	04/18/24 16:52	CLP	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	649899	04/17/24 11:11	SL	EET DEN
Dissolved	Analysis	SM3500 CR B		1			651408	04/29/24 18:54	RMS	EET DEN

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Lab Chronicle

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Client Sample ID: MW-1

Date Collected: 04/16/24 10:32

Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			50 mL	50 mL	650045	04/18/24 10:53	JTC	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	650087	04/19/24 18:58	JTC	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			650762	04/23/24 23:17	ADL	EET DEN
Dissolved	Filtration	Filtration			50 mL	50 mL	650045	04/18/24 10:53	JTC	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	650087	04/19/24 18:58	JTC	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			650938	04/24/24 17:29	ADL	EET DEN
Dissolved	Filtration	Filtration			50 mL	50 mL	650045	04/18/24 10:53	JTC	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	650087	04/19/24 18:58	JTC	EET DEN
Dissolved	Analysis	200.8		1			650533	04/22/24 19:04	LMT	EET DEN
Dissolved	Filtration	Filtration			50 mL	50 mL	650045	04/18/24 10:53	JTC	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	650087	04/19/24 18:58	JTC	EET DEN
Dissolved	Analysis	200.8		1			650619	04/23/24 11:25	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	649871	04/18/24 01:00	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	650552	04/23/24 19:59	IRC	EET DEN
Total/NA	Analysis	353.2		2	100 mL	100 mL	651034	04/25/24 18:27	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	650238	04/19/24 11:03	AKF	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	650114	04/18/24 16:39	AKF	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	649899	04/17/24 11:10	SL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	650024	04/17/24 11:52	SL	EET DEN
Total/NA	Analysis	SM 4500 CI- E		1	2 mL	2 mL	650301	04/18/24 15:58	CLP	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			650526	04/22/24 20:52	LL	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		4	2 mL	2 mL	650127	04/18/24 16:52	CLP	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	649899	04/17/24 11:11	SL	EET DEN
Dissolved	Analysis	SM3500 CR B		1			651408	04/29/24 18:54	RMS	EET DEN

Client Sample ID: MW-3

Date Collected: 04/16/24 12:45

Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			50 mL	50 mL	650045	04/18/24 10:53	JTC	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	650087	04/19/24 18:58	JTC	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			650762	04/23/24 23:21	ADL	EET DEN
Dissolved	Filtration	Filtration			50 mL	50 mL	650045	04/18/24 10:53	JTC	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	650087	04/19/24 18:58	JTC	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			650938	04/24/24 17:33	ADL	EET DEN
Dissolved	Filtration	Filtration			50 mL	50 mL	650045	04/18/24 10:53	JTC	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	650087	04/19/24 18:58	JTC	EET DEN
Dissolved	Analysis	200.8		1			650533	04/22/24 19:11	LMT	EET DEN
Dissolved	Filtration	Filtration			50 mL	50 mL	650045	04/18/24 10:53	JTC	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	650087	04/19/24 18:58	JTC	EET DEN
Dissolved	Analysis	200.8		1			650619	04/23/24 11:28	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	649871	04/18/24 05:32	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	650552	04/23/24 19:37	IRC	EET DEN

Eurofins Denver

Lab Chronicle

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Client Sample ID: MW-3

Date Collected: 04/16/24 12:45

Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	100 mL	100 mL	651034	04/25/24 18:29	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	650238	04/19/24 11:03	AKF	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	650114	04/18/24 16:39	AKF	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	649899	04/17/24 11:10	SL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	650024	04/17/24 11:54	SL	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	650301	04/18/24 16:22	CLP	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			650526	04/22/24 20:08	LL	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		1	2 mL	2 mL	650127	04/18/24 16:52	CLP	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	649899	04/17/24 11:11	SL	EET DEN
Dissolved	Analysis	SM3500 CR B		1			651408	04/29/24 18:54	RMS	EET DEN

Client Sample ID: MW-10

Date Collected: 04/16/24 16:12

Date Received: 04/17/24 09:30

Lab Sample ID: 280-190228-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			50 mL	50 mL	650045	04/18/24 10:54	JTC	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	650087	04/19/24 18:58	JTC	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			650762	04/23/24 23:25	ADL	EET DEN
Dissolved	Filtration	Filtration			50 mL	50 mL	650045	04/18/24 10:54	JTC	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	650087	04/19/24 18:58	JTC	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			650938	04/24/24 17:37	ADL	EET DEN
Dissolved	Filtration	Filtration			50 mL	50 mL	650045	04/18/24 10:54	JTC	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	650087	04/19/24 18:58	JTC	EET DEN
Dissolved	Analysis	200.8		1			650533	04/22/24 19:13	LMT	EET DEN
Dissolved	Filtration	Filtration			50 mL	50 mL	650045	04/18/24 10:54	JTC	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	650087	04/19/24 18:58	JTC	EET DEN
Dissolved	Analysis	200.8		1			650619	04/23/24 11:30	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	649871	04/18/24 10:55	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	650552	04/23/24 23:50	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	651034	04/25/24 18:31	BCR	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	650238	04/19/24 11:03	AKF	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	650114	04/18/24 16:39	AKF	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	649899	04/17/24 11:10	SL	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	650024	04/17/24 11:56	SL	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	650301	04/18/24 15:58	CLP	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			650526	04/22/24 20:16	LL	EET DEN
Total/NA	Analysis	SM 4500 SO4 E		4	2 mL	2 mL	650127	04/18/24 16:53	CLP	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	649899	04/17/24 11:11	SL	EET DEN
Dissolved	Analysis	SM3500 CR B		1			651408	04/29/24 18:54	RMS	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins Denver

Accreditation/Certification Summary

Client: Martin Marietta
Project/Site: Parkdale

Job ID: 280-190228-1

Laboratory: Eurofins Denver

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-24
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
California	State	2513	01-08-25
Connecticut	State	PH-0686	09-30-24
Florida	NELAP	E87667-57	06-30-24
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-24
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-24
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-07	07-31-24
New Hampshire	NELAP	2053	04-28-24 *
New Jersey	NELAP	230001	06-30-24
New York	NELAP	59923	04-01-25
North Dakota	State	R-034	01-08-24 *
Oklahoma	NELAP	8614	08-31-24
Oregon	NELAP	4025-020	01-08-25
Pennsylvania	NELAP	013	07-31-24
South Carolina	State	72002001	01-08-24 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-23-23	09-30-24
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-24
Virginia	NELAP	460232	06-14-24
Washington	State	C583	08-03-24
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-24
Wyoming (UST)	A2LA	2907.01	10-31-25

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

Eurofins Denver

Environment Testing

3
4
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4/30/2024

Chain of Custody Record



Environment Testing

Phone (303) 736-0100 Phone (303) 431-7171

[illegible]

Phone (303) 736-0100 Phone (303) 431-7171

[illegible]

Login Sample Receipt Checklist

Client: Martin Marietta

Job Number: 280-190228-1

Login Number: 190228

List Number: 1

Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Julie Mikulas
Martin Marietta
11252 Aurora Ave.
Des Moines, Iowa 50322

Generated 10/7/2024 9:45:56 AM

JOB DESCRIPTION

Parkdale - Well Water

JOB NUMBER

280-197092-1

Eurofins Denver

Job Notes

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

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

Authorization



Generated
10/7/2024 9:45:56 AM

Authorized for release by
Natalie Stone, Project Manager
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(303)736-0100



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Definitions/Glossary

Client: Martin Marietta
Project/Site: Parkdale - Well Water

Job ID: 280-197092-1

Qualifiers

Metals

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

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: Martin Marietta
Project: Parkdale - Well Water

Job ID: 280-197092-1

Job ID: 280-197092-1

Eurofins Denver

Job Narrative 280-197092-1

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

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

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

Receipt

The samples were received on 9/25/2024 8:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C.

Receipt Exceptions

The following sample(s) was received with less than 1 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 24 hours or less. As such, the laboratory may have insufficient time remaining to perform the analysis within holding time: MW-1 (280-197092-1), MW-3 (280-197092-2) and MW-10 (280-197092-3).

Method 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Samples MW-1 (280-197092-1), MW-3 (280-197092-2) and MW-10 (280-197092-3) were analyzed for Metals (ICP) - Dissolved. The samples were prepared on 9/26/2024 and analyzed on 9/30/2024.

Method 200.8 - Metals (ICP/MS) - Dissolved

Samples MW-1 (280-197092-1), MW-3 (280-197092-2) and MW-10 (280-197092-3) were analyzed for Metals (ICP/MS) - Dissolved. The samples were prepared on 9/26/2024 and 10/2/2024 and analyzed on 9/27/2024, 9/28/2024 and 10/2/2024.

A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: The LCS/MS/MSD was spiked at a non-standard spike level due to a known contamination issue with the ICPMS spikes error. This does not have an effect on data quality.

Method SM 2540C - Solids, Total Dissolved (TDS)

Samples MW-1 (280-197092-1), MW-3 (280-197092-2) and MW-10 (280-197092-3) were analyzed for Solids, Total Dissolved (TDS). The samples were analyzed on 9/26/2024.

Method SM 2540D - Solids, Total Suspended (TSS)

Samples MW-1 (280-197092-1), MW-3 (280-197092-2) and MW-10 (280-197092-3) were analyzed for Solids, Total Suspended (TSS). The samples were analyzed on 9/26/2024.

Method 300.0 - Anions, Ion Chromatography

Samples MW-1 (280-197092-1), MW-3 (280-197092-2) and MW-10 (280-197092-3) were analyzed for Anions, Ion Chromatography. The samples were analyzed on 9/25/2024, 9/26/2024 and 10/1/2024.

Method 300.0 - Anions, Ion Chromatography

Samples MW-1 (280-197092-1), MW-3 (280-197092-2) and MW-10 (280-197092-3) were analyzed for Anions, Ion Chromatography. The samples were prepared on 9/26/2024 and analyzed on 9/25/2024, 9/26/2024, 9/27/2024 and 9/28/2024.

Method SM 3500 CR B - Chromium, Hexavalent - Dissolved

Samples MW-1 (280-197092-1), MW-3 (280-197092-2) and MW-10 (280-197092-3) were analyzed for Chromium, Hexavalent - Dissolved. The samples were analyzed on 9/25/2024.

Method 353.2 - Nitrogen, Nitrate-Nitrite

Samples MW-1 (280-197092-1), MW-3 (280-197092-2) and MW-10 (280-197092-3) were analyzed for Nitrogen, Nitrate-Nitrite. The samples were analyzed on 9/25/2024, 9/30/2024 and 10/1/2024.

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Case Narrative

Client: Martin Marietta
Project: Parkdale - Well Water

Job ID: 280-197092-1

Job ID: 280-197092-1 (Continued)

Eurofins Denver

Sample MW-1 (280-197092-1)[2x] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 280-669271 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method SM3500 CR B - Chromium, Trivalent - Dissolved

Samples MW-1 (280-197092-1), MW-3 (280-197092-2) and MW-10 (280-197092-3) were analyzed for Chromium, Trivalent - Dissolved. The samples were analyzed on 10/2/2024.

Method SM 4500 Cl- E - Chloride, Total

Samples MW-1 (280-197092-1), MW-3 (280-197092-2) and MW-10 (280-197092-3) were analyzed for Chloride, Total. The samples were analyzed on 10/3/2024.

Method SM 4500 H+ B - pH

Samples MW-1 (280-197092-1), MW-3 (280-197092-2) and MW-10 (280-197092-3) were analyzed for pH. The samples were analyzed on 9/25/2024.

Eurofins Denver

Detection Summary

Client: Martin Marietta
Project/Site: Parkdale - Well Water

Job ID: 280-197092-1

Client Sample ID: MW-1

Lab Sample ID: 280-197092-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	54	J	100	1.5	ug/L	1		200.7 Rev 4.4	Dissolved
Lithium	18	J	20	9.1	ug/L	1		200.7 Rev 4.4	Dissolved
Barium	12		3.0	0.38	ug/L	1		200.8	Dissolved
Manganese	0.72	J	3.0	0.51	ug/L	1		200.8	Dissolved
Molybdenum	15		2.0	0.37	ug/L	1		200.8	Dissolved
Selenium	4.1	J	5.0	1.0	ug/L	1		200.8	Dissolved
Silver	0.050	J	1.0	0.045	ug/L	1		200.8	Dissolved
Uranium	16		1.0	0.030	ug/L	1		200.8	Dissolved
Vanadium	1.5	J	5.0	1.1	ug/L	1		200.8	Dissolved
Aluminum	38	J	200	8.3	ug/L	1		200.8	Dissolved
Iron	17	J	200	8.7	ug/L	1		200.8	Dissolved
Fluoride	2.1		0.50	0.17	mg/L	1		300.0	Total/NA
Nitrate as N	6.7		0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	89		5.0	1.0	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	6.9		0.20	0.088	mg/L	2		353.2	Total/NA
Total Dissolved Solids (TDS)	390		10	4.7	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	33		4.0	1.1	mg/L	1		SM 2540D	Total/NA
Chloride	7.2		2.0	0.68	mg/L	1		SM 4500 Cl- E	Total/NA
pH adj. to 25 deg C	7.6	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	19.7	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 280-197092-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	48	J	100	1.5	ug/L	1		200.7 Rev 4.4	Dissolved
Lithium	22		20	9.1	ug/L	1		200.7 Rev 4.4	Dissolved
Antimony	0.66	J	2.0	0.40	ug/L	1		200.8	Dissolved
Barium	7.0		3.0	0.38	ug/L	1		200.8	Dissolved
Copper	0.85	J	2.0	0.71	ug/L	1		200.8	Dissolved
Molybdenum	20		2.0	0.37	ug/L	1		200.8	Dissolved
Selenium	3.3	J	5.0	1.0	ug/L	1		200.8	Dissolved
Uranium	22		1.0	0.030	ug/L	1		200.8	Dissolved
Vanadium	1.8	J	5.0	1.1	ug/L	1		200.8	Dissolved
Zinc	4.3	J	10	2.0	ug/L	1		200.8	Dissolved
Fluoride	2.2		0.50	0.17	mg/L	1		300.0	Total/NA
Nitrate as N	1.8		0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	54		5.0	1.0	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	2.3	F1	0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	280		10	4.7	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	12		4.0	1.1	mg/L	1		SM 2540D	Total/NA
Chloride	6.0		2.0	0.68	mg/L	1		SM 4500 Cl- E	Total/NA
pH adj. to 25 deg C	7.8	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	19.6	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 280-197092-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	44	J	100	1.5	ug/L	1		200.7 Rev 4.4	Dissolved
Lithium	28		20	9.1	ug/L	1		200.7 Rev 4.4	Dissolved
Barium	64		3.0	0.38	ug/L	1		200.8	Dissolved
Copper	3.0		2.0	0.71	ug/L	1		200.8	Dissolved
Manganese	1.1	J	3.0	0.51	ug/L	1		200.8	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Martin Marietta
Project/Site: Parkdale - Well Water

Job ID: 280-197092-1

Client Sample ID: MW-10 (Continued)

Lab Sample ID: 280-197092-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	6.3		2.0	0.37	ug/L	1		200.8	Dissolved
Selenium	1.9	J	5.0	1.0	ug/L	1		200.8	Dissolved
Uranium	16		1.0	0.030	ug/L	1		200.8	Dissolved
Vanadium	2.7	J	5.0	1.1	ug/L	1		200.8	Dissolved
Zinc	3.0	J	10	2.0	ug/L	1		200.8	Dissolved
Fluoride	1.8		0.50	0.17	mg/L	1		300.0	Total/NA
Nitrate as N	0.36	J	0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	100		5.0	1.0	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.40		0.10	0.044	mg/L	1		353.2	Total/NA
Total Dissolved Solids (TDS)	500		10	4.7	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	150		4.0	1.1	mg/L	1		SM 2540D	Total/NA
Chloride	9.1		2.0	0.68	mg/L	1		SM 4500 Cl- E	Total/NA
pH adj. to 25 deg C	7.3	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	19.4	HF	1.0	1.0	Degrees C	1		SM 4500 H+ B	Total/NA
Hexavalent chromium	0.0083	J	0.020	0.0040	mg/L	1		SM 3500 CR B	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Martin Marietta
Project/Site: Parkdale - Well Water

Job ID: 280-197092-1

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	EET DEN
200.8	Metals (ICP/MS)	EPA	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
SM 3500 CR B	Chromium, Hexavalent	SM	EET DEN
SM 4500 Cl- E	Chloride, Total	SM	EET DEN
SM 4500 H+ B	pH	SM	EET DEN
SM3500 CR B	Chromium, Trivalent	SM	EET DEN
200.7	Preparation, Total Recoverable Metals	EPA	EET DEN
200.8	Preparation, Total Recoverable Metals	EPA	EET DEN
FILTRATION	Sample Filtration	None	EET DEN

Protocol References:

EPA = US Environmental Protection Agency
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Martin Marietta
Project/Site: Parkdale - Well Water

Job ID: 280-197092-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-197092-1	MW-1	Water	09/24/24 10:22	09/25/24 08:15
280-197092-2	MW-3	Water	09/24/24 13:44	09/25/24 08:15
280-197092-3	MW-10	Water	09/24/24 15:29	09/25/24 08:15

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

Client Sample Results

Client: Martin Marietta
Project/Site: Parkdale - Well Water

Job ID: 280-197092-1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Client Sample ID: MW-1
Date Collected: 09/24/24 10:22
Date Received: 09/25/24 08:15

Lab Sample ID: 280-197092-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	54	J	100	1.5	ug/L		09/26/24 14:48	09/30/24 12:51	1
Lithium	18	J	20	9.1	ug/L		09/26/24 14:48	09/30/24 12:51	1

Client Sample ID: MW-3
Date Collected: 09/24/24 13:44
Date Received: 09/25/24 08:15

Lab Sample ID: 280-197092-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	48	J	100	1.5	ug/L		09/26/24 14:48	09/30/24 13:12	1
Lithium	22		20	9.1	ug/L		09/26/24 14:48	09/30/24 13:12	1

Client Sample ID: MW-10
Date Collected: 09/24/24 15:29
Date Received: 09/25/24 08:15

Lab Sample ID: 280-197092-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	44	J	100	1.5	ug/L		09/26/24 14:48	09/30/24 13:16	1
Lithium	28		20	9.1	ug/L		09/26/24 14:48	09/30/24 13:16	1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

Client Sample ID: MW-1
Date Collected: 09/24/24 10:22
Date Received: 09/25/24 08:15

Lab Sample ID: 280-197092-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.40	ug/L		09/26/24 14:48	09/27/24 22:04	1
Arsenic	ND		5.0	0.50	ug/L		09/26/24 14:48	09/27/24 22:04	1
Barium	12		3.0	0.38	ug/L		09/26/24 14:48	09/27/24 22:04	1
Beryllium	ND		1.0	0.30	ug/L		09/26/24 14:48	09/27/24 22:04	1
Cadmium	ND		1.0	0.19	ug/L		09/26/24 14:48	09/27/24 22:04	1
Chromium	ND		3.0	0.50	ug/L		09/26/24 14:48	09/27/24 22:04	1
Cobalt	ND		1.0	0.33	ug/L		09/26/24 14:48	09/27/24 22:04	1
Copper	ND		2.0	0.71	ug/L		09/26/24 14:48	09/27/24 22:04	1
Lead	ND		1.0	0.23	ug/L		09/26/24 14:48	09/27/24 22:04	1
Manganese	0.72	J	3.0	0.51	ug/L		09/26/24 14:48	09/27/24 22:04	1
Molybdenum	15		2.0	0.37	ug/L		09/26/24 14:48	09/27/24 22:04	1
Nickel	ND		3.0	0.83	ug/L		09/26/24 14:48	09/27/24 22:04	1
Selenium	4.1	J	5.0	1.0	ug/L		09/26/24 14:48	09/27/24 22:04	1
Silver	0.050	J	1.0	0.045	ug/L		10/02/24 08:40	10/02/24 17:13	1
Thallium	ND		1.0	0.21	ug/L		09/26/24 14:48	09/27/24 22:04	1
Uranium	16		1.0	0.030	ug/L		09/26/24 14:48	09/27/24 22:04	1
Vanadium	1.5	J	5.0	1.1	ug/L		09/26/24 14:48	09/27/24 22:04	1
Zinc	ND		10	2.0	ug/L		09/26/24 14:48	09/27/24 22:04	1
Aluminum	38	J	200	8.3	ug/L		09/26/24 14:48	09/27/24 22:04	1
Iron	17	J	200	8.7	ug/L		09/26/24 14:48	09/27/24 22:04	1

Client Sample ID: MW-3
Date Collected: 09/24/24 13:44
Date Received: 09/25/24 08:15

Lab Sample ID: 280-197092-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.66	J	2.0	0.40	ug/L		09/26/24 14:48	09/27/24 22:22	1
Arsenic	ND		5.0	0.50	ug/L		09/26/24 14:48	09/27/24 22:22	1
Barium	7.0		3.0	0.38	ug/L		09/26/24 14:48	09/27/24 22:22	1

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Client Sample Results

Client: Martin Marietta
Project/Site: Parkdale - Well Water

Job ID: 280-197092-1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved (Continued)

Client Sample ID: MW-3
Date Collected: 09/24/24 13:44
Date Received: 09/25/24 08:15

Lab Sample ID: 280-197092-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		1.0	0.30	ug/L		09/26/24 14:48	09/27/24 22:22	1
Cadmium	ND		1.0	0.19	ug/L		09/26/24 14:48	09/27/24 22:22	1
Chromium	ND		3.0	0.50	ug/L		09/26/24 14:48	09/27/24 22:22	1
Cobalt	ND		1.0	0.33	ug/L		09/26/24 14:48	09/27/24 22:22	1
Copper	0.85	J	2.0	0.71	ug/L		09/26/24 14:48	09/27/24 22:22	1
Lead	ND		1.0	0.23	ug/L		09/26/24 14:48	09/27/24 22:22	1
Manganese	ND		3.0	0.51	ug/L		09/26/24 14:48	09/27/24 22:22	1
Molybdenum	20		2.0	0.37	ug/L		09/26/24 14:48	09/27/24 22:22	1
Nickel	ND		3.0	0.83	ug/L		09/26/24 14:48	09/27/24 22:22	1
Selenium	3.3	J	5.0	1.0	ug/L		09/26/24 14:48	09/27/24 22:22	1
Silver	ND		1.0	0.045	ug/L		10/02/24 08:40	10/02/24 17:16	1
Thallium	ND		1.0	0.21	ug/L		09/26/24 14:48	09/27/24 22:22	1
Uranium	22		1.0	0.030	ug/L		09/26/24 14:48	09/27/24 22:22	1
Vanadium	1.8	J	5.0	1.1	ug/L		09/26/24 14:48	09/27/24 22:22	1
Zinc	4.3	J	10	2.0	ug/L		09/26/24 14:48	09/27/24 22:22	1
Aluminum	ND		200	8.3	ug/L		09/26/24 14:48	09/27/24 22:22	1
Iron	ND		200	8.7	ug/L		09/26/24 14:48	09/27/24 22:22	1

Client Sample ID: MW-10
Date Collected: 09/24/24 15:29
Date Received: 09/25/24 08:15

Lab Sample ID: 280-197092-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.40	ug/L		09/26/24 14:48	09/27/24 22:26	1
Arsenic	ND		5.0	0.50	ug/L		09/26/24 14:48	09/27/24 22:26	1
Barium	64		3.0	0.38	ug/L		09/26/24 14:48	09/27/24 22:26	1
Beryllium	ND		1.0	0.30	ug/L		09/26/24 14:48	09/27/24 22:26	1
Cadmium	ND		1.0	0.19	ug/L		09/26/24 14:48	09/27/24 22:26	1
Chromium	ND		3.0	0.50	ug/L		09/26/24 14:48	09/27/24 22:26	1
Cobalt	ND		1.0	0.33	ug/L		09/26/24 14:48	09/27/24 22:26	1
Copper	3.0		2.0	0.71	ug/L		09/26/24 14:48	09/27/24 22:26	1
Lead	ND		1.0	0.23	ug/L		09/26/24 14:48	09/27/24 22:26	1
Manganese	1.1	J	3.0	0.51	ug/L		09/26/24 14:48	09/27/24 22:26	1
Molybdenum	6.3		2.0	0.37	ug/L		09/26/24 14:48	09/27/24 22:26	1
Nickel	ND		3.0	0.83	ug/L		09/26/24 14:48	09/27/24 22:26	1
Selenium	1.9	J	5.0	1.0	ug/L		09/26/24 14:48	09/27/24 22:26	1
Silver	ND		1.0	0.045	ug/L		10/02/24 08:40	10/02/24 17:18	1
Thallium	ND		1.0	0.21	ug/L		09/26/24 14:48	09/27/24 22:26	1
Uranium	16		1.0	0.030	ug/L		09/26/24 14:48	09/27/24 22:26	1
Vanadium	2.7	J	5.0	1.1	ug/L		09/26/24 14:48	09/27/24 22:26	1
Zinc	3.0	J	10	2.0	ug/L		09/26/24 14:48	09/27/24 22:26	1
Aluminum	ND		200	8.3	ug/L		09/26/24 14:48	09/27/24 22:26	1
Iron	ND		200	8.7	ug/L		09/26/24 14:48	09/27/24 22:26	1

General Chemistry

Client Sample ID: MW-1
Date Collected: 09/24/24 10:22
Date Received: 09/25/24 08:15

Lab Sample ID: 280-197092-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	2.1		0.50	0.17	mg/L			09/25/24 21:57	1

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Client Sample Results

Client: Martin Marietta
Project/Site: Parkdale - Well Water

Job ID: 280-197092-1

General Chemistry (Continued)

Client Sample ID: MW-1
Date Collected: 09/24/24 10:22
Date Received: 09/25/24 08:15

Lab Sample ID: 280-197092-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	6.7		0.50	0.090	mg/L			09/25/24 21:57	1
Sulfate (EPA 300.0)	89		5.0	1.0	mg/L			10/01/24 17:18	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			09/25/24 21:57	1
Nitrate Nitrite as N (EPA 353.2)	6.9		0.20	0.088	mg/L			10/01/24 16:11	2
Total Dissolved Solids (TDS) (SM 2540C)	390		10	4.7	mg/L			09/26/24 09:16	1
Total Suspended Solids (SM 2540D)	33		4.0	1.1	mg/L			09/26/24 12:22	1
Chloride (SM 4500 Cl- E)	7.2		2.0	0.68	mg/L			10/03/24 11:59	1
pH adj. to 25 deg C (SM 4500 H+ B)	7.6	HF	0.1	0.1	SU			09/25/24 13:28	1
Temperature (SM 4500 H+ B)	19.7	HF	1.0	1.0	Degrees C			09/25/24 13:28	1

Client Sample ID: MW-3
Date Collected: 09/24/24 13:44
Date Received: 09/25/24 08:15

Lab Sample ID: 280-197092-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	2.2		0.50	0.17	mg/L			09/26/24 06:27	1
Nitrate as N (EPA 300.0)	1.8		0.50	0.090	mg/L			09/26/24 06:27	1
Sulfate (EPA 300.0)	54		5.0	1.0	mg/L			10/01/24 17:29	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			09/26/24 06:27	1
Nitrate Nitrite as N (EPA 353.2)	2.3	F1	0.10	0.044	mg/L			09/30/24 12:43	1
Total Dissolved Solids (TDS) (SM 2540C)	280		10	4.7	mg/L			09/26/24 09:16	1
Total Suspended Solids (SM 2540D)	12		4.0	1.1	mg/L			09/26/24 12:22	1
Chloride (SM 4500 Cl- E)	6.0		2.0	0.68	mg/L			10/03/24 11:59	1
pH adj. to 25 deg C (SM 4500 H+ B)	7.8	HF	0.1	0.1	SU			09/25/24 13:35	1
Temperature (SM 4500 H+ B)	19.6	HF	1.0	1.0	Degrees C			09/25/24 13:35	1

Client Sample ID: MW-10
Date Collected: 09/24/24 15:29
Date Received: 09/25/24 08:15

Lab Sample ID: 280-197092-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	1.8		0.50	0.17	mg/L			09/26/24 08:09	1
Nitrate as N (EPA 300.0)	0.36	J	0.50	0.090	mg/L			09/26/24 08:09	1
Sulfate (EPA 300.0)	100		5.0	1.0	mg/L			10/01/24 17:40	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			09/26/24 08:09	1
Nitrate Nitrite as N (EPA 353.2)	0.40		0.10	0.044	mg/L			09/30/24 12:47	1
Total Dissolved Solids (TDS) (SM 2540C)	500		10	4.7	mg/L			09/26/24 09:16	1
Total Suspended Solids (SM 2540D)	150		4.0	1.1	mg/L			09/26/24 12:22	1
Chloride (SM 4500 Cl- E)	9.1		2.0	0.68	mg/L			10/03/24 11:59	1
pH adj. to 25 deg C (SM 4500 H+ B)	7.3	HF	0.1	0.1	SU			09/25/24 13:39	1
Temperature (SM 4500 H+ B)	19.4	HF	1.0	1.0	Degrees C			09/25/24 13:39	1

Client Sample Results

Client: Martin Marietta
Project/Site: Parkdale - Well Water

Job ID: 280-197092-1

General Chemistry - Dissolved

Client Sample ID: MW-1
Date Collected: 09/24/24 10:22
Date Received: 09/25/24 08:15

Lab Sample ID: 280-197092-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium (SM 3500 CR B)	ND		0.020	0.0040	mg/L			09/25/24 09:50	1
Trivalent Chromium (SM3500 CR B)	ND		20	20	ug/L			10/02/24 02:12	1
Chromium (SM3500 CR B)	ND		20	20	ug/L			10/02/24 02:12	1
Hexavalent chromium (SM3500 CR B)	ND		20	20	ug/L			10/02/24 02:12	1

Client Sample ID: MW-3
Date Collected: 09/24/24 13:44
Date Received: 09/25/24 08:15

Lab Sample ID: 280-197092-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium (SM 3500 CR B)	ND		0.020	0.0040	mg/L			09/25/24 09:40	1
Trivalent Chromium (SM3500 CR B)	ND		20	20	ug/L			10/02/24 02:12	1
Chromium (SM3500 CR B)	ND		20	20	ug/L			10/02/24 02:12	1
Hexavalent chromium (SM3500 CR B)	ND		20	20	ug/L			10/02/24 02:12	1

Client Sample ID: MW-10
Date Collected: 09/24/24 15:29
Date Received: 09/25/24 08:15

Lab Sample ID: 280-197092-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium (SM 3500 CR B)	0.0083	J	0.020	0.0040	mg/L			09/25/24 09:40	1
Trivalent Chromium (SM3500 CR B)	ND		20	20	ug/L			10/02/24 02:12	1
Chromium (SM3500 CR B)	ND		20	20	ug/L			10/02/24 02:12	1
Hexavalent chromium (SM3500 CR B)	ND		20	20	ug/L			10/02/24 02:12	1

QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale - Well Water

Job ID: 280-197092-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-668672/1-B

Matrix: Water

Analysis Batch: 669244

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 668678

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.00	J	100	1.5	ug/L		09/26/24 14:48	09/30/24 12:44	1
Lithium	ND		20	9.1	ug/L		09/26/24 14:48	09/30/24 12:44	1

Lab Sample ID: LCS 280-668672/2-B

Matrix: Water

Analysis Batch: 669244

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Prep Batch: 668678

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	2000	2000		ug/L		100	86 - 110
Lithium	1000	956		ug/L		96	90 - 112

Lab Sample ID: 280-197092-1 MS

Matrix: Water

Analysis Batch: 669244

Client Sample ID: MW-1

Prep Type: Dissolved

Prep Batch: 668678

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	54	J	2000	2170		ug/L		106	70 - 130
Lithium	18	J	1000	1030		ug/L		101	70 - 130

Lab Sample ID: 280-197092-1 MSD

Matrix: Water

Analysis Batch: 669244

Client Sample ID: MW-1

Prep Type: Dissolved

Prep Batch: 668678

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	54	J	2000	2020		ug/L		98	70 - 130	7	20
Lithium	18	J	1000	945		ug/L		93	70 - 130	9	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-668672/1-B

Matrix: Water

Analysis Batch: 669051

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 668678

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0	0.40	ug/L		09/26/24 14:48	09/27/24 21:57	1
Arsenic	ND		5.0	0.50	ug/L		09/26/24 14:48	09/27/24 21:57	1
Barium	ND		3.0	0.38	ug/L		09/26/24 14:48	09/27/24 21:57	1
Beryllium	ND		1.0	0.30	ug/L		09/26/24 14:48	09/27/24 21:57	1
Cadmium	ND		1.0	0.19	ug/L		09/26/24 14:48	09/27/24 21:57	1
Chromium	ND		3.0	0.50	ug/L		09/26/24 14:48	09/27/24 21:57	1
Cobalt	ND		1.0	0.33	ug/L		09/26/24 14:48	09/27/24 21:57	1
Copper	ND		2.0	0.71	ug/L		09/26/24 14:48	09/27/24 21:57	1
Lead	ND		1.0	0.23	ug/L		09/26/24 14:48	09/27/24 21:57	1
Manganese	ND		3.0	0.51	ug/L		09/26/24 14:48	09/27/24 21:57	1
Molybdenum	ND		2.0	0.37	ug/L		09/26/24 14:48	09/27/24 21:57	1
Nickel	ND		3.0	0.83	ug/L		09/26/24 14:48	09/27/24 21:57	1
Selenium	ND		5.0	1.0	ug/L		09/26/24 14:48	09/27/24 21:57	1
Thallium	ND		1.0	0.21	ug/L		09/26/24 14:48	09/27/24 21:57	1
Uranium	ND		1.0	0.030	ug/L		09/26/24 14:48	09/27/24 21:57	1
Vanadium	ND		5.0	1.1	ug/L		09/26/24 14:48	09/27/24 21:57	1

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QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale - Well Water

Job ID: 280-197092-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 280-668672/1-B
Matrix: Water
Analysis Batch: 669051

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 668678

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10	2.0	ug/L		09/26/24 14:48	09/27/24 21:57	1
Aluminum	ND		200	8.3	ug/L		09/26/24 14:48	09/27/24 21:57	1
Iron	ND		200	8.7	ug/L		09/26/24 14:48	09/27/24 21:57	1

Lab Sample ID: LCS 280-668672/13-B
Matrix: Water
Analysis Batch: 669051

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 668678

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	40.0	39.4		ug/L		98	85 - 115
Arsenic	40.0	41.0		ug/L		102	89 - 111
Barium	40.0	39.4		ug/L		98	89 - 115
Beryllium	40.0	39.7		ug/L		99	85 - 115
Cadmium	40.0	40.9		ug/L		102	89 - 111
Chromium	40.0	40.0		ug/L		100	86 - 115
Cobalt	40.0	40.6		ug/L		102	92 - 115
Copper	40.0	40.6		ug/L		102	90 - 115
Lead	40.0	39.7		ug/L		99	88 - 115
Manganese	40.0	39.2		ug/L		98	87 - 115
Molybdenum	40.0	40.3		ug/L		101	89 - 112
Nickel	40.0	40.4		ug/L		101	86 - 115
Selenium	40.0	39.2		ug/L		98	85 - 114
Thallium	40.0	40.1		ug/L		100	86 - 115
Uranium	40.0	37.8		ug/L		95	85 - 115
Vanadium	40.0	38.5		ug/L		96	90 - 115
Zinc	40.0	40.0		ug/L		100	88 - 115
Aluminum	800	814		ug/L		102	85 - 115
Iron	800	806		ug/L		101	85 - 115

Lab Sample ID: 280-197092-1 MS
Matrix: Water
Analysis Batch: 669051

Client Sample ID: MW-1
Prep Type: Dissolved
Prep Batch: 668678

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		40.0	40.2		ug/L		101	85 - 115
Arsenic	ND		40.0	38.7		ug/L		97	79 - 120
Barium	12		40.0	50.1		ug/L		94	89 - 115
Beryllium	ND		40.0	37.9		ug/L		95	85 - 115
Cadmium	ND		40.0	41.6		ug/L		104	89 - 111
Chromium	ND		40.0	38.4		ug/L		96	86 - 115
Cobalt	ND		40.0	38.3		ug/L		96	92 - 115
Copper	ND		40.0	38.9		ug/L		97	90 - 115
Lead	ND		40.0	38.3		ug/L		96	88 - 115
Manganese	0.72	J	40.0	38.8		ug/L		95	87 - 115
Molybdenum	15		40.0	55.8		ug/L		103	89 - 112
Nickel	ND		40.0	39.0		ug/L		98	86 - 115
Selenium	4.1	J	40.0	41.4		ug/L		93	85 - 114
Thallium	ND		40.0	38.4		ug/L		96	86 - 115
Uranium	16		40.0	55.3		ug/L		98	85 - 115

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QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale - Well Water

Job ID: 280-197092-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-197092-1 MS

Matrix: Water

Analysis Batch: 669051

Client Sample ID: MW-1

Prep Type: Dissolved

Prep Batch: 668678

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Vanadium	1.5	J	40.0	40.2		ug/L		97	90 - 115
Zinc	ND		40.0	41.3		ug/L		103	88 - 115
Aluminum	38	J	800	848		ug/L		101	85 - 115
Iron	17	J	800	794		ug/L		97	85 - 115

Lab Sample ID: 280-197092-1 MSD

Matrix: Water

Analysis Batch: 669051

Client Sample ID: MW-1

Prep Type: Dissolved

Prep Batch: 668678

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		40.0	39.6		ug/L		99	85 - 115	2	20
Arsenic	ND		40.0	38.7		ug/L		97	79 - 120	0	20
Barium	12		40.0	51.7		ug/L		98	89 - 115	3	20
Beryllium	ND		40.0	39.0		ug/L		97	85 - 115	3	20
Cadmium	ND		40.0	39.0		ug/L		97	89 - 111	6	20
Chromium	ND		40.0	38.9		ug/L		97	86 - 115	1	20
Cobalt	ND		40.0	37.8		ug/L		94	92 - 115	1	20
Copper	ND		40.0	38.2		ug/L		95	90 - 115	2	20
Lead	ND		40.0	37.8		ug/L		94	88 - 115	1	20
Manganese	0.72	J	40.0	37.2		ug/L		91	87 - 115	4	20
Molybdenum	15		40.0	55.3		ug/L		102	89 - 112	1	20
Nickel	ND		40.0	36.4		ug/L		91	86 - 115	7	20
Selenium	4.1	J	40.0	42.4		ug/L		96	85 - 114	2	20
Thallium	ND		40.0	37.7		ug/L		94	86 - 115	2	20
Uranium	16		40.0	54.6		ug/L		97	85 - 115	1	20
Vanadium	1.5	J	40.0	39.5		ug/L		95	90 - 115	2	20
Zinc	ND		40.0	39.1		ug/L		98	88 - 115	5	20
Aluminum	38	J	800	788		ug/L		94	85 - 115	7	20
Iron	17	J	800	765		ug/L		93	85 - 115	4	20

Lab Sample ID: MB 280-669253/1-B

Matrix: Water

Analysis Batch: 669606

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 669259

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.0	0.045	ug/L		10/02/24 08:40	10/02/24 17:09	1

Lab Sample ID: LCS 280-669253/2-B

Matrix: Water

Analysis Batch: 669712

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Prep Batch: 669259

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	50.0	45.7		ug/L		91	90 - 114

Lab Sample ID: 280-197092-3 MS

Matrix: Water

Analysis Batch: 669606

Client Sample ID: MW-10

Prep Type: Dissolved

Prep Batch: 669259

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	ND		40.0	31.5		ug/L		79	70 - 130

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QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale - Well Water

Job ID: 280-197092-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: 280-197092-3 MSD
Matrix: Water
Analysis Batch: 669606

Client Sample ID: MW-10
Prep Type: Dissolved
Prep Batch: 669259

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	ND		40.0	30.9		ug/L		77	70 - 130	2	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-668600/39
Matrix: Water
Analysis Batch: 668600

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			09/26/24 00:30	1
Nitrite as N	ND		0.50	0.049	mg/L			09/26/24 00:30	1

Lab Sample ID: MB 280-668600/6
Matrix: Water
Analysis Batch: 668600

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			09/25/24 15:04	1
Nitrite as N	ND		0.50	0.049	mg/L			09/25/24 15:04	1

Lab Sample ID: LCS 280-668600/37
Matrix: Water
Analysis Batch: 668600

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.89		mg/L		98	90 - 110
Nitrite as N	5.00	4.97		mg/L		99	90 - 110

Lab Sample ID: LCS 280-668600/4
Matrix: Water
Analysis Batch: 668600

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.90		mg/L		98	90 - 110
Nitrite as N	5.00	4.99		mg/L		100	90 - 110

Lab Sample ID: LCSD 280-668600/38
Matrix: Water
Analysis Batch: 668600

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	5.00	4.89		mg/L		98	90 - 110	0	10
Nitrite as N	5.00	5.05		mg/L		101	90 - 110	2	10

Lab Sample ID: LCSD 280-668600/5
Matrix: Water
Analysis Batch: 668600

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	5.00	4.90		mg/L		98	90 - 110	0	10

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QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale - Well Water

Job ID: 280-197092-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 280-668600/5

Matrix: Water

Analysis Batch: 668600

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrite as N	5.00	5.05		mg/L		101	90 - 110	1	10

Lab Sample ID: MRL 280-668600/3

Matrix: Water

Analysis Batch: 668600

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	0.500	0.462	J	mg/L		92	50 - 150		
Nitrite as N	0.500	0.471	J	mg/L		94	50 - 150		

Lab Sample ID: MB 280-668601/39

Matrix: Water

Analysis Batch: 668601

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.50	0.17	mg/L			09/26/24 00:30	1

Lab Sample ID: MB 280-668601/6

Matrix: Water

Analysis Batch: 668601

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.50	0.17	mg/L			09/25/24 15:04	1

Lab Sample ID: LCS 280-668601/37

Matrix: Water

Analysis Batch: 668601

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride	5.00	5.07		mg/L		101	90 - 110		

Lab Sample ID: LCS 280-668601/4

Matrix: Water

Analysis Batch: 668601

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride	5.00	5.23		mg/L		105	90 - 110		

Lab Sample ID: LCSD 280-668601/38

Matrix: Water

Analysis Batch: 668601

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	5.00	5.11		mg/L		102	90 - 110	1	10

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QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale - Well Water

Job ID: 280-197092-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 280-668601/5

Matrix: Water

Analysis Batch: 668601

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	5.00	5.22		mg/L		104	90 - 110	0	10

Lab Sample ID: MRL 280-668601/3

Matrix: Water

Analysis Batch: 668601

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride	0.500	0.502		mg/L		100	50 - 150		

Lab Sample ID: MB 280-669332/6

Matrix: Water

Analysis Batch: 669332

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	1.0	mg/L			10/01/24 13:13	1

Lab Sample ID: LCS 280-669332/4

Matrix: Water

Analysis Batch: 669332

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	100	99.7		mg/L		100	90 - 110		

Lab Sample ID: LCSD 280-669332/5

Matrix: Water

Analysis Batch: 669332

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	100	100		mg/L		100	90 - 110	0	10

Lab Sample ID: MRL 280-669332/3

Matrix: Water

Analysis Batch: 669332

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	5.00	4.84	J	mg/L		97	50 - 150		

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-669271/20

Matrix: Water

Analysis Batch: 669271

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.10	0.044	mg/L			09/30/24 12:19	1

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QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale - Well Water

Job ID: 280-197092-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 280-669271/18

Matrix: Water

Analysis Batch: 669271

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.00	1.06		mg/L		106	90 - 110

Lab Sample ID: LCSD 280-669271/19

Matrix: Water

Analysis Batch: 669271

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	1.00	1.07		mg/L		107	90 - 110	0	10

Lab Sample ID: 280-197092-2 MS

Matrix: Water

Analysis Batch: 669271

Client Sample ID: MW-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	2.3	F1	2.00	4.72	F1	mg/L		120	90 - 110

Lab Sample ID: 280-197092-2 MSD

Matrix: Water

Analysis Batch: 669271

Client Sample ID: MW-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	2.3	F1	2.00	4.79	F1	mg/L		124	90 - 110	2	10

Lab Sample ID: MB 280-669394/20

Matrix: Water

Analysis Batch: 669394

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.10	0.044	mg/L			10/01/24 16:06	1

Lab Sample ID: LCS 280-669394/18

Matrix: Water

Analysis Batch: 669394

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.00	1.04		mg/L		104	90 - 110

Lab Sample ID: LCSD 280-669394/19

Matrix: Water

Analysis Batch: 669394

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	1.00	1.05		mg/L		105	90 - 110	1	10

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QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale - Well Water

Job ID: 280-197092-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-668767/1
Matrix: Water
Analysis Batch: 668767

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		10	4.7	mg/L			09/26/24 09:16	1

Lab Sample ID: LCS 280-668767/2
Matrix: Water
Analysis Batch: 668767

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids (TDS)	503	498		mg/L		99	88 - 114

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-668817/1
Matrix: Water
Analysis Batch: 668817

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.1	mg/L			09/26/24 12:22	1

Lab Sample ID: LCS 280-668817/2
Matrix: Water
Analysis Batch: 668817

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	503	479		mg/L		95	79 - 114

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-668593/3-A
Matrix: Water
Analysis Batch: 668684

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	ND		0.020	0.0040	mg/L			09/25/24 09:38	1

Lab Sample ID: LCS 280-668593/1-A
Matrix: Water
Analysis Batch: 668684

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexavalent chromium	0.100	0.100		mg/L		100	91 - 112

Lab Sample ID: LCSD 280-668593/2-A
Matrix: Water
Analysis Batch: 668684

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexavalent chromium	0.100	0.100		mg/L		100	91 - 112	0	20

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QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale - Well Water

Job ID: 280-197092-1

Method: SM 3500 CR B - Chromium, Hexavalent (Continued)

Lab Sample ID: 280-197092-1 MS

Matrix: Water

Analysis Batch: 668684

Client Sample ID: MW-1

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Hexavalent chromium	ND		0.100	0.0993		mg/L		99	91 - 112		

Lab Sample ID: 280-197092-1 MSD

Matrix: Water

Analysis Batch: 668684

Client Sample ID: MW-1

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexavalent chromium	ND		0.100	0.101		mg/L		101	91 - 112	2	20

Lab Sample ID: 280-197092-1 DU

Matrix: Water

Analysis Batch: 668684

Client Sample ID: MW-1

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Hexavalent chromium	ND			ND		mg/L				NC	20

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 280-669677/15

Matrix: Water

Analysis Batch: 669677

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		2.0	0.68	mg/L			10/03/24 11:43	1

Lab Sample ID: LCS 280-669677/13

Matrix: Water

Analysis Batch: 669677

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			20.0	20.0		mg/L		100	90 - 110		

Lab Sample ID: LCSD 280-669677/14

Matrix: Water

Analysis Batch: 669677

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			20.0	20.1		mg/L		100	90 - 110	1	10

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-668690/4

Matrix: Water

Analysis Batch: 668690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH adj. to 25 deg C			7.00	7.0		SU		100	99 - 101		

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QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale - Well Water

Job ID: 280-197092-1

Method: SM 4500 H+ B - pH (Continued)

Lab Sample ID: 280-197092-1 DU							Client Sample ID: MW-1			
Matrix: Water							Prep Type: Total/NA			
Analysis Batch: 668690										
Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D		RPD	RPD Limit
pH adj. to 25 deg C	7.6	HF		7.7		SU			1	5
Temperature	19.7	HF		19.3		Degrees C			2	10

QC Association Summary

Client: Martin Marietta
Project/Site: Parkdale - Well Water

Job ID: 280-197092-1

Metals

Filtration Batch: 668672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197092-1	MW-1	Dissolved	Water	Filtration	
280-197092-1	MW-1	Dissolved	Water	Filtration	
280-197092-2	MW-3	Dissolved	Water	Filtration	
280-197092-3	MW-10	Dissolved	Water	Filtration	
MB 280-668672/1-B	Method Blank	Dissolved	Water	Filtration	
LCS 280-668672/13-B	Lab Control Sample	Dissolved	Water	Filtration	
LCS 280-668672/2-B	Lab Control Sample	Dissolved	Water	Filtration	
280-197092-1 MS	MW-1	Dissolved	Water	Filtration	
280-197092-1 MS	MW-1	Dissolved	Water	Filtration	
280-197092-1 MSD	MW-1	Dissolved	Water	Filtration	
280-197092-1 MSD	MW-1	Dissolved	Water	Filtration	

Prep Batch: 668678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197092-1	MW-1	Dissolved	Water	200.7	668672
280-197092-1	MW-1	Dissolved	Water	200.8	668672
280-197092-2	MW-3	Dissolved	Water	200.7	668672
280-197092-3	MW-10	Dissolved	Water	200.7	668672
MB 280-668672/1-B	Method Blank	Dissolved	Water	200.7	668672
LCS 280-668672/13-B	Lab Control Sample	Dissolved	Water	200.7	668672
LCS 280-668672/2-B	Lab Control Sample	Dissolved	Water	200.7	668672
280-197092-1 MS	MW-1	Dissolved	Water	200.7	668672
280-197092-1 MS	MW-1	Dissolved	Water	200.8	668672
280-197092-1 MSD	MW-1	Dissolved	Water	200.7	668672
280-197092-1 MSD	MW-1	Dissolved	Water	200.8	668672

Analysis Batch: 669051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197092-1	MW-1	Dissolved	Water	200.8	668678
280-197092-2	MW-3	Dissolved	Water	200.8	668678
280-197092-3	MW-10	Dissolved	Water	200.8	668678
MB 280-668672/1-B	Method Blank	Dissolved	Water	200.8	668678
LCS 280-668672/13-B	Lab Control Sample	Dissolved	Water	200.8	668678
280-197092-1 MS	MW-1	Dissolved	Water	200.8	668678
280-197092-1 MSD	MW-1	Dissolved	Water	200.8	668678

Analysis Batch: 669244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197092-1	MW-1	Dissolved	Water	200.7 Rev 4.4	668678
280-197092-2	MW-3	Dissolved	Water	200.7 Rev 4.4	668678
280-197092-3	MW-10	Dissolved	Water	200.7 Rev 4.4	668678
MB 280-668672/1-B	Method Blank	Dissolved	Water	200.7 Rev 4.4	668678
LCS 280-668672/2-B	Lab Control Sample	Dissolved	Water	200.7 Rev 4.4	668678
280-197092-1 MS	MW-1	Dissolved	Water	200.7 Rev 4.4	668678
280-197092-1 MSD	MW-1	Dissolved	Water	200.7 Rev 4.4	668678

Filtration Batch: 669253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197092-1	MW-1	Dissolved	Water	Filtration	
280-197092-2	MW-3	Dissolved	Water	Filtration	
280-197092-3	MW-10	Dissolved	Water	Filtration	

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QC Association Summary

Client: Martin Marietta
Project/Site: Parkdale - Well Water

Job ID: 280-197092-1

Metals (Continued)

Filtration Batch: 669253 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-669253/1-B	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-669253/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
280-197092-3 MS	MW-10	Dissolved	Water	Filtration	
280-197092-3 MSD	MW-10	Dissolved	Water	Filtration	

Prep Batch: 669259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197092-1	MW-1	Dissolved	Water	200.7	669253
280-197092-2	MW-3	Dissolved	Water	200.7	669253
280-197092-3	MW-10	Dissolved	Water	200.7	669253
MB 280-669253/1-B	Method Blank	Dissolved	Water	200.7	669253
LCS 280-669253/2-B	Lab Control Sample	Dissolved	Water	200.7	669253
280-197092-3 MS	MW-10	Dissolved	Water	200.8	669253
280-197092-3 MSD	MW-10	Dissolved	Water	200.8	669253

Analysis Batch: 669606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197092-1	MW-1	Dissolved	Water	200.8	669259
280-197092-2	MW-3	Dissolved	Water	200.8	669259
280-197092-3	MW-10	Dissolved	Water	200.8	669259
MB 280-669253/1-B	Method Blank	Dissolved	Water	200.8	669259
280-197092-3 MS	MW-10	Dissolved	Water	200.8	669259
280-197092-3 MSD	MW-10	Dissolved	Water	200.8	669259

Analysis Batch: 669712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-669253/2-B	Lab Control Sample	Dissolved	Water	200.8	669259

General Chemistry

Filtration Batch: 668593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197092-1	MW-1	Dissolved	Water	FILTRATION	
280-197092-1	MW-1	Dissolved	Water	FILTRATION	
280-197092-2	MW-3	Dissolved	Water	FILTRATION	
280-197092-2	MW-3	Dissolved	Water	FILTRATION	
280-197092-3	MW-10	Dissolved	Water	FILTRATION	
280-197092-3	MW-10	Dissolved	Water	FILTRATION	
MB 280-668593/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-668593/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-668593/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-197092-1 MS	MW-1	Dissolved	Water	FILTRATION	
280-197092-1 MSD	MW-1	Dissolved	Water	FILTRATION	
280-197092-1 DU	MW-1	Dissolved	Water	FILTRATION	

Analysis Batch: 668600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197092-1	MW-1	Total/NA	Water	300.0	
280-197092-2	MW-3	Total/NA	Water	300.0	
280-197092-3	MW-10	Total/NA	Water	300.0	
MB 280-668600/39	Method Blank	Total/NA	Water	300.0	

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QC Association Summary

Client: Martin Marietta
Project/Site: Parkdale - Well Water

Job ID: 280-197092-1

General Chemistry (Continued)

Analysis Batch: 668600 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-668600/6	Method Blank	Total/NA	Water	300.0	
LCS 280-668600/37	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-668600/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-668600/38	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-668600/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-668600/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 668601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197092-1	MW-1	Total/NA	Water	300.0	
280-197092-2	MW-3	Total/NA	Water	300.0	
280-197092-3	MW-10	Total/NA	Water	300.0	
MB 280-668601/39	Method Blank	Total/NA	Water	300.0	
MB 280-668601/6	Method Blank	Total/NA	Water	300.0	
LCS 280-668601/37	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-668601/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-668601/38	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-668601/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-668601/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 668684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197092-1	MW-1	Dissolved	Water	SM 3500 CR B	668593
280-197092-2	MW-3	Dissolved	Water	SM 3500 CR B	668593
280-197092-3	MW-10	Dissolved	Water	SM 3500 CR B	668593
MB 280-668593/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	668593
LCS 280-668593/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	668593
LCSD 280-668593/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	668593
280-197092-1 MS	MW-1	Dissolved	Water	SM 3500 CR B	668593
280-197092-1 MSD	MW-1	Dissolved	Water	SM 3500 CR B	668593
280-197092-1 DU	MW-1	Dissolved	Water	SM 3500 CR B	668593

Analysis Batch: 668690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197092-1	MW-1	Total/NA	Water	SM 4500 H+ B	
280-197092-2	MW-3	Total/NA	Water	SM 4500 H+ B	
280-197092-3	MW-10	Total/NA	Water	SM 4500 H+ B	
LCS 280-668690/4	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
280-197092-1 DU	MW-1	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 668767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197092-1	MW-1	Total/NA	Water	SM 2540C	
280-197092-2	MW-3	Total/NA	Water	SM 2540C	
280-197092-3	MW-10	Total/NA	Water	SM 2540C	
MB 280-668767/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-668767/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 668817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197092-1	MW-1	Total/NA	Water	SM 2540D	

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QC Association Summary

Client: Martin Marietta
Project/Site: Parkdale - Well Water

Job ID: 280-197092-1

General Chemistry (Continued)

Analysis Batch: 668817 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197092-2	MW-3	Total/NA	Water	SM 2540D	
280-197092-3	MW-10	Total/NA	Water	SM 2540D	
MB 280-668817/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-668817/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 669271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197092-2	MW-3	Total/NA	Water	353.2	
280-197092-3	MW-10	Total/NA	Water	353.2	
MB 280-669271/20	Method Blank	Total/NA	Water	353.2	
LCS 280-669271/18	Lab Control Sample	Total/NA	Water	353.2	
LCSD 280-669271/19	Lab Control Sample Dup	Total/NA	Water	353.2	
280-197092-2 MS	MW-3	Total/NA	Water	353.2	
280-197092-2 MSD	MW-3	Total/NA	Water	353.2	

Analysis Batch: 669332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197092-1	MW-1	Total/NA	Water	300.0	
280-197092-2	MW-3	Total/NA	Water	300.0	
280-197092-3	MW-10	Total/NA	Water	300.0	
MB 280-669332/6	Method Blank	Total/NA	Water	300.0	
LCS 280-669332/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-669332/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-669332/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 669394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197092-1	MW-1	Total/NA	Water	353.2	
MB 280-669394/20	Method Blank	Total/NA	Water	353.2	
LCS 280-669394/18	Lab Control Sample	Total/NA	Water	353.2	
LCSD 280-669394/19	Lab Control Sample Dup	Total/NA	Water	353.2	

Analysis Batch: 669401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197092-1	MW-1	Dissolved	Water	SM3500 CR B	668593
280-197092-2	MW-3	Dissolved	Water	SM3500 CR B	668593
280-197092-3	MW-10	Dissolved	Water	SM3500 CR B	668593

Analysis Batch: 669677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197092-1	MW-1	Total/NA	Water	SM 4500 Cl- E	
280-197092-2	MW-3	Total/NA	Water	SM 4500 Cl- E	
280-197092-3	MW-10	Total/NA	Water	SM 4500 Cl- E	
MB 280-669677/15	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 280-669677/13	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCSD 280-669677/14	Lab Control Sample Dup	Total/NA	Water	SM 4500 Cl- E	

Lab Chronicle

Client: Martin Marietta
Project/Site: Parkdale - Well Water

Job ID: 280-197092-1

Client Sample ID: MW-1

Date Collected: 09/24/24 10:22

Date Received: 09/25/24 08:15

Lab Sample ID: 280-197092-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			1.0 mL	1.0 mL	668672	09/25/24 13:02	SLH	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	668678	09/26/24 14:48	SLH	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			669244	09/30/24 12:51	NKC	EET DEN
Dissolved	Filtration	Filtration			1.0 mL	1.0 mL	668672	09/25/24 13:05	SLH	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	668678	09/26/24 14:48	SLH	EET DEN
Dissolved	Analysis	200.8		1			669051	09/27/24 22:04	LMT	EET DEN
Dissolved	Filtration	Filtration			50 mL	50 mL	669253	09/30/24 18:33	AMH	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	669259	10/02/24 08:40	AMH	EET DEN
Dissolved	Analysis	200.8		1			669606	10/02/24 17:13	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	668600	09/25/24 21:57	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	668601	09/25/24 21:57	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	669332	10/01/24 17:18	IRC	EET DEN
Total/NA	Analysis	353.2		2	100 mL	100 mL	669394	10/01/24 16:11	AKF	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	668767	09/26/24 09:16	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	668817	09/26/24 12:22	BRD	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	668593	09/25/24 09:28	CLP	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	668684	09/25/24 09:50	CLP	EET DEN
Total/NA	Analysis	SM 4500 CI- E		1	2 mL	2 mL	669677	10/03/24 11:59	CLP	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			668690	09/25/24 13:28	EL	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	668593	09/25/24 12:31	CLP	EET DEN
Dissolved	Analysis	SM3500 CR B		1			669401	10/02/24 02:12	P1C	EET DEN

Client Sample ID: MW-3

Date Collected: 09/24/24 13:44

Date Received: 09/25/24 08:15

Lab Sample ID: 280-197092-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			1.0 mL	1.0 mL	668672	09/25/24 13:02	SLH	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	668678	09/26/24 14:48	SLH	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			669244	09/30/24 13:12	NKC	EET DEN
Dissolved	Filtration	Filtration			1.0 mL	1.0 mL	668672	09/25/24 13:02	SLH	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	668678	09/26/24 14:48	SLH	EET DEN
Dissolved	Analysis	200.8		1			669051	09/27/24 22:22	LMT	EET DEN
Dissolved	Filtration	Filtration			50 mL	50 mL	669253	09/30/24 18:33	AMH	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	669259	10/02/24 08:40	AMH	EET DEN
Dissolved	Analysis	200.8		1			669606	10/02/24 17:16	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	668600	09/26/24 06:27	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	668601	09/26/24 06:27	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	669332	10/01/24 17:29	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	669271	09/30/24 12:43	AKF	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	668767	09/26/24 09:16	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	668817	09/26/24 12:22	BRD	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	668593	09/25/24 09:28	CLP	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	668684	09/25/24 09:40	CLP	EET DEN

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Lab Chronicle

Client: Martin Marietta
Project/Site: Parkdale - Well Water

Job ID: 280-197092-1

Client Sample ID: MW-3

Date Collected: 09/24/24 13:44

Date Received: 09/25/24 08:15

Lab Sample ID: 280-197092-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	669677	10/03/24 11:59	CLP	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			668690	09/25/24 13:35	EL	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	668593	09/25/24 12:31	CLP	EET DEN
Dissolved	Analysis	SM3500 CR B		1			669401	10/02/24 02:12	P1C	EET DEN

Client Sample ID: MW-10

Date Collected: 09/24/24 15:29

Date Received: 09/25/24 08:15

Lab Sample ID: 280-197092-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			1.0 mL	1.0 mL	668672	09/25/24 13:02	SLH	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	668678	09/26/24 14:48	SLH	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			669244	09/30/24 13:16	NKC	EET DEN
Dissolved	Filtration	Filtration			1.0 mL	1.0 mL	668672	09/25/24 13:02	SLH	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	668678	09/26/24 14:48	SLH	EET DEN
Dissolved	Analysis	200.8		1			669051	09/27/24 22:26	LMT	EET DEN
Dissolved	Filtration	Filtration			50 mL	50 mL	669253	09/30/24 18:33	AMH	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	669259	10/02/24 08:40	AMH	EET DEN
Dissolved	Analysis	200.8		1			669606	10/02/24 17:18	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	668600	09/26/24 08:09	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	668601	09/26/24 08:09	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	669332	10/01/24 17:40	IRC	EET DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	669271	09/30/24 12:47	AKF	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	668767	09/26/24 09:16	BRD	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	668817	09/26/24 12:22	BRD	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	668593	09/25/24 09:28	CLP	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	668684	09/25/24 09:40	CLP	EET DEN
Total/NA	Analysis	SM 4500 Cl- E		1	2 mL	2 mL	669677	10/03/24 11:59	CLP	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			668690	09/25/24 13:39	EL	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	668593	09/25/24 12:31	CLP	EET DEN
Dissolved	Analysis	SM3500 CR B		1			669401	10/02/24 02:12	P1C	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: Martin Marietta
Project/Site: Parkdale - Well Water

Job ID: 280-197092-1

Laboratory: Eurofins Denver

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-25
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-25
California	State	2513	01-08-25
Colorado	Petroleum Storage Tank Program	4025 (or)	01-08-25
Colorado	State	CO00026	06-30-25
Connecticut	State	PH-0686	09-30-24 *
Florida	NELAP	E87667-57	06-30-25
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-25
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-25
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-08	07-31-25
New Hampshire	NELAP	2053	04-28-25
New Jersey	NELAP	230001	06-30-25
New York	NELAP	59923	04-01-25
North Dakota	State	R-034	01-08-25
Oklahoma	NELAP	8614	08-31-24 *
Oregon	NELAP	4025	01-08-25
Pennsylvania	NELAP	013	07-31-25
South Carolina	State	72002001	01-08-24 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183	09-30-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO00026	07-31-25
Virginia	NELAP	460232	06-14-25
Washington	State	C583	08-03-25
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-25
Wyoming (UST)	A2LA	2907.01	10-31-25

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

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Chain of Custody Record



Client Information		Sampler: <u>Phillip Courtney</u>		Lab PM: <u>Stone, Natalie B</u>	Carrier Tracking No(s):	COC No: <u>280-139334-38301.1</u>
Client Contact: <u>Beth Heare</u>		Phone: <u>303-902-0964</u>		E-Mail: <u>Natalie.Stone@eurofins.com</u>	State of Origin:	Page: <u>2 of 2</u>
Company: <u>Martin Marietta</u>		PWSID:		Job #:		
Address: <u>1627 Cole Blvd., Suite 200</u>		Analysis Requested				
City: <u>Lakewood</u>		Due Date Requested:				
State, Zip: <u>CO, 80401</u>		TAT Requested (days):				
Phone: <u>720-245-6454 (Tel)</u>		Compliance Project: <u>1002 Δ No</u>				
Email: <u>Phillip.Courtney@martinmarietta.com</u>		Pre-Payment by CC Required				
Project Name: <u>Beth Heare@martinmarietta.com</u>		WO #:				
Project #:		Project #:				
Site: <u>Parkdale - Well Water</u>		SSOW#:				
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Preservation Code	Matrix (W=water, S=solid, O=waste, oil, BT=Tissue, A=Air)
<u>MW-1</u>	<u>9-24-24</u>	<u>10:22</u>	<u>6</u>	<u>6</u>	<u>6</u>	<u>Water</u>
<u>MW-3</u>	<u>9-24-24</u>	<u>1:44 PM</u>	<u>6</u>	<u>6</u>	<u>6</u>	<u>Water</u>
<u>MW-10</u>	<u>9-24-24</u>	<u>3:25 PM</u>	<u>6</u>	<u>6</u>	<u>6</u>	<u>Water</u>
Field Filtered Sample (Yes or No) ☒						
Perform MS/MSD (Yes or No) ☒						
3500 CR B - Dissolved Hex Cr (Lab Filter) / SM3500 CR3 B -						
353.2 Pres - Nitrate-Nitrite						
2540C Calcd - TDS / 2540D - TSS / 300.0 28D - FI / 300.48HR						
200.7, 200.8 - Dissolved Metals (Lab Filter)						
SM4500 Cl _E - Total Cl / pH / SM4500 SO ₄ E - Total SO ₄						
Total Number of Containers						
Special Instructions/Note:						
						
280-197092 Chain of Custody						
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological						
Deliverable Requested: I, II, III, IV, Other (specify)						
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months						
Special Instructions/QC Requirements:						
Empty Kit Relinquished by:						
Date: <u>9-25-25</u> Time:						
Relinquished by: <u>Phillip Courtney</u> Company						
Date/Time:						
Relinquished by: Company						
Date/Time:						
Relinquished by: Company						
Date/Time:						
Custody Seals Intact: <u>Δ Yes Δ No</u>						
Custody Seal No.:						
Cooler Temperature(s) °C and Other Remarks: <u>4.47 min (FO)</u>						
Date/Time: <u>9/25/24 08:15</u> Company: <u>STON</u>						
Date/Time: Company:						
Date/Time: Company:						

Login Sample Receipt Checklist

Client: Martin Marietta

Job Number: 280-197092-1

Login Number: 197092

List Number: 1

Creator: Naylis, Patrick J

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Julie Mikulas
Martin Marietta
11252 Aurora Ave.
Des Moines, Iowa 50322
Generated 10/4/2024 12:50:23 PM

JOB DESCRIPTION

Parkdale - Surface Water

JOB NUMBER

280-197093-1

Eurofins Denver

Job Notes

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

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

Authorization



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10/4/2024 12:50:23 PM

Authorized for release by
Natalie Stone, Project Manager
Natalie.Stone@et.eurofinsus.com
(303)736-0100



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Definitions/Glossary

Client: Martin Marietta
Project/Site: Parkdale - Surface Water

Job ID: 280-197093-1

Qualifiers

Metals

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

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: Martin Marietta
Project: Parkdale - Surface Water

Job ID: 280-197093-1

Job ID: 280-197093-1

Eurofins Denver

Job Narrative 280-197093-1

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

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

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

Receipt

The samples were received on 9/25/2024 8:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C.

Receipt Exceptions

The following sample(s) was received with less than 1 day remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 24 hours or less. As such, the laboratory may have insufficient time remaining to perform the analysis within holding time: TC-2 (280-197093-1), CC-2 (280-197093-2) and CC-1 (280-197093-3).

Method 200.8 - Metals (ICP/MS) - Dissolved

Samples TC-2 (280-197093-1), CC-2 (280-197093-2) and CC-1 (280-197093-3) were analyzed for Metals (ICP/MS) - Dissolved. The samples were prepared on 9/26/2024 and 10/2/2024 and analyzed on 9/27/2024, 9/28/2024 and 10/2/2024.

A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: The LCS/MS/MSD was spiked at a non-standard spike level due to a known contamination issue with the ICPMS spikes error. This does not have an effect on data quality.

Method SM 2540D - Solids, Total Suspended (TSS)

Samples TC-2 (280-197093-1), CC-2 (280-197093-2) and CC-1 (280-197093-3) were analyzed for Solids, Total Suspended (TSS). The samples were analyzed on 9/26/2024.

Method 300.0 - Anions, Ion Chromatography

Samples TC-2 (280-197093-1), CC-2 (280-197093-2) and CC-1 (280-197093-3) were analyzed for Anions, Ion Chromatography. The samples were analyzed on 9/26/2024 and 10/1/2024.

Method 300.0 - Anions, Ion Chromatography

Samples TC-2 (280-197093-1), CC-2 (280-197093-2) and CC-1 (280-197093-3) were analyzed for Anions, Ion Chromatography. The samples were analyzed on 9/26/2024.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 280-668600 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: (280-197093-A-3 MS) and (280-197093-A-3 MSD).

Method 350.1 - Nitrogen, Ammonia

Samples TC-2 (280-197093-1), CC-2 (280-197093-2) and CC-1 (280-197093-3) were analyzed for Nitrogen, Ammonia. The samples were analyzed on 9/27/2024.

Method SM 3500 CR B - Chromium, Hexavalent - Dissolved

Samples TC-2 (280-197093-1), CC-2 (280-197093-2) and CC-1 (280-197093-3) were analyzed for Chromium, Hexavalent - Dissolved. The samples were analyzed on 9/25/2024.

Method SM3500 CR B - Chromium, Trivalent - Dissolved

Samples TC-2 (280-197093-1), CC-2 (280-197093-2) and CC-1 (280-197093-3) were analyzed for Chromium, Trivalent - Dissolved. The samples were analyzed on 10/4/2024.

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Case Narrative

Client: Martin Marietta
Project: Parkdale - Surface Water

Job ID: 280-197093-1

Job ID: 280-197093-1 (Continued)

Eurofins Denver

Method SM 4500 Cl- E - Chloride, Total

Samples TC-2 (280-197093-1), CC-2 (280-197093-2) and CC-1 (280-197093-3) were analyzed for Chloride, Total. The samples were analyzed on 10/3/2024.

Samples TC-2 (280-197093-1)[5x], CC-2 (280-197093-2)[5x] and CC-1 (280-197093-3)[5x] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method SM 4500 S2 D - Sulfide, Total

Samples TC-2 (280-197093-1), CC-2 (280-197093-2) and CC-1 (280-197093-3) were analyzed for Sulfide, Total. The samples were analyzed on 9/25/2024.

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Detection Summary

Client: Martin Marietta
Project/Site: Parkdale - Surface Water

Job ID: 280-197093-1

Client Sample ID: TC-2

Lab Sample ID: 280-197093-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	1.3	J	5.0	0.50	ug/L	1			200.8	Dissolved
Manganese	0.96	J	3.0	0.51	ug/L	1			200.8	Dissolved
Molybdenum	6.0		2.0	0.37	ug/L	1			200.8	Dissolved
Selenium	1.8	J	5.0	1.0	ug/L	1			200.8	Dissolved
Silver	0.056	J	1.0	0.045	ug/L	1			200.8	Dissolved
Fluoride	0.91		0.50	0.17	mg/L	1			300.0	Total/NA
Nitrate as N	0.40	J	0.50	0.090	mg/L	1			300.0	Total/NA
Sulfate	63		5.0	1.0	mg/L	1			300.0	Total/NA
Total Suspended Solids	7.2		4.0	1.1	mg/L	1			SM 2540D	Total/NA
Chloride	55		10	3.4	mg/L	5			SM 4500 Cl- E	Total/NA

Client Sample ID: CC-2

Lab Sample ID: 280-197093-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	0.94	J	5.0	0.50	ug/L	1			200.8	Dissolved
Manganese	4.3		3.0	0.51	ug/L	1			200.8	Dissolved
Molybdenum	4.6		2.0	0.37	ug/L	1			200.8	Dissolved
Selenium	3.1	J	5.0	1.0	ug/L	1			200.8	Dissolved
Calcium	71000		200	32	ug/L	1			200.8	Dissolved
Magnesium	30000		200	4.2	ug/L	1			200.8	Dissolved
Fluoride	0.96		0.50	0.17	mg/L	1			300.0	Total/NA
Nitrate as N	0.71		0.50	0.090	mg/L	1			300.0	Total/NA
Sulfate	73		5.0	1.0	mg/L	1			300.0	Total/NA
Total Suspended Solids	2.4	J	4.0	1.1	mg/L	1			SM 2540D	Total/NA
Chloride	66		10	3.4	mg/L	5			SM 4500 Cl- E	Total/NA

Client Sample ID: CC-1

Lab Sample ID: 280-197093-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	0.94	J	5.0	0.50	ug/L	1			200.8	Dissolved
Manganese	1.3	J	3.0	0.51	ug/L	1			200.8	Dissolved
Molybdenum	4.9		2.0	0.37	ug/L	1			200.8	Dissolved
Selenium	3.1	J	5.0	1.0	ug/L	1			200.8	Dissolved
Calcium	71000		200	32	ug/L	1			200.8	Dissolved
Magnesium	30000		200	4.2	ug/L	1			200.8	Dissolved
Fluoride	0.94		0.50	0.17	mg/L	1			300.0	Total/NA
Nitrate as N	0.85		0.50	0.090	mg/L	1			300.0	Total/NA
Sulfate	72		5.0	1.0	mg/L	1			300.0	Total/NA
Total Suspended Solids	13		4.0	1.1	mg/L	1			SM 2540D	Total/NA
Chloride	65		10	3.4	mg/L	5			SM 4500 Cl- E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Martin Marietta
Project/Site: Parkdale - Surface Water

Job ID: 280-197093-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
350.1	Nitrogen, Ammonia	EPA	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
SM 3500 CR B	Chromium, Hexavalent	SM	EET DEN
SM 4500 Cl- E	Chloride, Total	SM	EET DEN
SM 4500 S2 D	Sulfide, Total	SM	EET DEN
SM3500 CR B	Chromium, Trivalent	SM	EET DEN
200.8	Preparation, Total Recoverable Metals	EPA	EET DEN
FILTRATION	Sample Filtration	None	EET DEN

Protocol References:

EPA = US Environmental Protection Agency
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Martin Marietta
Project/Site: Parkdale - Surface Water

Job ID: 280-197093-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-197093-1	TC-2	Water	09/24/24 11:23	09/25/24 08:15
280-197093-2	CC-2	Water	09/24/24 12:40	09/25/24 08:15
280-197093-3	CC-1	Water	09/24/24 12:05	09/25/24 08:15

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

Client Sample Results

Client: Martin Marietta
Project/Site: Parkdale - Surface Water

Job ID: 280-197093-1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

Client Sample ID: TC-2
Date Collected: 09/24/24 11:23
Date Received: 09/25/24 08:15

Lab Sample ID: 280-197093-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.3	J	5.0	0.50	ug/L		09/26/24 14:48	09/27/24 22:29	1
Cadmium	ND		1.0	0.19	ug/L		09/26/24 14:48	09/27/24 22:29	1
Chromium	ND		3.0	0.50	ug/L		09/26/24 14:48	09/27/24 22:29	1
Copper	ND		2.0	0.71	ug/L		09/26/24 14:48	09/27/24 22:29	1
Lead	ND		1.0	0.23	ug/L		09/26/24 14:48	09/27/24 22:29	1
Manganese	0.96	J	3.0	0.51	ug/L		09/26/24 14:48	09/27/24 22:29	1
Molybdenum	6.0		2.0	0.37	ug/L		09/26/24 14:48	09/27/24 22:29	1
Nickel	ND		3.0	0.83	ug/L		09/26/24 14:48	09/27/24 22:29	1
Selenium	1.8	J	5.0	1.0	ug/L		09/26/24 14:48	09/27/24 22:29	1
Silver	0.056	J	1.0	0.045	ug/L		10/02/24 08:40	10/02/24 17:30	1
Zinc	ND		10	2.0	ug/L		09/26/24 14:48	09/27/24 22:29	1
Iron	ND		200	8.7	ug/L		09/26/24 14:48	09/27/24 22:29	1

Client Sample ID: CC-2
Date Collected: 09/24/24 12:40
Date Received: 09/25/24 08:15

Lab Sample ID: 280-197093-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.94	J	5.0	0.50	ug/L		09/26/24 14:48	09/27/24 22:40	1
Cadmium	ND		1.0	0.19	ug/L		09/26/24 14:48	09/27/24 22:40	1
Chromium	ND		3.0	0.50	ug/L		09/26/24 14:48	09/27/24 22:40	1
Copper	ND		2.0	0.71	ug/L		09/26/24 14:48	09/27/24 22:40	1
Lead	ND		1.0	0.23	ug/L		09/26/24 14:48	09/27/24 22:40	1
Manganese	4.3		3.0	0.51	ug/L		09/26/24 14:48	09/27/24 22:40	1
Molybdenum	4.6		2.0	0.37	ug/L		09/26/24 14:48	09/27/24 22:40	1
Nickel	ND		3.0	0.83	ug/L		09/26/24 14:48	09/27/24 22:40	1
Selenium	3.1	J	5.0	1.0	ug/L		09/26/24 14:48	09/27/24 22:40	1
Silver	ND		1.0	0.045	ug/L		10/02/24 08:40	10/02/24 17:37	1
Zinc	ND		10	2.0	ug/L		09/26/24 14:48	09/27/24 22:40	1
Iron	ND		200	8.7	ug/L		09/26/24 14:48	09/27/24 22:40	1
Calcium	71000		200	32	ug/L		09/26/24 14:48	09/28/24 08:36	1
Magnesium	30000		200	4.2	ug/L		09/26/24 14:48	09/28/24 08:36	1

Client Sample ID: CC-1
Date Collected: 09/24/24 12:05
Date Received: 09/25/24 08:15

Lab Sample ID: 280-197093-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.94	J	5.0	0.50	ug/L		09/26/24 14:48	09/27/24 22:44	1
Cadmium	ND		1.0	0.19	ug/L		09/26/24 14:48	09/27/24 22:44	1
Chromium	ND		3.0	0.50	ug/L		09/26/24 14:48	09/27/24 22:44	1
Copper	ND		2.0	0.71	ug/L		09/26/24 14:48	09/27/24 22:44	1
Lead	ND		1.0	0.23	ug/L		09/26/24 14:48	09/27/24 22:44	1
Manganese	1.3	J	3.0	0.51	ug/L		09/26/24 14:48	09/27/24 22:44	1
Molybdenum	4.9		2.0	0.37	ug/L		09/26/24 14:48	09/27/24 22:44	1
Nickel	ND		3.0	0.83	ug/L		09/26/24 14:48	09/27/24 22:44	1
Selenium	3.1	J	5.0	1.0	ug/L		09/26/24 14:48	09/27/24 22:44	1
Silver	ND		1.0	0.045	ug/L		10/02/24 08:40	10/02/24 17:39	1
Zinc	ND		10	2.0	ug/L		09/26/24 14:48	09/27/24 22:44	1
Iron	ND		200	8.7	ug/L		09/26/24 14:48	09/27/24 22:44	1
Calcium	71000		200	32	ug/L		09/26/24 14:48	09/28/24 08:40	1
Magnesium	30000		200	4.2	ug/L		09/26/24 14:48	09/28/24 08:40	1

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Client Sample Results

Client: Martin Marietta
Project/Site: Parkdale - Surface Water

Job ID: 280-197093-1

General Chemistry

Client Sample ID: TC-2
Date Collected: 09/24/24 11:23
Date Received: 09/25/24 08:15

Lab Sample ID: 280-197093-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	0.91		0.50	0.17	mg/L			09/26/24 02:29	1
Nitrate as N (EPA 300.0)	0.40	J	0.50	0.090	mg/L			09/26/24 02:29	1
Sulfate (EPA 300.0)	63		5.0	1.0	mg/L			10/01/24 17:51	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			09/26/24 02:29	1
Ammonia as N (EPA 350.1)	ND		0.10	0.029	mg/L			09/27/24 13:55	1
Total Suspended Solids (SM 2540D)	7.2		4.0	1.1	mg/L			09/26/24 12:22	1
Chloride (SM 4500 Cl- E)	55		10	3.4	mg/L			10/03/24 11:53	5
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			09/25/24 13:32	1

Client Sample ID: CC-2
Date Collected: 09/24/24 12:40
Date Received: 09/25/24 08:15

Lab Sample ID: 280-197093-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	0.96		0.50	0.17	mg/L			09/26/24 03:54	1
Nitrate as N (EPA 300.0)	0.71		0.50	0.090	mg/L			09/26/24 03:54	1
Sulfate (EPA 300.0)	73		5.0	1.0	mg/L			10/01/24 18:02	1
Nitrite as N (EPA 300.0)	ND		0.50	0.049	mg/L			09/26/24 03:54	1
Ammonia as N (EPA 350.1)	ND		0.10	0.029	mg/L			09/27/24 13:58	1
Total Suspended Solids (SM 2540D)	2.4	J	4.0	1.1	mg/L			09/26/24 12:22	1
Chloride (SM 4500 Cl- E)	66		10	3.4	mg/L			10/03/24 11:54	5
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			09/25/24 13:33	1

Client Sample ID: CC-1
Date Collected: 09/24/24 12:05
Date Received: 09/25/24 08:15

Lab Sample ID: 280-197093-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (EPA 300.0)	0.94		0.50	0.17	mg/L			09/26/24 00:47	1
Nitrate as N (EPA 300.0)	0.85		0.50	0.090	mg/L			09/26/24 00:47	1
Sulfate (EPA 300.0)	72		5.0	1.0	mg/L			10/01/24 18:13	1
Nitrite as N (EPA 300.0)	ND	F1	0.50	0.049	mg/L			09/26/24 00:47	1
Ammonia as N (EPA 350.1)	ND		0.10	0.029	mg/L			09/27/24 14:00	1
Total Suspended Solids (SM 2540D)	13		4.0	1.1	mg/L			09/26/24 12:22	1
Chloride (SM 4500 Cl- E)	65		10	3.4	mg/L			10/03/24 11:54	5
Sulfide (SM 4500 S2 D)	ND		0.050	0.022	mg/L			09/25/24 13:32	1

General Chemistry - Dissolved

Client Sample ID: TC-2
Date Collected: 09/24/24 11:23
Date Received: 09/25/24 08:15

Lab Sample ID: 280-197093-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium (SM 3500 CR B)	ND		0.020	0.0040	mg/L			09/25/24 09:54	1
Trivalent Chromium (SM3500 CR B)	ND		20	20	ug/L			10/04/24 11:08	1
Chromium (SM3500 CR B)	ND		20	20	ug/L			10/04/24 11:08	1
Hexavalent chromium (SM3500 CR B)	ND		20	20	ug/L			10/04/24 11:08	1

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Client Sample Results

Client: Martin Marietta
Project/Site: Parkdale - Surface Water

Job ID: 280-197093-1

General Chemistry - Dissolved

Client Sample ID: CC-2
Date Collected: 09/24/24 12:40
Date Received: 09/25/24 08:15

Lab Sample ID: 280-197093-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium (SM 3500 CR B)	ND		0.020	0.0040	mg/L			09/25/24 09:55	1
Trivalent Chromium (SM3500 CR B)	ND		20	20	ug/L			10/04/24 11:08	1
Chromium (SM3500 CR B)	ND		20	20	ug/L			10/04/24 11:08	1
Hexavalent chromium (SM3500 CR B)	ND		20	20	ug/L			10/04/24 11:08	1

Client Sample ID: CC-1
Date Collected: 09/24/24 12:05
Date Received: 09/25/24 08:15

Lab Sample ID: 280-197093-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium (SM 3500 CR B)	ND		0.020	0.0040	mg/L			09/25/24 09:55	1
Trivalent Chromium (SM3500 CR B)	ND		20	20	ug/L			10/04/24 11:08	1
Chromium (SM3500 CR B)	ND		20	20	ug/L			10/04/24 11:08	1
Hexavalent chromium (SM3500 CR B)	ND		20	20	ug/L			10/04/24 11:08	1

QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale - Surface Water

Job ID: 280-197093-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-668672/1-B
Matrix: Water
Analysis Batch: 669051

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 668678

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.0	0.50	ug/L		09/26/24 14:48	09/27/24 21:57	1
Cadmium	ND		1.0	0.19	ug/L		09/26/24 14:48	09/27/24 21:57	1
Chromium	ND		3.0	0.50	ug/L		09/26/24 14:48	09/27/24 21:57	1
Copper	ND		2.0	0.71	ug/L		09/26/24 14:48	09/27/24 21:57	1
Lead	ND		1.0	0.23	ug/L		09/26/24 14:48	09/27/24 21:57	1
Manganese	ND		3.0	0.51	ug/L		09/26/24 14:48	09/27/24 21:57	1
Molybdenum	ND		2.0	0.37	ug/L		09/26/24 14:48	09/27/24 21:57	1
Nickel	ND		3.0	0.83	ug/L		09/26/24 14:48	09/27/24 21:57	1
Selenium	ND		5.0	1.0	ug/L		09/26/24 14:48	09/27/24 21:57	1
Zinc	ND		10	2.0	ug/L		09/26/24 14:48	09/27/24 21:57	1
Iron	ND		200	8.7	ug/L		09/26/24 14:48	09/27/24 21:57	1

Lab Sample ID: MB 280-668672/1-B
Matrix: Water
Analysis Batch: 669100

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 668678

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		200	32	ug/L		09/26/24 14:48	09/28/24 08:00	1
Magnesium	ND		200	4.2	ug/L		09/26/24 14:48	09/28/24 08:00	1

Lab Sample ID: LCS 280-668672/13-B
Matrix: Water
Analysis Batch: 669051

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 668678

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	40.0	41.0		ug/L		102	89 - 111
Cadmium	40.0	40.9		ug/L		102	89 - 111
Chromium	40.0	40.0		ug/L		100	86 - 115
Copper	40.0	40.6		ug/L		102	90 - 115
Lead	40.0	39.7		ug/L		99	88 - 115
Manganese	40.0	39.2		ug/L		98	87 - 115
Molybdenum	40.0	40.3		ug/L		101	89 - 112
Nickel	40.0	40.4		ug/L		101	86 - 115
Selenium	40.0	39.2		ug/L		98	85 - 114
Zinc	40.0	40.0		ug/L		100	88 - 115
Iron	800	806		ug/L		101	85 - 115

Lab Sample ID: LCS 280-668672/13-B
Matrix: Water
Analysis Batch: 669100

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 668678

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	1000	1030		ug/L		103	85 - 115
Magnesium	1000	1050		ug/L		105	85 - 115

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QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale - Surface Water

Job ID: 280-197093-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 280-669253/1-B
Matrix: Water
Analysis Batch: 669606

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 669259

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.0	0.045	ug/L		10/02/24 08:40	10/02/24 17:09	1

Lab Sample ID: LCS 280-669253/2-B
Matrix: Water
Analysis Batch: 669712

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 669259

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	50.0	45.7		ug/L		91	90 - 114

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-668600/39
Matrix: Water
Analysis Batch: 668600

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			09/26/24 00:30	1
Nitrite as N	ND		0.50	0.049	mg/L			09/26/24 00:30	1

Lab Sample ID: LCS 280-668600/37
Matrix: Water
Analysis Batch: 668600

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.89		mg/L		98	90 - 110
Nitrite as N	5.00	4.97		mg/L		99	90 - 110

Lab Sample ID: LCSD 280-668600/38
Matrix: Water
Analysis Batch: 668600

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	5.00	4.89		mg/L		98	90 - 110	0	10
Nitrite as N	5.00	5.05		mg/L		101	90 - 110	2	10

Lab Sample ID: MRL 280-668600/3
Matrix: Water
Analysis Batch: 668600

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.500	0.462	J	mg/L		92	50 - 150
Nitrite as N	0.500	0.471	J	mg/L		94	50 - 150

Lab Sample ID: 280-197093-3 MS
Matrix: Water
Analysis Batch: 668600

Client Sample ID: CC-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.85		5.00	5.44		mg/L		92	80 - 120
Nitrite as N	ND	F1	5.00	2.75	F1	mg/L		55	80 - 120

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QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale - Surface Water

Job ID: 280-197093-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-197093-3 MSD

Matrix: Water

Analysis Batch: 668600

Client Sample ID: CC-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.85		5.00	5.56		mg/L		94	80 - 120	2	20
Nitrite as N	ND	F1	5.00	2.80	F1	mg/L		56	80 - 120	2	20

Lab Sample ID: 280-197093-3 DU

Matrix: Water

Analysis Batch: 668600

Client Sample ID: CC-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	0.85		0.853		mg/L		0.1	15
Nitrite as N	ND	F1	ND		mg/L		NC	15

Lab Sample ID: MB 280-668601/39

Matrix: Water

Analysis Batch: 668601

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.50	0.17	mg/L			09/26/24 00:30	1

Lab Sample ID: LCS 280-668601/37

Matrix: Water

Analysis Batch: 668601

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	5.00	5.07		mg/L		101	90 - 110

Lab Sample ID: LCSD 280-668601/38

Matrix: Water

Analysis Batch: 668601

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	5.00	5.11		mg/L		102	90 - 110	1	10

Lab Sample ID: MRL 280-668601/3

Matrix: Water

Analysis Batch: 668601

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.500	0.502		mg/L		100	50 - 150

Lab Sample ID: 280-197093-3 MS

Matrix: Water

Analysis Batch: 668601

Client Sample ID: CC-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.94		5.00	5.45		mg/L		90	80 - 120

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QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale - Surface Water

Job ID: 280-197093-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-197093-3 MSD

Matrix: Water

Analysis Batch: 668601

Client Sample ID: CC-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.94		5.00	5.58		mg/L		93	80 - 120	2	20

Lab Sample ID: 280-197093-3 DU

Matrix: Water

Analysis Batch: 668601

Client Sample ID: CC-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.94		0.932		mg/L		0.5	15

Lab Sample ID: MB 280-669332/6

Matrix: Water

Analysis Batch: 669332

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	1.0	mg/L			10/01/24 13:13	1

Lab Sample ID: LCS 280-669332/4

Matrix: Water

Analysis Batch: 669332

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	100	99.7		mg/L		100	90 - 110

Lab Sample ID: LCSD 280-669332/5

Matrix: Water

Analysis Batch: 669332

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	100	100		mg/L		100	90 - 110	0	10

Lab Sample ID: MRL 280-669332/3

Matrix: Water

Analysis Batch: 669332

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	5.00	4.84	J	mg/L		97	50 - 150

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-669034/56

Matrix: Water

Analysis Batch: 669034

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.10	0.029	mg/L			09/27/24 13:34	1

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QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale - Surface Water

Job ID: 280-197093-1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 280-669034/57
Matrix: Water
Analysis Batch: 669034

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	2.51	2.57		mg/L		103	90 - 110

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-668817/1
Matrix: Water
Analysis Batch: 668817

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.1	mg/L			09/26/24 12:22	1

Lab Sample ID: LCS 280-668817/2
Matrix: Water
Analysis Batch: 668817

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	503	479		mg/L		95	79 - 114

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 280-668593/3-A
Matrix: Water
Analysis Batch: 668684

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	ND		0.020	0.0040	mg/L			09/25/24 09:38	1

Lab Sample ID: LCS 280-668593/1-A
Matrix: Water
Analysis Batch: 668684

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexavalent chromium	0.100	0.100		mg/L		100	91 - 112

Lab Sample ID: LCSD 280-668593/2-A
Matrix: Water
Analysis Batch: 668684

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexavalent chromium	0.100	0.100		mg/L		100	91 - 112	0	20

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 280-669677/15
Matrix: Water
Analysis Batch: 669677

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		2.0	0.68	mg/L			10/03/24 11:43	1

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QC Sample Results

Client: Martin Marietta
Project/Site: Parkdale - Surface Water

Job ID: 280-197093-1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: LCS 280-669677/13
Matrix: Water
Analysis Batch: 669677

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.0		mg/L		100	90 - 110

Lab Sample ID: LCSD 280-669677/14
Matrix: Water
Analysis Batch: 669677

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.0	20.1		mg/L		100	90 - 110	1	10

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 280-668686/11
Matrix: Water
Analysis Batch: 668686

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		0.050	0.022	mg/L			09/25/24 13:27	1

Lab Sample ID: LCS 280-668686/9
Matrix: Water
Analysis Batch: 668686

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.501	0.552		mg/L		110	81 - 122

Lab Sample ID: LCSD 280-668686/10
Matrix: Water
Analysis Batch: 668686

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	0.501	0.566		mg/L		113	81 - 122	2	10

QC Association Summary

Client: Martin Marietta
Project/Site: Parkdale - Surface Water

Job ID: 280-197093-1

Metals

Filtration Batch: 668672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197093-1	TC-2	Dissolved	Water	Filtration	
280-197093-2	CC-2	Dissolved	Water	Filtration	
280-197093-3	CC-1	Dissolved	Water	Filtration	
MB 280-668672/1-B	Method Blank	Dissolved	Water	Filtration	
LCS 280-668672/13-B	Lab Control Sample	Dissolved	Water	Filtration	

Prep Batch: 668678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197093-1	TC-2	Dissolved	Water	200.8	668672
280-197093-2	CC-2	Dissolved	Water	200.8	668672
280-197093-3	CC-1	Dissolved	Water	200.8	668672
MB 280-668672/1-B	Method Blank	Dissolved	Water	200.8	668672
LCS 280-668672/13-B	Lab Control Sample	Dissolved	Water	200.8	668672

Analysis Batch: 669051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197093-1	TC-2	Dissolved	Water	200.8	668678
280-197093-2	CC-2	Dissolved	Water	200.8	668678
280-197093-3	CC-1	Dissolved	Water	200.8	668678
MB 280-668672/1-B	Method Blank	Dissolved	Water	200.8	668678
LCS 280-668672/13-B	Lab Control Sample	Dissolved	Water	200.8	668678

Analysis Batch: 669100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197093-2	CC-2	Dissolved	Water	200.8	668678
280-197093-3	CC-1	Dissolved	Water	200.8	668678
MB 280-668672/1-B	Method Blank	Dissolved	Water	200.8	668678
LCS 280-668672/13-B	Lab Control Sample	Dissolved	Water	200.8	668678

Filtration Batch: 669253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197093-1	TC-2	Dissolved	Water	Filtration	
280-197093-2	CC-2	Dissolved	Water	Filtration	
280-197093-3	CC-1	Dissolved	Water	Filtration	
MB 280-669253/1-B	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-669253/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	

Prep Batch: 669259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197093-1	TC-2	Dissolved	Water	200.8	669253
280-197093-2	CC-2	Dissolved	Water	200.8	669253
280-197093-3	CC-1	Dissolved	Water	200.8	669253
MB 280-669253/1-B	Method Blank	Dissolved	Water	200.8	669253
LCS 280-669253/2-B	Lab Control Sample	Dissolved	Water	200.8	669253

Analysis Batch: 669606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197093-1	TC-2	Dissolved	Water	200.8	669259
280-197093-2	CC-2	Dissolved	Water	200.8	669259
280-197093-3	CC-1	Dissolved	Water	200.8	669259
MB 280-669253/1-B	Method Blank	Dissolved	Water	200.8	669259

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QC Association Summary

Client: Martin Marietta
Project/Site: Parkdale - Surface Water

Job ID: 280-197093-1

Metals

Analysis Batch: 669712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-669253/2-B	Lab Control Sample	Dissolved	Water	200.8	669259

General Chemistry

Filtration Batch: 668593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197093-1	TC-2	Dissolved	Water	FILTRATION	
280-197093-1	TC-2	Dissolved	Water	FILTRATION	
280-197093-2	CC-2	Dissolved	Water	FILTRATION	
280-197093-2	CC-2	Dissolved	Water	FILTRATION	
280-197093-3	CC-1	Dissolved	Water	FILTRATION	
280-197093-3	CC-1	Dissolved	Water	FILTRATION	
MB 280-668593/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-668593/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-668593/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	

Analysis Batch: 668600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197093-1	TC-2	Total/NA	Water	300.0	
280-197093-2	CC-2	Total/NA	Water	300.0	
280-197093-3	CC-1	Total/NA	Water	300.0	
MB 280-668600/39	Method Blank	Total/NA	Water	300.0	
LCS 280-668600/37	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-668600/38	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-668600/3	Lab Control Sample	Total/NA	Water	300.0	
280-197093-3 MS	CC-1	Total/NA	Water	300.0	
280-197093-3 MSD	CC-1	Total/NA	Water	300.0	
280-197093-3 DU	CC-1	Total/NA	Water	300.0	

Analysis Batch: 668601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197093-1	TC-2	Total/NA	Water	300.0	
280-197093-2	CC-2	Total/NA	Water	300.0	
280-197093-3	CC-1	Total/NA	Water	300.0	
MB 280-668601/39	Method Blank	Total/NA	Water	300.0	
LCS 280-668601/37	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-668601/38	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-668601/3	Lab Control Sample	Total/NA	Water	300.0	
280-197093-3 MS	CC-1	Total/NA	Water	300.0	
280-197093-3 MSD	CC-1	Total/NA	Water	300.0	
280-197093-3 DU	CC-1	Total/NA	Water	300.0	

Analysis Batch: 668684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197093-1	TC-2	Dissolved	Water	SM 3500 CR B	668593
280-197093-2	CC-2	Dissolved	Water	SM 3500 CR B	668593
280-197093-3	CC-1	Dissolved	Water	SM 3500 CR B	668593
MB 280-668593/3-A	Method Blank	Dissolved	Water	SM 3500 CR B	668593
LCS 280-668593/1-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	668593
LCSD 280-668593/2-A	Lab Control Sample Dup	Dissolved	Water	SM 3500 CR B	668593

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QC Association Summary

Client: Martin Marietta
Project/Site: Parkdale - Surface Water

Job ID: 280-197093-1

General Chemistry

Analysis Batch: 668686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197093-1	TC-2	Total/NA	Water	SM 4500 S2 D	
280-197093-2	CC-2	Total/NA	Water	SM 4500 S2 D	
280-197093-3	CC-1	Total/NA	Water	SM 4500 S2 D	
MB 280-668686/11	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 280-668686/9	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 280-668686/10	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 668817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197093-1	TC-2	Total/NA	Water	SM 2540D	
280-197093-2	CC-2	Total/NA	Water	SM 2540D	
280-197093-3	CC-1	Total/NA	Water	SM 2540D	
MB 280-668817/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-668817/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 669034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197093-1	TC-2	Total/NA	Water	350.1	
280-197093-2	CC-2	Total/NA	Water	350.1	
280-197093-3	CC-1	Total/NA	Water	350.1	
MB 280-669034/56	Method Blank	Total/NA	Water	350.1	
LCS 280-669034/57	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 669332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197093-1	TC-2	Total/NA	Water	300.0	
280-197093-2	CC-2	Total/NA	Water	300.0	
280-197093-3	CC-1	Total/NA	Water	300.0	
MB 280-669332/6	Method Blank	Total/NA	Water	300.0	
LCS 280-669332/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-669332/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-669332/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 669401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197093-1	TC-2	Dissolved	Water	SM3500 CR B	668593
280-197093-2	CC-2	Dissolved	Water	SM3500 CR B	668593
280-197093-3	CC-1	Dissolved	Water	SM3500 CR B	668593

Analysis Batch: 669677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-197093-1	TC-2	Total/NA	Water	SM 4500 Cl- E	
280-197093-2	CC-2	Total/NA	Water	SM 4500 Cl- E	
280-197093-3	CC-1	Total/NA	Water	SM 4500 Cl- E	
MB 280-669677/15	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 280-669677/13	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCSD 280-669677/14	Lab Control Sample Dup	Total/NA	Water	SM 4500 Cl- E	

Lab Chronicle

Client: Martin Marietta
Project/Site: Parkdale - Surface Water

Job ID: 280-197093-1

Client Sample ID: TC-2

Date Collected: 09/24/24 11:23

Date Received: 09/25/24 08:15

Lab Sample ID: 280-197093-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			1.0 mL	1.0 mL	668672	09/25/24 13:04	SLH	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	668678	09/26/24 14:48	SLH	EET DEN
Dissolved	Analysis	200.8		1			669051	09/27/24 22:29	LMT	EET DEN
Dissolved	Filtration	Filtration			50 mL	50 mL	669253	09/30/24 18:33	AMH	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	669259	10/02/24 08:40	AMH	EET DEN
Dissolved	Analysis	200.8		1			669606	10/02/24 17:30	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	668600	09/26/24 02:29	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	668601	09/26/24 02:29	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	669332	10/01/24 17:51	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	669034	09/27/24 13:55	LBR	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	668817	09/26/24 12:22	BRD	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	668593	09/25/24 09:43	CLP	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	668684	09/25/24 09:54	CLP	EET DEN
Total/NA	Analysis	SM 4500 CI- E		5	2 mL	2 mL	669677	10/03/24 11:53	CLP	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	668686	09/25/24 13:32	CLP	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	668593	10/04/24 11:07	CLP	EET DEN
Dissolved	Analysis	SM3500 CR B		1			669401	10/04/24 11:08	P1C	EET DEN

Client Sample ID: CC-2

Date Collected: 09/24/24 12:40

Date Received: 09/25/24 08:15

Lab Sample ID: 280-197093-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			1.0 mL	1.0 mL	668672	09/25/24 13:04	SLH	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	668678	09/26/24 14:48	SLH	EET DEN
Dissolved	Analysis	200.8		1			669051	09/27/24 22:40	LMT	EET DEN
Dissolved	Filtration	Filtration			1.0 mL	1.0 mL	668672	09/25/24 13:04	SLH	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	668678	09/26/24 14:48	SLH	EET DEN
Dissolved	Analysis	200.8		1			669100	09/28/24 08:36	LMT	EET DEN
Dissolved	Filtration	Filtration			50 mL	50 mL	669253	09/30/24 18:33	AMH	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	669259	10/02/24 08:40	AMH	EET DEN
Dissolved	Analysis	200.8		1			669606	10/02/24 17:37	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	668600	09/26/24 03:54	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	668601	09/26/24 03:54	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	669332	10/01/24 18:02	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	669034	09/27/24 13:58	LBR	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	668817	09/26/24 12:22	BRD	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	668593	09/25/24 09:43	CLP	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	668684	09/25/24 09:55	CLP	EET DEN
Total/NA	Analysis	SM 4500 CI- E		5	2 mL	2 mL	669677	10/03/24 11:54	CLP	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	668686	09/25/24 13:33	CLP	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	668593	10/04/24 11:07	CLP	EET DEN
Dissolved	Analysis	SM3500 CR B		1			669401	10/04/24 11:08	P1C	EET DEN

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Lab Chronicle

Client: Martin Marietta
Project/Site: Parkdale - Surface Water

Job ID: 280-197093-1

Client Sample ID: CC-1

Lab Sample ID: 280-197093-3

Date Collected: 09/24/24 12:05

Matrix: Water

Date Received: 09/25/24 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			1.0 mL	1.0 mL	668672	09/25/24 13:04	SLH	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	668678	09/26/24 14:48	SLH	EET DEN
Dissolved	Analysis	200.8		1			669051	09/27/24 22:44	LMT	EET DEN
Dissolved	Filtration	Filtration			1.0 mL	1.0 mL	668672	09/25/24 13:04	SLH	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	668678	09/26/24 14:48	SLH	EET DEN
Dissolved	Analysis	200.8		1			669100	09/28/24 08:40	LMT	EET DEN
Dissolved	Filtration	Filtration			50 mL	50 mL	669253	09/30/24 18:33	AMH	EET DEN
Dissolved	Prep	200.8			50 mL	50 mL	669259	10/02/24 08:40	AMH	EET DEN
Dissolved	Analysis	200.8		1			669606	10/02/24 17:39	LMT	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	668600	09/26/24 00:47	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	668601	09/26/24 00:47	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	669332	10/01/24 18:13	IRC	EET DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	669034	09/27/24 14:00	LBR	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	668817	09/26/24 12:22	BRD	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	668593	09/25/24 09:43	CLP	EET DEN
Dissolved	Analysis	SM 3500 CR B		1	2 mL	2 mL	668684	09/25/24 09:55	CLP	EET DEN
Total/NA	Analysis	SM 4500 CI- E		5	2 mL	2 mL	669677	10/03/24 11:54	CLP	EET DEN
Total/NA	Analysis	SM 4500 S2 D		1	2 mL	2 mL	668686	09/25/24 13:32	CLP	EET DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	668593	10/04/24 11:07	CLP	EET DEN
Dissolved	Analysis	SM3500 CR B		1			669401	10/04/24 11:08	P1C	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: Martin Marietta
Project/Site: Parkdale - Surface Water

Job ID: 280-197093-1

Laboratory: Eurofins Denver

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-25
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-25
California	State	2513	01-08-25
Colorado	Petroleum Storage Tank Program	4025 (or)	01-08-25
Colorado	State	CO00026	06-30-25
Connecticut	State	PH-0686	09-30-24 *
Florida	NELAP	E87667-57	06-30-25
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-25
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-25
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-08	07-31-25
New Hampshire	NELAP	2053	04-28-25
New Jersey	NELAP	230001	06-30-25
New York	NELAP	59923	04-01-25
North Dakota	State	R-034	01-08-25
Oklahoma	NELAP	8614	08-31-24 *
Oregon	NELAP	4025	01-08-25
Pennsylvania	NELAP	013	07-31-25
South Carolina	State	72002001	01-08-24 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183	09-30-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO00026	07-31-25
Virginia	NELAP	460232	06-14-25
Washington	State	C583	08-03-25
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-25
Wyoming (UST)	A2LA	2907.01	10-31-25

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

Eurofins Denver

Phone (303) 736-0100 Phone (303) 431-7171

Environment Testing

ver: 01/16/2019

Login Sample Receipt Checklist

Client: Martin Marietta

Job Number: 280-197093-1

Login Number: 197093

List Number: 1

Creator: Naylis, Patrick J

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	