

Hit Summary Sheet SW-846

SDG No.: Q2413

Order ID: Q2413

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-35								
Q2413-01	TP-35	SOIL	Aluminum	7550		0.80	4.73	mg/Kg
Q2413-01	TP-35	SOIL	Antimony	1.16	J	0.21	2.37	mg/Kg
Q2413-01	TP-35	SOIL	Arsenic	6.94		0.18	0.95	mg/Kg
Q2413-01	TP-35	SOIL	Barium	18.5		0.69	4.73	mg/Kg
Q2413-01	TP-35	SOIL	Beryllium	0.79		0.024	0.28	mg/Kg
Q2413-01	TP-35	SOIL	Calcium	239		10.5	94.6	mg/Kg
Q2413-01	TP-35	SOIL	Chromium	12.3		0.044	0.47	mg/Kg
Q2413-01	TP-35	SOIL	Cobalt	4.49		0.095	1.42	mg/Kg
Q2413-01	TP-35	SOIL	Copper	4.24		0.21	0.95	mg/Kg
Q2413-01	TP-35	SOIL	Iron	22300		3.78	4.73	mg/Kg
Q2413-01	TP-35	SOIL	Lead	10.6		0.12	0.57	mg/Kg
Q2413-01	TP-35	SOIL	Magnesium	503		11.4	94.6	mg/Kg
Q2413-01	TP-35	SOIL	Manganese	50.0		0.13	0.95	mg/Kg
Q2413-01	TP-35	SOIL	Mercury	0.023		0.0080	0.014	mg/Kg
Q2413-01	TP-35	SOIL	Nickel	7.64		0.12	1.89	mg/Kg
Q2413-01	TP-35	SOIL	Potassium	445		26.2	94.6	mg/Kg
Q2413-01	TP-35	SOIL	Selenium	7.10		0.25	0.95	mg/Kg
Q2413-01	TP-35	SOIL	Silver	0.38	J	0.11	0.47	mg/Kg
Q2413-01	TP-35	SOIL	Sodium	138		16.8	94.6	mg/Kg
Q2413-01	TP-35	SOIL	Vanadium	24.8		0.24	1.89	mg/Kg
Q2413-01	TP-35	SOIL	Zinc	21.3		0.10	1.89	mg/Kg
Client ID : TP-34								
Q2413-02	TP-34	SOIL	Aluminum	3590		0.82	4.90	mg/Kg
Q2413-02	TP-34	SOIL	Antimony	0.74	J	0.22	2.45	mg/Kg
Q2413-02	TP-34	SOIL	Arsenic	3.33		0.19	0.98	mg/Kg
Q2413-02	TP-34	SOIL	Barium	6.11		0.72	4.90	mg/Kg
Q2413-02	TP-34	SOIL	Beryllium	0.42		0.024	0.29	mg/Kg
Q2413-02	TP-34	SOIL	Calcium	119		10.9	97.9	mg/Kg
Q2413-02	TP-34	SOIL	Chromium	12.1		0.046	0.49	mg/Kg
Q2413-02	TP-34	SOIL	Cobalt	1.52		0.098	1.47	mg/Kg
Q2413-02	TP-34	SOIL	Copper	5.05		0.22	0.98	mg/Kg
Q2413-02	TP-34	SOIL	Iron	11500		3.91	4.90	mg/Kg
Q2413-02	TP-34	SOIL	Lead	9.44		0.13	0.59	mg/Kg
Q2413-02	TP-34	SOIL	Magnesium	170		11.8	97.9	mg/Kg
Q2413-02	TP-34	SOIL	Manganese	16.1		0.14	0.98	mg/Kg
Q2413-02	TP-34	SOIL	Mercury	0.024		0.0080	0.014	mg/Kg
Q2413-02	TP-34	SOIL	Nickel	3.07		0.13	1.96	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2413

Order ID: Q2413

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2413-02	TP-34	SOIL	Potassium	155		27.1	97.9	mg/Kg
Q2413-02	TP-34	SOIL	Selenium	3.84		0.26	0.98	mg/Kg
Q2413-02	TP-34	SOIL	Silver	0.24	J	0.12	0.49	mg/Kg
Q2413-02	TP-34	SOIL	Sodium	84.3	J	17.4	97.9	mg/Kg
Q2413-02	TP-34	SOIL	Vanadium	19.4		0.25	1.96	mg/Kg
Q2413-02	TP-34	SOIL	Zinc	14.6		0.11	1.96	mg/Kg
Client ID : TP-77								
Q2413-03	TP-77	SOIL	Aluminum	8720		0.83	4.95	mg/Kg
Q2413-03	TP-77	SOIL	Antimony	1.49	J	0.22	2.48	mg/Kg
Q2413-03	TP-77	SOIL	Arsenic	11.0		0.19	0.99	mg/Kg
Q2413-03	TP-77	SOIL	Barium	18.0		0.72	4.95	mg/Kg
Q2413-03	TP-77	SOIL	Beryllium	1.03		0.025	0.30	mg/Kg
Q2413-03	TP-77	SOIL	Calcium	92.1	J	11.0	99.0	mg/Kg
Q2413-03	TP-77	SOIL	Chromium	13.1		0.047	0.50	mg/Kg
Q2413-03	TP-77	SOIL	Cobalt	2.30		0.099	1.49	mg/Kg
Q2413-03	TP-77	SOIL	Copper	0.68	J	0.22	0.99	mg/Kg
Q2413-03	TP-77	SOIL	Iron	30600		3.95	4.95	mg/Kg
Q2413-03	TP-77	SOIL	Lead	8.28		0.13	0.59	mg/Kg
Q2413-03	TP-77	SOIL	Magnesium	387		11.9	99.0	mg/Kg
Q2413-03	TP-77	SOIL	Manganese	26.4		0.14	0.99	mg/Kg
Q2413-03	TP-77	SOIL	Mercury	0.016		0.0080	0.014	mg/Kg
Q2413-03	TP-77	SOIL	Nickel	7.00		0.13	1.98	mg/Kg
Q2413-03	TP-77	SOIL	Potassium	889		27.4	99.0	mg/Kg
Q2413-03	TP-77	SOIL	Selenium	9.86		0.26	0.99	mg/Kg
Q2413-03	TP-77	SOIL	Silver	0.34	J	0.12	0.50	mg/Kg
Q2413-03	TP-77	SOIL	Sodium	267		17.6	99.0	mg/Kg
Q2413-03	TP-77	SOIL	Vanadium	26.8		0.25	1.98	mg/Kg
Q2413-03	TP-77	SOIL	Zinc	20.9		0.11	1.98	mg/Kg
Client ID : TP-74								
Q2413-04	TP-74	SOIL	Aluminum	7510		0.89	5.32	mg/Kg
Q2413-04	TP-74	SOIL	Antimony	1.16	J	0.23	2.66	mg/Kg
Q2413-04	TP-74	SOIL	Arsenic	9.31		0.20	1.06	mg/Kg
Q2413-04	TP-74	SOIL	Barium	35.5		0.78	5.32	mg/Kg
Q2413-04	TP-74	SOIL	Beryllium	0.82		0.027	0.32	mg/Kg
Q2413-04	TP-74	SOIL	Calcium	158		11.8	106	mg/Kg
Q2413-04	TP-74	SOIL	Chromium	9.18		0.050	0.53	mg/Kg
Q2413-04	TP-74	SOIL	Cobalt	6.13		0.11	1.60	mg/Kg
Q2413-04	TP-74	SOIL	Copper	1.04	J	0.23	1.06	mg/Kg
Q2413-04	TP-74	SOIL	Iron	24600		4.25	5.32	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2413 **Order ID:** Q2413
Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2413-04	TP-74	SOIL	Lead	9.20		0.14	0.64	mg/Kg
Q2413-04	TP-74	SOIL	Magnesium	272		12.8	106	mg/Kg
Q2413-04	TP-74	SOIL	Manganese	76.2		0.15	1.06	mg/Kg
Q2413-04	TP-74	SOIL	Mercury	0.012	J	0.0090	0.015	mg/Kg
Q2413-04	TP-74	SOIL	Nickel	5.54		0.14	2.13	mg/Kg
Q2413-04	TP-74	SOIL	Potassium	560		29.5	106	mg/Kg
Q2413-04	TP-74	SOIL	Selenium	7.99		0.28	1.06	mg/Kg
Q2413-04	TP-74	SOIL	Silver	0.59		0.13	0.53	mg/Kg
Q2413-04	TP-74	SOIL	Sodium	428		18.9	106	mg/Kg
Q2413-04	TP-74	SOIL	Vanadium	20.5		0.27	2.13	mg/Kg
Q2413-04	TP-74	SOIL	Zinc	20.7		0.12	2.13	mg/Kg

Client ID : TP-73

Q2413-05	TP-73	SOIL	Aluminum	3080		1.00	5.95	mg/Kg
Q2413-05	TP-73	SOIL	Antimony	0.36	J	0.26	2.97	mg/Kg
Q2413-05	TP-73	SOIL	Arsenic	1.76		0.23	1.19	mg/Kg
Q2413-05	TP-73	SOIL	Barium	35.7		0.87	5.95	mg/Kg
Q2413-05	TP-73	SOIL	Beryllium	0.28	J	0.030	0.36	mg/Kg
Q2413-05	TP-73	SOIL	Calcium	171		13.2	119	mg/Kg
Q2413-05	TP-73	SOIL	Chromium	3.79		0.056	0.60	mg/Kg
Q2413-05	TP-73	SOIL	Cobalt	0.36	J	0.12	1.78	mg/Kg
Q2413-05	TP-73	SOIL	Copper	2.91		0.26	1.19	mg/Kg
Q2413-05	TP-73	SOIL	Iron	3620		4.75	5.95	mg/Kg
Q2413-05	TP-73	SOIL	Lead	9.44		0.16	0.71	mg/Kg
Q2413-05	TP-73	SOIL	Magnesium	104	J	14.3	119	mg/Kg
Q2413-05	TP-73	SOIL	Manganese	5.60		0.17	1.19	mg/Kg
Q2413-05	TP-73	SOIL	Mercury	0.026		0.0090	0.016	mg/Kg
Q2413-05	TP-73	SOIL	Nickel	1.24	J	0.16	2.38	mg/Kg
Q2413-05	TP-73	SOIL	Potassium	170		33.0	119	mg/Kg
Q2413-05	TP-73	SOIL	Selenium	1.38		0.31	1.19	mg/Kg
Q2413-05	TP-73	SOIL	Sodium	165		21.2	119	mg/Kg
Q2413-05	TP-73	SOIL	Vanadium	6.06		0.30	2.38	mg/Kg
Q2413-05	TP-73	SOIL	Zinc	5.43		0.13	2.38	mg/Kg

Client ID : TP-72

Q2413-06	TP-72	SOIL	Aluminum	4570		0.89	5.32	mg/Kg
Q2413-06	TP-72	SOIL	Antimony	0.79	J	0.23	2.66	mg/Kg
Q2413-06	TP-72	SOIL	Arsenic	6.60		0.20	1.06	mg/Kg
Q2413-06	TP-72	SOIL	Barium	22.4		0.78	5.32	mg/Kg
Q2413-06	TP-72	SOIL	Beryllium	0.57		0.027	0.32	mg/Kg
Q2413-06	TP-72	SOIL	Calcium	371		11.8	106	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2413

Order ID: Q2413

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2413-06	TP-72	SOIL	Chromium	7.90		0.050	0.53	mg/Kg
Q2413-06	TP-72	SOIL	Cobalt	2.69		0.11	1.60	mg/Kg
Q2413-06	TP-72	SOIL	Copper	4.46		0.23	1.06	mg/Kg
Q2413-06	TP-72	SOIL	Iron	16000		4.25	5.32	mg/Kg
Q2413-06	TP-72	SOIL	Lead	6.00		0.14	0.64	mg/Kg
Q2413-06	TP-72	SOIL	Magnesium	428		12.8	106	mg/Kg
Q2413-06	TP-72	SOIL	Manganese	37.9		0.15	1.06	mg/Kg
Q2413-06	TP-72	SOIL	Mercury	0.019		0.0080	0.014	mg/Kg
Q2413-06	TP-72	SOIL	Nickel	4.12		0.14	2.13	mg/Kg
Q2413-06	TP-72	SOIL	Potassium	570		29.5	106	mg/Kg
Q2413-06	TP-72	SOIL	Selenium	4.93		0.28	1.06	mg/Kg
Q2413-06	TP-72	SOIL	Silver	0.19	J	0.13	0.53	mg/Kg
Q2413-06	TP-72	SOIL	Sodium	225		18.9	106	mg/Kg
Q2413-06	TP-72	SOIL	Vanadium	20.0		0.27	2.13	mg/Kg
Q2413-06	TP-72	SOIL	Zinc	13.0		0.12	2.13	mg/Kg



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-35	SDG No.:	Q2413
Lab Sample ID:	Q2413-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	88.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	7550		1	0.80	4.73	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-36-0	Antimony	1.16	JN	1	0.21	2.37	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-38-2	Arsenic	6.94		1	0.18	0.95	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-39-3	Barium	18.5		1	0.69	4.73	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-41-7	Beryllium	0.79		1	0.024	0.28	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-43-9	Cadmium	0.023	U	1	0.023	0.28	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-70-2	Calcium	239		1	10.5	94.6	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-47-3	Chromium	12.3		1	0.044	0.47	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-48-4	Cobalt	4.49		1	0.095	1.42	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-50-8	Copper	4.24		1	0.21	0.95	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7439-89-6	Iron	22300		1	3.78	4.73	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7439-92-1	Lead	10.6		1	0.12	0.57	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7439-95-4	Magnesium	503		1	11.4	94.6	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7439-96-5	Manganese	50.0		1	0.13	0.95	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7439-97-6	Mercury	0.023		1	0.0080	0.014	mg/Kg	06/26/25 12:15	06/26/25 15:03	7471B	
7440-02-0	Nickel	7.64		1	0.12	1.89	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-09-7	Potassium	445	N	1	26.2	94.6	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7782-49-2	Selenium	7.10		1	0.25	0.95	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-22-4	Silver	0.38	J	1	0.11	0.47	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-23-5	Sodium	138		1	16.8	94.6	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-28-0	Thallium	0.22	U	1	0.22	1.89	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-62-2	Vanadium	24.8	N	1	0.24	1.89	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050
7440-66-6	Zinc	21.3	N	1	0.10	1.89	mg/Kg	06/26/25 10:20	06/27/25 18:28	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N = Spiked sample recovery not within control limits

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-34	SDG No.:	Q2413
Lab Sample ID:	Q2413-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	92

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3590		1	0.82	4.90	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-36-0	Antimony	0.74	JN	1	0.22	2.45	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-38-2	Arsenic	3.33		1	0.19	0.98	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-39-3	Barium	6.11		1	0.72	4.90	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-41-7	Beryllium	0.42		1	0.024	0.29	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-43-9	Cadmium	0.024	U	1	0.024	0.29	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-70-2	Calcium	119		1	10.9	97.9	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-47-3	Chromium	12.1		1	0.046	0.49	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-48-4	Cobalt	1.52		1	0.098	1.47	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-50-8	Copper	5.05		1	0.22	0.98	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7439-89-6	Iron	11500		1	3.91	4.90	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7439-92-1	Lead	9.44		1	0.13	0.59	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7439-95-4	Magnesium	170		1	11.8	97.9	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7439-96-5	Manganese	16.1		1	0.14	0.98	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7439-97-6	Mercury	0.024		1	0.0080	0.014	mg/Kg	06/26/25 12:15	06/26/25 15:05	7471B	
7440-02-0	Nickel	3.07		1	0.13	1.96	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-09-7	Potassium	155	N	1	27.1	97.9	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7782-49-2	Selenium	3.84		1	0.26	0.98	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-22-4	Silver	0.24	J	1	0.12	0.49	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-23-5	Sodium	84.3	J	1	17.4	97.9	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-28-0	Thallium	0.23	U	1	0.23	1.96	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-62-2	Vanadium	19.4	N	1	0.25	1.96	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050
7440-66-6	Zinc	14.6	N	1	0.11	1.96	mg/Kg	06/26/25 10:20	06/27/25 18:33	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-77	SDG No.:	Q2413
Lab Sample ID:	Q2413-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	91.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	8720		1	0.83	4.95	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-36-0	Antimony	1.49	JN	1	0.22	2.48	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-38-2	Arsenic	11.0		1	0.19	0.99	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-39-3	Barium	18.0		1	0.72	4.95	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-41-7	Beryllium	1.03		1	0.025	0.30	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-43-9	Cadmium	0.024	U	1	0.024	0.30	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-70-2	Calcium	92.1	J	1	11.0	99.0	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-47-3	Chromium	13.1		1	0.047	0.50	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-48-4	Cobalt	2.30		1	0.099	1.49	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-50-8	Copper	0.68	J	1	0.22	0.99	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7439-89-6	Iron	30600		1	3.95	4.95	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7439-92-1	Lead	8.28		1	0.13	0.59	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7439-95-4	Magnesium	387		1	11.9	99.0	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7439-96-5	Manganese	26.4		1	0.14	0.99	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7439-97-6	Mercury	0.016		1	0.0080	0.014	mg/Kg	06/26/25 12:15	06/26/25 15:07	7471B	
7440-02-0	Nickel	7.00		1	0.13	1.98	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-09-7	Potassium	889	N	1	27.4	99.0	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7782-49-2	Selenium	9.86		1	0.26	0.99	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-22-4	Silver	0.34	J	1	0.12	0.50	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-23-5	Sodium	267		1	17.6	99.0	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-28-0	Thallium	0.23	U	1	0.23	1.98	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-62-2	Vanadium	26.8	N	1	0.25	1.98	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050
7440-66-6	Zinc	20.9	N	1	0.11	1.98	mg/Kg	06/26/25 10:20	06/27/25 18:37	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N = Spiked sample recovery not within control limits

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-74	SDG No.:	Q2413
Lab Sample ID:	Q2413-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	89.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	7510		1	0.89	5.32	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-36-0	Antimony	1.16	JN	1	0.23	2.66	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-38-2	Arsenic	9.31		1	0.20	1.06	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-39-3	Barium	35.5		1	0.78	5.32	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-41-7	Beryllium	0.82		1	0.027	0.32	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-43-9	Cadmium	0.026	U	1	0.026	0.32	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-70-2	Calcium	158		1	11.8	106	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-47-3	Chromium	9.18		1	0.050	0.53	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-48-4	Cobalt	6.13		1	0.11	1.60	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-50-8	Copper	1.04	J	1	0.23	1.06	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7439-89-6	Iron	24600		1	4.25	5.32	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7439-92-1	Lead	9.20		1	0.14	0.64	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7439-95-4	Magnesium	272		1	12.8	106	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7439-96-5	Manganese	76.2		1	0.15	1.06	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7439-97-6	Mercury	0.012	J	1	0.0090	0.015	mg/Kg	06/26/25 12:15	06/26/25 15:09	7471B	
7440-02-0	Nickel	5.54		1	0.14	2.13	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-09-7	Potassium	560	N	1	29.5	106	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7782-49-2	Selenium	7.99		1	0.28	1.06	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-22-4	Silver	0.59		1	0.13	0.53	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-23-5	Sodium	428		1	18.9	106	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-28-0	Thallium	0.25	U	1	0.25	2.13	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-62-2	Vanadium	20.5	N	1	0.27	2.13	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050
7440-66-6	Zinc	20.7	N	1	0.12	2.13	mg/Kg	06/26/25 10:20	06/27/25 18:50	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits

Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-73	SDG No.:	Q2413
Lab Sample ID:	Q2413-05	Matrix:	SOIL
Level (low/med):	low	% Solid:	77.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3080		1	1.00	5.95	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-36-0	Antimony	0.36	JN	1	0.26	2.97	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-38-2	Arsenic	1.76		1	0.23	1.19	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-39-3	Barium	35.7		1	0.87	5.95	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-41-7	Beryllium	0.28	J	1	0.030	0.36	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-43-9	Cadmium	0.029	U	1	0.029	0.36	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-70-2	Calcium	171		1	13.2	119	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-47-3	Chromium	3.79		1	0.056	0.60	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-48-4	Cobalt	0.36	J	1	0.12	1.78	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-50-8	Copper	2.91		1	0.26	1.19	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7439-89-6	Iron	3620		1	4.75	5.95	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7439-92-1	Lead	9.44		1	0.16	0.71	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7439-95-4	Magnesium	104	J	1	14.3	119	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7439-96-5	Manganese	5.60		1	0.17	1.19	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7439-97-6	Mercury	0.026		1	0.0090	0.016	mg/Kg	06/26/25 12:15	06/26/25 15:16	7471B	
7440-02-0	Nickel	1.24	J	1	0.16	2.38	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-09-7	Potassium	170	N	1	33.0	119	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7782-49-2	Selenium	1.38		1	0.31	1.19	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-22-4	Silver	0.14	U	1	0.14	0.60	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-23-5	Sodium	165		1	21.2	119	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-28-0	Thallium	0.27	U	1	0.27	2.38	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-62-2	Vanadium	6.06	N	1	0.30	2.38	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050
7440-66-6	Zinc	5.43	N	1	0.13	2.38	mg/Kg	06/26/25 10:20	06/27/25 18:54	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N = Spiked sample recovery not within control limits

Report of Analysis

Client:	CDM Smith	Date Collected:	06/24/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-72	SDG No.:	Q2413
Lab Sample ID:	Q2413-06	Matrix:	SOIL
Level (low/med):	low	% Solid:	87

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4570		1	0.89	5.32	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-36-0	Antimony	0.79	JN	1	0.23	2.66	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-38-2	Arsenic	6.60		1	0.20	1.06	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-39-3	Barium	22.4		1	0.78	5.32	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-41-7	Beryllium	0.57		1	0.027	0.32	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-43-9	Cadmium	0.026	U	1	0.026	0.32	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-70-2	Calcium	371		1	11.8	106	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-47-3	Chromium	7.90		1	0.050	0.53	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-48-4	Cobalt	2.69		1	0.11	1.60	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-50-8	Copper	4.46		1	0.23	1.06	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7439-89-6	Iron	16000		1	4.25	5.32	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7439-92-1	Lead	6.00		1	0.14	0.64	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7439-95-4	Magnesium	428		1	12.8	106	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7439-96-5	Manganese	37.9		1	0.15	1.06	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7439-97-6	Mercury	0.019		1	0.0080	0.014	mg/Kg	06/26/25 12:15	06/26/25 15:18	7471B	
7440-02-0	Nickel	4.12		1	0.14	2.13	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-09-7	Potassium	570	N	1	29.5	106	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7782-49-2	Selenium	4.93		1	0.28	1.06	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-22-4	Silver	0.19	J	1	0.13	0.53	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-23-5	Sodium	225		1	18.9	106	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-28-0	Thallium	0.25	U	1	0.25	2.13	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-62-2	Vanadium	20.0	N	1	0.27	2.13	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050
7440-66-6	Zinc	13.0	N	1	0.12	2.13	mg/Kg	06/26/25 10:20	06/27/25 18:59	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	METALS-TAL			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N = Spiked sample recovery not within control limits

LAB CHRONICLE

OrderID:	Q2413	OrderDate:	6/24/2025 3:05:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	D41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2413-01	TP-35	SOIL			06/23/25			06/24/25
			Metals ICP-TAL	6010D		06/26/25	06/27/25	
			Mercury	7471B		06/26/25	06/26/25	
Q2413-02	TP-34	SOIL			06/23/25			06/24/25
			Metals ICP-TAL	6010D		06/26/25	06/27/25	
			Mercury	7471B		06/26/25	06/26/25	
Q2413-03	TP-77	SOIL			06/23/25			06/24/25
			Metals ICP-TAL	6010D		06/26/25	06/27/25	
			Mercury	7471B		06/26/25	06/26/25	
Q2413-04	TP-74	SOIL			06/23/25			06/24/25
			Metals ICP-TAL	6010D		06/26/25	06/27/25	
			Mercury	7471B		06/26/25	06/26/25	
Q2413-05	TP-73	SOIL			06/23/25			06/24/25
			Metals ICP-TAL	6010D		06/26/25	06/27/25	
			Mercury	7471B		06/26/25	06/26/25	
Q2413-06	TP-72	SOIL			06/24/25			06/24/25
			Mercury	7471B		06/26/25	06/26/25	
			Metals ICP-TAL	6010D		06/26/25	06/27/25	