

Hit Summary Sheet SW-846

SDG No.: Q1982 **Order ID:** Q1982
Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-1								
Q1982-01	TP-1	SOIL	Aluminum	5780		0.98	5.80	mg/Kg
Q1982-01	TP-1	SOIL	Arsenic	1.81		0.22	1.16	mg/Kg
Q1982-01	TP-1	SOIL	Barium	31.4		0.85	5.80	mg/Kg
Q1982-01	TP-1	SOIL	Beryllium	0.49		0.029	0.35	mg/Kg
Q1982-01	TP-1	SOIL	Calcium	560		12.9	116	mg/Kg
Q1982-01	TP-1	SOIL	Chromium	11.2		0.055	0.58	mg/Kg
Q1982-01	TP-1	SOIL	Cobalt	3.32		0.12	1.74	mg/Kg
Q1982-01	TP-1	SOIL	Copper	8.28		0.26	1.16	mg/Kg
Q1982-01	TP-1	SOIL	Iron	8230		4.63	5.80	mg/Kg
Q1982-01	TP-1	SOIL	Lead	9.47		0.15	0.70	mg/Kg
Q1982-01	TP-1	SOIL	Magnesium	903		13.9	116	mg/Kg
Q1982-01	TP-1	SOIL	Manganese	29.5		0.16	1.16	mg/Kg
Q1982-01	TP-1	SOIL	Mercury	0.018		0.0090	0.017	mg/Kg
Q1982-01	TP-1	SOIL	Nickel	6.62		0.15	2.32	mg/Kg
Q1982-01	TP-1	SOIL	Potassium	298		32.2	116	mg/Kg
Q1982-01	TP-1	SOIL	Sodium	94.5	J	20.7	116	mg/Kg
Q1982-01	TP-1	SOIL	Vanadium	17.0		0.29	2.32	mg/Kg
Q1982-01	TP-1	SOIL	Zinc	21.2		0.27	2.32	mg/Kg
Client ID : TP-2B								
Q1982-02	TP-2B	SOIL	Aluminum	2680		0.90	5.37	mg/Kg
Q1982-02	TP-2B	SOIL	Arsenic	3.50		0.20	1.07	mg/Kg
Q1982-02	TP-2B	SOIL	Barium	15.4		0.78	5.37	mg/Kg
Q1982-02	TP-2B	SOIL	Beryllium	0.38		0.027	0.32	mg/Kg
Q1982-02	TP-2B	SOIL	Calcium	315		11.9	107	mg/Kg
Q1982-02	TP-2B	SOIL	Chromium	12.8		0.050	0.54	mg/Kg
Q1982-02	TP-2B	SOIL	Cobalt	1.00	J	0.11	1.61	mg/Kg
Q1982-02	TP-2B	SOIL	Copper	12.4		0.24	1.07	mg/Kg
Q1982-02	TP-2B	SOIL	Iron	7820		4.29	5.37	mg/Kg
Q1982-02	TP-2B	SOIL	Lead	10.8		0.14	0.65	mg/Kg
Q1982-02	TP-2B	SOIL	Magnesium	463		12.9	107	mg/Kg
Q1982-02	TP-2B	SOIL	Manganese	21.2		0.15	1.07	mg/Kg
Q1982-02	TP-2B	SOIL	Nickel	2.26		0.14	2.15	mg/Kg
Q1982-02	TP-2B	SOIL	Potassium	404		29.8	107	mg/Kg
Q1982-02	TP-2B	SOIL	Sodium	40.9	J	19.1	107	mg/Kg
Q1982-02	TP-2B	SOIL	Thallium	0.43	J	0.25	2.15	mg/Kg
Q1982-02	TP-2B	SOIL	Vanadium	11.8		0.27	2.15	mg/Kg
Q1982-02	TP-2B	SOIL	Zinc	7.19		0.25	2.15	mg/Kg

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Client:	CDM Smith	Project ID:	South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-3								
Q1982-03	TP-3	SOIL	Aluminum	6860		0.88	5.23	mg/Kg
Q1982-03	TP-3	SOIL	Arsenic	0.98	J	0.20	1.05	mg/Kg
Q1982-03	TP-3	SOIL	Barium	32.2		0.76	5.23	mg/Kg
Q1982-03	TP-3	SOIL	Beryllium	0.54		0.026	0.31	mg/Kg
Q1982-03	TP-3	SOIL	Cadmium	0.073	J	0.025	0.31	mg/Kg
Q1982-03	TP-3	SOIL	Calcium	127		11.6	105	mg/Kg
Q1982-03	TP-3	SOIL	Chromium	4.97		0.049	0.52	mg/Kg
Q1982-03	TP-3	SOIL	Cobalt	2.79		0.11	1.57	mg/Kg
Q1982-03	TP-3	SOIL	Copper	2.12		0.23	1.05	mg/Kg
Q1982-03	TP-3	SOIL	Iron	9220		4.17	5.23	mg/Kg
Q1982-03	TP-3	SOIL	Lead	3.44		0.14	0.63	mg/Kg
Q1982-03	TP-3	SOIL	Magnesium	180		12.5	105	mg/Kg
Q1982-03	TP-3	SOIL	Manganese	15.0		0.15	1.05	mg/Kg
Q1982-03	TP-3	SOIL	Nickel	3.55		0.14	2.09	mg/Kg
Q1982-03	TP-3	SOIL	Potassium	121		28.9	105	mg/Kg
Q1982-03	TP-3	SOIL	Sodium	85.7	J	18.6	105	mg/Kg
Q1982-03	TP-3	SOIL	Vanadium	10.8		0.26	2.09	mg/Kg
Q1982-03	TP-3	SOIL	Zinc	9.47		0.24	2.09	mg/Kg
Client ID : TP-4								
Q1982-04	TP-4	SOIL	Aluminum	5780		0.86	5.13	mg/Kg
Q1982-04	TP-4	SOIL	Arsenic	3.25		0.20	1.03	mg/Kg
Q1982-04	TP-4	SOIL	Barium	24.5		0.75	5.13	mg/Kg
Q1982-04	TP-4	SOIL	Beryllium	0.40		0.026	0.31	mg/Kg
Q1982-04	TP-4	SOIL	Calcium	633		11.4	103	mg/Kg
Q1982-04	TP-4	SOIL	Chromium	10.3		0.048	0.51	mg/Kg
Q1982-04	TP-4	SOIL	Cobalt	3.07		0.10	1.54	mg/Kg
Q1982-04	TP-4	SOIL	Copper	7.56		0.23	1.03	mg/Kg
Q1982-04	TP-4	SOIL	Iron	12400		4.09	5.13	mg/Kg
Q1982-04	TP-4	SOIL	Lead	12.0		0.13	0.62	mg/Kg
Q1982-04	TP-4	SOIL	Magnesium	560		12.3	103	mg/Kg
Q1982-04	TP-4	SOIL	Manganese	52.7		0.14	1.03	mg/Kg
Q1982-04	TP-4	SOIL	Mercury	0.067		0.0080	0.014	mg/Kg
Q1982-04	TP-4	SOIL	Nickel	5.92		0.13	2.05	mg/Kg
Q1982-04	TP-4	SOIL	Potassium	210		28.4	103	mg/Kg
Q1982-04	TP-4	SOIL	Silver	0.27	J	0.12	0.51	mg/Kg
Q1982-04	TP-4	SOIL	Sodium	82.9	J	18.3	103	mg/Kg
Q1982-04	TP-4	SOIL	Thallium	0.77	J	0.24	2.05	mg/Kg
Q1982-04	TP-4	SOIL	Vanadium	16.5		0.26	2.05	mg/Kg

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Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1982-04	TP-4	SOIL	Zinc	31.1		0.24	2.05	mg/Kg
Client ID : TP-5								
Q1982-05	TP-5	SOIL	Aluminum	2780		0.84	5.01	mg/Kg
Q1982-05	TP-5	SOIL	Arsenic	2.96		0.19	1.00	mg/Kg
Q1982-05	TP-5	SOIL	Barium	12.2		0.73	5.01	mg/Kg
Q1982-05	TP-5	SOIL	Beryllium	0.38		0.025	0.30	mg/Kg
Q1982-05	TP-5	SOIL	Calcium	873		11.1	100	mg/Kg
Q1982-05	TP-5	SOIL	Chromium	7.77		0.047	0.50	mg/Kg
Q1982-05	TP-5	SOIL	Cobalt	1.37	J	0.10	1.50	mg/Kg
Q1982-05	TP-5	SOIL	Copper	7.46		0.22	1.00	mg/Kg
Q1982-05	TP-5	SOIL	Iron	14800		4.00	5.01	mg/Kg
Q1982-05	TP-5	SOIL	Lead	6.83		0.13	0.60	mg/Kg
Q1982-05	TP-5	SOIL	Magnesium	255		12.0	100	mg/Kg
Q1982-05	TP-5	SOIL	Manganese	24.7		0.14	1.00	mg/Kg
Q1982-05	TP-5	SOIL	Mercury	0.0080	J	0.0070	0.013	mg/Kg
Q1982-05	TP-5	SOIL	Nickel	2.38		0.13	2.00	mg/Kg
Q1982-05	TP-5	SOIL	Potassium	134		27.8	100	mg/Kg
Q1982-05	TP-5	SOIL	Silver	0.12	J	0.12	0.50	mg/Kg
Q1982-05	TP-5	SOIL	Sodium	54.6	J	17.8	100	mg/Kg
Q1982-05	TP-5	SOIL	Thallium	1.11	J	0.23	2.00	mg/Kg
Q1982-05	TP-5	SOIL	Vanadium	14.4		0.25	2.00	mg/Kg
Q1982-05	TP-5	SOIL	Zinc	13.6		0.23	2.00	mg/Kg
Client ID : TP-6								
Q1982-06	TP-6	SOIL	Aluminum	1110		0.89	5.32	mg/Kg
Q1982-06	TP-6	SOIL	Arsenic	1.26		0.20	1.06	mg/Kg
Q1982-06	TP-6	SOIL	Barium	2.61	J	0.78	5.32	mg/Kg
Q1982-06	TP-6	SOIL	Beryllium	0.37		0.027	0.32	mg/Kg
Q1982-06	TP-6	SOIL	Calcium	439		11.8	106	mg/Kg
Q1982-06	TP-6	SOIL	Chromium	4.85		0.050	0.53	mg/Kg
Q1982-06	TP-6	SOIL	Cobalt	0.72	J	0.11	1.60	mg/Kg
Q1982-06	TP-6	SOIL	Copper	6.37		0.23	1.06	mg/Kg
Q1982-06	TP-6	SOIL	Iron	21500		4.25	5.32	mg/Kg
Q1982-06	TP-6	SOIL	Lead	3.97		0.14	0.64	mg/Kg
Q1982-06	TP-6	SOIL	Magnesium	69.0	J	12.8	106	mg/Kg
Q1982-06	TP-6	SOIL	Manganese	145		0.15	1.06	mg/Kg
Q1982-06	TP-6	SOIL	Mercury	0.035		0.0080	0.014	mg/Kg
Q1982-06	TP-6	SOIL	Nickel	0.94	J	0.14	2.13	mg/Kg
Q1982-06	TP-6	SOIL	Potassium	139		29.5	106	mg/Kg
Q1982-06	TP-6	SOIL	Silver	0.30	J	0.13	0.53	mg/Kg

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Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1982-06	TP-6	SOIL	Sodium	101	J	18.9	106	mg/Kg
Q1982-06	TP-6	SOIL	Thallium	1.78	J	0.25	2.13	mg/Kg
Q1982-06	TP-6	SOIL	Vanadium	6.98		0.27	2.13	mg/Kg
Q1982-06	TP-6	SOIL	Zinc	8.05		0.25	2.13	mg/Kg
Client ID : TP-8								
Q1982-07	TP-8	SOIL	Aluminum	2490		0.86	5.13	mg/Kg
Q1982-07	TP-8	SOIL	Arsenic	4.06		0.20	1.03	mg/Kg
Q1982-07	TP-8	SOIL	Barium	7.78		0.75	5.13	mg/Kg
Q1982-07	TP-8	SOIL	Beryllium	0.25	J	0.026	0.31	mg/Kg
Q1982-07	TP-8	SOIL	Calcium	585		11.4	103	mg/Kg
Q1982-07	TP-8	SOIL	Chromium	7.08		0.048	0.51	mg/Kg
Q1982-07	TP-8	SOIL	Cobalt	1.34	J	0.10	1.54	mg/Kg
Q1982-07	TP-8	SOIL	Copper	10.3		0.23	1.03	mg/Kg
Q1982-07	TP-8	SOIL	Iron	11200		4.09	5.13	mg/Kg
Q1982-07	TP-8	SOIL	Lead	13.8		0.13	0.62	mg/Kg
Q1982-07	TP-8	SOIL	Magnesium	486		12.3	103	mg/Kg
Q1982-07	TP-8	SOIL	Manganese	19.3		0.14	1.03	mg/Kg
Q1982-07	TP-8	SOIL	Mercury	0.020		0.0080	0.015	mg/Kg
Q1982-07	TP-8	SOIL	Nickel	2.56		0.13	2.05	mg/Kg
Q1982-07	TP-8	SOIL	Potassium	183		28.4	103	mg/Kg
Q1982-07	TP-8	SOIL	Silver	0.16	J	0.12	0.51	mg/Kg
Q1982-07	TP-8	SOIL	Sodium	352		18.3	103	mg/Kg
Q1982-07	TP-8	SOIL	Thallium	0.56	J	0.24	2.05	mg/Kg
Q1982-07	TP-8	SOIL	Vanadium	16.9		0.26	2.05	mg/Kg
Q1982-07	TP-8	SOIL	Zinc	20.8		0.24	2.05	mg/Kg
Client ID : TP-9								
Q1982-08	TP-9	SOIL	Aluminum	5380		0.97	5.77	mg/Kg
Q1982-08	TP-9	SOIL	Arsenic	10.5		0.22	1.15	mg/Kg
Q1982-08	TP-9	SOIL	Barium	3.89	J	0.84	5.77	mg/Kg
Q1982-08	TP-9	SOIL	Beryllium	1.27		0.029	0.35	mg/Kg
Q1982-08	TP-9	SOIL	Calcium	460		12.8	115	mg/Kg
Q1982-08	TP-9	SOIL	Chromium	15.6		0.054	0.58	mg/Kg
Q1982-08	TP-9	SOIL	Cobalt	1.72	J	0.12	1.73	mg/Kg
Q1982-08	TP-9	SOIL	Copper	32.3		0.25	1.15	mg/Kg
Q1982-08	TP-9	SOIL	Iron	81700		4.61	5.77	mg/Kg
Q1982-08	TP-9	SOIL	Lead	3.22		0.15	0.69	mg/Kg
Q1982-08	TP-9	SOIL	Magnesium	46.8	J	13.9	115	mg/Kg
Q1982-08	TP-9	SOIL	Manganese	1.98		0.16	1.15	mg/Kg
Q1982-08	TP-9	SOIL	Mercury	0.024		0.0080	0.015	mg/Kg

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SDG No.:	Q1982	Order ID:	Q1982
Client:	CDM Smith	Project ID:	South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1982-08	TP-9	SOIL	Nickel	1.04	J	0.15	2.31	mg/Kg
Q1982-08	TP-9	SOIL	Potassium	177		32.0	115	mg/Kg
Q1982-08	TP-9	SOIL	Sodium	44.0	J	20.6	115	mg/Kg
Q1982-08	TP-9	SOIL	Thallium	7.36		0.27	2.31	mg/Kg
Q1982-08	TP-9	SOIL	Vanadium	22.0		0.29	2.31	mg/Kg
Q1982-08	TP-9	SOIL	Zinc	23.8		0.27	2.31	mg/Kg



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-1	SDG No.:	Q1982
Lab Sample ID:	Q1982-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	80.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5780		1	0.98	5.80	mg/Kg	05/09/25 10:05	05/13/25 20:31	6010D	SW3050
7440-36-0	Antimony	0.26	UN	1	0.26	2.90	mg/Kg	05/09/25 10:05	05/13/25 20:31	6010D	SW3050
7440-38-2	Arsenic	1.81	N	1	0.22	1.16	mg/Kg	05/09/25 10:05	05/13/25 20:31	6010D	SW3050
7440-39-3	Barium	31.4		1	0.85	5.80	mg/Kg	05/09/25 10:05	05/13/25 20:31	6010D	SW3050
7440-41-7	Beryllium	0.49	N	1	0.029	0.35	mg/Kg	05/09/25 10:05	05/13/25 20:31	6010D	SW3050
7440-43-9	Cadmium	0.028	U	1	0.028	0.35	mg/Kg	05/09/25 10:05	05/13/25 20:31	6010D	SW3050
7440-70-2	Calcium	560	N	1	12.9	116	mg/Kg	05/09/25 10:05	05/13/25 20:31	6010D	SW3050
7440-47-3	Chromium	11.2	N	1	0.055	0.58	mg/Kg	05/09/25 10:05	05/13/25 20:31	6010D	SW3050
7440-48-4	Cobalt	3.32		1	0.12	1.74	mg/Kg	05/09/25 10:05	05/13/25 20:31	6010D	SW3050
7440-50-8	Copper	8.28	N	1	0.26	1.16	mg/Kg	05/09/25 10:05	05/13/25 20:31	6010D	SW3050
7439-89-6	Iron	8230		1	4.63	5.80	mg/Kg	05/09/25 10:05	05/13/25 20:31	6010D	SW3050
7439-92-1	Lead	9.47		1	0.15	0.70	mg/Kg	05/09/25 10:05	05/13/25 20:31	6010D	SW3050
7439-95-4	Magnesium	903	N	1	13.9	116	mg/Kg	05/09/25 10:05	05/13/25 20:31	6010D	SW3050
7439-96-5	Manganese	29.5		1	0.16	1.16	mg/Kg	05/09/25 10:05	05/13/25 20:31	6010D	SW3050
7439-97-6	Mercury	0.018		1	0.0090	0.017	mg/Kg	05/09/25 16:05	05/12/25 10:25	7471B	
7440-02-0	Nickel	6.62		1	0.15	2.32	mg/Kg	05/09/25 10:05	05/13/25 20:31	6010D	SW3050
7440-09-7	Potassium	298	N	1	32.2	116	mg/Kg	05/09/25 10:05	05/13/25 20:31	6010D	SW3050
7782-49-2	Selenium	0.30	UN	1	0.30	1.16	mg/Kg	05/09/25 10:05	05/13/25 20:31	6010D	SW3050
7440-22-4	Silver	0.14	UN	1	0.14	0.58	mg/Kg	05/09/25 10:05	05/13/25 20:31	6010D	SW3050
7440-23-5	Sodium	94.5	JN	1	20.7	116	mg/Kg	05/09/25 10:05	05/13/25 20:31	6010D	SW3050
7440-28-0	Thallium	0.27	U	1	0.27	2.32	mg/Kg	05/09/25 10:05	05/13/25 20:31	6010D	SW3050
7440-62-2	Vanadium	17.0	N	1	0.29	2.32	mg/Kg	05/09/25 10:05	05/13/25 20:31	6010D	SW3050
7440-66-6	Zinc	21.2	N	1	0.27	2.32	mg/Kg	05/09/25 10:05	05/13/25 20:31	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:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-2B	SDG No.:	Q1982
Lab Sample ID:	Q1982-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	85

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	2680		1	0.90	5.37	mg/Kg	05/09/25 10:05	05/13/25 20:35	6010D	SW3050
7440-36-0	Antimony	0.24	UN	1	0.24	2.69	mg/Kg	05/09/25 10:05	05/13/25 20:35	6010D	SW3050
7440-38-2	Arsenic	3.50	N	1	0.20	1.07	mg/Kg	05/09/25 10:05	05/13/25 20:35	6010D	SW3050
7440-39-3	Barium	15.4		1	0.78	5.37	mg/Kg	05/09/25 10:05	05/13/25 20:35	6010D	SW3050
7440-41-7	Beryllium	0.38	N	1	0.027	0.32	mg/Kg	05/09/25 10:05	05/13/25 20:35	6010D	SW3050
7440-43-9	Cadmium	0.026	U	1	0.026	0.32	mg/Kg	05/09/25 10:05	05/13/25 20:35	6010D	SW3050
7440-70-2	Calcium	315	N	1	11.9	107	mg/Kg	05/09/25 10:05	05/13/25 20:35	6010D	SW3050
7440-47-3	Chromium	12.8	N	1	0.050	0.54	mg/Kg	05/09/25 10:05	05/13/25 20:35	6010D	SW3050
7440-48-4	Cobalt	1.00	J	1	0.11	1.61	mg/Kg	05/09/25 10:05	05/13/25 20:35	6010D	SW3050
7440-50-8	Copper	12.4	N	1	0.24	1.07	mg/Kg	05/09/25 10:05	05/13/25 20:35	6010D	SW3050
7439-89-6	Iron	7820		1	4.29	5.37	mg/Kg	05/09/25 10:05	05/13/25 20:35	6010D	SW3050
7439-92-1	Lead	10.8		1	0.14	0.65	mg/Kg	05/09/25 10:05	05/13/25 20:35	6010D	SW3050
7439-95-4	Magnesium	463	N	1	12.9	107	mg/Kg	05/09/25 10:05	05/13/25 20:35	6010D	SW3050
7439-96-5	Manganese	21.2		1	0.15	1.07	mg/Kg	05/09/25 10:05	05/13/25 20:35	6010D	SW3050
7439-97-6	Mercury	0.0090	U	1	0.0090	0.016	mg/Kg	05/09/25 16:05	05/12/25 10:27	7471B	
7440-02-0	Nickel	2.26		1	0.14	2.15	mg/Kg	05/09/25 10:05	05/13/25 20:35	6010D	SW3050
7440-09-7	Potassium	404	N	1	29.8	107	mg/Kg	05/09/25 10:05	05/13/25 20:35	6010D	SW3050
7782-49-2	Selenium	0.28	UN	1	0.28	1.07	mg/Kg	05/09/25 10:05	05/13/25 20:35	6010D	SW3050
7440-22-4	Silver	0.13	UN	1	0.13	0.54	mg/Kg	05/09/25 10:05	05/13/25 20:35	6010D	SW3050
7440-23-5	Sodium	40.9	JN	1	19.1	107	mg/Kg	05/09/25 10:05	05/13/25 20:35	6010D	SW3050
7440-28-0	Thallium	0.43	J	1	0.25	2.15	mg/Kg	05/09/25 10:05	05/13/25 20:35	6010D	SW3050
7440-62-2	Vanadium	11.8	N	1	0.27	2.15	mg/Kg	05/09/25 10:05	05/13/25 20:35	6010D	SW3050
7440-66-6	Zinc	7.19	N	1	0.25	2.15	mg/Kg	05/09/25 10:05	05/13/25 20:35	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:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-3	SDG No.:	Q1982
Lab Sample ID:	Q1982-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	90.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	6860		1	0.88	5.23	mg/Kg	05/09/25 10:05	05/13/25 20:39	6010D	SW3050
7440-36-0	Antimony	0.23	UN	1	0.23	2.61	mg/Kg	05/09/25 10:05	05/13/25 20:39	6010D	SW3050
7440-38-2	Arsenic	0.98	JN	1	0.20	1.05	mg/Kg	05/09/25 10:05	05/13/25 20:39	6010D	SW3050
7440-39-3	Barium	32.2		1	0.76	5.23	mg/Kg	05/09/25 10:05	05/13/25 20:39	6010D	SW3050
7440-41-7	Beryllium	0.54	N	1	0.026	0.31	mg/Kg	05/09/25 10:05	05/13/25 20:39	6010D	SW3050
7440-43-9	Cadmium	0.073	J	1	0.025	0.31	mg/Kg	05/09/25 10:05	05/13/25 20:39	6010D	SW3050
7440-70-2	Calcium	127	N	1	11.6	105	mg/Kg	05/09/25 10:05	05/13/25 20:39	6010D	SW3050
7440-47-3	Chromium	4.97	N	1	0.049	0.52	mg/Kg	05/09/25 10:05	05/13/25 20:39	6010D	SW3050
7440-48-4	Cobalt	2.79		1	0.11	1.57	mg/Kg	05/09/25 10:05	05/13/25 20:39	6010D	SW3050
7440-50-8	Copper	2.12	N	1	0.23	1.05	mg/Kg	05/09/25 10:05	05/13/25 20:39	6010D	SW3050
7439-89-6	Iron	9220		1	4.17	5.23	mg/Kg	05/09/25 10:05	05/13/25 20:39	6010D	SW3050
7439-92-1	Lead	3.44		1	0.14	0.63	mg/Kg	05/09/25 10:05	05/13/25 20:39	6010D	SW3050
7439-95-4	Magnesium	180	N	1	12.5	105	mg/Kg	05/09/25 10:05	05/13/25 20:39	6010D	SW3050
7439-96-5	Manganese	15.0		1	0.15	1.05	mg/Kg	05/09/25 10:05	05/13/25 20:39	6010D	SW3050
7439-97-6	Mercury	0.0080	U	1	0.0080	0.014	mg/Kg	05/09/25 16:05	05/12/25 10:29	7471B	
7440-02-0	Nickel	3.55		1	0.14	2.09	mg/Kg	05/09/25 10:05	05/13/25 20:39	6010D	SW3050
7440-09-7	Potassium	121	N	1	28.9	105	mg/Kg	05/09/25 10:05	05/13/25 20:39	6010D	SW3050
7782-49-2	Selenium	0.27	UN	1	0.27	1.05	mg/Kg	05/09/25 10:05	05/13/25 20:39	6010D	SW3050
7440-22-4	Silver	0.13	UN	1	0.13	0.52	mg/Kg	05/09/25 10:05	05/13/25 20:39	6010D	SW3050
7440-23-5	Sodium	85.7	JN	1	18.6	105	mg/Kg	05/09/25 10:05	05/13/25 20:39	6010D	SW3050
7440-28-0	Thallium	0.24	U	1	0.24	2.09	mg/Kg	05/09/25 10:05	05/13/25 20:39	6010D	SW3050
7440-62-2	Vanadium	10.8	N	1	0.26	2.09	mg/Kg	05/09/25 10:05	05/13/25 20:39	6010D	SW3050
7440-66-6	Zinc	9.47	N	1	0.24	2.09	mg/Kg	05/09/25 10:05	05/13/25 20:39	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:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-4	SDG No.:	Q1982
Lab Sample ID:	Q1982-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	87.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5780		1	0.86	5.13	mg/Kg	05/09/25 10:05	05/13/25 21:12	6010D	SW3050
7440-36-0	Antimony	0.23	UN	1	0.23	2.57	mg/Kg	05/09/25 10:05	05/13/25 21:12	6010D	SW3050
7440-38-2	Arsenic	3.25	N	1	0.20	1.03	mg/Kg	05/09/25 10:05	05/13/25 21:12	6010D	SW3050
7440-39-3	Barium	24.5		1	0.75	5.13	mg/Kg	05/09/25 10:05	05/13/25 21:12	6010D	SW3050
7440-41-7	Beryllium	0.40	N	1	0.026	0.31	mg/Kg	05/09/25 10:05	05/13/25 21:12	6010D	SW3050
7440-43-9	Cadmium	0.025	U	1	0.025	0.31	mg/Kg	05/09/25 10:05	05/13/25 21:12	6010D	SW3050
7440-70-2	Calcium	633	N	1	11.4	103	mg/Kg	05/09/25 10:05	05/13/25 21:12	6010D	SW3050
7440-47-3	Chromium	10.3	N	1	0.048	0.51	mg/Kg	05/09/25 10:05	05/13/25 21:12	6010D	SW3050
7440-48-4	Cobalt	3.07		1	0.10	1.54	mg/Kg	05/09/25 10:05	05/13/25 21:12	6010D	SW3050
7440-50-8	Copper	7.56	N	1	0.23	1.03	mg/Kg	05/09/25 10:05	05/13/25 21:12	6010D	SW3050
7439-89-6	Iron	12400		1	4.09	5.13	mg/Kg	05/09/25 10:05	05/13/25 21:12	6010D	SW3050
7439-92-1	Lead	12.0		1	0.13	0.62	mg/Kg	05/09/25 10:05	05/13/25 21:12	6010D	SW3050
7439-95-4	Magnesium	560	N	1	12.3	103	mg/Kg	05/09/25 10:05	05/13/25 21:12	6010D	SW3050
7439-96-5	Manganese	52.7		1	0.14	1.03	mg/Kg	05/09/25 10:05	05/13/25 21:12	6010D	SW3050
7439-97-6	Mercury	0.067		1	0.0080	0.014	mg/Kg	05/09/25 16:05	05/12/25 10:32	7471B	
7440-02-0	Nickel	5.92		1	0.13	2.05	mg/Kg	05/09/25 10:05	05/13/25 21:12	6010D	SW3050
7440-09-7	Potassium	210	N	1	28.4	103	mg/Kg	05/09/25 10:05	05/13/25 21:12	6010D	SW3050
7782-49-2	Selenium	0.27	UN	1	0.27	1.03	mg/Kg	05/09/25 10:05	05/13/25 21:12	6010D	SW3050
7440-22-4	Silver	0.27	JN	1	0.12	0.51	mg/Kg	05/09/25 10:05	05/13/25 21:12	6010D	SW3050
7440-23-5	Sodium	82.9	JN	1	18.3	103	mg/Kg	05/09/25 10:05	05/13/25 21:12	6010D	SW3050
7440-28-0	Thallium	0.77	J	1	0.24	2.05	mg/Kg	05/09/25 10:05	05/13/25 21:12	6010D	SW3050
7440-62-2	Vanadium	16.5	N	1	0.26	2.05	mg/Kg	05/09/25 10:05	05/13/25 21:12	6010D	SW3050
7440-66-6	Zinc	31.1	N	1	0.24	2.05	mg/Kg	05/09/25 10:05	05/13/25 21:12	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:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-5	SDG No.:	Q1982
Lab Sample ID:	Q1982-05	Matrix:	SOIL
Level (low/med):	low	% Solid:	89.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	2780		1	0.84	5.01	mg/Kg	05/09/25 10:05	05/13/25 21:17	6010D	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.51	mg/Kg	05/09/25 10:05	05/13/25 21:17	6010D	SW3050
7440-38-2	Arsenic	2.96	N	1	0.19	1.00	mg/Kg	05/09/25 10:05	05/13/25 21:17	6010D	SW3050
7440-39-3	Barium	12.2		1	0.73	5.01	mg/Kg	05/09/25 10:05	05/13/25 21:17	6010D	SW3050
7440-41-7	Beryllium	0.38	N	1	0.025	0.30	mg/Kg	05/09/25 10:05	05/13/25 21:17	6010D	SW3050
7440-43-9	Cadmium	0.024	U	1	0.024	0.30	mg/Kg	05/09/25 10:05	05/13/25 21:17	6010D	SW3050
7440-70-2	Calcium	873	N	1	11.1	100	mg/Kg	05/09/25 10:05	05/13/25 21:17	6010D	SW3050
7440-47-3	Chromium	7.77	N	1	0.047	0.50	mg/Kg	05/09/25 10:05	05/13/25 21:17	6010D	SW3050
7440-48-4	Cobalt	1.37	J	1	0.10	1.50	mg/Kg	05/09/25 10:05	05/13/25 21:17	6010D	SW3050
7440-50-8	Copper	7.46	N	1	0.22	1.00	mg/Kg	05/09/25 10:05	05/13/25 21:17	6010D	SW3050
7439-89-6	Iron	14800		1	4.00	5.01	mg/Kg	05/09/25 10:05	05/13/25 21:17	6010D	SW3050
7439-92-1	Lead	6.83		1	0.13	0.60	mg/Kg	05/09/25 10:05	05/13/25 21:17	6010D	SW3050
7439-95-4	Magnesium	255	N	1	12.0	100	mg/Kg	05/09/25 10:05	05/13/25 21:17	6010D	SW3050
7439-96-5	Manganese	24.7		1	0.14	1.00	mg/Kg	05/09/25 10:05	05/13/25 21:17	6010D	SW3050
7439-97-6	Mercury	0.0080	J	1	0.0070	0.013	mg/Kg	05/09/25 16:05	05/12/25 10:34	7471B	
7440-02-0	Nickel	2.38		1	0.13	2.00	mg/Kg	05/09/25 10:05	05/13/25 21:17	6010D	SW3050
7440-09-7	Potassium	134	N	1	27.8	100	mg/Kg	05/09/25 10:05	05/13/25 21:17	6010D	SW3050
7782-49-2	Selenium	0.26	UN	1	0.26	1.00	mg/Kg	05/09/25 10:05	05/13/25 21:17	6010D	SW3050
7440-22-4	Silver	0.12	JN	1	0.12	0.50	mg/Kg	05/09/25 10:05	05/13/25 21:17	6010D	SW3050
7440-23-5	Sodium	54.6	JN	1	17.8	100	mg/Kg	05/09/25 10:05	05/13/25 21:17	6010D	SW3050
7440-28-0	Thallium	1.11	J	1	0.23	2.00	mg/Kg	05/09/25 10:05	05/13/25 21:17	6010D	SW3050
7440-62-2	Vanadium	14.4	N	1	0.25	2.00	mg/Kg	05/09/25 10:05	05/13/25 21:17	6010D	SW3050
7440-66-6	Zinc	13.6	N	1	0.23	2.00	mg/Kg	05/09/25 10:05	05/13/25 21:17	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:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-6	SDG No.:	Q1982
Lab Sample ID:	Q1982-06	Matrix:	SOIL
Level (low/med):	low	% Solid:	86.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	1110		1	0.89	5.32	mg/Kg	05/09/25 10:05	05/13/25 21:21	6010D	SW3050
7440-36-0	Antimony	0.23	UN	1	0.23	2.66	mg/Kg	05/09/25 10:05	05/13/25 21:21	6010D	SW3050
7440-38-2	Arsenic	1.26	N	1	0.20	1.06	mg/Kg	05/09/25 10:05	05/13/25 21:21	6010D	SW3050
7440-39-3	Barium	2.61	J	1	0.78	5.32	mg/Kg	05/09/25 10:05	05/13/25 21:21	6010D	SW3050
7440-41-7	Beryllium	0.37	N	1	0.027	0.32	mg/Kg	05/09/25 10:05	05/13/25 21:21	6010D	SW3050
7440-43-9	Cadmium	0.026	U	1	0.026	0.32	mg/Kg	05/09/25 10:05	05/13/25 21:21	6010D	SW3050
7440-70-2	Calcium	439	N	1	11.8	106	mg/Kg	05/09/25 10:05	05/13/25 21:21	6010D	SW3050
7440-47-3	Chromium	4.85	N	1	0.050	0.53	mg/Kg	05/09/25 10:05	05/13/25 21:21	6010D	SW3050
7440-48-4	Cobalt	0.72	J	1	0.11	1.60	mg/Kg	05/09/25 10:05	05/13/25 21:21	6010D	SW3050
7440-50-8	Copper	6.37	N	1	0.23	1.06	mg/Kg	05/09/25 10:05	05/13/25 21:21	6010D	SW3050
7439-89-6	Iron	21500		1	4.25	5.32	mg/Kg	05/09/25 10:05	05/13/25 21:21	6010D	SW3050
7439-92-1	Lead	3.97		1	0.14	0.64	mg/Kg	05/09/25 10:05	05/13/25 21:21	6010D	SW3050
7439-95-4	Magnesium	69.0	JN	1	12.8	106	mg/Kg	05/09/25 10:05	05/13/25 21:21	6010D	SW3050
7439-96-5	Manganese	145		1	0.15	1.06	mg/Kg	05/09/25 10:05	05/13/25 21:21	6010D	SW3050
7439-97-6	Mercury	0.035		1	0.0080	0.014	mg/Kg	05/09/25 16:05	05/12/25 10:41	7471B	
7440-02-0	Nickel	0.94	J	1	0.14	2.13	mg/Kg	05/09/25 10:05	05/13/25 21:21	6010D	SW3050
7440-09-7	Potassium	139	N	1	29.5	106	mg/Kg	05/09/25 10:05	05/13/25 21:21	6010D	SW3050
7782-49-2	Selenium	0.28	UN	1	0.28	1.06	mg/Kg	05/09/25 10:05	05/13/25 21:21	6010D	SW3050
7440-22-4	Silver	0.30	JN	1	0.13	0.53	mg/Kg	05/09/25 10:05	05/13/25 21:21	6010D	SW3050
7440-23-5	Sodium	101	JN	1	18.9	106	mg/Kg	05/09/25 10:05	05/13/25 21:21	6010D	SW3050
7440-28-0	Thallium	1.78	J	1	0.25	2.13	mg/Kg	05/09/25 10:05	05/13/25 21:21	6010D	SW3050
7440-62-2	Vanadium	6.98	N	1	0.27	2.13	mg/Kg	05/09/25 10:05	05/13/25 21:21	6010D	SW3050
7440-66-6	Zinc	8.05	N	1	0.25	2.13	mg/Kg	05/09/25 10:05	05/13/25 21:21	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:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-8	SDG No.:	Q1982
Lab Sample ID:	Q1982-07	Matrix:	SOIL
Level (low/med):	low	% Solid:	83.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	2490		1	0.86	5.13	mg/Kg	05/09/25 10:05	05/13/25 21:25	6010D	SW3050
7440-36-0	Antimony	0.23	UN	1	0.23	2.56	mg/Kg	05/09/25 10:05	05/13/25 21:25	6010D	SW3050
7440-38-2	Arsenic	4.06	N	1	0.20	1.03	mg/Kg	05/09/25 10:05	05/13/25 21:25	6010D	SW3050
7440-39-3	Barium	7.78		1	0.75	5.13	mg/Kg	05/09/25 10:05	05/13/25 21:25	6010D	SW3050
7440-41-7	Beryllium	0.25	JN	1	0.026	0.31	mg/Kg	05/09/25 10:05	05/13/25 21:25	6010D	SW3050
7440-43-9	Cadmium	0.025	U	1	0.025	0.31	mg/Kg	05/09/25 10:05	05/13/25 21:25	6010D	SW3050
7440-70-2	Calcium	585	N	1	11.4	103	mg/Kg	05/09/25 10:05	05/13/25 21:25	6010D	SW3050
7440-47-3	Chromium	7.08	N	1	0.048	0.51	mg/Kg	05/09/25 10:05	05/13/25 21:25	6010D	SW3050
7440-48-4	Cobalt	1.34	J	1	0.10	1.54	mg/Kg	05/09/25 10:05	05/13/25 21:25	6010D	SW3050
7440-50-8	Copper	10.3	N	1	0.23	1.03	mg/Kg	05/09/25 10:05	05/13/25 21:25	6010D	SW3050
7439-89-6	Iron	11200		1	4.09	5.13	mg/Kg	05/09/25 10:05	05/13/25 21:25	6010D	SW3050
7439-92-1	Lead	13.8		1	0.13	0.62	mg/Kg	05/09/25 10:05	05/13/25 21:25	6010D	SW3050
7439-95-4	Magnesium	486	N	1	12.3	103	mg/Kg	05/09/25 10:05	05/13/25 21:25	6010D	SW3050
7439-96-5	Manganese	19.3		1	0.14	1.03	mg/Kg	05/09/25 10:05	05/13/25 21:25	6010D	SW3050
7439-97-6	Mercury	0.020		1	0.0080	0.015	mg/Kg	05/09/25 16:05	05/12/25 10:43	7471B	
7440-02-0	Nickel	2.56		1	0.13	2.05	mg/Kg	05/09/25 10:05	05/13/25 21:25	6010D	SW3050
7440-09-7	Potassium	183	N	1	28.4	103	mg/Kg	05/09/25 10:05	05/13/25 21:25	6010D	SW3050
7782-49-2	Selenium	0.27	UN	1	0.27	1.03	mg/Kg	05/09/25 10:05	05/13/25 21:25	6010D	SW3050
7440-22-4	Silver	0.16	JN	1	0.12	0.51	mg/Kg	05/09/25 10:05	05/13/25 21:25	6010D	SW3050
7440-23-5	Sodium	352	N	1	18.3	103	mg/Kg	05/09/25 10:05	05/13/25 21:25	6010D	SW3050
7440-28-0	Thallium	0.56	J	1	0.24	2.05	mg/Kg	05/09/25 10:05	05/13/25 21:25	6010D	SW3050
7440-62-2	Vanadium	16.9	N	1	0.26	2.05	mg/Kg	05/09/25 10:05	05/13/25 21:25	6010D	SW3050
7440-66-6	Zinc	20.8	N	1	0.24	2.05	mg/Kg	05/09/25 10:05	05/13/25 21:25	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:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-9	SDG No.:	Q1982
Lab Sample ID:	Q1982-08	Matrix:	SOIL
Level (low/med):	low	% Solid:	81.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5380		1	0.97	5.77	mg/Kg	05/09/25 10:05	05/13/25 21:29	6010D	SW3050
7440-36-0	Antimony	0.25	UN	1	0.25	2.89	mg/Kg	05/09/25 10:05	05/13/25 21:29	6010D	SW3050
7440-38-2	Arsenic	10.5	N	1	0.22	1.15	mg/Kg	05/09/25 10:05	05/13/25 21:29	6010D	SW3050
7440-39-3	Barium	3.89	J	1	0.84	5.77	mg/Kg	05/09/25 10:05	05/13/25 21:29	6010D	SW3050
7440-41-7	Beryllium	1.27	N	1	0.029	0.35	mg/Kg	05/09/25 10:05	05/13/25 21:29	6010D	SW3050
7440-43-9	Cadmium	0.028	U	1	0.028	0.35	mg/Kg	05/09/25 10:05	05/13/25 21:29	6010D	SW3050
7440-70-2	Calcium	460	N	1	12.8	115	mg/Kg	05/09/25 10:05	05/13/25 21:29	6010D	SW3050
7440-47-3	Chromium	15.6	N	1	0.054	0.58	mg/Kg	05/09/25 10:05	05/13/25 21:29	6010D	SW3050
7440-48-4	Cobalt	1.72	J	1	0.12	1.73	mg/Kg	05/09/25 10:05	05/13/25 21:29	6010D	SW3050
7440-50-8	Copper	32.3	N	1	0.25	1.15	mg/Kg	05/09/25 10:05	05/13/25 21:29	6010D	SW3050
7439-89-6	Iron	81700		1	4.61	5.77	mg/Kg	05/09/25 10:05	05/13/25 21:29	6010D	SW3050
7439-92-1	Lead	3.22		1	0.15	0.69	mg/Kg	05/09/25 10:05	05/13/25 21:29	6010D	SW3050
7439-95-4	Magnesium	46.8	JN	1	13.9	115	mg/Kg	05/09/25 10:05	05/13/25 21:29	6010D	SW3050
7439-96-5	Manganese	1.98		1	0.16	1.15	mg/Kg	05/09/25 10:05	05/13/25 21:29	6010D	SW3050
7439-97-6	Mercury	0.024		1	0.0080	0.015	mg/Kg	05/09/25 16:05	05/12/25 10:45	7471B	
7440-02-0	Nickel	1.04	J	1	0.15	2.31	mg/Kg	05/09/25 10:05	05/13/25 21:29	6010D	SW3050
7440-09-7	Potassium	177	N	1	32.0	115	mg/Kg	05/09/25 10:05	05/13/25 21:29	6010D	SW3050
7782-49-2	Selenium	0.30	UN	1	0.30	1.15	mg/Kg	05/09/25 10:05	05/13/25 21:29	6010D	SW3050
7440-22-4	Silver	0.14	UN	1	0.14	0.58	mg/Kg	05/09/25 10:05	05/13/25 21:29	6010D	SW3050
7440-23-5	Sodium	44.0	JN	1	20.6	115	mg/Kg	05/09/25 10:05	05/13/25 21:29	6010D	SW3050
7440-28-0	Thallium	7.36		1	0.27	2.31	mg/Kg	05/09/25 10:05	05/13/25 21:29	6010D	SW3050
7440-62-2	Vanadium	22.0	N	1	0.29	2.31	mg/Kg	05/09/25 10:05	05/13/25 21:29	6010D	SW3050
7440-66-6	Zinc	23.8	N	1	0.27	2.31	mg/Kg	05/09/25 10:05	05/13/25 21:29	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



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	CDM Smith				SDG No.:	Q1982			
Contract:	CAMP02	Lab Code:	CHEM		Case No.:	Q1982		SAS No.:	Q1982
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB05	Mercury	0.20	+/-0.20	U	0.20	CV	05/12/2025	09:58	LB135733

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q1982
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q1982 **SAS No.:** Q1982

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB07	Mercury	0.20	+/-0.20	U	0.20	CV	05/12/2025	10:08	LB135733
CCB08	Mercury	0.20	+/-0.20	U	0.20	CV	05/12/2025	10:39	LB135733
CCB09	Mercury	0.20	+/-0.20	U	0.20	CV	05/12/2025	11:11	LB135733
CCB10	Mercury	0.20	+/-0.20	U	0.20	CV	05/12/2025	11:39	LB135733
CCB11	Mercury	0.20	+/-0.20	U	0.20	CV	05/12/2025	12:53	LB135733
CCB12	Mercury	0.20	+/-0.20	U	0.20	CV	05/12/2025	13:27	LB135733

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q1982
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q1982 **SAS No.:** Q1982

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	05/13/2025	12:55	LB135756
	Antimony	50.0	+/-50.0	U	50.0	P	05/13/2025	12:55	LB135756
	Arsenic	20.0	+/-20.0	U	20.0	P	05/13/2025	12:55	LB135756
	Barium	100	+/-100	U	100	P	05/13/2025	12:55	LB135756
	Beryllium	6.00	+/-6.00	U	6.00	P	05/13/2025	12:55	LB135756
	Cadmium	6.00	+/-6.00	U	6.00	P	05/13/2025	12:55	LB135756
	Calcium	2000	+/-2000	U	2000	P	05/13/2025	12:55	LB135756
	Chromium	10.0	+/-10.0	U	10.0	P	05/13/2025	12:55	LB135756
	Cobalt	30.0	+/-30.0	U	30.0	P	05/13/2025	12:55	LB135756
	Copper	20.0	+/-20.0	U	20.0	P	05/13/2025	12:55	LB135756
	Iron	100	+/-100	U	100	P	05/13/2025	12:55	LB135756
	Lead	12.0	+/-12.0	U	12.0	P	05/13/2025	12:55	LB135756
	Magnesium	2000	+/-2000	U	2000	P	05/13/2025	12:55	LB135756
	Manganese	20.0	+/-20.0	U	20.0	P	05/13/2025	12:55	LB135756
	Nickel	40.0	+/-40.0	U	40.0	P	05/13/2025	12:55	LB135756
	Potassium	2000	+/-2000	U	2000	P	05/13/2025	12:55	LB135756
	Selenium	20.0	+/-20.0	U	20.0	P	05/13/2025	12:55	LB135756
	Silver	10.0	+/-10.0	U	10.0	P	05/13/2025	12:55	LB135756
	Sodium	2000	+/-2000	U	2000	P	05/13/2025	12:55	LB135756
	Thallium	40.0	+/-40.0	U	40.0	P	05/13/2025	12:55	LB135756
	Vanadium	40.0	+/-40.0	U	40.0	P	05/13/2025	12:55	LB135756
	Zinc	40.0	+/-40.0	U	40.0	P	05/13/2025	12:55	LB135756

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q1982							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q1982	SAS No.: Q1982						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	05/13/2025	13:26	LB135756
	Antimony	50.0	+/-50.0	U	50.0	P	05/13/2025	13:26	LB135756
	Arsenic	20.0	+/-20.0	U	20.0	P	05/13/2025	13:26	LB135756
	Barium	100	+/-100	U	100	P	05/13/2025	13:26	LB135756
	Beryllium	6.00	+/-6.00	U	6.00	P	05/13/2025	13:26	LB135756
	Cadmium	6.00	+/-6.00	U	6.00	P	05/13/2025	13:26	LB135756
	Calcium	2000	+/-2000	U	2000	P	05/13/2025	13:26	LB135756
	Chromium	10.0	+/-10.0	U	10.0	P	05/13/2025	13:26	LB135756
	Cobalt	30.0	+/-30.0	U	30.0	P	05/13/2025	13:26	LB135756
	Copper	20.0	+/-20.0	U	20.0	P	05/13/2025	13:26	LB135756
	Iron	100	+/-100	U	100	P	05/13/2025	13:26	LB135756
	Lead	12.0	+/-12.0	U	12.0	P	05/13/2025	13:26	LB135756
	Magnesium	2000	+/-2000	U	2000	P	05/13/2025	13:26	LB135756
	Manganese	20.0	+/-20.0	U	20.0	P	05/13/2025	13:26	LB135756
	Nickel	40.0	+/-40.0	U	40.0	P	05/13/2025	13:26	LB135756
	Potassium	2000	+/-2000	U	2000	P	05/13/2025	13:26	LB135756
	Selenium	20.0	+/-20.0	U	20.0	P	05/13/2025	13:26	LB135756
	Silver	10.0	+/-10.0	U	10.0	P	05/13/2025	13:26	LB135756
	Sodium	2000	+/-2000	U	2000	P	05/13/2025	13:26	LB135756
	Thallium	40.0	+/-40.0	U	40.0	P	05/13/2025	13:26	LB135756
	Vanadium	40.0	+/-40.0	U	40.0	P	05/13/2025	13:26	LB135756
	Zinc	40.0	+/-40.0	U	40.0	P	05/13/2025	13:26	LB135756
CCB02	Aluminum	16.5	+/-100	J	100	P	05/13/2025	14:56	LB135756
	Antimony	50.0	+/-50.0	U	50.0	P	05/13/2025	14:56	LB135756
	Arsenic	20.0	+/-20.0	U	20.0	P	05/13/2025	14:56	LB135756
	Barium	100	+/-100	U	100	P	05/13/2025	14:56	LB135756
	Beryllium	6.00	+/-6.00	U	6.00	P	05/13/2025	14:56	LB135756
	Cadmium	6.00	+/-6.00	U	6.00	P	05/13/2025	14:56	LB135756
	Calcium	2000	+/-2000	U	2000	P	05/13/2025	14:56	LB135756
	Chromium	10.0	+/-10.0	U	10.0	P	05/13/2025	14:56	LB135756
	Cobalt	30.0	+/-30.0	U	30.0	P	05/13/2025	14:56	LB135756
	Copper	20.0	+/-20.0	U	20.0	P	05/13/2025	14:56	LB135756
	Iron	100	+/-100	U	100	P	05/13/2025	14:56	LB135756
	Lead	12.0	+/-12.0	U	12.0	P	05/13/2025	14:56	LB135756
	Magnesium	2000	+/-2000	U	2000	P	05/13/2025	14:56	LB135756
	Manganese	20.0	+/-20.0	U	20.0	P	05/13/2025	14:56	LB135756
	Nickel	40.0	+/-40.0	U	40.0	P	05/13/2025	14:56	LB135756
	Potassium	2000	+/-2000	U	2000	P	05/13/2025	14:56	LB135756
	Selenium	20.0	+/-20.0	U	20.0	P	05/13/2025	14:56	LB135756

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q1982							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q1982	SAS No.: Q1982						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	05/13/2025	14:56	LB135756
	Sodium	2000	+/-2000	U	2000	P	05/13/2025	14:56	LB135756
	Thallium	40.0	+/-40.0	U	40.0	P	05/13/2025	14:56	LB135756
	Vanadium	40.0	+/-40.0	U	40.0	P	05/13/2025	14:56	LB135756
	Zinc	40.0	+/-40.0	U	40.0	P	05/13/2025	14:56	LB135756
CCB03	Aluminum	100	+/-100	U	100	P	05/13/2025	16:47	LB135756
	Antimony	50.0	+/-50.0	U	50.0	P	05/13/2025	16:47	LB135756
	Arsenic	20.0	+/-20.0	U	20.0	P	05/13/2025	16:47	LB135756
	Barium	100	+/-100	U	100	P	05/13/2025	16:47	LB135756
	Beryllium	6.00	+/-6.00	U	6.00	P	05/13/2025	16:47	LB135756
	Cadmium	6.00	+/-6.00	U	6.00	P	05/13/2025	16:47	LB135756
	Calcium	2000	+/-2000	U	2000	P	05/13/2025	16:47	LB135756
	Chromium	10.0	+/-10.0	U	10.0	P	05/13/2025	16:47	LB135756
	Cobalt	30.0	+/-30.0	U	30.0	P	05/13/2025	16:47	LB135756
	Copper	20.0	+/-20.0	U	20.0	P	05/13/2025	16:47	LB135756
	Iron	100	+/-100	U	100	P	05/13/2025	16:47	LB135756
	Lead	12.0	+/-12.0	U	12.0	P	05/13/2025	16:47	LB135756
	Magnesium	2000	+/-2000	U	2000	P	05/13/2025	16:47	LB135756
	Manganese	20.0	+/-20.0	U	20.0	P	05/13/2025	16:47	LB135756
	Nickel	40.0	+/-40.0	U	40.0	P	05/13/2025	16:47	LB135756
	Potassium	2000	+/-2000	U	2000	P	05/13/2025	16:47	LB135756
	Selenium	20.0	+/-20.0	U	20.0	P	05/13/2025	16:47	LB135756
	Silver	10.0	+/-10.0	U	10.0	P	05/13/2025	16:47	LB135756
	Sodium	2000	+/-2000	U	2000	P	05/13/2025	16:47	LB135756
	Thallium	40.0	+/-40.0	U	40.0	P	05/13/2025	16:47	LB135756
	Vanadium	40.0	+/-40.0	U	40.0	P	05/13/2025	16:47	LB135756
	Zinc	40.0	+/-40.0	U	40.0	P	05/13/2025	16:47	LB135756
CCB04	Aluminum	11.3	+/-100	J	100	P	05/13/2025	17:46	LB135756
	Antimony	50.0	+/-50.0	U	50.0	P	05/13/2025	17:46	LB135756
	Arsenic	20.0	+/-20.0	U	20.0	P	05/13/2025	17:46	LB135756
	Barium	100	+/-100	U	100	P	05/13/2025	17:46	LB135756
	Beryllium	6.00	+/-6.00	U	6.00	P	05/13/2025	17:46	LB135756
	Cadmium	6.00	+/-6.00	U	6.00	P	05/13/2025	17:46	LB135756
	Calcium	2000	+/-2000	U	2000	P	05/13/2025	17:46	LB135756
	Chromium	10.0	+/-10.0	U	10.0	P	05/13/2025	17:46	LB135756
	Cobalt	30.0	+/-30.0	U	30.0	P	05/13/2025	17:46	LB135756
	Copper	20.0	+/-20.0	U	20.0	P	05/13/2025	17:46	LB135756
	Iron	100	+/-100	U	100	P	05/13/2025	17:46	LB135756
	Lead	12.0	+/-12.0	U	12.0	P	05/13/2025	17:46	LB135756

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q1982							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q1982	SAS No.: Q1982						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	05/13/2025	17:46	LB135756
	Manganese	20.0	+/-20.0	U	20.0	P	05/13/2025	17:46	LB135756
	Nickel	40.0	+/-40.0	U	40.0	P	05/13/2025	17:46	LB135756
	Potassium	2000	+/-2000	U	2000	P	05/13/2025	17:46	LB135756
	Selenium	20.0	+/-20.0	U	20.0	P	05/13/2025	17:46	LB135756
	Silver	10.0	+/-10.0	U	10.0	P	05/13/2025	17:46	LB135756
	Sodium	956	+/-2000	J	2000	P	05/13/2025	17:46	LB135756
	Thallium	40.0	+/-40.0	U	40.0	P	05/13/2025	17:46	LB135756
	Vanadium	40.0	+/-40.0	U	40.0	P	05/13/2025	17:46	LB135756
	Zinc	40.0	+/-40.0	U	40.0	P	05/13/2025	17:46	LB135756
CCB05	Aluminum	14.7	+/-100	J	100	P	05/13/2025	18:39	LB135756
	Antimony	50.0	+/-50.0	U	50.0	P	05/13/2025	18:39	LB135756
	Arsenic	20.0	+/-20.0	U	20.0	P	05/13/2025	18:39	LB135756
	Barium	100	+/-100	U	100	P	05/13/2025	18:39	LB135756
	Beryllium	6.00	+/-6.00	U	6.00	P	05/13/2025	18:39	LB135756
	Cadmium	6.00	+/-6.00	U	6.00	P	05/13/2025	18:39	LB135756
	Calcium	2000	+/-2000	U	2000	P	05/13/2025	18:39	LB135756
	Chromium	10.0	+/-10.0	U	10.0	P	05/13/2025	18:39	LB135756
	Cobalt	30.0	+/-30.0	U	30.0	P	05/13/2025	18:39	LB135756
	Copper	20.0	+/-20.0	U	20.0	P	05/13/2025	18:39	LB135756
	Iron	100	+/-100	U	100	P	05/13/2025	18:39	LB135756
	Lead	12.0	+/-12.0	U	12.0	P	05/13/2025	18:39	LB135756
	Magnesium	2000	+/-2000	U	2000	P	05/13/2025	18:39	LB135756
	Manganese	20.0	+/-20.0	U	20.0	P	05/13/2025	18:39	LB135756
	Nickel	40.0	+/-40.0	U	40.0	P	05/13/2025	18:39	LB135756
	Potassium	2000	+/-2000	U	2000	P	05/13/2025	18:39	LB135756
	Selenium	20.0	+/-20.0	U	20.0	P	05/13/2025	18:39	LB135756
	Silver	10.0	+/-10.0	U	10.0	P	05/13/2025	18:39	LB135756
	Sodium	2000	+/-2000	U	2000	P	05/13/2025	18:39	LB135756
	Thallium	40.0	+/-40.0	U	40.0	P	05/13/2025	18:39	LB135756
	Vanadium	40.0	+/-40.0	U	40.0	P	05/13/2025	18:39	LB135756
	Zinc	40.0	+/-40.0	U	40.0	P	05/13/2025	18:39	LB135756
CCB06	Aluminum	100	+/-100	U	100	P	05/13/2025	19:25	LB135756
	Antimony	50.0	+/-50.0	U	50.0	P	05/13/2025	19:25	LB135756
	Arsenic	20.0	+/-20.0	U	20.0	P	05/13/2025	19:25	LB135756
	Barium	100	+/-100	U	100	P	05/13/2025	19:25	LB135756
	Beryllium	6.00	+/-6.00	U	6.00	P	05/13/2025	19:25	LB135756
	Cadmium	6.00	+/-6.00	U	6.00	P	05/13/2025	19:25	LB135756
	Calcium	2000	+/-2000	U	2000	P	05/13/2025	19:25	LB135756

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q1982							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q1982	SAS No.: Q1982						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	05/13/2025	19:25	LB135756
	Cobalt	30.0	+/-30.0	U	30.0	P	05/13/2025	19:25	LB135756
	Copper	20.0	+/-20.0	U	20.0	P	05/13/2025	19:25	LB135756
	Iron	100	+/-100	U	100	P	05/13/2025	19:25	LB135756
	Lead	12.0	+/-12.0	U	12.0	P	05/13/2025	19:25	LB135756
	Magnesium	2000	+/-2000	U	2000	P	05/13/2025	19:25	LB135756
	Manganese	20.0	+/-20.0	U	20.0	P	05/13/2025	19:25	LB135756
	Nickel	40.0	+/-40.0	U	40.0	P	05/13/2025	19:25	LB135756
	Potassium	2000	+/-2000	U	2000	P	05/13/2025	19:25	LB135756
	Selenium	20.0	+/-20.0	U	20.0	P	05/13/2025	19:25	LB135756
	Silver	10.0	+/-10.0	U	10.0	P	05/13/2025	19:25	LB135756
	Sodium	2000	+/-2000	U	2000	P	05/13/2025	19:25	LB135756
	Thallium	40.0	+/-40.0	U	40.0	P	05/13/2025	19:25	LB135756
	Vanadium	40.0	+/-40.0	U	40.0	P	05/13/2025	19:25	LB135756
	Zinc	40.0	+/-40.0	U	40.0	P	05/13/2025	19:25	LB135756
CCB07	Aluminum	100	+/-100	U	100	P	05/13/2025	20:10	LB135756
	Antimony	50.0	+/-50.0	U	50.0	P	05/13/2025	20:10	LB135756
	Arsenic	20.0	+/-20.0	U	20.0	P	05/13/2025	20:10	LB135756
	Barium	100	+/-100	U	100	P	05/13/2025	20:10	LB135756
	Beryllium	6.00	+/-6.00	U	6.00	P	05/13/2025	20:10	LB135756
	Cadmium	6.00	+/-6.00	U	6.00	P	05/13/2025	20:10	LB135756
	Calcium	2000	+/-2000	U	2000	P	05/13/2025	20:10	LB135756
	Chromium	10.0	+/-10.0	U	10.0	P	05/13/2025	20:10	LB135756
	Cobalt	30.0	+/-30.0	U	30.0	P	05/13/2025	20:10	LB135756
	Copper	20.0	+/-20.0	U	20.0	P	05/13/2025	20:10	LB135756
	Iron	100	+/-100	U	100	P	05/13/2025	20:10	LB135756
	Lead	12.0	+/-12.0	U	12.0	P	05/13/2025	20:10	LB135756
	Magnesium	2000	+/-2000	U	2000	P	05/13/2025	20:10	LB135756
	Manganese	20.0	+/-20.0	U	20.0	P	05/13/2025	20:10	LB135756
	Nickel	40.0	+/-40.0	U	40.0	P	05/13/2025	20:10	LB135756
	Potassium	2000	+/-2000	U	2000	P	05/13/2025	20:10	LB135756
	Selenium	20.0	+/-20.0	U	20.0	P	05/13/2025	20:10	LB135756
	Silver	10.0	+/-10.0	U	10.0	P	05/13/2025	20:10	LB135756
	Sodium	2000	+/-2000	U	2000	P	05/13/2025	20:10	LB135756
	Thallium	40.0	+/-40.0	U	40.0	P	05/13/2025	20:10	LB135756
	Vanadium	40.0	+/-40.0	U	40.0	P	05/13/2025	20:10	LB135756
	Zinc	40.0	+/-40.0	U	40.0	P	05/13/2025	20:10	LB135756
CCB08	Aluminum	100	+/-100	U	100	P	05/13/2025	20:56	LB135756
	Antimony	50.0	+/-50.0	U	50.0	P	05/13/2025	20:56	LB135756

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q1982							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q1982	SAS No.: Q1982						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	05/13/2025	20:56	LB135756
	Barium	100	+/-100	U	100	P	05/13/2025	20:56	LB135756
	Beryllium	6.00	+/-6.00	U	6.00	P	05/13/2025	20:56	LB135756
	Cadmium	6.00	+/-6.00	U	6.00	P	05/13/2025	20:56	LB135756
	Calcium	2000	+/-2000	U	2000	P	05/13/2025	20:56	LB135756
	Chromium	10.0	+/-10.0	U	10.0	P	05/13/2025	20:56	LB135756
	Cobalt	30.0	+/-30.0	U	30.0	P	05/13/2025	20:56	LB135756
	Copper	20.0	+/-20.0	U	20.0	P	05/13/2025	20:56	LB135756
	Iron	100	+/-100	U	100	P	05/13/2025	20:56	LB135756
	Lead	12.0	+/-12.0	U	12.0	P	05/13/2025	20:56	LB135756
	Magnesium	2000	+/-2000	U	2000	P	05/13/2025	20:56	LB135756
	Manganese	20.0	+/-20.0	U	20.0	P	05/13/2025	20:56	LB135756
	Nickel	40.0	+/-40.0	U	40.0	P	05/13/2025	20:56	LB135756
	Potassium	2000	+/-2000	U	2000	P	05/13/2025	20:56	LB135756
	Selenium	20.0	+/-20.0	U	20.0	P	05/13/2025	20:56	LB135756
	Silver	10.0	+/-10.0	U	10.0	P	05/13/2025	20:56	LB135756
	Sodium	2000	+/-2000	U	2000	P	05/13/2025	20:56	LB135756
	Thallium	40.0	+/-40.0	U	40.0	P	05/13/2025	20:56	LB135756
	Vanadium	40.0	+/-40.0	U	40.0	P	05/13/2025	20:56	LB135756
	Zinc	40.0	+/-40.0	U	40.0	P	05/13/2025	20:56	LB135756
CCB09	Aluminum	13.1	+/-100	J	100	P	05/13/2025	21:42	LB135756
	Antimony	50.0	+/-50.0	U	50.0	P	05/13/2025	21:42	LB135756
	Arsenic	20.0	+/-20.0	U	20.0	P	05/13/2025	21:42	LB135756
	Barium	100	+/-100	U	100	P	05/13/2025	21:42	LB135756
	Beryllium	6.00	+/-6.00	U	6.00	P	05/13/2025	21:42	LB135756
	Cadmium	6.00	+/-6.00	U	6.00	P	05/13/2025	21:42	LB135756
	Calcium	2000	+/-2000	U	2000	P	05/13/2025	21:42	LB135756
	Chromium	10.0	+/-10.0	U	10.0	P	05/13/2025	21:42	LB135756
	Cobalt	30.0	+/-30.0	U	30.0	P	05/13/2025	21:42	LB135756
	Copper	20.0	+/-20.0	U	20.0	P	05/13/2025	21:42	LB135756
	Iron	100	+/-100	U	100	P	05/13/2025	21:42	LB135756
	Lead	12.0	+/-12.0	U	12.0	P	05/13/2025	21:42	LB135756
	Magnesium	2000	+/-2000	U	2000	P	05/13/2025	21:42	LB135756
	Manganese	20.0	+/-20.0	U	20.0	P	05/13/2025	21:42	LB135756
	Nickel	40.0	+/-40.0	U	40.0	P	05/13/2025	21:42	LB135756
	Potassium	2000	+/-2000	U	2000	P	05/13/2025	21:42	LB135756
	Selenium	20.0	+/-20.0	U	20.0	P	05/13/2025	21:42	LB135756
	Silver	10.0	+/-10.0	U	10.0	P	05/13/2025	21:42	LB135756
	Sodium	2000	+/-2000	U	2000	P	05/13/2025	21:42	LB135756

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith		SDG No.: Q1982							
Contract: CAMP02	Lab Code: CHEM	Case No.: Q1982	SAS No.: Q1982						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Thallium	40.0	+/-40.0	U	40.0	P	05/13/2025	21:42	LB135756
	Vanadium	40.0	+/-40.0	U	40.0	P	05/13/2025	21:42	LB135756
	Zinc	40.0	+/-40.0	U	40.0	P	05/13/2025	21:42	LB135756
CCB10	Aluminum	100	+/-100	U	100	P	05/13/2025	22:29	LB135756
	Antimony	50.0	+/-50.0	U	50.0	P	05/13/2025	22:29	LB135756
	Arsenic	20.0	+/-20.0	U	20.0	P	05/13/2025	22:29	LB135756
	Barium	100	+/-100	U	100	P	05/13/2025	22:29	LB135756
	Beryllium	6.00	+/-6.00	U	6.00	P	05/13/2025	22:29	LB135756
	Cadmium	6.00	+/-6.00	U	6.00	P	05/13/2025	22:29	LB135756
	Calcium	2000	+/-2000	U	2000	P	05/13/2025	22:29	LB135756
	Chromium	10.0	+/-10.0	U	10.0	P	05/13/2025	22:29	LB135756
	Cobalt	30.0	+/-30.0	U	30.0	P	05/13/2025	22:29	LB135756
	Copper	20.0	+/-20.0	U	20.0	P	05/13/2025	22:29	LB135756
	Iron	100	+/-100	U	100	P	05/13/2025	22:29	LB135756
	Lead	12.0	+/-12.0	U	12.0	P	05/13/2025	22:29	LB135756
	Magnesium	2000	+/-2000	U	2000	P	05/13/2025	22:29	LB135756
	Manganese	20.0	+/-20.0	U	20.0	P	05/13/2025	22:29	LB135756
	Nickel	40.0	+/-40.0	U	40.0	P	05/13/2025	22:29	LB135756
	Potassium	2000	+/-2000	U	2000	P	05/13/2025	22:29	LB135756
	Selenium	20.0	+/-20.0	U	20.0	P	05/13/2025	22:29	LB135756
	Silver	10.0	+/-10.0	U	10.0	P	05/13/2025	22:29	LB135756
	Sodium	2000	+/-2000	U	2000	P	05/13/2025	22:29	LB135756
	Thallium	40.0	+/-40.0	U	40.0	P	05/13/2025	22:29	LB135756
	Vanadium	40.0	+/-40.0	U	40.0	P	05/13/2025	22:29	LB135756
	Zinc	40.0	+/-40.0	U	40.0	P	05/13/2025	22:29	LB135756

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith

SDG No.: Q1982

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB167937BL		SOLID		Batch Number:	PB167937		Prep Date:	05/09/2025	
	Mercury	0.013	<0.013	U	0.013	CV	05/12/2025	10:18	LB135733

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith

SDG No.: Q1982

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB167930BL	SOLID			Batch Number:	PB167930		Prep Date:	05/09/2025	
	Aluminum	4.85	<4.85	U	4.85	P	05/13/2025	14:35	LB135756
	Antimony	2.43	<2.43	U	2.43	P	05/13/2025	14:35	LB135756
	Arsenic	0.97	<0.97	U	0.97	P	05/13/2025	14:35	LB135756
	Barium	4.85	<4.85	U	4.85	P	05/13/2025	14:35	LB135756
	Beryllium	0.29	<0.29	U	0.29	P	05/13/2025	14:35	LB135756
	Cadmium	0.29	<0.29	U	0.29	P	05/13/2025	14:35	LB135756
	Calcium	97.1	<97.1	U	97.1	P	05/13/2025	14:35	LB135756
	Chromium	0.49	<0.49	U	0.49	P	05/13/2025	14:35	LB135756
	Cobalt	1.46	<1.46	U	1.46	P	05/13/2025	14:35	LB135756
	Copper	0.97	<0.97	U	0.97	P	05/13/2025	14:35	LB135756
	Iron	4.85	<4.85	U	4.85	P	05/13/2025	14:35	LB135756
	Lead	0.58	<0.58	U	0.58	P	05/13/2025	14:35	LB135756
	Magnesium	97.1	<97.1	U	97.1	P	05/13/2025	14:35	LB135756
	Manganese	0.97	<0.97	U	0.97	P	05/13/2025	14:35	LB135756
	Nickel	1.94	<1.94	U	1.94	P	05/13/2025	14:35	LB135756
	Potassium	97.1	<97.1	U	97.1	P	05/13/2025	14:35	LB135756
	Selenium	0.97	<0.97	U	0.97	P	05/13/2025	14:35	LB135756
	Silver	0.49	<0.49	U	0.49	P	05/13/2025	14:35	LB135756
	Sodium	97.1	<97.1	U	97.1	P	05/13/2025	14:35	LB135756
	Thallium	1.94	<1.94	U	1.94	P	05/13/2025	14:35	LB135756
	Vanadium	1.94	<1.94	U	1.94	P	05/13/2025	14:35	LB135756
	Zinc	1.94	<1.94	U	1.94	P	05/13/2025	14:35	LB135756



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q1982
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q1982 **SAS No.:** Q1982
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV05	Mercury	3.88	4.0	97	90 - 110	CV	05/12/2025	09:56	LB135733

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q1982
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q1982 **SAS No.:** Q1982
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Mercury	4.84	5.0	97	90 - 110	CV	05/12/2025	10:06	LB135733
CCV08	Mercury	4.89	5.0	98	90 - 110	CV	05/12/2025	10:36	LB135733
CCV09	Mercury	4.96	5.0	99	90 - 110	CV	05/12/2025	11:09	LB135733
CCV10	Mercury	4.96	5.0	99	90 - 110	CV	05/12/2025	11:36	LB135733
CCV11	Mercury	4.72	5.0	94	90 - 110	CV	05/12/2025	12:42	LB135733
CCV12	Mercury	4.97	5.0	99	90 - 110	CV	05/12/2025	13:17	LB135733

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q1982
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q1982 **SAS No.:** Q1982
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2380	2500	95	90 - 110	P	05/13/2025	12:33	LB135756
	Antimony	1010	1000	101	90 - 110	P	05/13/2025	12:33	LB135756
	Arsenic	972	1000	97	90 - 110	P	05/13/2025	12:33	LB135756
	Barium	534	520	103	90 - 110	P	05/13/2025	12:33	LB135756
	Beryllium	486	510	95	90 - 110	P	05/13/2025	12:33	LB135756
	Cadmium	494	510	97	90 - 110	P	05/13/2025	12:33	LB135756
	Calcium	9360	10000	94	90 - 110	P	05/13/2025	12:33	LB135756
	Chromium	499	520	96	90 - 110	P	05/13/2025	12:33	LB135756
	Cobalt	484	520	93	90 - 110	P	05/13/2025	12:33	LB135756
	Copper	498	510	98	90 - 110	P	05/13/2025	12:33	LB135756
	Iron	9260	10000	93	90 - 110	P	05/13/2025	12:33	LB135756
	Lead	967	1000	97	90 - 110	P	05/13/2025	12:33	LB135756
	Magnesium	5540	6000	92	90 - 110	P	05/13/2025	12:33	LB135756
	Manganese	482	520	93	90 - 110	P	05/13/2025	12:33	LB135756
	Nickel	486	530	92	90 - 110	P	05/13/2025	12:33	LB135756
	Potassium	10300	9900	104	90 - 110	P	05/13/2025	12:33	LB135756
	Selenium	1010	1000	100	90 - 110	P	05/13/2025	12:33	LB135756
	Silver	239	250	96	90 - 110	P	05/13/2025	12:33	LB135756
	Sodium	9900	10000	99	90 - 110	P	05/13/2025	12:33	LB135756
	Thallium	999	1000	100	90 - 110	P	05/13/2025	12:33	LB135756
	Vanadium	474	500	95	90 - 110	P	05/13/2025	12:33	LB135756
	Zinc	983	1000	98	90 - 110	P	05/13/2025	12:33	LB135756

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q1982
 Contract: CAMP02 Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982
 Initial Calibration Source: EPA
 Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	110	100	110	80 - 120	P	05/13/2025	12:50	LB135756
	Antimony	52.4	50.0	105	80 - 120	P	05/13/2025	12:50	LB135756
	Arsenic	20.9	20.0	105	80 - 120	P	05/13/2025	12:50	LB135756
	Barium	92.2	100	92	80 - 120	P	05/13/2025	12:50	LB135756
	Beryllium	6.11	6.0	102	80 - 120	P	05/13/2025	12:50	LB135756
	Cadmium	6.14	6.0	102	80 - 120	P	05/13/2025	12:50	LB135756
	Calcium	1970	2000	98	80 - 120	P	05/13/2025	12:50	LB135756
	Chromium	9.36	10.0	94	80 - 120	P	05/13/2025	12:50	LB135756
	Cobalt	29.8	30.0	99	80 - 120	P	05/13/2025	12:50	LB135756
	Copper	22.2	20.0	111	80 - 120	P	05/13/2025	12:50	LB135756
	Iron	97.3	100	97	80 - 120	P	05/13/2025	12:50	LB135756
	Lead	11.4	12.0	95	80 - 120	P	05/13/2025	12:50	LB135756
	Magnesium	2100	2000	105	80 - 120	P	05/13/2025	12:50	LB135756
	Manganese	20.6	20.0	103	80 - 120	P	05/13/2025	12:50	LB135756
	Nickel	39.5	40.0	99	80 - 120	P	05/13/2025	12:50	LB135756
	Potassium	1800	2000	90	80 - 120	P	05/13/2025	12:50	LB135756
	Selenium	23.2	20.0	116	80 - 120	P	05/13/2025	12:50	LB135756
	Silver	9.98	10.0	100	80 - 120	P	05/13/2025	12:50	LB135756
	Sodium	1690	2000	85	80 - 120	P	05/13/2025	12:50	LB135756
	Thallium	39.4	40.0	98	80 - 120	P	05/13/2025	12:50	LB135756
	Vanadium	38.9	40.0	97	80 - 120	P	05/13/2025	12:50	LB135756
	Zinc	41.9	40.0	105	80 - 120	P	05/13/2025	12:50	LB135756

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q1982
Contract: CAMP02 Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9820	10000	98	90 - 110	P	05/13/2025	13:21	LB135756
	Antimony	4880	5000	98	90 - 110	P	05/13/2025	13:21	LB135756
	Arsenic	4870	5000	97	90 - 110	P	05/13/2025	13:21	LB135756
	Barium	9590	10000	96	90 - 110	P	05/13/2025	13:21	LB135756
	Beryllium	253	250	101	90 - 110	P	05/13/2025	13:21	LB135756
	Cadmium	2440	2500	98	90 - 110	P	05/13/2025	13:21	LB135756
	Calcium	24400	25000	98	90 - 110	P	05/13/2025	13:21	LB135756
	Chromium	993	1000	99	90 - 110	P	05/13/2025	13:21	LB135756
	Cobalt	2430	2500	97	90 - 110	P	05/13/2025	13:21	LB135756
	Copper	1230	1250	99	90 - 110	P	05/13/2025	13:21	LB135756
	Iron	4830	5000	96	90 - 110	P	05/13/2025	13:21	LB135756
	Lead	4870	5000	97	90 - 110	P	05/13/2025	13:21	LB135756
	Magnesium	24400	25000	98	90 - 110	P	05/13/2025	13:21	LB135756
	Manganese	2430	2500	97	90 - 110	P	05/13/2025	13:21	LB135756
	Nickel	2440	2500	98	90 - 110	P	05/13/2025	13:21	LB135756
	Potassium	24000	25000	96	90 - 110	P	05/13/2025	13:21	LB135756
	Selenium	4880	5000	98	90 - 110	P	05/13/2025	13:21	LB135756
	Silver	1230	1250	99	90 - 110	P	05/13/2025	13:21	LB135756
	Sodium	24200	25000	97	90 - 110	P	05/13/2025	13:21	LB135756
	Thallium	4800	5000	96	90 - 110	P	05/13/2025	13:21	LB135756
	Vanadium	2420	2500	97	90 - 110	P	05/13/2025	13:21	LB135756
	Zinc	2480	2500	99	90 - 110	P	05/13/2025	13:21	LB135756
CCV02	Aluminum	9680	10000	97	90 - 110	P	05/13/2025	14:52	LB135756
	Antimony	4810	5000	96	90 - 110	P	05/13/2025	14:52	LB135756
	Arsenic	4790	5000	96	90 - 110	P	05/13/2025	14:52	LB135756
	Barium	9620	10000	96	90 - 110	P	05/13/2025	14:52	LB135756
	Beryllium	241	250	96	90 - 110	P	05/13/2025	14:52	LB135756
	Cadmium	2400	2500	96	90 - 110	P	05/13/2025	14:52	LB135756
	Calcium	24100	25000	96	90 - 110	P	05/13/2025	14:52	LB135756
	Chromium	969	1000	97	90 - 110	P	05/13/2025	14:52	LB135756
	Cobalt	2400	2500	96	90 - 110	P	05/13/2025	14:52	LB135756
	Copper	1210	1250	97	90 - 110	P	05/13/2025	14:52	LB135756
	Iron	4690	5000	94	90 - 110	P	05/13/2025	14:52	LB135756
	Lead	4800	5000	96	90 - 110	P	05/13/2025	14:52	LB135756

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q1982
Contract: CAMP02 Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	24000	25000	96	90 - 110	P	05/13/2025	14:52	LB135756
	Manganese	2410	2500	96	90 - 110	P	05/13/2025	14:52	LB135756
	Nickel	2400	2500	96	90 - 110	P	05/13/2025	14:52	LB135756
	Potassium	23500	25000	94	90 - 110	P	05/13/2025	14:52	LB135756
	Selenium	4800	5000	96	90 - 110	P	05/13/2025	14:52	LB135756
	Silver	1180	1250	95	90 - 110	P	05/13/2025	14:52	LB135756
	Sodium	23400	25000	94	90 - 110	P	05/13/2025	14:52	LB135756
	Thallium	5090	5000	102	90 - 110	P	05/13/2025	14:52	LB135756
	Vanadium	2410	2500	96	90 - 110	P	05/13/2025	14:52	LB135756
	Zinc	2390	2500	96	90 - 110	P	05/13/2025	14:52	LB135756
CCV03	Aluminum	9770	10000	98	90 - 110	P	05/13/2025	16:12	LB135756
	Antimony	5040	5000	101	90 - 110	P	05/13/2025	16:12	LB135756
	Arsenic	4950	5000	99	90 - 110	P	05/13/2025	16:12	LB135756
	Barium	9460	10000	95	90 - 110	P	05/13/2025	16:12	LB135756
	Beryllium	244	250	98	90 - 110	P	05/13/2025	16:12	LB135756
	Cadmium	2340	2500	94	90 - 110	P	05/13/2025	16:12	LB135756
	Calcium	23000	25000	92	90 - 110	P	05/13/2025	16:12	LB135756
	Chromium	956	1000	96	90 - 110	P	05/13/2025	16:12	LB135756
	Cobalt	2360	2500	95	90 - 110	P	05/13/2025	16:12	LB135756
	Copper	1240	1250	99	90 - 110	P	05/13/2025	16:12	LB135756
	Iron	4700	5000	94	90 - 110	P	05/13/2025	16:12	LB135756
	Lead	4730	5000	95	90 - 110	P	05/13/2025	16:12	LB135756
	Magnesium	22900	25000	92	90 - 110	P	05/13/2025	16:12	LB135756
	Manganese	2340	2500	94	90 - 110	P	05/13/2025	16:12	LB135756
	Nickel	2360	2500	95	90 - 110	P	05/13/2025	16:12	LB135756
	Potassium	24300	25000	97	90 - 110	P	05/13/2025	16:12	LB135756
	Selenium	5060	5000	101	90 - 110	P	05/13/2025	16:12	LB135756
	Silver	1230	1250	99	90 - 110	P	05/13/2025	16:12	LB135756
	Sodium	24400	25000	98	90 - 110	P	05/13/2025	16:12	LB135756
	Thallium	4950	5000	99	90 - 110	P	05/13/2025	16:12	LB135756
CCV04	Vanadium	2360	2500	94	90 - 110	P	05/13/2025	16:12	LB135756
	Zinc	2480	2500	99	90 - 110	P	05/13/2025	16:12	LB135756
	Aluminum	9670	10000	97	90 - 110	P	05/13/2025	17:40	LB135756
	Antimony	5020	5000	100	90 - 110	P	05/13/2025	17:40	LB135756

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q1982
Contract: CAMP02 Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	4930	5000	99	90 - 110	P	05/13/2025	17:40	LB135756
	Barium	9540	10000	95	90 - 110	P	05/13/2025	17:40	LB135756
	Beryllium	239	250	96	90 - 110	P	05/13/2025	17:40	LB135756
	Cadmium	2330	2500	93	90 - 110	P	05/13/2025	17:40	LB135756
	Calcium	23000	25000	92	90 - 110	P	05/13/2025	17:40	LB135756
	Chromium	961	1000	96	90 - 110	P	05/13/2025	17:40	LB135756
	Cobalt	2360	2500	94	90 - 110	P	05/13/2025	17:40	LB135756
	Copper	1230	1250	99	90 - 110	P	05/13/2025	17:40	LB135756
	Iron	4850	5000	97	90 - 110	P	05/13/2025	17:40	LB135756
	Lead	4720	5000	94	90 - 110	P	05/13/2025	17:40	LB135756
	Magnesium	22800	25000	91	90 - 110	P	05/13/2025	17:40	LB135756
	Manganese	2340	2500	94	90 - 110	P	05/13/2025	17:40	LB135756
	Nickel	2360	2500	94	90 - 110	P	05/13/2025	17:40	LB135756
	Potassium	24800	25000	99	90 - 110	P	05/13/2025	17:40	LB135756
	Selenium	5020	5000	100	90 - 110	P	05/13/2025	17:40	LB135756
	Silver	1240	1250	99	90 - 110	P	05/13/2025	17:40	LB135756
	Sodium	24900	25000	100	90 - 110	P	05/13/2025	17:40	LB135756
	Thallium	5000	5000	100	90 - 110	P	05/13/2025	17:40	LB135756
	Vanadium	2370	2500	95	90 - 110	P	05/13/2025	17:40	LB135756
	Zinc	2490	2500	100	90 - 110	P	05/13/2025	17:40	LB135756
CCV05	Aluminum	9750	10000	98	90 - 110	P	05/13/2025	18:35	LB135756
	Antimony	5070	5000	101	90 - 110	P	05/13/2025	18:35	LB135756
	Arsenic	4980	5000	100	90 - 110	P	05/13/2025	18:35	LB135756
	Barium	9460	10000	95	90 - 110	P	05/13/2025	18:35	LB135756
	Beryllium	245	250	98	90 - 110	P	05/13/2025	18:35	LB135756
	Cadmium	2340	2500	94	90 - 110	P	05/13/2025	18:35	LB135756
	Calcium	22900	25000	92	90 - 110	P	05/13/2025	18:35	LB135756
	Chromium	959	1000	96	90 - 110	P	05/13/2025	18:35	LB135756
	Cobalt	2370	2500	95	90 - 110	P	05/13/2025	18:35	LB135756
	Copper	1240	1250	100	90 - 110	P	05/13/2025	18:35	LB135756
	Iron	4690	5000	94	90 - 110	P	05/13/2025	18:35	LB135756
	Lead	4750	5000	95	90 - 110	P	05/13/2025	18:35	LB135756
	Magnesium	22900	25000	92	90 - 110	P	05/13/2025	18:35	LB135756
	Manganese	2320	2500	93	90 - 110	P	05/13/2025	18:35	LB135756

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q1982
 Contract: CAMP02 Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982
 Initial Calibration Source: EPA
 Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2370	2500	95	90 - 110	P	05/13/2025	18:35	LB135756
	Potassium	24000	25000	96	90 - 110	P	05/13/2025	18:35	LB135756
	Selenium	5090	5000	102	90 - 110	P	05/13/2025	18:35	LB135756
	Silver	1240	1250	99	90 - 110	P	05/13/2025	18:35	LB135756
	Sodium	24000	25000	96	90 - 110	P	05/13/2025	18:35	LB135756
	Thallium	5000	5000	100	90 - 110	P	05/13/2025	18:35	LB135756
	Vanadium	2360	2500	94	90 - 110	P	05/13/2025	18:35	LB135756
	Zinc	2480	2500	99	90 - 110	P	05/13/2025	18:35	LB135756
CCV06	Aluminum	9520	10000	95	90 - 110	P	05/13/2025	19:20	LB135756
	Antimony	4930	5000	99	90 - 110	P	05/13/2025	19:20	LB135756
	Arsenic	4850	5000	97	90 - 110	P	05/13/2025	19:20	LB135756
	Barium	9640	10000	96	90 - 110	P	05/13/2025	19:20	LB135756
	Beryllium	231	250	92	90 - 110	P	05/13/2025	19:20	LB135756
	Cadmium	2320	2500	93	90 - 110	P	05/13/2025	19:20	LB135756
	Calcium	23000	25000	92	90 - 110	P	05/13/2025	19:20	LB135756
	Chromium	955	1000	96	90 - 110	P	05/13/2025	19:20	LB135756
	Cobalt	2340	2500	94	90 - 110	P	05/13/2025	19:20	LB135756
	Copper	1220	1250	97	90 - 110	P	05/13/2025	19:20	LB135756
	Iron	4920	5000	98	90 - 110	P	05/13/2025	19:20	LB135756
	Lead	4690	5000	94	90 - 110	P	05/13/2025	19:20	LB135756
	Magnesium	22800	25000	91	90 - 110	P	05/13/2025	19:20	LB135756
	Manganese	2320	2500	93	90 - 110	P	05/13/2025	19:20	LB135756
	Nickel	2340	2500	93	90 - 110	P	05/13/2025	19:20	LB135756
	Potassium	24800	25000	99	90 - 110	P	05/13/2025	19:20	LB135756
	Selenium	4920	5000	98	90 - 110	P	05/13/2025	19:20	LB135756
	Silver	1220	1250	98	90 - 110	P	05/13/2025	19:20	LB135756
	Sodium	24500	25000	98	90 - 110	P	05/13/2025	19:20	LB135756
	Thallium	5010	5000	100	90 - 110	P	05/13/2025	19:20	LB135756
	Vanadium	2360	2500	95	90 - 110	P	05/13/2025	19:20	LB135756
	Zinc	2440	2500	97	90 - 110	P	05/13/2025	19:20	LB135756
CCV07	Aluminum	9610	10000	96	90 - 110	P	05/13/2025	20:06	LB135756
	Antimony	4910	5000	98	90 - 110	P	05/13/2025	20:06	LB135756
	Arsenic	4850	5000	97	90 - 110	P	05/13/2025	20:06	LB135756
	Barium	9250	10000	92	90 - 110	P	05/13/2025	20:06	LB135756

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q1982
 Contract: CAMP02 Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982
 Initial Calibration Source: EPA
 Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	247	250	99	90 - 110	P	05/13/2025	20:06	LB135756
	Cadmium	2320	2500	93	90 - 110	P	05/13/2025	20:06	LB135756
	Calcium	22900	25000	91	90 - 110	P	05/13/2025	20:06	LB135756
	Chromium	952	1000	95	90 - 110	P	05/13/2025	20:06	LB135756
	Cobalt	2340	2500	94	90 - 110	P	05/13/2025	20:06	LB135756
	Copper	1220	1250	97	90 - 110	P	05/13/2025	20:06	LB135756
	Iron	4590	5000	92	90 - 110	P	05/13/2025	20:06	LB135756
	Lead	4680	5000	94	90 - 110	P	05/13/2025	20:06	LB135756
	Magnesium	22900	25000	92	90 - 110	P	05/13/2025	20:06	LB135756
	Manganese	2310	2500	92	90 - 110	P	05/13/2025	20:06	LB135756
	Nickel	2340	2500	94	90 - 110	P	05/13/2025	20:06	LB135756
	Potassium	23300	25000	93	90 - 110	P	05/13/2025	20:06	LB135756
	Selenium	4920	5000	98	90 - 110	P	05/13/2025	20:06	LB135756
	Silver	1220	1250	98	90 - 110	P	05/13/2025	20:06	LB135756
	Sodium	23100	25000	92	90 - 110	P	05/13/2025	20:06	LB135756
	Thallium	5000	5000	100	90 - 110	P	05/13/2025	20:06	LB135756
	Vanadium	2340	2500	94	90 - 110	P	05/13/2025	20:06	LB135756
	Zinc	2440	2500	98	90 - 110	P	05/13/2025	20:06	LB135756
CCV08	Aluminum	9520	10000	95	90 - 110	P	05/13/2025	20:52	LB135756
	Antimony	4940	5000	99	90 - 110	P	05/13/2025	20:52	LB135756
	Arsenic	4910	5000	98	90 - 110	P	05/13/2025	20:52	LB135756
	Barium	9500	10000	95	90 - 110	P	05/13/2025	20:52	LB135756
	Beryllium	233	250	93	90 - 110	P	05/13/2025	20:52	LB135756
	Cadmium	2350	2500	94	90 - 110	P	05/13/2025	20:52	LB135756
	Calcium	22900	25000	92	90 - 110	P	05/13/2025	20:52	LB135756
	Chromium	954	1000	95	90 - 110	P	05/13/2025	20:52	LB135756
	Cobalt	2360	2500	94	90 - 110	P	05/13/2025	20:52	LB135756
	Copper	1220	1250	98	90 - 110	P	05/13/2025	20:52	LB135756
	Iron	4890	5000	98	90 - 110	P	05/13/2025	20:52	LB135756
	Lead	4720	5000	94	90 - 110	P	05/13/2025	20:52	LB135756
	Magnesium	22700	25000	91	90 - 110	P	05/13/2025	20:52	LB135756
	Manganese	2320	2500	93	90 - 110	P	05/13/2025	20:52	LB135756
	Nickel	2360	2500	94	90 - 110	P	05/13/2025	20:52	LB135756
	Potassium	24700	25000	99	90 - 110	P	05/13/2025	20:52	LB135756

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q1982

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q1982 **SAS No.:** Q1982

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Selenium	4990	5000	100	90 - 110	P	05/13/2025	20:52	LB135756
	Silver	1220	1250	97	90 - 110	P	05/13/2025	20:52	LB135756
	Sodium	24400	25000	98	90 - 110	P	05/13/2025	20:52	LB135756
	Thallium	4990	5000	100	90 - 110	P	05/13/2025	20:52	LB135756
	Vanadium	2350	2500	94	90 - 110	P	05/13/2025	20:52	LB135756
	Zinc	2440	2500	97	90 - 110	P	05/13/2025	20:52	LB135756
CCV09	Aluminum	9440	10000	94	90 - 110	P	05/13/2025	21:38	LB135756
	Antimony	4940	5000	99	90 - 110	P	05/13/2025	21:38	LB135756
	Arsenic	4940	5000	99	90 - 110	P	05/13/2025	21:38	LB135756
	Barium	9270	10000	93	90 - 110	P	05/13/2025	21:38	LB135756
	Beryllium	236	250	94	90 - 110	P	05/13/2025	21:38	LB135756
	Cadmium	2370	2500	95	90 - 110	P	05/13/2025	21:38	LB135756
	Calcium	22800	25000	91	90 - 110	P	05/13/2025	21:38	LB135756
	Chromium	958	1000	96	90 - 110	P	05/13/2025	21:38	LB135756
	Cobalt	2370	2500	95	90 - 110	P	05/13/2025	21:38	LB135756
	Copper	1220	1250	98	90 - 110	P	05/13/2025	21:38	LB135756
	Iron	4760	5000	95	90 - 110	P	05/13/2025	21:38	LB135756
	Lead	4760	5000	95	90 - 110	P	05/13/2025	21:38	LB135756
	Magnesium	22900	25000	92	90 - 110	P	05/13/2025	21:38	LB135756
	Manganese	2290	2500	92	90 - 110	P	05/13/2025	21:38	LB135756
	Nickel	2380	2500	95	90 - 110	P	05/13/2025	21:38	LB135756
	Potassium	23800	25000	95	90 - 110	P	05/13/2025	21:38	LB135756
	Selenium	5000	5000	100	90 - 110	P	05/13/2025	21:38	LB135756
	Silver	1210	1250	96	90 - 110	P	05/13/2025	21:38	LB135756
	Sodium	23600	25000	94	90 - 110	P	05/13/2025	21:38	LB135756
	Thallium	4930	5000	99	90 - 110	P	05/13/2025	21:38	LB135756
	Vanadium	2330	2500	93	90 - 110	P	05/13/2025	21:38	LB135756
	Zinc	2410	2500	96	90 - 110	P	05/13/2025	21:38	LB135756
CCV10	Aluminum	9430	10000	94	90 - 110	P	05/13/2025	22:25	LB135756
	Antimony	4860	5000	97	90 - 110	P	05/13/2025	22:25	LB135756
	Arsenic	4820	5000	96	90 - 110	P	05/13/2025	22:25	LB135756
	Barium	9220	10000	92	90 - 110	P	05/13/2025	22:25	LB135756
	Beryllium	237	250	95	90 - 110	P	05/13/2025	22:25	LB135756
	Cadmium	2320	2500	93	90 - 110	P	05/13/2025	22:25	LB135756

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith SDG No.: Q1982
Contract: CAMP02 Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Calcium	22500	25000	90	90 - 110	P	05/13/2025	22:25	LB135756
	Chromium	944	1000	94	90 - 110	P	05/13/2025	22:25	LB135756
	Cobalt	2340	2500	93	90 - 110	P	05/13/2025	22:25	LB135756
	Copper	1200	1250	96	90 - 110	P	05/13/2025	22:25	LB135756
	Iron	4650	5000	93	90 - 110	P	05/13/2025	22:25	LB135756
	Lead	4670	5000	94	90 - 110	P	05/13/2025	22:25	LB135756
	Magnesium	22600	25000	90	90 - 110	P	05/13/2025	22:25	LB135756
	Manganese	2270	2500	91	90 - 110	P	05/13/2025	22:25	LB135756
	Nickel	2330	2500	93	90 - 110	P	05/13/2025	22:25	LB135756
	Potassium	23400	25000	94	90 - 110	P	05/13/2025	22:25	LB135756
	Selenium	4870	5000	97	90 - 110	P	05/13/2025	22:25	LB135756
	Silver	1200	1250	96	90 - 110	P	05/13/2025	22:25	LB135756
	Sodium	23500	25000	94	90 - 110	P	05/13/2025	22:25	LB135756
	Thallium	4900	5000	98	90 - 110	P	05/13/2025	22:25	LB135756
	Vanadium	2320	2500	93	90 - 110	P	05/13/2025	22:25	LB135756
	Zinc	2390	2500	96	90 - 110	P	05/13/2025	22:25	LB135756

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CRDL STANDARD FOR AA & ICP

Client: CDM Smith **SDG No.:** Q1982
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q1982 **SAS No.:** Q1982
Initial Calibration Source: _____
Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.20	0.2	100	40 - 160	CV	05/12/2025	10:11	LB135733
CRI01	Aluminum	112	100	112	65 - 135	P	05/13/2025	13:00	LB135756
	Antimony	53.0	50.0	106	65 - 135	P	05/13/2025	13:00	LB135756
	Arsenic	22.6	20.0	113	65 - 135	P	05/13/2025	13:00	LB135756
	Barium	91.9	100	92	65 - 135	P	05/13/2025	13:00	LB135756
	Beryllium	6.28	6.0	105	65 - 135	P	05/13/2025	13:00	LB135756
	Cadmium	6.41	6.0	107	65 - 135	P	05/13/2025	13:00	LB135756
	Calcium	1990	2000	100	65 - 135	P	05/13/2025	13:00	LB135756
	Chromium	9.49	10.0	95	65 - 135	P	05/13/2025	13:00	LB135756
	Cobalt	29.7	30.0	99	65 - 135	P	05/13/2025	13:00	LB135756
	Copper	22.3	20.0	112	65 - 135	P	05/13/2025	13:00	LB135756
	Iron	96.7	100	97	65 - 135	P	05/13/2025	13:00	LB135756
	Lead	11.7	12.0	97	65 - 135	P	05/13/2025	13:00	LB135756
	Magnesium	2110	2000	106	65 - 135	P	05/13/2025	13:00	LB135756
	Manganese	20.2	20.0	101	65 - 135	P	05/13/2025	13:00	LB135756
	Nickel	40.2	40.0	100	65 - 135	P	05/13/2025	13:00	LB135756
	Potassium	1830	2000	91	65 - 135	P	05/13/2025	13:00	LB135756
	Selenium	24.0	20.0	120	65 - 135	P	05/13/2025	13:00	LB135756
	Silver	10.1	10.0	101	65 - 135	P	05/13/2025	13:00	LB135756
	Sodium	1700	2000	85	65 - 135	P	05/13/2025	13:00	LB135756
	Thallium	38.6	40.0	96	65 - 135	P	05/13/2025	13:00	LB135756
	Vanadium	38.1	40.0	95	65 - 135	P	05/13/2025	13:00	LB135756
	Zinc	42.6	40.0	107	65 - 135	P	05/13/2025	13:00	LB135756

Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q1982
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q1982 **SAS No.:** Q1982
ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	239000	255000	94	216000	294000	05/13/2025	13:04	LB135756
	Antimony	-2.63			-50	50	05/13/2025	13:04	LB135756
	Arsenic	2.65			-20	20	05/13/2025	13:04	LB135756
	Barium	4.53	6.0	76	-94	106	05/13/2025	13:04	LB135756
	Beryllium	1.18			-6	6	05/13/2025	13:04	LB135756
	Cadmium	-2.58	1.0	258	-5	7	05/13/2025	13:04	LB135756
	Calcium	224000	245000	91	208000	282000	05/13/2025	13:04	LB135756
	Chromium	53.8	52.0	104	42	62	05/13/2025	13:04	LB135756
	Cobalt	1.07			-30	30	05/13/2025	13:04	LB135756
	Copper	-0.62	2.0	31	-18	22	05/13/2025	13:04	LB135756
	Iron	89000	101000	88	85600	116500	05/13/2025	13:04	LB135756
	Lead	-1.23			-12	12	05/13/2025	13:04	LB135756
	Magnesium	242000	255000	95	216000	294000	05/13/2025	13:04	LB135756
	Manganese	3.97	7.0	57	-13	27	05/13/2025	13:04	LB135756
	Nickel	2.16	2.0	108	-38	42	05/13/2025	13:04	LB135756
	Potassium	-28.4			0	0	05/13/2025	13:04	LB135756
	Selenium	-7.51			-20	20	05/13/2025	13:04	LB135756
	Silver	0.22			-10	10	05/13/2025	13:04	LB135756
	Sodium	-36.6			0	0	05/13/2025	13:04	LB135756
	Thallium	8.65			-40	40	05/13/2025	13:04	LB135756
	Vanadium	-0.39			-40	40	05/13/2025	13:04	LB135756
	Zinc	3.75			-40	40	05/13/2025	13:04	LB135756
ICSAB01	Aluminum	237000	247000	96	209000	285000	05/13/2025	13:08	LB135756
	Antimony	599	618	97	525	711	05/13/2025	13:08	LB135756
	Arsenic	106	104	102	88.4	120	05/13/2025	13:08	LB135756
	Barium	447	537	83	437	637	05/13/2025	13:08	LB135756
	Beryllium	486	495	98	420	570	05/13/2025	13:08	LB135756
	Cadmium	952	972	98	826	1120	05/13/2025	13:08	LB135756
	Calcium	222000	235000	94	199000	271000	05/13/2025	13:08	LB135756
	Chromium	527	542	97	460	624	05/13/2025	13:08	LB135756
	Cobalt	469	476	98	404	548	05/13/2025	13:08	LB135756
	Copper	467	511	91	434	588	05/13/2025	13:08	LB135756
	Iron	90600	99300	91	84400	114500	05/13/2025	13:08	LB135756
	Lead	43.6	49.0	89	37	61	05/13/2025	13:08	LB135756
	Magnesium	239000	248000	96	210000	286000	05/13/2025	13:08	LB135756
	Manganese	455	507	90	430	584	05/13/2025	13:08	LB135756
	Nickel	932	954	98	810	1100	05/13/2025	13:08	LB135756
	Potassium	-41.5			0	0	05/13/2025	13:08	LB135756
	Selenium	37.1	46.0	81	26	66	05/13/2025	13:08	LB135756
	Silver	203	201	101	170	232	05/13/2025	13:08	LB135756
	Sodium	-168			0	0	05/13/2025	13:08	LB135756
	Thallium	92.7	108	86	68	148	05/13/2025	13:08	LB135756

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: <u>CDM Smith</u>	SDG No.: <u>Q1982</u>
Contract: <u>CAMP02</u>	Lab Code: <u>CHEM</u>
ICS Source: <u>EPA</u>	Case No.: <u>Q1982</u>
	SAS No.: <u>Q1982</u>
	Instrument ID: <u>P4</u>

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Vanadium	444	491	90	417	565	05/13/2025	13:08	LB135756
	Zinc	978	952	103	809	1095	05/13/2025	13:08	LB135756



METAL QC DATA

metals
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MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q1982
contract: CAMP02 **lab code:** CHEM **case no.:** Q1982 **sas no.:** Q1982
matrix: Solid **sample id:** Q1982-03 **client id:** TP-3MS
Percent Solids for Sample: 90.7 **Spiked ID:** Q1982-03MS **Percent Solids for Spike Sample:** 90.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	7410		6860		99.8	546		P
Antimony	mg/Kg	75 - 125	10.5		2.61	U	39.9	26	N	P
Arsenic	mg/Kg	75 - 125	26.8		0.98	J	39.9	65	N	P
Barium	mg/Kg	75 - 125	43.1		32.2		10.0	109		P
Beryllium	mg/Kg	75 - 125	6.73		0.54		10.0	62	N	P
Cadmium	mg/Kg	75 - 125	9.18		0.073	J	10.0	91		P
Calcium	mg/Kg	75 - 125	158		127		49.9	61	N	P
Chromium	mg/Kg	75 - 125	17.3		4.97		20.0	62	N	P
Cobalt	mg/Kg	75 - 125	12.1		2.79		10.0	93		P
Copper	mg/Kg	75 - 125	11.6		2.12		15.0	63	N	P
Iron	mg/Kg	75 - 125	9840		9220		150	410		P
Lead	mg/Kg	75 - 125	47.7		3.44		49.9	89		P
Magnesium	mg/Kg	75 - 125	266		180		99.8	86		P
Manganese	mg/Kg	75 - 125	22.8		15.0		10.0	77		P
Nickel	mg/Kg	75 - 125	26.4		3.55		24.9	92		P
Potassium	mg/Kg	75 - 125	469		121		500	70	N	P
Selenium	mg/Kg	75 - 125	61.4		1.05	U	99.8	62	N	P
Silver	mg/Kg	75 - 125	2.63		0.52	U	3.7	71	N	P
Sodium	mg/Kg	75 - 125	192		85.7	J	150	71	N	P
Thallium	mg/Kg	75 - 125	91.0		2.09	U	99.8	91		P
Vanadium	mg/Kg	75 - 125	21.0		10.8		15.0	68	N	P
Zinc	mg/Kg	75 - 125	15.8		9.47		10.0	64	N	P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q1982
contract: CAMP02 **lab code:** CHEM **case no.:** Q1982 **sas no.:** Q1982
matrix: Solid **sample id:** Q1982-03 **client id:** TP-3MSD
Percent Solids for Sample: 90.7 **Spiked ID:** Q1982-03MSD **Percent Solids for Spike Sample:** 90.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	7580		6860		100	716		P
Antimony	mg/Kg	75 - 125	11.2		2.61	U	40.5	28	N	P
Arsenic	mg/Kg	75 - 125	28.1		0.98	J	40.5	67	N	P
Barium	mg/Kg	75 - 125	41.1		32.2		10.1	88		P
Beryllium	mg/Kg	75 - 125	7.40		0.54		10.1	68	N	P
Cadmium	mg/Kg	75 - 125	9.34		0.073	J	10.1	92		P
Calcium	mg/Kg	75 - 125	164		127		50.6	74	N	P
Chromium	mg/Kg	75 - 125	18.0		4.97		20.2	64	N	P
Cobalt	mg/Kg	75 - 125	12.5		2.79		10.1	96		P
Copper	mg/Kg	75 - 125	12.4		2.12		15.2	67	N	P
Iron	mg/Kg	75 - 125	9490		9220		150	178		P
Lead	mg/Kg	75 - 125	48.2		3.44		50.6	88		P
Magnesium	mg/Kg	75 - 125	248		180		100	68	N	P
Manganese	mg/Kg	75 - 125	23.4		15.0		10.1	83		P
Nickel	mg/Kg	75 - 125	26.7		3.55		25.3	91		P
Potassium	mg/Kg	75 - 125	430		121		510	61	N	P
Selenium	mg/Kg	75 - 125	64.0		1.05	U	100	64	N	P
Silver	mg/Kg	75 - 125	2.58		0.52	U	3.8	68	N	P
Sodium	mg/Kg	75 - 125	184		85.7	J	150	66	N	P
Thallium	mg/Kg	75 - 125	94.1		2.09	U	100	94		P
Vanadium	mg/Kg	75 - 125	22.1		10.8		15.2	75		P
Zinc	mg/Kg	75 - 125	16.4		9.47		10.1	68	N	P

metals
- 5a -
MATRIX SPIKE SUMMARY

client: <u>CDM Smith</u>	level: <u>low</u>	sdg no.: <u>Q1982</u>
contract: <u>CAMP02</u>	lab code: <u>CHEM</u>	case no.: <u>Q1982</u> sas no.: <u>Q1982</u>
matrix: <u>Solid</u>	sample id: <u>Q1983-01</u>	client id: <u>OR-636-COMP-01MS</u>
Percent Solids for Sample: 88.8	Spiked ID: Q1983-01MS	Percent Solids for Spike Sample: 88.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.27		0.026		0.29	84		CV

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith	level: low	sdg no.: Q1982
contract: CAMP02	lab code: CHEM	case no.: Q1982 sas no.: Q1982
matrix: Solid	sample id: Q1983-01	client id: OR-636-COMP-01MSD
Percent Solids for Sample: 88.8	Spiked ID: Q1983-01MSD	Percent Solids for Spike Sample: 88.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.25		0.026		0.27	83		CV

Metals
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POST DIGEST SPIKE SUMMARY

Client: CDM Smith	SDG No.: Q1982	
Contract: CAMP02	Lab Code: CHEM	Case No.: Q1982 SAS No.: Q1982
Matrix: Solid	Level: LOW	Client ID: TP-3A
Sample ID: Q1982-03	Spiked ID: Q1982-03A	

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	28.4		2.61	U	41.8	68	N	P
Arsenic	mg/Kg	75 - 125	28.6		0.98	J	41.8	66	N	P
Beryllium	mg/Kg	75 - 125	7.38		0.54		10.5	65	N	P
Calcium	mg/Kg	75 - 125	161		127		52.3	65	N	P
Chromium	mg/Kg	75 - 125	18.5		4.97		20.9	65	N	P
Copper	mg/Kg	75 - 125	12.1		2.12		15.7	64	N	P
Magnesium	mg/Kg	75 - 125	253		180		100	73	N	P
Potassium	mg/Kg	75 - 125	472		121		520	68	N	P
Selenium	mg/Kg	75 - 125	66.0		1.05	U	100	66	N	P
Silver	mg/Kg	75 - 125	2.72		0.52	U	3.90	70	N	P
Sodium	mg/Kg	75 - 125	194		85.7	J	160	67	N	P
Vanadium	mg/Kg	75 - 125	21.4		10.8		15.7	68	N	P
Zinc	mg/Kg	75 - 125	16.4		9.47		10.5	66	N	P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q1982
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q1982 **SAS No.:** Q1982
Matrix: Solid **Sample ID:** Q1982-03 **Client ID:** TP-3DUP
Percent Solids for Sample: 90.7 **Duplicate ID** Q1982-03DUP **Percent Solids for Spike Sample:** 90.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	6860		7020		2		P
Antimony	mg/Kg	20	2.61	U	2.41	U			P
Arsenic	mg/Kg	20	0.98	J	1.13		14		P
Barium	mg/Kg	20	32.2		36.2		12		P
Beryllium	mg/Kg	20	0.54		0.52		4		P
Cadmium	mg/Kg	20	0.073	J	0.093	J	24		P
Calcium	mg/Kg	20	127		126		1		P
Chromium	mg/Kg	20	4.97		4.55		9		P
Cobalt	mg/Kg	20	2.79		2.81		1		P
Copper	mg/Kg	20	2.12		1.92		10		P
Iron	mg/Kg	20	9220		9330		1		P
Lead	mg/Kg	20	3.44		3.65		6		P
Magnesium	mg/Kg	20	180		191		6		P
Manganese	mg/Kg	20	15.0		16.3		8		P
Nickel	mg/Kg	20	3.55		3.74		5		P
Potassium	mg/Kg	20	121		136		12		P
Selenium	mg/Kg	20	1.05	U	0.96	U			P
Silver	mg/Kg	20	0.52	U	0.48	U			P
Sodium	mg/Kg	20	85.7	J	95.5	J	11		P
Thallium	mg/Kg	20	2.09	U	1.93	U			P
Vanadium	mg/Kg	20	10.8		11.3		5		P
Zinc	mg/Kg	20	9.47		9.37		1		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q1982
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q1982 **SAS No.:** Q1982
Matrix: Solid **Sample ID:** Q1982-03MS **Client ID:** TP-3MSD
Percent Solids for Sample: 90.7 **Duplicate ID** Q1982-03MSD **Percent Solids for Spike Sample:** 90.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	7410		7580		2		P
Antimony	mg/Kg	20	10.5		11.2		6		P
Arsenic	mg/Kg	20	26.8		28.1		5		P
Barium	mg/Kg	20	43.1		41.1		5		P
Beryllium	mg/Kg	20	6.73		7.40		9		P
Cadmium	mg/Kg	20	9.18		9.34		2		P
Calcium	mg/Kg	20	158		164		4		P
Chromium	mg/Kg	20	17.3		18.0		4		P
Cobalt	mg/Kg	20	12.1		12.5		3		P
Copper	mg/Kg	20	11.6		12.4		7		P
Iron	mg/Kg	20	9840		9490		4		P
Lead	mg/Kg	20	47.7		48.2		1		P
Magnesium	mg/Kg	20	266		248		7		P
Manganese	mg/Kg	20	22.8		23.4		3		P
Nickel	mg/Kg	20	26.4		26.7		1		P
Potassium	mg/Kg	20	469		430		9		P
Selenium	mg/Kg	20	61.4		64.0		4		P
Silver	mg/Kg	20	2.63		2.58		2		P
Sodium	mg/Kg	20	192		184		4		P
Thallium	mg/Kg	20	91.0		94.1		3		P
Vanadium	mg/Kg	20	21.0		22.1		5		P
Zinc	mg/Kg	20	15.8		16.4		4		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>CDM Smith</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q1982</u>
Contract:	<u>CAMP02</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>Q1982</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q1983-01</u>	Client ID:	<u>OR-636-COMP-01DUP</u>
Percent Solids for Sample:	88.8	Duplicate ID	Q1983-01DUP	Percent Solids for Spike Sample:	88.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.026		0.030		14		CV

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>CDM Smith</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q1982</u>
Contract:	<u>CAMP02</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>Q1982</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q1983-01MS</u>	Client ID:	<u>OR-636-COMP-01MSD</u>
Percent Solids for Sample:	88.8	Duplicate ID	Q1983-01MSD	Percent Solids for Spike Sample:	88.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.27		0.25		8		CV

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q1982
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q1982 **SAS No.:** Q1982

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167930BS							
Aluminum	mg/Kg	93.5	85.9		92	80 - 120	P
Antimony	mg/Kg	37.4	36.7		98	80 - 120	P
Arsenic	mg/Kg	37.4	35.6		95	80 - 120	P
Barium	mg/Kg	9.3	8.32		90	80 - 120	P
Beryllium	mg/Kg	9.3	8.73		94	80 - 120	P
Cadmium	mg/Kg	9.3	8.94		96	80 - 120	P
Calcium	mg/Kg	46.7	44.2	J	95	80 - 120	P
Chromium	mg/Kg	18.7	18.0		96	80 - 120	P
Cobalt	mg/Kg	9.3	8.68		93	80 - 120	P
Copper	mg/Kg	14.0	13.7		98	80 - 120	P
Iron	mg/Kg	140	133		95	80 - 120	P
Lead	mg/Kg	46.7	43.8		94	80 - 120	P
Magnesium	mg/Kg	93.5	85.3	J	91	80 - 120	P
Manganese	mg/Kg	9.3	8.76		94	80 - 120	P
Nickel	mg/Kg	23.4	21.9		94	80 - 120	P
Potassium	mg/Kg	470	434		92	80 - 120	P
Selenium	mg/Kg	93.5	89.6		96	80 - 120	P
Silver	mg/Kg	3.5	3.31		95	80 - 120	P
Sodium	mg/Kg	140	137		98	80 - 120	P
Thallium	mg/Kg	93.5	94.0		100	80 - 120	P
Vanadium	mg/Kg	14.0	12.8		91	80 - 120	P
Zinc	mg/Kg	9.3	9.06		97	80 - 120	P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q1982
Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q1982 **SAS No.:** Q1982

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167937BS Mercury	mg/Kg	0.26	0.26		99	80 - 120	CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

TP-3L

Lab Name: Chemtech Consulting Group

Contract: CAMP02

Lab Code: CHEM Lb No.: lb135756 Lab Sample ID : Q1982-03L SDG No.: Q1982

Matrix (soil/water): Solid Level (low/med): LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ-ence	Q	M
Aluminum	6860		8410		22		P
Antimony	2.61	U	13.1	U			P
Arsenic	0.98	J	1.17	J	20		P
Barium	32.2		38.7		20		P
Beryllium	0.54		0.63	J	18		P
Cadmium	0.073	J	1.57	U	100.0		P
Calcium	127		165	J	30		P
Chromium	4.97		6.10		23		P
Cobalt	2.79		2.69	J	4		P
Copper	2.12		2.49	J	17		P
Iron	9220		11600		25		P
Lead	3.44		3.66		6		P
Magnesium	180		221	J	23		P
Manganese	15.0		18.4		23		P
Nickel	3.55		3.51	J	1		P
Potassium	121		152	J	26		P
Selenium	1.05	U	5.23	U			P
Silver	0.52	U	2.61	U			P
Sodium	85.7	J	523	U	100.0		P
Thallium	2.09	U	10.4	U			P
Vanadium	10.8		13.0		21		P
Zinc	9.47		11.8		25		P

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

OR-636-COMP-01L

Lab Name: Chemtech Consulting Group **Contract:** CAMP02
Lab Code: CHEM **Lb No.:** lb135733 **Lab Sample ID :** Q1983-01L **SDG No.:** Q1982
Matrix (soil/water): Solid **Level (low/med):** LOW
Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- ence	Q	M
Mercury	0.026	0.070 U	100.0		CV

metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q1982 **Sas no.:** Q1982 **Sdg no.:** Q1982

Instrument id number: **Method:** **Run number:** LB135733

Start date: 05/12/2025 **End date:** 05/12/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0936	HG
S0.2	S0.2	1	0938	HG
S2.5	S2.5	1	0940	HG
S5	S5	1	0945	HG
S7.5	S7.5	1	0947	HG
S10	S10	1	0953	HG
ICV05	ICV05	1	0956	HG
ICB05	ICB05	1	0958	HG
CCV07	CCV07	1	1006	HG
CCB07	CCB07	1	1008	HG
CRA	CRA	1	1011	HG
PB167937BL	PB167937BL	1	1018	HG
PB167937BS	PB167937BS	1	1022	HG
Q1982-01	TP-1	1	1025	HG
Q1982-02	TP-2B	1	1027	HG
Q1982-03	TP-3	1	1029	HG
Q1982-04	TP-4	1	1032	HG
Q1982-05	TP-5	1	1034	HG
CCV08	CCV08	1	1036	HG
CCB08	CCB08	1	1039	HG
Q1982-06	TP-6	1	1041	HG
Q1982-07	TP-8	1	1043	HG
Q1982-08	TP-9	1	1045	HG
Q1983-01DUP	OR-636-COMP-01DUP	1	1050	HG
Q1983-01MS	OR-636-COMP-01MS	1	1052	HG
Q1983-01MSD	OR-636-COMP-01MSD	1	1055	HG
CCV09	CCV09	1	1109	HG
CCB09	CCB09	1	1111	HG
CCV10	CCV10	1	1136	HG
CCB10	CCB10	1	1139	HG
CCV11	CCV11	1	1242	HG
CCB11	CCB11	1	1253	HG
Q1983-01L	OR-636-COMP-01L	5	1308	HG
CCV12	CCV12	1	1317	HG
CCB12	CCB12	1	1327	HG

metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q1982 **Sas no.:** Q1982 **Sdg no.:** Q1982

Instrument id number: **Method:** **Run number:** LB135756

Start date: 05/13/2025 **End date:** 05/13/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1207	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1211	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1216	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1220	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1224	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1228	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1233	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1250	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1255	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1300	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1304	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1308	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1321	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1326	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB167930BL	PB167930BL	1	1435	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1452	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1456	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB167930BS	PB167930BS	1	1500	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1612	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1647	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1740	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1746	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1835	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1839	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1920	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1925	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	2006	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	2010	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1982-01	TP-1	1	2031	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1982-02	TP-2B	1	2035	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1982-03	TP-3	1	2039	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1982-03DUP	TP-3DUP	1	2043	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1982-03L	TP-3L	5	2048	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	2052	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	2056	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1982-03MS	TP-3MS	1	2100	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1982-03MSD	TP-3MSD	1	2104	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1982-03A	TP-3A	1	2108	Ag,As,Be,Ca,Cr,Cu,K,Mg,Na,Sb,Se,V,Zn
Q1982-04	TP-4	1	2112	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1982-05	TP-5	1	2117	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1982-06	TP-6	1	2121	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q1982 **Sas no.:** Q1982 **Sdg no.:** Q1982

Instrument id number: **Method:** **Run number:** LB135756

Start date: 05/13/2025 **End date:** 05/13/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
Q1982-07	TP-8	1	2125	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1982-08	TP-9	1	2129	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV09	CCV09	1	2138	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB09	CCB09	1	2142	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV10	CCV10	1	2225	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB10	CCB10	1	2229	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q1982

Contract: CAMP02

Lab Code: CHEM

Case No.: Q1982

SAS No.: Q1982

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q1982

Contract: CAMP02

Lab Code: CHEM

Case No.: Q1982

SAS No.: Q1982

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith SDG No.: Q1982
Contract: CAMP02 Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982
Instrument ID: _____ Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q1982

Contract: CAMP02

Lab Code: CHEM

Case No.: Q1982

SAS No.: Q1982

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMEN CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q1982

Contract: CAMP02

Lab Code: CHEM

Case No.: Q1982

SAS No.: Q1982

Instrument ID:

Date:

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		Sn	Ti	Tl	V	Zn
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

LAB CHRONICLE

OrderID:	Q1982	OrderDate:	5/7/2025 3:20:42 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1982-01	TP-1	SOIL			05/06/25			05/07/25
			Metals ICP-TAL	6010D		05/09/25	05/13/25	
			Mercury	7471B		05/09/25	05/12/25	
Q1982-02	TP-2B	SOIL			05/06/25			05/07/25
			Metals ICP-TAL	6010D		05/09/25	05/13/25	
			Mercury	7471B		05/09/25	05/12/25	
Q1982-03	TP-3	SOIL			05/06/25			05/07/25
			Metals ICP-TAL	6010D		05/09/25	05/13/25	
			Mercury	7471B		05/09/25	05/12/25	
Q1982-04	TP-4	SOIL			05/07/25			05/07/25
			Mercury	7471B		05/09/25	05/12/25	
			Metals ICP-TAL	6010D		05/09/25	05/13/25	
Q1982-05	TP-5	SOIL			05/07/25			05/07/25
			Mercury	7471B		05/09/25	05/12/25	
			Metals ICP-TAL	6010D		05/09/25	05/13/25	
Q1982-06	TP-6	SOIL			05/07/25			05/07/25
			Mercury	7471B		05/09/25	05/12/25	
			Metals ICP-TAL	6010D		05/09/25	05/13/25	
Q1982-07	TP-8	SOIL			05/07/25			05/07/25
			Mercury	7471B		05/09/25	05/12/25	
			Metals ICP-TAL	6010D		05/09/25	05/13/25	
Q1982-08	TP-9	SOIL			05/07/25			05/07/25
			Mercury	7471B		05/09/25	05/12/25	
			Metals ICP-TAL	6010D		05/09/25	05/13/25	



METAL PREPARATION & ANALYICAL SUMMARY

Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client:	<u>CDM Smith</u>	SDG No.:	<u>Q1982</u>
Contract:	<u>CAMP02</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>Q1982</u>
		SAS No.:	<u>Q1982</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB167930							
PB167930BL	PB167930BL	MB	SOLID	05/09/2025	2.06	100.0	100.00
PB167930BS	PB167930BS	LCS	SOLID	05/09/2025	2.14	100.0	100.00
Q1982-01	TP-1	SAM	SOLID	05/09/2025	2.13	100.0	80.90
Q1982-02	TP-2B	SAM	SOLID	05/09/2025	2.19	100.0	85.00
Q1982-03	TP-3	SAM	SOLID	05/09/2025	2.11	100.0	90.70
Q1982-03DUP	TP-3DUP	DUP	SOLID	05/09/2025	2.29	100.0	90.70
Q1982-03MS	TP-3MS	MS	SOLID	05/09/2025	2.21	100.0	90.70
Q1982-03MSD	TP-3MSD	MSD	SOLID	05/09/2025	2.18	100.0	90.70
Q1982-04	TP-4	SAM	SOLID	05/09/2025	2.23	100.0	87.40
Q1982-05	TP-5	SAM	SOLID	05/09/2025	2.22	100.0	89.90
Q1982-06	TP-6	SAM	SOLID	05/09/2025	2.18	100.0	86.20
Q1982-07	TP-8	SAM	SOLID	05/09/2025	2.33	100.0	83.70
Q1982-08	TP-9	SAM	SOLID	05/09/2025	2.13	100.0	81.30

Metals

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SAMPLE PREPARATION SUMMARY

Client:	<u>CDM Smith</u>	SDG No.:	<u>Q1982</u>
Contract:	<u>CAMP02</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>Q1982</u>
		SAS No.:	<u>Q1982</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB167937							
PB167937BL	PB167937BL	MB	SOLID	05/09/2025	0.55	35.0	100.00
PB167937BS	PB167937BS	LCS	SOLID	05/09/2025	0.53	35.0	100.00
Q1982-01	TP-1	SAM	SOLID	05/09/2025	0.51	35.0	80.90
Q1982-02	TP-2B	SAM	SOLID	05/09/2025	0.53	35.0	85.00
Q1982-03	TP-3	SAM	SOLID	05/09/2025	0.54	35.0	90.70
Q1982-04	TP-4	SAM	SOLID	05/09/2025	0.58	35.0	87.40
Q1982-05	TP-5	SAM	SOLID	05/09/2025	0.58	35.0	89.90
Q1982-06	TP-6	SAM	SOLID	05/09/2025	0.58	35.0	86.20
Q1982-07	TP-8	SAM	SOLID	05/09/2025	0.55	35.0	83.70
Q1982-08	TP-9	SAM	SOLID	05/09/2025	0.57	35.0	81.30
Q1983-01DUP	OR-636-COMP-01DUP	DUP	SOLID	05/09/2025	0.57	35.0	88.80
Q1983-01MS	OR-636-COMP-01MS	MS	SOLID	05/09/2025	0.55	35.0	88.80
Q1983-01MSD	OR-636-COMP-01MSD	MSD	SOLID	05/09/2025	0.58	35.0	88.80

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135733

Review By	MOHAN	Review On	5/13/2025 11:37:48 AM
Supervise By	jaswal	Supervise On	5/13/2025 11:15:56 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85626,MP85627,MP85628,MP85629,MP85630,MP85631		
ICV Standard	MP85632		
CCV Standard	MP85634		
ICSA Standard			
CRI Standard	MP85636		
LCS Standard			
Chk Standard	MP85633,MP85634,MP837,MP85646		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	05/12/25 09:36		MOHAN	OK
2	S0.2	S0.2	CAL2	05/12/25 09:38		MOHAN	OK
3	S2.5	S2.5	CAL3	05/12/25 09:40		MOHAN	OK
4	S5	S5	CAL4	05/12/25 09:45		MOHAN	OK
5	S7.5	S7.5	CAL5	05/12/25 09:47		MOHAN	OK
6	S10	S10	CAL6	05/12/25 09:53		MOHAN	OK
7	ICV05	ICV05	ICV	05/12/25 09:56		MOHAN	OK
8	ICB05	ICB05	ICB	05/12/25 09:58		MOHAN	OK
9	CCV07	CCV07	CCV	05/12/25 10:06		MOHAN	OK
10	CCB07	CCB07	CCB	05/12/25 10:08		MOHAN	OK
11	CRA	CRA	CRDL	05/12/25 10:11		MOHAN	OK
12	HighStd	HighStd	HIGH STD	05/12/25 10:13		MOHAN	OK
13	ChkStd	ChkStd	SAM	05/12/25 10:15		MOHAN	OK
14	PB167937BL	PB167937BL	MB	05/12/25 10:18		MOHAN	OK
15	PB167937BS	PB167937BS	LCS	05/12/25 10:22		MOHAN	OK
16	Q1982-01	TP-1	SAM	05/12/25 10:25		MOHAN	OK
17	Q1982-02	TP-2B	SAM	05/12/25 10:27		MOHAN	OK
18	Q1982-03	TP-3	SAM	05/12/25 10:29		MOHAN	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135733

Review By	MOHAN	Review On	5/13/2025 11:37:48 AM
Supervise By	jaswal	Supervise On	5/13/2025 11:15:56 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85626,MP85627,MP85628,MP85629,MP85630,MP85631		
ICV Standard	MP85632		
CCV Standard	MP85634		
ICSA Standard			
CRI Standard	MP85636		
LCS Standard			
Chk Standard	MP85633,MP85634,MP837,MP85646		

19	Q1982-04	TP-4	SAM	05/12/25 10:32		MOHAN	OK
20	Q1982-05	TP-5	SAM	05/12/25 10:34		MOHAN	OK
21	CCV08	CCV08	CCV	05/12/25 10:36		MOHAN	OK
22	CCB08	CCB08	CCB	05/12/25 10:39		MOHAN	OK
23	Q1982-06	TP-6	SAM	05/12/25 10:41		MOHAN	OK
24	Q1982-07	TP-8	SAM	05/12/25 10:43		MOHAN	OK
25	Q1982-08	TP-9	SAM	05/12/25 10:45		MOHAN	OK
26	Q1983-01	OR-636-COMP-01	SAM	05/12/25 10:48		MOHAN	OK
27	Q1983-01DUP	OR-636-COMP-01DUP	DUP	05/12/25 10:50		MOHAN	OK
28	Q1983-01MS	OR-636-COMP-01MS	MS	05/12/25 10:52		MOHAN	OK
29	Q1983-01MSD	OR-636-COMP-01MSD	MSD	05/12/25 10:55		MOHAN	OK
30	Q1983-07	OR-636-COMP-02	SAM	05/12/25 10:57		MOHAN	OK
31	Q1983-13	OR-636-COMP-03	SAM	05/12/25 10:59		MOHAN	OK
32	Q1983-19	OR-636-COMP-04	SAM	05/12/25 11:01		MOHAN	OK
33	CCV09	CCV09	CCV	05/12/25 11:09		MOHAN	OK
34	CCB09	CCB09	CCB	05/12/25 11:11		MOHAN	OK
35	Q1983-25	OR-636-COMP-05	SAM	05/12/25 11:14		MOHAN	OK
36	Q1983-31	OR-636-COMP-06	SAM	05/12/25 11:16		MOHAN	OK
37	Q1983-37	OR-636-COMP-07	SAM	05/12/25 11:18		MOHAN	OK
38	Q1983-43	OR-636-COMP-08	SAM	05/12/25 11:20		MOHAN	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135733

Review By	MOHAN	Review On	5/13/2025 11:37:48 AM
Supervise By	jaswal	Supervise On	5/13/2025 11:15:56 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85626,MP85627,MP85628,MP85629,MP85630,MP85631		
ICV Standard	MP85632		
CCV Standard	MP85634		
ICSA Standard			
CRI Standard	MP85636		
LCS Standard			
Chk Standard	MP85633,MP85634,MP837,MP85646		

39	Q1983-49	OR-636-COMP-09	SAM	05/12/25 11:23		MOHAN	OK
40	PB167938BL	PB167938BL	MB	05/12/25 11:25		MOHAN	OK
41	PB167938BS	PB167938BS	LCS	05/12/25 11:27		MOHAN	OK
42	Q1984-01	OU4-PCS-TC-33-050	SAM	05/12/25 11:30		MOHAN	OK
43	Q1984-03	OU4-PCS-TC-34-050	SAM	05/12/25 11:32		MOHAN	OK
44	Q1984-05	OU4-PCS-TC-35-050	SAM	05/12/25 11:34		MOHAN	OK
45	CCV10	CCV10	CCV	05/12/25 11:36		MOHAN	OK
46	CCB10	CCB10	CCB	05/12/25 11:39		MOHAN	OK
47	Q1984-07	OU4-TS-24-050725	SAM	05/12/25 11:41		MOHAN	OK
48	Q1984-09	OU4-TS-25-050725	SAM	05/12/25 11:43		MOHAN	OK
49	Q1984-11	OU4-TS-26-050725	SAM	05/12/25 11:46		MOHAN	OK
50	Q1984-13	OU4-TS-27-050725	SAM	05/12/25 11:48		MOHAN	OK
51	Q1984-15	OU4-TS-28-050725	SAM	05/12/25 11:50		MOHAN	OK
52	Q1986-01	COMP-8	SAM	05/12/25 11:56		MOHAN	OK
53	Q1986-03	COMP-9	SAM	05/12/25 12:00		MOHAN	OK
54	Q1986-05	COMP-10	SAM	05/12/25 12:02		MOHAN	OK
55	Q1986-07	COMP-11	SAM	05/12/25 12:05		MOHAN	OK
56	Q1986-09	VNJ-218	SAM	05/12/25 12:07		MOHAN	OK
57	CCV11	CCV11	CCV	05/12/25 12:42		MOHAN	OK
58	CCB11	CCB11	CCB	05/12/25 12:53		MOHAN	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135733

Review By	MOHAN	Review On	5/13/2025 11:37:48 AM
Supervise By	jaswal	Supervise On	5/13/2025 11:15:56 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85626,MP85627,MP85628,MP85629,MP85630,MP85631		
ICV Standard	MP85632		
CCV Standard	MP85634		
ICSA Standard			
CRI Standard	MP85636		
LCS Standard			
Chk Standard	MP85633,MP85634,MP837,MP85646		

59	Q1986-09DUP	VNJ-218DUP	DUP	05/12/25 12:58		MOHAN	OK
60	Q1986-09MS	VNJ-218MS	MS	05/12/25 13:00		MOHAN	OK
61	Q1986-09MSD	VNJ-218MSD	MSD	05/12/25 13:03		MOHAN	OK
62	Q2002-01	EO-02-05092025	SAM	05/12/25 13:05		MOHAN	OK
63	Q1983-01L	OR-636-COMP-01L	SD	05/12/25 13:08		MOHAN	OK
64	Q1983-01A	OR-636-COMP-01A	PS	05/12/25 13:10		MOHAN	OK
65	Q1986-09L	VNJ-218L	SD	05/12/25 13:12		MOHAN	OK
66	Q1986-09A	VNJ-218A	PS	05/12/25 13:15		MOHAN	OK
67	CCV12	CCV12	CCV	05/12/25 13:17		MOHAN	OK
68	CCB12	CCB12	CCB	05/12/25 13:27		MOHAN	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135756

Review By	Janvi	Review On	5/14/2025 12:25:32 PM
Supervise By	jaswal	Supervise On	5/14/2025 12:29:12 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85545,MP85546,MP85547,MP85548,MP85549,MP85552		
ICV Standard	MP85553		
CCV Standard	MP85556		
ICSA Standard	MP85554,MP85555		
CRI Standard	MP85552		
LCS Standard			
Chk Standard	MP85557,MP85558		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	05/13/25 12:07		Kareem	OK
2	S1	S1	CAL2	05/13/25 12:11		Kareem	OK
3	S2	S2	CAL3	05/13/25 12:16		Kareem	OK
4	S3	S3	CAL4	05/13/25 12:20		Kareem	OK
5	S4	S4	CAL5	05/13/25 12:24		Kareem	OK
6	S5	S5	CAL6	05/13/25 12:28		Kareem	OK
7	ICV01	ICV01	ICV	05/13/25 12:33	Fai For 95-105(Ca,Co,fe,Mg,Mn,Ni, V)	Kareem	OK
8	LLICV01	LLICV01	LLICV	05/13/25 12:50		Kareem	OK
9	ICB01	ICB01	ICB	05/13/25 12:55		Kareem	OK
10	CRI01	CRI01	CRDL	05/13/25 13:00		Kareem	OK
11	ICSA01	ICSA01	ICSA	05/13/25 13:04		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	05/13/25 13:08		Kareem	OK
13	ICSADL	ICSADL	ICSA	05/13/25 13:12		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	05/13/25 13:17		Kareem	OK
15	CCV01	CCV01	CCV	05/13/25 13:21		Kareem	OK
16	CCB01	CCB01	CCB	05/13/25 13:26		Kareem	OK
17	PB167916BL	PB167916BL	MB	05/13/25 13:30		Kareem	OK
18	PB167916BS	PB167916BS	LCS	05/13/25 13:52		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135756

Review By	Janvi	Review On	5/14/2025 12:25:32 PM
Supervise By	jaswal	Supervise On	5/14/2025 12:29:12 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85545,MP85546,MP85547,MP85548,MP85549,MP85552		
ICV Standard	MP85553		
CCV Standard	MP85556		
ICSA Standard	MP85554,MP85555		
CRI Standard	MP85552		
LCS Standard			
Chk Standard	MP85557,MP85558		

19	PB167909BL	PB167909BL	MB	05/13/25 13:57	NOT USE	Kareem	Not Ok
20	PB167909BS	PB167909BS	LCS	05/13/25 14:01	NOT USE	Kareem	Not Ok
21	PB167934BL	PB167934BL	MB	05/13/25 14:06		Kareem	OK
22	PB167934BS	PB167934BS	LCS	05/13/25 14:11		Kareem	OK
23	PB167918BL	PB167918BL	MB	05/13/25 14:27		Kareem	OK
24	PB167918BS	PB167918BS	LCS	05/13/25 14:31		Kareem	OK
25	PB167930BL	PB167930BL	MB	05/13/25 14:35		Kareem	OK
26	CCV02	CCV02	CCV	05/13/25 14:52		Kareem	OK
27	CCB02	CCB02	CCB	05/13/25 14:56		Kareem	OK
28	PB167930BS	PB167930BS	LCS	05/13/25 15:00		Kareem	OK
29	Q1967-01DL	RECLAIM-TANKDL	SAM	05/13/25 15:04	5X For Zn	Kareem	Confirms
30	Q1967-02	BOOSTER-1	SAM	05/13/25 15:08		Kareem	OK
31	Q1967-03DL	ACID-PITDL	SAM	05/13/25 15:19	Zn High	Kareem	Dilution
32	Q1967-04	CHAMBER-WASHER	SAM	05/13/25 15:23		Kareem	OK
33	Q1967-03DL2	ACID-PITDL2	SAM	05/13/25 15:28	25X For Zn	Kareem	Confirms
34	Q1967-05DL	PORT-SAMPLEDL	SAM	05/13/25 15:44		Kareem	OK
35	Q1967-05DUPDL	PORT-SAMPLEDUPDL	DUP	05/13/25 15:49		Kareem	OK
36	Q1967-05LDL	PORT-SAMPLELDL	SD	05/13/25 15:53		Kareem	OK
37	Q1967-05MSDL	PORT-SAMPLEMSDL	MS	05/13/25 15:57		Kareem	OK
38	CCV03	CCV03	CCV	05/13/25 16:12		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135756

Review By	Janvi	Review On	5/14/2025 12:25:32 PM
Supervise By	jaswal	Supervise On	5/14/2025 12:29:12 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85545,MP85546,MP85547,MP85548,MP85549,MP85552		
ICV Standard	MP85553		
CCV Standard	MP85556		
ICSA Standard	MP85554,MP85555		
CRI Standard	MP85552		
LCS Standard			
Chk Standard	MP85557,MP85558		

39	CCB03	CCB03	CCB	05/13/25 16:47		Kareem	OK
40	Q1967-05MSDDL	PORT-SAMPLEMSD	MSD	05/13/25 16:51		Kareem	OK
41	Q1967-05ADL	PORT-SAMPLEADL	PS	05/13/25 16:56		Kareem	OK
42	PB167917TB	PB167917TB	MB	05/13/25 17:09		Kareem	OK
43	Q1983-06	OR-636-COMP-01	SAM	05/13/25 17:14		Kareem	OK
44	Q1983-12	OR-636-COMP-02	SAM	05/13/25 17:18		Kareem	OK
45	Q1983-18	OR-636-COMP-03	SAM	05/13/25 17:23		Kareem	OK
46	Q1983-24	OR-636-COMP-04	SAM	05/13/25 17:27		Kareem	OK
47	Q1983-30	OR-636-COMP-05	SAM	05/13/25 17:32		Kareem	OK
48	Q1983-36	OR-636-COMP-06	SAM	05/13/25 17:36		Kareem	OK
49	CCV04	CCV04	CCV	05/13/25 17:40		Kareem	OK
50	CCB04	CCB04	CCB	05/13/25 17:46		Kareem	OK
51	Q1983-42	OR-636-COMP-07	SAM	05/13/25 17:50		Kareem	OK
52	Q1983-48	OR-636-COMP-08	SAM	05/13/25 17:55		Kareem	OK
53	Q1983-54	OR-636-COMP-09	SAM	05/13/25 17:59		Kareem	OK
54	Q1986-02	COMP-8	SAM	05/13/25 18:04		Kareem	OK
55	Q1986-04	COMP-9	SAM	05/13/25 18:08		Kareem	OK
56	Q1986-06	COMP-10	SAM	05/13/25 18:12		Kareem	OK
57	Q1986-08	COMP-11	SAM	05/13/25 18:17		Kareem	OK
58	Q1986-10	VNJ-218	SAM	05/13/25 18:21		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135756

Review By	Janvi	Review On	5/14/2025 12:25:32 PM
Supervise By	jaswal	Supervise On	5/14/2025 12:29:12 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85545,MP85546,MP85547,MP85548,MP85549,MP85552		
ICV Standard	MP85553		
CCV Standard	MP85556		
ICSA Standard	MP85554,MP85555		
CRI Standard	MP85552		
LCS Standard			
Chk Standard	MP85557,MP85558		

59	Q1986-10DUP	VNJ-218DUP	DUP	05/13/25 18:26		Kareem	OK
60	Q1986-10L	VNJ-218L	SD	05/13/25 18:30		Kareem	OK
61	CCV05	CCV05	CCV	05/13/25 18:35		Kareem	OK
62	CCB05	CCB05	CCB	05/13/25 18:39		Kareem	OK
63	Q1986-10MS	VNJ-218MS	MS	05/13/25 18:43		Kareem	OK
64	Q1986-10MSD	VNJ-218MSD	MSD	05/13/25 18:47		Kareem	OK
65	Q1986-10A	VNJ-218A	PS	05/13/25 18:51		Kareem	OK
66	Q1983-01	OR-636-COMP-01	SAM	05/13/25 18:56		Kareem	OK
67	Q1983-07	OR-636-COMP-02	SAM	05/13/25 19:00		Kareem	OK
68	Q1983-13	OR-636-COMP-03	SAM	05/13/25 19:04		Kareem	OK
69	Q1983-19	OR-636-COMP-04	SAM	05/13/25 19:08		Kareem	OK
70	Q1983-25	OR-636-COMP-05	SAM	05/13/25 19:12		Kareem	OK
71	Q1983-31	OR-636-COMP-06	SAM	05/13/25 19:16		Kareem	OK
72	CCV06	CCV06	CCV	05/13/25 19:20		Kareem	OK
73	CCB06	CCB06	CCB	05/13/25 19:25		Kareem	OK
74	Q1983-37	OR-636-COMP-07	SAM	05/13/25 19:29		Kareem	OK
75	Q1983-43	OR-636-COMP-08	SAM	05/13/25 19:33		Kareem	OK
76	Q1983-49	OR-636-COMP-09	SAM	05/13/25 19:37		Kareem	OK
77	Q1983-49DUP	OR-636-COMP-09DU	DUP	05/13/25 19:41		Kareem	OK
78	Q1983-49L	OR-636-COMP-09L	SD	05/13/25 19:45		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135756

Review By	Janvi	Review On	5/14/2025 12:25:32 PM
Supervise By	jaswal	Supervise On	5/14/2025 12:29:12 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85545,MP85546,MP85547,MP85548,MP85549,MP85552		
ICV Standard	MP85553		
CCV Standard	MP85556		
ICSA Standard	MP85554,MP85555		
CRI Standard	MP85552		
LCS Standard			
Chk Standard	MP85557,MP85558		

79	Q1983-49MS	OR-636-COMP-09MS	MS	05/13/25 19:50		Kareem	OK
80	Q1983-49MSD	OR-636-COMP-09MS	MSD	05/13/25 19:54		Kareem	OK
81	Q1983-49A	OR-636-COMP-09A	PS	05/13/25 19:58		Kareem	OK
82	Q1986-01	COMP-8	SAM	05/13/25 20:02		Kareem	OK
83	CCV07	CCV07	CCV	05/13/25 20:06		Kareem	OK
84	CCB07	CCB07	CCB	05/13/25 20:10		Kareem	OK
85	Q1986-03	COMP-9	SAM	05/13/25 20:14		Kareem	OK
86	Q1986-05	COMP-10	SAM	05/13/25 20:19		Kareem	OK
87	Q1986-07	COMP-11	SAM	05/13/25 20:23		Kareem	OK
88	Q1986-09	VNJ-218	SAM	05/13/25 20:27		Kareem	OK
89	Q1982-01	TP-1	SAM	05/13/25 20:31		Kareem	OK
90	Q1982-02	TP-2B	SAM	05/13/25 20:35		Kareem	OK
91	Q1982-03	TP-3	SAM	05/13/25 20:39		Kareem	OK
92	Q1982-03DUP	TP-3DUP	DUP	05/13/25 20:43		Kareem	OK
93	Q1982-03L	TP-3L	SD	05/13/25 20:48		Kareem	OK
94	CCV08	CCV08	CCV	05/13/25 20:52		Kareem	OK
95	CCB08	CCB08	CCB	05/13/25 20:56		Kareem	OK
96	Q1982-03MS	TP-3MS	MS	05/13/25 21:00		Kareem	OK
97	Q1982-03MSD	TP-3MSD	MSD	05/13/25 21:04		Kareem	OK
98	Q1982-03A	TP-3A	PS	05/13/25 21:08		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135756

Review By	Janvi	Review On	5/14/2025 12:25:32 PM
Supervise By	jaswal	Supervise On	5/14/2025 12:29:12 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85545,MP85546,MP85547,MP85548,MP85549,MP85552		
ICV Standard	MP85553		
CCV Standard	MP85556		
ICSA Standard	MP85554,MP85555		
CRI Standard	MP85552		
LCS Standard			
Chk Standard	MP85557,MP85558		

99	Q1982-04	TP-4	SAM	05/13/25 21:12		Kareem	OK
100	Q1982-05	TP-5	SAM	05/13/25 21:17		Kareem	OK
101	Q1982-06	TP-6	SAM	05/13/25 21:21		Kareem	OK
102	Q1982-07	TP-8	SAM	05/13/25 21:25		Kareem	OK
103	Q1982-08	TP-9	SAM	05/13/25 21:29		Kareem	OK
104	PB167894TB	PB167894TB	MB	05/13/25 21:33		Kareem	OK
105	CCV09	CCV09	CCV	05/13/25 21:38		Kareem	OK
106	CCB09	CCB09	CCB	05/13/25 21:42		Kareem	OK
107	Q1968-08	MH-M	SAM	05/13/25 21:46	NOT USE	Kareem	Not Ok
108	Q1974-02	OILY-DEBRIS-COMP	SAM	05/13/25 21:51		Kareem	OK
109	Q1974-04	OILY-PADS	SAM	05/13/25 21:55		Kareem	OK
110	Q1974-04DUP	OILY-PADSDUP	DUP	05/13/25 22:00		Kareem	OK
111	Q1974-04L	OILY-PADSL	SD	05/13/25 22:04		Kareem	OK
112	Q1974-04MS	OILY-PADSMS	MS	05/13/25 22:08		Kareem	OK
113	Q1974-04MSD	OILY-PADSMSD	MSD	05/13/25 22:12		Kareem	OK
114	Q1974-04A	OILY-PADSA	PS	05/13/25 22:17		Kareem	OK
115	Q2002-01	EO-02-05092025	SAM	05/13/25 22:21		Kareem	OK
116	CCV10	CCV10	CCV	05/13/25 22:25		Kareem	OK
117	CCB10	CCB10	CCB	05/13/25 22:29		Kareem	OK

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pipette ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #3 2. N/A

Start Digest Date: 05/09/2025 Time : 10:05 Temp : 96 °C

End Digest Date: 05/09/2025 Time : 12:21 Temp : 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #3

Dig Technician Signature: *SPB*

Supervisor Signature: *[Signature]*

Temp : 1. 96°C 2. N/A

Standard Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6005
LFS-2	1.00	M6016
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	5.00	M6158
1:1 HNO3	10.00	MP84041
30% H2O2	3.00	M6125
Conc. HCL	10.00	M6151
PTFE Boiling Stones	N/A	M5581
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#3 CELL#35 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
05/09/25 13:21	<i>SPB met dig</i>	<i>[Signature]</i>
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB167930BL	PBS930	N/A	2.06	100	Colorless	Colorless	Fine	N/A	N/A	1
PB167930BS	LCS930	N/A	2.14	100	Colorless	Colorless	Fine	N/A	M6005,M6016	2
Q1982-01	TP-1	N/A	2.13	100	Brown	Yellow	Medium	N/A	N/A	3
Q1982-02	TP-2B	N/A	2.19	100	Brown	Yellow	Medium	N/A	N/A	4
Q1982-03	TP-3	N/A	2.11	100	Brown	Yellow	Medium	N/A	N/A	5
Q1982-03MS	TP-3MS	N/A	2.21	100	Brown	Yellow	Medium	N/A	M6005,M6016	7
Q1982-03MSD	TP-3MSD	N/A	2.18	100	Brown	Yellow	Medium	N/A	M6005,M6016	8
Q1982-03DUP	TP-3DUP	N/A	2.29	100	Brown	Yellow	Medium	N/A	N/A	6
Q1982-04	TP-4	N/A	2.23	100	Brown	Yellow	Medium	N/A	N/A	9
Q1982-05	TP-5	N/A	2.22	100	Brown	Yellow	Medium	N/A	N/A	10
Q1982-06	TP-6	N/A	2.18	100	Brown	Yellow	Medium	N/A	N/A	11
Q1982-07	TP-7	N/A	2.33	100	Brown	Yellow	Medium	N/A	N/A	12
Q1982-08	TP-8	N/A	2.13	100	Brown	Yellow	Medium	N/A	N/A	13
Q1986-01	COMP-8	N/A	2.18	100	Brown	Yellow	Medium	N/A	N/A	14
Q1986-03	COMP-9	N/A	2.24	100	Brown	Yellow	Medium	N/A	N/A	15
Q1986-05	COMP-10	N/A	2.39	100	Brown	Yellow	Medium	N/A	N/A	16
Q1986-07	COMP-11	N/A	2.21	100	Brown	Yellow	Medium	N/A	N/A	17
Q1986-09	COMP-218	N/A	2.28	100	Brown	Yellow	Medium	N/A	N/A	18

SOP ID : M7471B-Mercury-18

SDG No : NA

Matrix : SOIL

Pipette ID: HG A

Balance ID : M SC-3

Filter paper ID : NA

pH Strip ID : NA

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 05/09/2025 Time : 16:05 Temp : 95 °C

End Digest Date: 05/09/2025 Time : 16:35 Temp : 94 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: N

Temp : 1. 95°C 2. N/A

Standard Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP85632
CCV	30mL	MP85634
CRA	30mL	MP85636
Blank Spike	0.48mL	MP85625
Matrix Spike	0.48mL	MP85625

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP85638
KMnO4 (5%)	4.5mL	MP85241
Hydroxylamine HCL (12%)	2.0mL	MP85243
PTFE Boiling Stones	-----	M4583
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP85626
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP85627
2.5 ppb	S2.5	30mL	MP85628
5.0 ppb	S5.0	30mL	MP85629
7.5 ppb	S7.5	30mL	MP85630
10.0 ppb	S10.0	30mL	MP85631
ICV	ICV	30mL	MP85632
ICB	ICB	30mL	MP85633
CCV	CCV	30mL	MP85634
CCB	CCB	30mL	MP85635
CRI	CRI	30mL	MP85636
CHK STD	CHK STD	30mL	MP85637

Extraction Conformance/Non-Conformance Comments:

N/A		
Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/9/25 @ 12:10	MB - Dig, Lab	MB - Dig, Lab
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB167937BL	PBS937	0.55	35	NA	N/A	3-1
PB167937BS	LCS937	0.53	35	NA	MP85625	2
Q1982-01	TP-1	0.51	35	NA	N/A	3
Q1982-02	TP-2B	0.53	35	NA	N/A	4
Q1982-03	TP-3	0.54	35	NA	N/A	5
Q1982-04	TP-4	0.58	35	NA	N/A	6
Q1982-05	TP-5	0.58	35	NA	N/A	7
Q1982-06	TP-6	0.58	35	NA	N/A	8
Q1982-07	TP-7	0.55	35	NA	N/A	9
Q1982-08	TP-8	0.57	35	NA	N/A	10
Q1983-01	OR-636-COMP-01	0.56	35	NA	N/A	11
Q1983-01DUP	OR-636-COMP-01DUP	0.57	35	NA	N/A	12
Q1983-01MS	OR-636-COMP-01MS	0.55	35	NA	MP85625	13
Q1983-01MSD	OR-636-COMP-01MSD	0.58	35	NA	MP85625	14
Q1983-07	OR-636-COMP-02	0.55	35	NA	N/A	15
Q1983-13	OR-636-COMP-03	0.54	35	NA	N/A	16
Q1983-19	OR-636-COMP-04	0.53	35	NA	N/A	17
Q1983-25	OR-636-COMP-05	0.58	35	NA	N/A	18
Q1983-31	OR-636-COMP-06	0.52	35	NA	N/A	19
Q1983-37	OR-636-COMP-07	0.59	35	NA	N/A	20
Q1983-43	OR-636-COMP-08	0.57	35	NA	N/A	21
Q1983-49	OR-636-COMP-09	0.56	35	NA	N/A	22