

Hit Summary Sheet SW-846

SDG No.: Q2436

Order ID: Q2436

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-70								
Q2436-01	TP-70	SOIL	Aluminum	8840		0.89	5.32	mg/Kg
Q2436-01	TP-70	SOIL	Arsenic	4.89		0.20	1.06	mg/Kg
Q2436-01	TP-70	SOIL	Barium	67.4		0.78	5.32	mg/Kg
Q2436-01	TP-70	SOIL	Beryllium	0.56		0.027	0.32	mg/Kg
Q2436-01	TP-70	SOIL	Calcium	318		11.8	106	mg/Kg
Q2436-01	TP-70	SOIL	Chromium	7.09		0.050	0.53	mg/Kg
Q2436-01	TP-70	SOIL	Cobalt	2.07		0.11	1.60	mg/Kg
Q2436-01	TP-70	SOIL	Copper	1.84		0.23	1.06	mg/Kg
Q2436-01	TP-70	SOIL	Iron	12400		4.24	5.32	mg/Kg
Q2436-01	TP-70	SOIL	Lead	5.95		0.14	0.64	mg/Kg
Q2436-01	TP-70	SOIL	Magnesium	203		12.8	106	mg/Kg
Q2436-01	TP-70	SOIL	Manganese	70.4		0.15	1.06	mg/Kg
Q2436-01	TP-70	SOIL	Nickel	3.08		0.14	2.13	mg/Kg
Q2436-01	TP-70	SOIL	Potassium	207		29.5	106	mg/Kg
Q2436-01	TP-70	SOIL	Selenium	2.88		0.28	1.06	mg/Kg
Q2436-01	TP-70	SOIL	Silver	0.56		0.13	0.53	mg/Kg
Q2436-01	TP-70	SOIL	Sodium	235		18.9	106	mg/Kg
Q2436-01	TP-70	SOIL	Vanadium	19.7		0.27	2.13	mg/Kg
Q2436-01	TP-70	SOIL	Zinc	8.13		0.25	2.13	mg/Kg
Client ID : TP-69								
Q2436-02	TP-69	SOIL	Aluminum	3120		0.83	4.92	mg/Kg
Q2436-02	TP-69	SOIL	Arsenic	5.74		0.19	0.98	mg/Kg
Q2436-02	TP-69	SOIL	Barium	5.63		0.72	4.92	mg/Kg
Q2436-02	TP-69	SOIL	Beryllium	0.35		0.025	0.30	mg/Kg
Q2436-02	TP-69	SOIL	Calcium	361		10.9	98.3	mg/Kg
Q2436-02	TP-69	SOIL	Chromium	8.42		0.046	0.49	mg/Kg
Q2436-02	TP-69	SOIL	Cobalt	0.39	J	0.098	1.48	mg/Kg
Q2436-02	TP-69	SOIL	Copper	1.29		0.22	0.98	mg/Kg
Q2436-02	TP-69	SOIL	Iron	18800		3.92	4.92	mg/Kg
Q2436-02	TP-69	SOIL	Lead	28.7		0.13	0.59	mg/Kg
Q2436-02	TP-69	SOIL	Magnesium	182		11.8	98.3	mg/Kg
Q2436-02	TP-69	SOIL	Manganese	7.58		0.14	0.98	mg/Kg
Q2436-02	TP-69	SOIL	Mercury	0.024		0.0080	0.015	mg/Kg
Q2436-02	TP-69	SOIL	Nickel	1.17	J	0.13	1.97	mg/Kg
Q2436-02	TP-69	SOIL	Potassium	385		27.2	98.3	mg/Kg
Q2436-02	TP-69	SOIL	Selenium	4.47		0.26	0.98	mg/Kg
Q2436-02	TP-69	SOIL	Silver	0.84		0.12	0.49	mg/Kg

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Q2436-02	TP-69	SOIL	Sodium	324		17.5	98.3	mg/Kg
Q2436-02	TP-69	SOIL	Thallium	0.53	J	0.23	1.97	mg/Kg
Q2436-02	TP-69	SOIL	Vanadium	17.1		0.25	1.97	mg/Kg
Q2436-02	TP-69	SOIL	Zinc	7.35		0.23	1.97	mg/Kg
Client ID : TP-85								
Q2436-03	TP-85	SOIL	Aluminum	4030		0.85	5.07	mg/Kg
Q2436-03	TP-85	SOIL	Arsenic	1.63		0.19	1.01	mg/Kg
Q2436-03	TP-85	SOIL	Barium	11.0		0.74	5.07	mg/Kg
Q2436-03	TP-85	SOIL	Beryllium	0.26	J	0.025	0.30	mg/Kg
Q2436-03	TP-85	SOIL	Calcium	176		11.2	101	mg/Kg
Q2436-03	TP-85	SOIL	Chromium	5.18		0.048	0.51	mg/Kg
Q2436-03	TP-85	SOIL	Cobalt	1.06	J	0.10	1.52	mg/Kg
Q2436-03	TP-85	SOIL	Copper	2.32		0.22	1.01	mg/Kg
Q2436-03	TP-85	SOIL	Iron	7060		4.04	5.07	mg/Kg
Q2436-03	TP-85	SOIL	Lead	4.12		0.13	0.61	mg/Kg
Q2436-03	TP-85	SOIL	Magnesium	183		12.2	101	mg/Kg
Q2436-03	TP-85	SOIL	Manganese	9.36		0.14	1.01	mg/Kg
Q2436-03	TP-85	SOIL	Nickel	2.53		0.13	2.03	mg/Kg
Q2436-03	TP-85	SOIL	Potassium	181		28.1	101	mg/Kg
Q2436-03	TP-85	SOIL	Selenium	1.72		0.26	1.01	mg/Kg
Q2436-03	TP-85	SOIL	Silver	0.29	J	0.12	0.51	mg/Kg
Q2436-03	TP-85	SOIL	Sodium	240		18.0	101	mg/Kg
Q2436-03	TP-85	SOIL	Vanadium	11.8		0.25	2.03	mg/Kg
Q2436-03	TP-85	SOIL	Zinc	7.55		0.23	2.03	mg/Kg
Client ID : TP-86								
Q2436-04	TP-86	SOIL	Aluminum	4440		0.84	5.01	mg/Kg
Q2436-04	TP-86	SOIL	Arsenic	6.08		0.19	1.00	mg/Kg
Q2436-04	TP-86	SOIL	Barium	14.9		0.73	5.01	mg/Kg
Q2436-04	TP-86	SOIL	Beryllium	0.71		0.025	0.30	mg/Kg
Q2436-04	TP-86	SOIL	Calcium	344		11.1	100	mg/Kg
Q2436-04	TP-86	SOIL	Chromium	14.2		0.047	0.50	mg/Kg
Q2436-04	TP-86	SOIL	Cobalt	4.14		0.10	1.50	mg/Kg
Q2436-04	TP-86	SOIL	Iron	24500		4.00	5.01	mg/Kg
Q2436-04	TP-86	SOIL	Lead	3.87		0.13	0.60	mg/Kg
Q2436-04	TP-86	SOIL	Magnesium	275		12.0	100	mg/Kg
Q2436-04	TP-86	SOIL	Manganese	71.6		0.14	1.00	mg/Kg
Q2436-04	TP-86	SOIL	Nickel	3.18		0.13	2.00	mg/Kg
Q2436-04	TP-86	SOIL	Potassium	791		27.8	100	mg/Kg
Q2436-04	TP-86	SOIL	Selenium	5.08		0.26	1.00	mg/Kg

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Q2436-04	TP-86	SOIL	Silver	1.12		0.12	0.50	mg/Kg
Q2436-04	TP-86	SOIL	Sodium	427		17.8	100	mg/Kg
Q2436-04	TP-86	SOIL	Thallium	0.50	J	0.23	2.00	mg/Kg
Q2436-04	TP-86	SOIL	Vanadium	22.6		0.25	2.00	mg/Kg
Q2436-04	TP-86	SOIL	Zinc	15.5		0.23	2.00	mg/Kg
Client ID : TP-84								
Q2436-05	TP-84	SOIL	Aluminum	4860		0.80	4.73	mg/Kg
Q2436-05	TP-84	SOIL	Arsenic	2.23		0.18	0.95	mg/Kg
Q2436-05	TP-84	SOIL	Barium	11.5		0.69	4.73	mg/Kg
Q2436-05	TP-84	SOIL	Beryllium	0.42		0.024	0.28	mg/Kg
Q2436-05	TP-84	SOIL	Calcium	320		10.5	94.6	mg/Kg
Q2436-05	TP-84	SOIL	Chromium	6.70		0.044	0.47	mg/Kg
Q2436-05	TP-84	SOIL	Cobalt	2.20		0.095	1.42	mg/Kg
Q2436-05	TP-84	SOIL	Copper	2.13		0.21	0.95	mg/Kg
Q2436-05	TP-84	SOIL	Iron	13400		3.78	4.73	mg/Kg
Q2436-05	TP-84	SOIL	Lead	4.43		0.12	0.57	mg/Kg
Q2436-05	TP-84	SOIL	Magnesium	312		11.4	94.6	mg/Kg
Q2436-05	TP-84	SOIL	Manganese	25.9		0.13	0.95	mg/Kg
Q2436-05	TP-84	SOIL	Nickel	3.47		0.12	1.89	mg/Kg
Q2436-05	TP-84	SOIL	Potassium	191		26.2	94.6	mg/Kg
Q2436-05	TP-84	SOIL	Selenium	3.16		0.25	0.95	mg/Kg
Q2436-05	TP-84	SOIL	Silver	0.66		0.11	0.47	mg/Kg
Q2436-05	TP-84	SOIL	Sodium	160		16.8	94.6	mg/Kg
Q2436-05	TP-84	SOIL	Vanadium	13.9		0.24	1.89	mg/Kg
Q2436-05	TP-84	SOIL	Zinc	13.1		0.22	1.89	mg/Kg
Client ID : TP-83								
Q2436-06	TP-83	SOIL	Aluminum	8670		0.88	5.26	mg/Kg
Q2436-06	TP-83	SOIL	Arsenic	4.16		0.20	1.05	mg/Kg
Q2436-06	TP-83	SOIL	Barium	20.7		0.77	5.26	mg/Kg
Q2436-06	TP-83	SOIL	Beryllium	0.65		0.026	0.32	mg/Kg
Q2436-06	TP-83	SOIL	Calcium	227		11.7	105	mg/Kg
Q2436-06	TP-83	SOIL	Chromium	13.0		0.049	0.53	mg/Kg
Q2436-06	TP-83	SOIL	Cobalt	3.11		0.11	1.58	mg/Kg
Q2436-06	TP-83	SOIL	Copper	1.13		0.23	1.05	mg/Kg
Q2436-06	TP-83	SOIL	Iron	19500		4.19	5.26	mg/Kg
Q2436-06	TP-83	SOIL	Lead	4.86		0.14	0.63	mg/Kg
Q2436-06	TP-83	SOIL	Magnesium	273		12.6	105	mg/Kg
Q2436-06	TP-83	SOIL	Manganese	57.2		0.15	1.05	mg/Kg
Q2436-06	TP-83	SOIL	Mercury	0.011	J	0.0080	0.015	mg/Kg

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Q2436-06	TP-83	SOIL	Nickel	4.90		0.14	2.10	mg/Kg
Q2436-06	TP-83	SOIL	Potassium	382		29.1	105	mg/Kg
Q2436-06	TP-83	SOIL	Selenium	4.79		0.27	1.05	mg/Kg
Q2436-06	TP-83	SOIL	Silver	0.93		0.13	0.53	mg/Kg
Q2436-06	TP-83	SOIL	Sodium	82.2	J	18.7	105	mg/Kg
Q2436-06	TP-83	SOIL	Vanadium	20.5		0.26	2.10	mg/Kg
Q2436-06	TP-83	SOIL	Zinc	14.4		0.24	2.10	mg/Kg
Client ID : TP-87								
Q2436-07	TP-87	SOIL	Aluminum	8840		0.85	5.03	mg/Kg
Q2436-07	TP-87	SOIL	Arsenic	4.94		0.19	1.01	mg/Kg
Q2436-07	TP-87	SOIL	Barium	14.6		0.74	5.03	mg/Kg
Q2436-07	TP-87	SOIL	Beryllium	0.77		0.025	0.30	mg/Kg
Q2436-07	TP-87	SOIL	Calcium	278		11.2	101	mg/Kg
Q2436-07	TP-87	SOIL	Chromium	15.3		0.047	0.50	mg/Kg
Q2436-07	TP-87	SOIL	Cobalt	4.91		0.10	1.51	mg/Kg
Q2436-07	TP-87	SOIL	Iron	21300		4.02	5.03	mg/Kg
Q2436-07	TP-87	SOIL	Lead	5.97		0.13	0.60	mg/Kg
Q2436-07	TP-87	SOIL	Magnesium	319		12.1	101	mg/Kg
Q2436-07	TP-87	SOIL	Manganese	52.1		0.14	1.01	mg/Kg
Q2436-07	TP-87	SOIL	Mercury	0.010	J	0.0080	0.014	mg/Kg
Q2436-07	TP-87	SOIL	Nickel	7.01		0.13	2.01	mg/Kg
Q2436-07	TP-87	SOIL	Potassium	354		27.9	101	mg/Kg
Q2436-07	TP-87	SOIL	Selenium	4.81		0.26	1.01	mg/Kg
Q2436-07	TP-87	SOIL	Silver	0.93		0.12	0.50	mg/Kg
Q2436-07	TP-87	SOIL	Sodium	487		17.9	101	mg/Kg
Q2436-07	TP-87	SOIL	Vanadium	19.7		0.25	2.01	mg/Kg
Q2436-07	TP-87	SOIL	Zinc	16.6		0.23	2.01	mg/Kg
Client ID : TP-100								
Q2436-08	TP-100	SOIL	Aluminum	11700		0.90	5.36	mg/Kg
Q2436-08	TP-100	SOIL	Arsenic	2.67		0.20	1.07	mg/Kg
Q2436-08	TP-100	SOIL	Barium	24.5		0.78	5.36	mg/Kg
Q2436-08	TP-100	SOIL	Beryllium	0.72		0.027	0.32	mg/Kg
Q2436-08	TP-100	SOIL	Calcium	333		11.9	107	mg/Kg
Q2436-08	TP-100	SOIL	Chromium	7.70		0.050	0.54	mg/Kg
Q2436-08	TP-100	SOIL	Cobalt	5.97		0.11	1.61	mg/Kg
Q2436-08	TP-100	SOIL	Copper	1.12		0.24	1.07	mg/Kg
Q2436-08	TP-100	SOIL	Iron	17500		4.28	5.36	mg/Kg
Q2436-08	TP-100	SOIL	Lead	7.65		0.14	0.64	mg/Kg
Q2436-08	TP-100	SOIL	Magnesium	270		12.9	107	mg/Kg

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Q2436-08	TP-100	SOIL	Manganese	72.9		0.15	1.07	mg/Kg
Q2436-08	TP-100	SOIL	Mercury	0.010	J	0.0080	0.015	mg/Kg
Q2436-08	TP-100	SOIL	Nickel	7.48		0.14	2.14	mg/Kg
Q2436-08	TP-100	SOIL	Potassium	266		29.7	107	mg/Kg
Q2436-08	TP-100	SOIL	Selenium	4.27		0.28	1.07	mg/Kg
Q2436-08	TP-100	SOIL	Silver	0.75		0.13	0.54	mg/Kg
Q2436-08	TP-100	SOIL	Sodium	176		19.1	107	mg/Kg
Q2436-08	TP-100	SOIL	Vanadium	15.7		0.27	2.14	mg/Kg
Q2436-08	TP-100	SOIL	Zinc	20.4		0.25	2.14	mg/Kg
Client ID : TP-99								
Q2436-09	TP-99	SOIL	Aluminum	15300		0.81	4.82	mg/Kg
Q2436-09	TP-99	SOIL	Arsenic	2.79		0.18	0.96	mg/Kg
Q2436-09	TP-99	SOIL	Barium	66.6		0.70	4.82	mg/Kg
Q2436-09	TP-99	SOIL	Beryllium	0.51		0.024	0.29	mg/Kg
Q2436-09	TP-99	SOIL	Calcium	2910		10.7	96.4	mg/Kg
Q2436-09	TP-99	SOIL	Chromium	7.44		0.045	0.48	mg/Kg
Q2436-09	TP-99	SOIL	Cobalt	4.07		0.096	1.45	mg/Kg
Q2436-09	TP-99	SOIL	Copper	3.21		0.21	0.96	mg/Kg
Q2436-09	TP-99	SOIL	Iron	13700		3.85	4.82	mg/Kg
Q2436-09	TP-99	SOIL	Lead	7.43		0.13	0.58	mg/Kg
Q2436-09	TP-99	SOIL	Magnesium	319		11.6	96.4	mg/Kg
Q2436-09	TP-99	SOIL	Manganese	61.2		0.14	0.96	mg/Kg
Q2436-09	TP-99	SOIL	Nickel	8.04		0.13	1.93	mg/Kg
Q2436-09	TP-99	SOIL	Potassium	299		26.7	96.4	mg/Kg
Q2436-09	TP-99	SOIL	Selenium	3.85		0.25	0.96	mg/Kg
Q2436-09	TP-99	SOIL	Silver	0.69		0.12	0.48	mg/Kg
Q2436-09	TP-99	SOIL	Sodium	318		17.2	96.4	mg/Kg
Q2436-09	TP-99	SOIL	Vanadium	12.2		0.24	1.93	mg/Kg
Q2436-09	TP-99	SOIL	Zinc	18.5		0.22	1.93	mg/Kg
Client ID : TP-82								
Q2436-10	TP-82	SOIL	Aluminum	1050		0.85	5.03	mg/Kg
Q2436-10	TP-82	SOIL	Arsenic	1.03		0.19	1.01	mg/Kg
Q2436-10	TP-82	SOIL	Barium	8.54		0.74	5.03	mg/Kg
Q2436-10	TP-82	SOIL	Beryllium	0.20	J	0.025	0.30	mg/Kg
Q2436-10	TP-82	SOIL	Calcium	174		11.2	101	mg/Kg
Q2436-10	TP-82	SOIL	Chromium	3.04		0.047	0.50	mg/Kg
Q2436-10	TP-82	SOIL	Cobalt	1.28	J	0.10	1.51	mg/Kg
Q2436-10	TP-82	SOIL	Copper	0.86	J	0.22	1.01	mg/Kg
Q2436-10	TP-82	SOIL	Iron	7140		4.02	5.03	mg/Kg

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Q2436-10	TP-82	SOIL	Lead	3.84		0.13	0.60	mg/Kg
Q2436-10	TP-82	SOIL	Magnesium	83.6	J	12.1	101	mg/Kg
Q2436-10	TP-82	SOIL	Manganese	19.7		0.14	1.01	mg/Kg
Q2436-10	TP-82	SOIL	Nickel	1.05	J	0.13	2.01	mg/Kg
Q2436-10	TP-82	SOIL	Potassium	45.1	J	27.9	101	mg/Kg
Q2436-10	TP-82	SOIL	Selenium	1.72		0.26	1.01	mg/Kg
Q2436-10	TP-82	SOIL	Silver	0.38	J	0.12	0.50	mg/Kg
Q2436-10	TP-82	SOIL	Sodium	171		17.9	101	mg/Kg
Q2436-10	TP-82	SOIL	Vanadium	9.07		0.25	2.01	mg/Kg
Q2436-10	TP-82	SOIL	Zinc	6.28		0.23	2.01	mg/Kg