

Hit Summary Sheet
SW-846

SDG No.: Q2514

Order ID: Q2514

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-92								
Q2514-01	TP-92	SOIL	Aluminum	8400		0.84	5.00	mg/Kg
Q2514-01	TP-92	SOIL	Antimony	1.32	J	0.22	2.50	mg/Kg
Q2514-01	TP-92	SOIL	Arsenic	6.73		0.19	1.00	mg/Kg
Q2514-01	TP-92	SOIL	Barium	53.0		0.73	5.00	mg/Kg
Q2514-01	TP-92	SOIL	Beryllium	0.79		0.025	0.30	mg/Kg
Q2514-01	TP-92	SOIL	Calcium	180		11.1	99.9	mg/Kg
Q2514-01	TP-92	SOIL	Chromium	11.4		0.047	0.50	mg/Kg
Q2514-01	TP-92	SOIL	Cobalt	2.27		0.10	1.50	mg/Kg
Q2514-01	TP-92	SOIL	Copper	1.26		0.22	1.00	mg/Kg
Q2514-01	TP-92	SOIL	Iron	23500		3.99	5.00	mg/Kg
Q2514-01	TP-92	SOIL	Lead	11.9		0.13	0.60	mg/Kg
Q2514-01	TP-92	SOIL	Magnesium	353		12.0	99.9	mg/Kg
Q2514-01	TP-92	SOIL	Manganese	38.3		0.14	1.00	mg/Kg
Q2514-01	TP-92	SOIL	Mercury	0.021		0.0080	0.014	mg/Kg
Q2514-01	TP-92	SOIL	Nickel	4.82		0.13	2.00	mg/Kg
Q2514-01	TP-92	SOIL	Potassium	409		27.7	99.9	mg/Kg
Q2514-01	TP-92	SOIL	Selenium	6.28		0.26	1.00	mg/Kg
Q2514-01	TP-92	SOIL	Silver	0.19	J	0.12	0.50	mg/Kg
Q2514-01	TP-92	SOIL	Sodium	364		17.8	99.9	mg/Kg
Q2514-01	TP-92	SOIL	Vanadium	22.9		0.25	2.00	mg/Kg
Q2514-01	TP-92	SOIL	Zinc	21.7		0.11	2.00	mg/Kg
Client ID : TP-93								
Q2514-02	TP-93	SOIL	Aluminum	7940		0.84	5.02	mg/Kg
Q2514-02	TP-93	SOIL	Antimony	1.62	J	0.22	2.51	mg/Kg
Q2514-02	TP-93	SOIL	Arsenic	10.3		0.19	1.00	mg/Kg
Q2514-02	TP-93	SOIL	Barium	17.1		0.73	5.02	mg/Kg
Q2514-02	TP-93	SOIL	Beryllium	0.82		0.025	0.30	mg/Kg
Q2514-02	TP-93	SOIL	Calcium	383		11.2	100	mg/Kg
Q2514-02	TP-93	SOIL	Chromium	22.5		0.047	0.50	mg/Kg
Q2514-02	TP-93	SOIL	Cobalt	2.51		0.10	1.51	mg/Kg
Q2514-02	TP-93	SOIL	Copper	4.12		0.22	1.00	mg/Kg
Q2514-02	TP-93	SOIL	Iron	25400		4.01	5.02	mg/Kg
Q2514-02	TP-93	SOIL	Lead	11.0		0.13	0.60	mg/Kg
Q2514-02	TP-93	SOIL	Magnesium	388		12.1	100	mg/Kg
Q2514-02	TP-93	SOIL	Manganese	44.0		0.14	1.00	mg/Kg
Q2514-02	TP-93	SOIL	Mercury	0.022		0.0080	0.014	mg/Kg
Q2514-02	TP-93	SOIL	Nickel	5.06		0.13	2.01	mg/Kg

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Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2514-02	TP-93	SOIL	Potassium	337		27.8	100	mg/Kg
Q2514-02	TP-93	SOIL	Selenium	6.69		0.26	1.00	mg/Kg
Q2514-02	TP-93	SOIL	Silver	0.17	J	0.12	0.50	mg/Kg
Q2514-02	TP-93	SOIL	Sodium	707		17.9	100	mg/Kg
Q2514-02	TP-93	SOIL	Vanadium	40.1		0.25	2.01	mg/Kg
Q2514-02	TP-93	SOIL	Zinc	16.5		0.11	2.01	mg/Kg
Client ID : TP-94								
Q2514-03	TP-94	SOIL	Aluminum	9340		0.81	4.79	mg/Kg
Q2514-03	TP-94	SOIL	Antimony	1.43	J	0.21	2.39	mg/Kg
Q2514-03	TP-94	SOIL	Arsenic	9.25		0.18	0.96	mg/Kg
Q2514-03	TP-94	SOIL	Barium	22.9		0.70	4.79	mg/Kg
Q2514-03	TP-94	SOIL	Beryllium	0.80		0.024	0.29	mg/Kg
Q2514-03	TP-94	SOIL	Calcium	120		10.6	95.8	mg/Kg
Q2514-03	TP-94	SOIL	Chromium	17.2		0.045	0.48	mg/Kg
Q2514-03	TP-94	SOIL	Cobalt	3.41		0.096	1.44	mg/Kg
Q2514-03	TP-94	SOIL	Copper	4.08		0.21	0.96	mg/Kg
Q2514-03	TP-94	SOIL	Iron	23700		3.82	4.79	mg/Kg
Q2514-03	TP-94	SOIL	Lead	15.5		0.13	0.57	mg/Kg
Q2514-03	TP-94	SOIL	Magnesium	686		11.5	95.8	mg/Kg
Q2514-03	TP-94	SOIL	Manganese	51.5		0.13	0.96	mg/Kg
Q2514-03	TP-94	SOIL	Mercury	0.036		0.0080	0.014	mg/Kg
Q2514-03	TP-94	SOIL	Nickel	6.62		0.13	1.92	mg/Kg
Q2514-03	TP-94	SOIL	Potassium	373		26.5	95.8	mg/Kg
Q2514-03	TP-94	SOIL	Selenium	6.45		0.25	0.96	mg/Kg
Q2514-03	TP-94	SOIL	Sodium	245		17.1	95.8	mg/Kg
Q2514-03	TP-94	SOIL	Vanadium	35.4		0.24	1.92	mg/Kg
Q2514-03	TP-94	SOIL	Zinc	19.0		0.11	1.92	mg/Kg
Client ID : TP-96								
Q2514-04	TP-96	SOIL	Aluminum	11000		0.83	4.94	mg/Kg
Q2514-04	TP-96	SOIL	Antimony	1.54	J	0.22	2.47	mg/Kg
Q2514-04	TP-96	SOIL	Arsenic	10.5		0.19	0.99	mg/Kg
Q2514-04	TP-96	SOIL	Barium	23.6		0.72	4.94	mg/Kg
Q2514-04	TP-96	SOIL	Beryllium	0.86		0.025	0.30	mg/Kg
Q2514-04	TP-96	SOIL	Calcium	261		11.0	98.8	mg/Kg
Q2514-04	TP-96	SOIL	Chromium	20.3		0.046	0.49	mg/Kg
Q2514-04	TP-96	SOIL	Cobalt	2.91		0.099	1.48	mg/Kg
Q2514-04	TP-96	SOIL	Copper	3.65		0.22	0.99	mg/Kg
Q2514-04	TP-96	SOIL	Iron	24200		3.94	4.94	mg/Kg
Q2514-04	TP-96	SOIL	Lead	16.6		0.13	0.59	mg/Kg

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Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2514-04	TP-96	SOIL	Magnesium	592		11.9	98.8	mg/Kg
Q2514-04	TP-96	SOIL	Manganese	55.6		0.14	0.99	mg/Kg
Q2514-04	TP-96	SOIL	Mercury	0.046		0.0080	0.015	mg/Kg
Q2514-04	TP-96	SOIL	Nickel	6.27		0.13	1.98	mg/Kg
Q2514-04	TP-96	SOIL	Potassium	423		27.4	98.8	mg/Kg
Q2514-04	TP-96	SOIL	Selenium	6.74		0.26	0.99	mg/Kg
Q2514-04	TP-96	SOIL	Sodium	225		17.6	98.8	mg/Kg
Q2514-04	TP-96	SOIL	Vanadium	36.8		0.25	1.98	mg/Kg
Q2514-04	TP-96	SOIL	Zinc	19.3		0.11	1.98	mg/Kg
Client ID : TP-97								
Q2514-05	TP-97	SOIL	Aluminum	10500		0.81	4.80	mg/Kg
Q2514-05	TP-97	SOIL	Antimony	1.32	J	0.21	2.40	mg/Kg
Q2514-05	TP-97	SOIL	Arsenic	8.80		0.18	0.96	mg/Kg
Q2514-05	TP-97	SOIL	Barium	28.6		0.70	4.80	mg/Kg
Q2514-05	TP-97	SOIL	Beryllium	0.79		0.024	0.29	mg/Kg
Q2514-05	TP-97	SOIL	Calcium	240		10.7	96.0	mg/Kg
Q2514-05	TP-97	SOIL	Chromium	16.0		0.045	0.48	mg/Kg
Q2514-05	TP-97	SOIL	Cobalt	3.42		0.096	1.44	mg/Kg
Q2514-05	TP-97	SOIL	Copper	4.46		0.21	0.96	mg/Kg
Q2514-05	TP-97	SOIL	Iron	22200		3.83	4.80	mg/Kg
Q2514-05	TP-97	SOIL	Lead	14.1		0.13	0.58	mg/Kg
Q2514-05	TP-97	SOIL	Magnesium	706		11.5	96.0	mg/Kg
Q2514-05	TP-97	SOIL	Manganese	46.7		0.13	0.96	mg/Kg
Q2514-05	TP-97	SOIL	Mercury	0.029		0.0080	0.015	mg/Kg
Q2514-05	TP-97	SOIL	Nickel	6.81		0.13	1.92	mg/Kg
Q2514-05	TP-97	SOIL	Potassium	406		26.6	96.0	mg/Kg
Q2514-05	TP-97	SOIL	Selenium	6.10		0.25	0.96	mg/Kg
Q2514-05	TP-97	SOIL	Silver	0.12	J	0.12	0.48	mg/Kg
Q2514-05	TP-97	SOIL	Sodium	595		17.1	96.0	mg/Kg
Q2514-05	TP-97	SOIL	Vanadium	35.3		0.24	1.92	mg/Kg
Q2514-05	TP-97	SOIL	Zinc	18.0		0.11	1.92	mg/Kg
Client ID : TP-103								
Q2514-06	TP-103	SOIL	Aluminum	10200		0.89	5.30	mg/Kg
Q2514-06	TP-103	SOIL	Antimony	1.40	J	0.23	2.65	mg/Kg
Q2514-06	TP-103	SOIL	Arsenic	10.0		0.20	1.06	mg/Kg
Q2514-06	TP-103	SOIL	Barium	23.9		0.77	5.30	mg/Kg
Q2514-06	TP-103	SOIL	Beryllium	0.91		0.027	0.32	mg/Kg
Q2514-06	TP-103	SOIL	Cadmium	0.029	J	0.025	0.32	mg/Kg
Q2514-06	TP-103	SOIL	Calcium	531		11.8	106	mg/Kg

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Q2514-06	TP-103	SOIL	Chromium	21.8		0.050	0.53	mg/Kg
Q2514-06	TP-103	SOIL	Cobalt	3.97		0.11	1.59	mg/Kg
Q2514-06	TP-103	SOIL	Copper	3.51		0.23	1.06	mg/Kg
Q2514-06	TP-103	SOIL	Iron	26100		4.23	5.30	mg/Kg
Q2514-06	TP-103	SOIL	Lead	11.9		0.14	0.64	mg/Kg
Q2514-06	TP-103	SOIL	Magnesium	568		12.7	106	mg/Kg
Q2514-06	TP-103	SOIL	Manganese	61.9		0.15	1.06	mg/Kg
Q2514-06	TP-103	SOIL	Mercury	0.070		0.0080	0.014	mg/Kg
Q2514-06	TP-103	SOIL	Nickel	6.65		0.14	2.12	mg/Kg
Q2514-06	TP-103	SOIL	Potassium	282		29.4	106	mg/Kg
Q2514-06	TP-103	SOIL	Selenium	6.81		0.28	1.06	mg/Kg
Q2514-06	TP-103	SOIL	Sodium	288		18.9	106	mg/Kg
Q2514-06	TP-103	SOIL	Vanadium	38.3		0.27	2.12	mg/Kg
Q2514-06	TP-103	SOIL	Zinc	18.3		0.12	2.12	mg/Kg
Client ID : TP-36								
Q2514-07	TP-36	SOIL	Aluminum	8840		0.79	4.67	mg/Kg
Q2514-07	TP-36	SOIL	Antimony	1.28	J	0.21	2.34	mg/Kg
Q2514-07	TP-36	SOIL	Arsenic	6.18		0.18	0.94	mg/Kg
Q2514-07	TP-36	SOIL	Barium	9.64		0.68	4.67	mg/Kg
Q2514-07	TP-36	SOIL	Beryllium	0.88		0.023	0.28	mg/Kg
Q2514-07	TP-36	SOIL	Cadmium	0.052	J	0.022	0.28	mg/Kg
Q2514-07	TP-36	SOIL	Calcium	477		10.4	93.5	mg/Kg
Q2514-07	TP-36	SOIL	Chromium	16.1		0.044	0.47	mg/Kg
Q2514-07	TP-36	SOIL	Cobalt	1.87		0.093	1.40	mg/Kg
Q2514-07	TP-36	SOIL	Copper	0.79	J	0.21	0.94	mg/Kg
Q2514-07	TP-36	SOIL	Iron	20600		3.73	4.67	mg/Kg
Q2514-07	TP-36	SOIL	Lead	44.9		0.12	0.56	mg/Kg
Q2514-07	TP-36	SOIL	Magnesium	378		11.2	93.5	mg/Kg
Q2514-07	TP-36	SOIL	Manganese	14.6		0.13	0.94	mg/Kg
Q2514-07	TP-36	SOIL	Mercury	0.019		0.0080	0.015	mg/Kg
Q2514-07	TP-36	SOIL	Nickel	5.00		0.12	1.87	mg/Kg
Q2514-07	TP-36	SOIL	Potassium	980		25.9	93.5	mg/Kg
Q2514-07	TP-36	SOIL	Selenium	5.42		0.24	0.94	mg/Kg
Q2514-07	TP-36	SOIL	Sodium	249		16.6	93.5	mg/Kg
Q2514-07	TP-36	SOIL	Vanadium	40.8		0.23	1.87	mg/Kg
Q2514-07	TP-36	SOIL	Zinc	16.7		0.10	1.87	mg/Kg
Client ID : TP-78								
Q2514-08	TP-78	SOIL	Aluminum	6500		0.80	4.79	mg/Kg
Q2514-08	TP-78	SOIL	Antimony	1.41	J	0.21	2.39	mg/Kg

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Q2514-08	TP-78	SOIL	Arsenic	8.20		0.18	0.96	mg/Kg
Q2514-08	TP-78	SOIL	Barium	14.0		0.70	4.79	mg/Kg
Q2514-08	TP-78	SOIL	Beryllium	0.67		0.024	0.29	mg/Kg
Q2514-08	TP-78	SOIL	Calcium	137		10.6	95.8	mg/Kg
Q2514-08	TP-78	SOIL	Chromium	16.6		0.045	0.48	mg/Kg
Q2514-08	TP-78	SOIL	Cobalt	1.74		0.096	1.44	mg/Kg
Q2514-08	TP-78	SOIL	Copper	2.21		0.21	0.96	mg/Kg
Q2514-08	TP-78	SOIL	Iron	24500		3.82	4.79	mg/Kg
Q2514-08	TP-78	SOIL	Lead	8.24		0.12	0.57	mg/Kg
Q2514-08	TP-78	SOIL	Magnesium	489		11.5	95.8	mg/Kg
Q2514-08	TP-78	SOIL	Manganese	37.9		0.13	0.96	mg/Kg
Q2514-08	TP-78	SOIL	Mercury	0.030		0.0080	0.015	mg/Kg
Q2514-08	TP-78	SOIL	Nickel	4.32		0.12	1.92	mg/Kg
Q2514-08	TP-78	SOIL	Potassium	640		26.5	95.8	mg/Kg
Q2514-08	TP-78	SOIL	Selenium	6.57		0.25	0.96	mg/Kg
Q2514-08	TP-78	SOIL	Silver	0.12	J	0.12	0.48	mg/Kg
Q2514-08	TP-78	SOIL	Sodium	154		17.0	95.8	mg/Kg
Q2514-08	TP-78	SOIL	Vanadium	41.8		0.24	1.92	mg/Kg
Q2514-08	TP-78	SOIL	Zinc	15.7		0.11	1.92	mg/Kg
Client ID : TP-81								
Q2514-09	TP-81	SOIL	Aluminum	7770		0.90	5.34	mg/Kg
Q2514-09	TP-81	SOIL	Antimony	1.06	J	0.24	2.67	mg/Kg
Q2514-09	TP-81	SOIL	Arsenic	7.35		0.20	1.07	mg/Kg
Q2514-09	TP-81	SOIL	Barium	30.4		0.78	5.34	mg/Kg
Q2514-09	TP-81	SOIL	Beryllium	0.70		0.027	0.32	mg/Kg
Q2514-09	TP-81	SOIL	Cadmium	0.044	J	0.026	0.32	mg/Kg
Q2514-09	TP-81	SOIL	Calcium	579		11.9	107	mg/Kg
Q2514-09	TP-81	SOIL	Chromium	14.9		0.050	0.53	mg/Kg
Q2514-09	TP-81	SOIL	Cobalt	4.09		0.11	1.60	mg/Kg
Q2514-09	TP-81	SOIL	Copper	2.79		0.24	1.07	mg/Kg
Q2514-09	TP-81	SOIL	Iron	18000		4.26	5.34	mg/Kg
Q2514-09	TP-81	SOIL	Lead	11.4		0.14	0.64	mg/Kg
Q2514-09	TP-81	SOIL	Magnesium	649		12.8	107	mg/Kg
Q2514-09	TP-81	SOIL	Manganese	74.2		0.15	1.07	mg/Kg
Q2514-09	TP-81	SOIL	Mercury	0.035		0.0090	0.016	mg/Kg
Q2514-09	TP-81	SOIL	Nickel	6.57		0.14	2.14	mg/Kg
Q2514-09	TP-81	SOIL	Potassium	315		29.6	107	mg/Kg
Q2514-09	TP-81	SOIL	Selenium	5.01		0.28	1.07	mg/Kg
Q2514-09	TP-81	SOIL	Silver	0.20	J	0.13	0.53	mg/Kg
Q2514-09	TP-81	SOIL	Sodium	137		19.0	107	mg/Kg

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Q2514-09	TP-81	SOIL	Vanadium	27.2		0.27	2.14	mg/Kg
Q2514-09	TP-81	SOIL	Zinc	17.1		0.12	2.14	mg/Kg
Client ID : TP-90								
Q2514-10	TP-90	SOIL	Aluminum	4530		0.83	4.94	mg/Kg
Q2514-10	TP-90	SOIL	Antimony	1.58	J	0.22	2.47	mg/Kg
Q2514-10	TP-90	SOIL	Arsenic	2.83		0.19	0.99	mg/Kg
Q2514-10	TP-90	SOIL	Barium	9.66		0.72	4.94	mg/Kg
Q2514-10	TP-90	SOIL	Beryllium	0.28	J	0.025	0.30	mg/Kg
Q2514-10	TP-90	SOIL	Calcium	2560		11.0	98.8	mg/Kg
Q2514-10	TP-90	SOIL	Chromium	7.24		0.046	0.49	mg/Kg
Q2514-10	TP-90	SOIL	Cobalt	7.80		0.099	1.48	mg/Kg
Q2514-10	TP-90	SOIL	Copper	37.9		0.22	0.99	mg/Kg
Q2514-10	TP-90	SOIL	Iron	12900		3.94	4.94	mg/Kg
Q2514-10	TP-90	SOIL	Lead	5.60		0.13	0.59	mg/Kg
Q2514-10	TP-90	SOIL	Magnesium	3870		11.9	98.8	mg/Kg
Q2514-10	TP-90	SOIL	Manganese	108		0.14	0.99	mg/Kg
Q2514-10	TP-90	SOIL	Mercury	0.021		0.0080	0.014	mg/Kg
Q2514-10	TP-90	SOIL	Nickel	16.4		0.13	1.98	mg/Kg
Q2514-10	TP-90	SOIL	Potassium	155		27.4	98.8	mg/Kg
Q2514-10	TP-90	SOIL	Selenium	2.86		0.26	0.99	mg/Kg
Q2514-10	TP-90	SOIL	Silver	0.20	J	0.12	0.49	mg/Kg
Q2514-10	TP-90	SOIL	Sodium	682		17.6	98.8	mg/Kg
Q2514-10	TP-90	SOIL	Vanadium	24.8		0.25	1.98	mg/Kg
Q2514-10	TP-90	SOIL	Zinc	15.5		0.11	1.98	mg/Kg