

Hit Summary Sheet SW-846

SDG No.: Q2458

Order ID: Q2458

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-76								
Q2458-01	TP-76	SOIL	Aluminum	9480		0.85	5.06	mg/Kg
Q2458-01	TP-76	SOIL	Arsenic	3.70		0.19	1.01	mg/Kg
Q2458-01	TP-76	SOIL	Barium	27.9		0.74	5.06	mg/Kg
Q2458-01	TP-76	SOIL	Beryllium	0.42		0.025	0.30	mg/Kg
Q2458-01	TP-76	SOIL	Calcium	331		11.2	101	mg/Kg
Q2458-01	TP-76	SOIL	Chromium	6.84		0.048	0.51	mg/Kg
Q2458-01	TP-76	SOIL	Cobalt	2.49		0.10	1.52	mg/Kg
Q2458-01	TP-76	SOIL	Copper	4.94		0.22	1.01	mg/Kg
Q2458-01	TP-76	SOIL	Iron	12500		4.04	5.06	mg/Kg
Q2458-01	TP-76	SOIL	Lead	22.7		0.13	0.61	mg/Kg
Q2458-01	TP-76	SOIL	Magnesium	247		12.2	101	mg/Kg
Q2458-01	TP-76	SOIL	Manganese	24.9		0.14	1.01	mg/Kg
Q2458-01	TP-76	SOIL	Mercury	0.010	J	0.0080	0.014	mg/Kg
Q2458-01	TP-76	SOIL	Nickel	4.26		0.13	2.03	mg/Kg
Q2458-01	TP-76	SOIL	Potassium	247		28.0	101	mg/Kg
Q2458-01	TP-76	SOIL	Selenium	0.79	J	0.26	1.01	mg/Kg
Q2458-01	TP-76	SOIL	Sodium	767		18.0	101	mg/Kg
Q2458-01	TP-76	SOIL	Vanadium	17.6		0.25	2.03	mg/Kg
Q2458-01	TP-76	SOIL	Zinc	15.8		0.23	2.03	mg/Kg
Client ID : TP-55								
Q2458-02	TP-55	SOIL	Aluminum	5480		0.74	4.43	mg/Kg
Q2458-02	TP-55	SOIL	Arsenic	3.37		0.17	0.89	mg/Kg
Q2458-02	TP-55	SOIL	Barium	19.8		0.65	4.43	mg/Kg
Q2458-02	TP-55	SOIL	Beryllium	0.46		0.022	0.27	mg/Kg
Q2458-02	TP-55	SOIL	Calcium	999		9.83	88.6	mg/Kg
Q2458-02	TP-55	SOIL	Chromium	8.61		0.042	0.44	mg/Kg
Q2458-02	TP-55	SOIL	Cobalt	4.17		0.089	1.33	mg/Kg
Q2458-02	TP-55	SOIL	Copper	22.1		0.20	0.89	mg/Kg
Q2458-02	TP-55	SOIL	Iron	15800		3.53	4.43	mg/Kg
Q2458-02	TP-55	SOIL	Lead	9.31		0.12	0.53	mg/Kg
Q2458-02	TP-55	SOIL	Magnesium	731		10.6	88.6	mg/Kg
Q2458-02	TP-55	SOIL	Manganese	51.6		0.12	0.89	mg/Kg
Q2458-02	TP-55	SOIL	Mercury	0.0080	J	0.0080	0.014	mg/Kg
Q2458-02	TP-55	SOIL	Nickel	6.64		0.12	1.77	mg/Kg
Q2458-02	TP-55	SOIL	Potassium	270		24.5	88.6	mg/Kg
Q2458-02	TP-55	SOIL	Selenium	3.83		0.23	0.89	mg/Kg
Q2458-02	TP-55	SOIL	Silver	0.47		0.11	0.44	mg/Kg

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Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2458-02	TP-55	SOIL	Sodium	358		15.8	88.6	mg/Kg
Q2458-02	TP-55	SOIL	Vanadium	20.8		0.22	1.77	mg/Kg
Q2458-02	TP-55	SOIL	Zinc	32.0		0.20	1.77	mg/Kg
Client ID : TP-68								
Q2458-03	TP-68	SOIL	Aluminum	4030		0.83	4.92	mg/Kg
Q2458-03	TP-68	SOIL	Arsenic	1.61		0.19	0.99	mg/Kg
Q2458-03	TP-68	SOIL	Barium	7.39		0.72	4.92	mg/Kg
Q2458-03	TP-68	SOIL	Beryllium	0.13	J	0.025	0.30	mg/Kg
Q2458-03	TP-68	SOIL	Calcium	1990		10.9	98.5	mg/Kg
Q2458-03	TP-68	SOIL	Chromium	9.01		0.046	0.49	mg/Kg
Q2458-03	TP-68	SOIL	Cobalt	4.51		0.098	1.48	mg/Kg
Q2458-03	TP-68	SOIL	Copper	45.1		0.22	0.99	mg/Kg
Q2458-03	TP-68	SOIL	Iron	9290		3.93	4.92	mg/Kg
Q2458-03	TP-68	SOIL	Lead	5.32		0.13	0.59	mg/Kg
Q2458-03	TP-68	SOIL	Magnesium	2200		11.8	98.5	mg/Kg
Q2458-03	TP-68	SOIL	Manganese	65.0		0.14	0.99	mg/Kg
Q2458-03	TP-68	SOIL	Mercury	0.050		0.0070	0.013	mg/Kg
Q2458-03	TP-68	SOIL	Nickel	9.84		0.13	1.97	mg/Kg
Q2458-03	TP-68	SOIL	Potassium	521		27.3	98.5	mg/Kg
Q2458-03	TP-68	SOIL	Selenium	2.38		0.26	0.99	mg/Kg
Q2458-03	TP-68	SOIL	Silver	0.37	J	0.12	0.49	mg/Kg
Q2458-03	TP-68	SOIL	Sodium	582		17.5	98.5	mg/Kg
Q2458-03	TP-68	SOIL	Vanadium	20.1		0.25	1.97	mg/Kg
Q2458-03	TP-68	SOIL	Zinc	12.9		0.23	1.97	mg/Kg
Client ID : TP-67								
Q2458-04	TP-67	SOIL	Aluminum	3970		0.85	5.04	mg/Kg
Q2458-04	TP-67	SOIL	Arsenic	5.78		0.19	1.01	mg/Kg
Q2458-04	TP-67	SOIL	Barium	6.65		0.74	5.04	mg/Kg
Q2458-04	TP-67	SOIL	Beryllium	0.47		0.025	0.30	mg/Kg
Q2458-04	TP-67	SOIL	Calcium	443		11.2	101	mg/Kg
Q2458-04	TP-67	SOIL	Chromium	20.2		0.047	0.50	mg/Kg
Q2458-04	TP-67	SOIL	Cobalt	1.89		0.10	1.51	mg/Kg
Q2458-04	TP-67	SOIL	Copper	25.4		0.22	1.01	mg/Kg
Q2458-04	TP-67	SOIL	Iron	27900		4.03	5.04	mg/Kg
Q2458-04	TP-67	SOIL	Lead	8.85		0.13	0.61	mg/Kg
Q2458-04	TP-67	SOIL	Magnesium	241		12.1	101	mg/Kg
Q2458-04	TP-67	SOIL	Manganese	34.8		0.14	1.01	mg/Kg
Q2458-04	TP-67	SOIL	Mercury	0.016		0.0080	0.014	mg/Kg
Q2458-04	TP-67	SOIL	Nickel	3.55		0.13	2.02	mg/Kg

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Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2458-04	TP-67	SOIL	Potassium	274		27.9	101	mg/Kg
Q2458-04	TP-67	SOIL	Selenium	6.91		0.26	1.01	mg/Kg
Q2458-04	TP-67	SOIL	Silver	0.83		0.12	0.50	mg/Kg
Q2458-04	TP-67	SOIL	Sodium	31.5	J	18.0	101	mg/Kg
Q2458-04	TP-67	SOIL	Thallium	0.64	J	0.23	2.02	mg/Kg
Q2458-04	TP-67	SOIL	Vanadium	22.2		0.25	2.02	mg/Kg
Q2458-04	TP-67	SOIL	Zinc	15.8		0.23	2.02	mg/Kg
Client ID : TP-66								
Q2458-05	TP-66	SOIL	Aluminum	2430		0.91	5.39	mg/Kg
Q2458-05	TP-66	SOIL	Arsenic	5.43		0.21	1.08	mg/Kg
Q2458-05	TP-66	SOIL	Barium	9.75		0.79	5.39	mg/Kg
Q2458-05	TP-66	SOIL	Beryllium	0.37		0.027	0.32	mg/Kg
Q2458-05	TP-66	SOIL	Calcium	598		12.0	108	mg/Kg
Q2458-05	TP-66	SOIL	Chromium	9.03		0.051	0.54	mg/Kg
Q2458-05	TP-66	SOIL	Cobalt	1.06	J	0.11	1.62	mg/Kg
Q2458-05	TP-66	SOIL	Copper	23.2		0.24	1.08	mg/Kg
Q2458-05	TP-66	SOIL	Iron	21800		4.30	5.39	mg/Kg
Q2458-05	TP-66	SOIL	Lead	16.8		0.14	0.65	mg/Kg
Q2458-05	TP-66	SOIL	Magnesium	258		12.9	108	mg/Kg
Q2458-05	TP-66	SOIL	Manganese	54.0		0.15	1.08	mg/Kg
Q2458-05	TP-66	SOIL	Mercury	0.016		0.0080	0.014	mg/Kg
Q2458-05	TP-66	SOIL	Nickel	2.15	J	0.14	2.16	mg/Kg
Q2458-05	TP-66	SOIL	Potassium	403		29.9	108	mg/Kg
Q2458-05	TP-66	SOIL	Selenium	5.20		0.28	1.08	mg/Kg
Q2458-05	TP-66	SOIL	Silver	0.64		0.13	0.54	mg/Kg
Q2458-05	TP-66	SOIL	Sodium	195		19.2	108	mg/Kg
Q2458-05	TP-66	SOIL	Thallium	0.39	J	0.25	2.16	mg/Kg
Q2458-05	TP-66	SOIL	Vanadium	19.5		0.27	2.16	mg/Kg
Q2458-05	TP-66	SOIL	Zinc	16.6		0.25	2.16	mg/Kg
Client ID : TP-60								
Q2458-06	TP-60	SOIL	Aluminum	4300		0.80	4.78	mg/Kg
Q2458-06	TP-60	SOIL	Arsenic	9.45		0.18	0.96	mg/Kg
Q2458-06	TP-60	SOIL	Barium	13.1		0.70	4.78	mg/Kg
Q2458-06	TP-60	SOIL	Beryllium	0.75		0.024	0.29	mg/Kg
Q2458-06	TP-60	SOIL	Calcium	1190		10.6	95.7	mg/Kg
Q2458-06	TP-60	SOIL	Chromium	29.6		0.045	0.48	mg/Kg
Q2458-06	TP-60	SOIL	Cobalt	2.92		0.096	1.44	mg/Kg
Q2458-06	TP-60	SOIL	Copper	35.2		0.21	0.96	mg/Kg
Q2458-06	TP-60	SOIL	Iron	31500		3.82	4.78	mg/Kg

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Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2458-06	TP-60	SOIL	Lead	23.4		0.12	0.57	mg/Kg
Q2458-06	TP-60	SOIL	Magnesium	678		11.5	95.7	mg/Kg
Q2458-06	TP-60	SOIL	Manganese	43.3		0.13	0.96	mg/Kg
Q2458-06	TP-60	SOIL	Mercury	0.036		0.0070	0.013	mg/Kg
Q2458-06	TP-60	SOIL	Nickel	5.05		0.12	1.91	mg/Kg
Q2458-06	TP-60	SOIL	Potassium	441		26.5	95.7	mg/Kg
Q2458-06	TP-60	SOIL	Selenium	7.12		0.25	0.96	mg/Kg
Q2458-06	TP-60	SOIL	Silver	0.78		0.12	0.48	mg/Kg
Q2458-06	TP-60	SOIL	Sodium	88.5	J	17.0	95.7	mg/Kg
Q2458-06	TP-60	SOIL	Thallium	0.35	J	0.22	1.91	mg/Kg
Q2458-06	TP-60	SOIL	Vanadium	33.7		0.24	1.91	mg/Kg
Q2458-06	TP-60	SOIL	Zinc	33.4		0.22	1.91	mg/Kg
Client ID : TP-62								
Q2458-07	TP-62	SOIL	Aluminum	3670		0.86	5.13	mg/Kg
Q2458-07	TP-62	SOIL	Arsenic	5.46		0.20	1.03	mg/Kg
Q2458-07	TP-62	SOIL	Barium	19.8		0.75	5.13	mg/Kg
Q2458-07	TP-62	SOIL	Beryllium	0.35		0.026	0.31	mg/Kg
Q2458-07	TP-62	SOIL	Calcium	14600		11.4	103	mg/Kg
Q2458-07	TP-62	SOIL	Chromium	9.01		0.048	0.51	mg/Kg
Q2458-07	TP-62	SOIL	Cobalt	2.15		0.10	1.54	mg/Kg
Q2458-07	TP-62	SOIL	Copper	28.5		0.23	1.03	mg/Kg
Q2458-07	TP-62	SOIL	Iron	22800		4.09	5.13	mg/Kg
Q2458-07	TP-62	SOIL	Lead	24.6		0.13	0.62	mg/Kg
Q2458-07	TP-62	SOIL	Magnesium	4670		12.3	103	mg/Kg
Q2458-07	TP-62	SOIL	Manganese	46.3		0.14	1.03	mg/Kg
Q2458-07	TP-62	SOIL	Mercury	0.025		0.0080	0.014	mg/Kg
Q2458-07	TP-62	SOIL	Nickel	3.89		0.13	2.05	mg/Kg
Q2458-07	TP-62	SOIL	Potassium	469		28.4	103	mg/Kg
Q2458-07	TP-62	SOIL	Selenium	5.15		0.27	1.03	mg/Kg
Q2458-07	TP-62	SOIL	Silver	0.69		0.12	0.51	mg/Kg
Q2458-07	TP-62	SOIL	Sodium	789		18.3	103	mg/Kg
Q2458-07	TP-62	SOIL	Vanadium	23.2		0.26	2.05	mg/Kg
Q2458-07	TP-62	SOIL	Zinc	21.6		0.24	2.05	mg/Kg
Client ID : TP-63								
Q2458-08	TP-63	SOIL	Aluminum	6130		0.88	5.26	mg/Kg
Q2458-08	TP-63	SOIL	Arsenic	4.81		0.20	1.05	mg/Kg
Q2458-08	TP-63	SOIL	Barium	15.0		0.77	5.26	mg/Kg
Q2458-08	TP-63	SOIL	Beryllium	0.50		0.026	0.32	mg/Kg
Q2458-08	TP-63	SOIL	Calcium	4590		11.7	105	mg/Kg

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Q2458-08	TP-63	SOIL	Chromium	11.4		0.049	0.53	mg/Kg
Q2458-08	TP-63	SOIL	Cobalt	3.45		0.11	1.58	mg/Kg
Q2458-08	TP-63	SOIL	Copper	23.6		0.23	1.05	mg/Kg
Q2458-08	TP-63	SOIL	Iron	19500		4.20	5.26	mg/Kg
Q2458-08	TP-63	SOIL	Lead	26.5		0.14	0.63	mg/Kg
Q2458-08	TP-63	SOIL	Magnesium	1370		12.6	105	mg/Kg
Q2458-08	TP-63	SOIL	Manganese	58.3		0.15	1.05	mg/Kg
Q2458-08	TP-63	SOIL	Mercury	0.042		0.0090	0.015	mg/Kg
Q2458-08	TP-63	SOIL	Nickel	6.26		0.14	2.10	mg/Kg
Q2458-08	TP-63	SOIL	Potassium	409		29.1	105	mg/Kg
Q2458-08	TP-63	SOIL	Selenium	4.96		0.27	1.05	mg/Kg
Q2458-08	TP-63	SOIL	Silver	0.88		0.13	0.53	mg/Kg
Q2458-08	TP-63	SOIL	Sodium	460		18.7	105	mg/Kg
Q2458-08	TP-63	SOIL	Vanadium	25.0		0.26	2.10	mg/Kg
Q2458-08	TP-63	SOIL	Zinc	25.6		0.24	2.10	mg/Kg
Client ID : TP-59								
Q2458-09	TP-59	SOIL	Aluminum	3850		0.97	5.78	mg/Kg
Q2458-09	TP-59	SOIL	Arsenic	4.05		0.22	1.16	mg/Kg
Q2458-09	TP-59	SOIL	Barium	24.2		0.84	5.78	mg/Kg
Q2458-09	TP-59	SOIL	Beryllium	0.35		0.029	0.35	mg/Kg
Q2458-09	TP-59	SOIL	Calcium	1970		12.8	116	mg/Kg
Q2458-09	TP-59	SOIL	Chromium	7.63		0.054	0.58	mg/Kg
Q2458-09	TP-59	SOIL	Cobalt	1.40	J	0.12	1.73	mg/Kg
Q2458-09	TP-59	SOIL	Copper	32.0		0.25	1.16	mg/Kg
Q2458-09	TP-59	SOIL	Iron	23200		4.61	5.78	mg/Kg
Q2458-09	TP-59	SOIL	Lead	62.4		0.15	0.69	mg/Kg
Q2458-09	TP-59	SOIL	Magnesium	385		13.9	116	mg/Kg
Q2458-09	TP-59	SOIL	Manganese	78.7		0.16	1.16	mg/Kg
Q2458-09	TP-59	SOIL	Mercury	0.090		0.010	0.018	mg/Kg
Q2458-09	TP-59	SOIL	Nickel	3.71		0.15	2.31	mg/Kg
Q2458-09	TP-59	SOIL	Potassium	503		32.0	116	mg/Kg
Q2458-09	TP-59	SOIL	Selenium	5.64		0.30	1.16	mg/Kg
Q2458-09	TP-59	SOIL	Silver	1.02		0.14	0.58	mg/Kg
Q2458-09	TP-59	SOIL	Sodium	173		20.6	116	mg/Kg
Q2458-09	TP-59	SOIL	Thallium	0.53	J	0.27	2.31	mg/Kg
Q2458-09	TP-59	SOIL	Vanadium	17.2		0.29	2.31	mg/Kg
Q2458-09	TP-59	SOIL	Zinc	35.6		0.27	2.31	mg/Kg