

ANALYTICAL RESULTS SUMMARY

METALS
GC SEMI-VOLATILES
SEMI-VOLATILE ORGANICS
VOLATILE ORGANICS

PROJECT NAME : SOUTH RIVER WM REPLACEMENT

CDM SMITH

110 Fieldcrest Ave

Raritan Center

Edison, NJ - 08837

Phone No: 732-225-7000

ORDER ID : Q2413

ATTENTION : Marcie Ann Encinas



Laboratory Certification ID # 20012



Hit Summary Sheet
SW-846

SDG No.: Q2413
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: Q2413-01	TP-35 TP-35	SOIL	Toluene	2.50	J	0.67	4.30	ug/Kg
			Total Voc :	2.50				
			Total Concentration:	2.50				
Client ID: Q2413-02	TP-34 TP-34	SOIL	Methylene Chloride	6.50	J	2.90	8.20	ug/Kg
			Total Voc :	6.50				
Q2413-02	TP-34	SOIL	Naphthalene, 2-ethenyl-	* 6.80	J	0	0	ug/Kg
			Total Tics :	6.80				
			Total Concentration:	13.3				
Client ID: Q2413-03	TP-77 TP-77	SOIL	Methylene Chloride	5.10	J	3.30	9.20	ug/Kg
			Total Voc :	5.10				
			Total Concentration:	5.10				
Client ID: Q2413-04	TP-74 TP-74	SOIL	Methylene Chloride	5.60	J	3.00	8.60	ug/Kg
			Total Voc :	5.60				
			Total Concentration:	5.60				
Client ID: Q2413-05	TP-73 TP-73	SOIL	Acetone	120		4.90	26.1	ug/Kg
Q2413-05	TP-73	SOIL	Methylene Chloride	8.20	J	3.70	10.4	ug/Kg
Q2413-05	TP-73	SOIL	2-Butanone	19.3	J	6.80	26.1	ug/Kg
			Total Voc :	148				
			Total Concentration:	148				
Client ID: Q2413-06	TP-72 TP-72	SOIL	Methylene Chloride	6.20	J	3.10	8.80	ug/Kg
Q2413-06	TP-72	SOIL	Methylcyclohexane	13.8		0.80	4.40	ug/Kg
Q2413-06	TP-72	SOIL	m/p-Xylenes	3.40	J	1.10	8.80	ug/Kg
Q2413-06	TP-72	SOIL	o-Xylene	2.00	J	0.72	4.40	ug/Kg
			Total Voc :	25.4				
Q2413-06	TP-72	SOIL	Octane	* 37.8	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	Heptane, 3-methyl-	* 21.4	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	2-Acetylcyclopentanone	* 66.8	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	Cyclohexane, ethyl-	* 33.7	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	Cyclohexane, 1,3,5-trimethyl-	* 21.6	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	Cyclohexane, 1,2-dimethyl-, cis	* 22.6	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	Cyclohexane, 1,3-dimethyl-, trans	* 45.0	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	Octane, 3-methyl-	* 22.7	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	Cyclohexane, 1,1,3-trimethyl-	* 21.8	J	0	0	ug/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2413

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2413-06	TP-72	SOIL	Cyclohexane, 1,2-dimethyl-, tr	* 29.5	J	0	0	ug/Kg
Q2413-06	TP-72	SOIL	1,2,4-Trimethylbenzene	* 1.10	J	0.56	4.40	ug/Kg
Total Tics :				324				
Total Concentration:				349				

Hit Summary Sheet SW-846

SDG No.: Q2413
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-35								
Q2413-01	TP-35	SOIL	Phenanthrene	160.000	J	23.5	190	ug/Kg
Q2413-01	TP-35	SOIL	Fluoranthene	440.000		33.7	190	ug/Kg
Q2413-01	TP-35	SOIL	Pyrene	250.000		40.4	190	ug/Kg
Q2413-01	TP-35	SOIL	Benzo(a)anthracene	250.000		25.8	190	ug/Kg
Q2413-01	TP-35	SOIL	Chrysene	220.000		22.4	190	ug/Kg
Q2413-01	TP-35	SOIL	Benzo(b)fluoranthene	320.000		21.3	190	ug/Kg
Q2413-01	TP-35	SOIL	Benzo(k)fluoranthene	130.000	J	25.2	190	ug/Kg
Q2413-01	TP-35	SOIL	Benzo(a)pyrene	220.000		33.1	190	ug/Kg
Q2413-01	TP-35	SOIL	Indeno(1,2,3-cd)pyrene	83.100	J	32.7	190	ug/Kg
Q2413-01	TP-35	SOIL	Benzo(g,h,i)perylene	85.000	J	28.9	190	ug/Kg
Total Svoc :				2,158.10				
Q2413-01	TP-35	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	230.000	A	0	0	ug/Kg
Q2413-01	TP-35	SOIL	Benzo[e]pyrene *	160.000	J	0	0	ug/Kg
Q2413-01	TP-35	SOIL	Benzophenone *	260.000	J	0	0	ug/Kg
Q2413-01	TP-35	SOIL	n-Hexadecanoic acid *	140.000	J	0	0	ug/Kg
Q2413-01	TP-35	SOIL	Pentafluoropropionic acid, heptad *	110.000	J	0	0	ug/Kg
Total Tics :				900.00				
Total Concentration:				3,058.10				
Client ID : TP-34								
Q2413-02	TP-34	SOIL	Fluoranthene	130.000	J	32.6	180	ug/Kg
Q2413-02	TP-34	SOIL	Pyrene	75.500	J	39.1	180	ug/Kg
Q2413-02	TP-34	SOIL	Benzo(a)anthracene	100.000	J	25	180	ug/Kg
Q2413-02	TP-34	SOIL	Chrysene	83.400	J	21.6	180	ug/Kg
Q2413-02	TP-34	SOIL	Benzo(b)fluoranthene	200.000		20.6	180	ug/Kg
Q2413-02	TP-34	SOIL	Benzo(a)pyrene	120.000	J	32	180	ug/Kg
Total Svoc :				708.90				
Q2413-02	TP-34	SOIL	Benzo[e]pyrene *	96.300	J	0	0	ug/Kg
Q2413-02	TP-34	SOIL	Benzophenone *	260.000	J	0	0	ug/Kg
Q2413-02	TP-34	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	230.000	A	0	0	ug/Kg
Q2413-02	TP-34	SOIL	Trifluoroacetoxy hexadecane *	120.000	J	0	0	ug/Kg
Q2413-02	TP-34	SOIL	n-Hexadecanoic acid *	130.000	J	0	0	ug/Kg
Total Tics :				836.30				
Total Concentration:				1,545.20				
Client ID : TP-77								
Q2413-03	TP-77	SOIL	Fluoranthene	75.700	J	32.7	190	ug/Kg
Total Svoc :				75.70				
Q2413-03	TP-77	SOIL	n-Hexadecanoic acid *	150.000	J	0	0	ug/Kg

Hit Summary Sheet

SW-846

SDG No.: Q2413

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units	
Q2413-03	TP-77	SOIL	1-Hexacosene	*	140.000	J	0	0	ug/Kg
Q2413-03	TP-77	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	230.000	A	0	0	ug/Kg
Q2413-03	TP-77	SOIL	Benzo[j]fluoranthene	*	110.000	J	0	0	ug/Kg
Q2413-03	TP-77	SOIL	Benzophenone	*	280.000	J	0	0	ug/Kg
Total Tics :					910.00				
Total Concentration:					985.70				

Client ID : TP-74

Q2413-04	TP-74	SOIL	Fluoranthene	79.000	J	33.5	190	ug/Kg
Q2413-04	TP-74	SOIL	Benzo(b)fluoranthene	76.400	J	21.2	190	ug/Kg
Total Svoc :				155.40				
Q2413-04	TP-74	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	210.000	A	0	0	ug/Kg
Q2413-04	TP-74	SOIL	n-Hexadecanoic acid *	110.000	J	0	0	ug/Kg
Q2413-04	TP-74	SOIL	Trifluoroacetic acid, pentadecyl e *	90.700	J	0	0	ug/Kg
Q2413-04	TP-74	SOIL	Benzophenone *	250.000	J	0	0	ug/Kg
Total Tics :				660.70				
Total Concentration:				816.10				

Client ID : TP-73

Q2413-05	TP-73	SOIL	Diethylphthalate	130.000	J	36.7	220	ug/Kg
Total Svoc :				130.00				
Q2413-05	TP-73	SOIL	1,2,4,8-Tetramethylbicyclo[6.3.0]l *	260.000	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	270.000	A	0	0	ug/Kg
Q2413-05	TP-73	SOIL	7,9-Di-tert-butyl-1-oxaspiro(4,5)d *	90.700	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	Aromandendrene *	220.000	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	Benzophenone *	350.000	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	Cyclopentadecane *	120.000	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	n-Hexadecanoic acid *	480.000	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	Octacosane *	160.000	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	Octacosanol *	170.000	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	Octadecanal *	98.500	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	Octadecanoic acid *	120.000	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	Octadecyl trifluoroacetate *	440.000	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	Oxirane, heptadecyl- *	91.600	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	Pentadecafluorooctanoic acid, octa *	540.000	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	Tetratetracontane *	180.000	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	unknown17.645 *	110.000	J	0	0	ug/Kg
Q2413-05	TP-73	SOIL	unknown17.727 *	170.000	J	0	0	ug/Kg
Total Tics :				3,870.80				
Total Concentration:				4,000.80				

Client ID : TP-72

Hit Summary Sheet
SW-846

SDG No.: Q2413
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2413-06	TP-72	SOIL	11-Methyltricosane	*	250.000	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	1-Ethyl-4-methylcyclohexane	*	100.000	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	330.000	A 0	0	ug/Kg
Q2413-06	TP-72	SOIL	5-Eicosene, (E)-	*	290.000	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Benzophenone	*	320.000	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	cis-3-Nonene	*	90.400	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Cyclohexane, 1,2,4-trimethyl-	*	87.300	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Cyclohexane, 1,2,4-trimethyl-, (1.	*	130.000	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Cyclohexane, 1,2-dimethyl-, trans	*	78.100	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Cyclohexane, 1,3,5-trimethyl-, (1.	*	150.000	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Cyclohexane, 1-ethyl-2-methyl-	*	120.000	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Docosane	*	200.000	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Heptadecane	*	93.800	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Hexacosane	*	150.000	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	n-Hexadecanoic acid	*	170.000	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Nonadecane	*	120.000	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Nonane	*	160.000	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Octadecane	*	83.100	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Tricosane	*	230.000	J 0	0	ug/Kg
Q2413-06	TP-72	SOIL	Tridecane	*	92.700	J 0	0	ug/Kg

Total Tics : 3,245.40

Total Concentration: 3,245.40

Hit Summary Sheet
SW-846

SDG No.: Q2413

Order ID: Q2413

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-34								
Q2413-02	TP-34	SOIL	beta-BHC	0.39	JP	0.20	1.80	ug/kg
Q2413-02	TP-34	SOIL	alpha-Chlordane	1.20	JP	0.13	1.80	ug/kg
Q2413-02	TP-34	SOIL	gamma-Chlordane	0.78	JP	0.16	1.80	ug/kg
Total Concentration:				2.370				
Client ID : TP-77								
Q2413-03	TP-77	SOIL	Endrin	0.26	JP	0.15	1.90	ug/kg
Total Concentration:				0.260				
Client ID : TP-74								
Q2413-04	TP-74	SOIL	4,4-DDE	0.37	JP	0.16	1.90	ug/kg
Q2413-04	TP-74	SOIL	4,4-DDT	0.43	JP	0.16	1.90	ug/kg
Total Concentration:				0.800				
Client ID : TP-73								
Q2413-05	TP-73	SOIL	4,4-DDD	0.29	J	0.19	2.20	ug/kg
Total Concentration:				0.290				



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

Hit Summary Sheet
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SDG No.: Q2413

Order ID: Q2413

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
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Client ID :

Total Concentration: 0.000



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

Hit Summary Sheet
SW-846

SDG No.: Q2413

Order ID: Q2413

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
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Client ID :

Total Concentration: 0.000

Hit Summary Sheet
SW-846

SDG No.: Q2413

Order ID: Q2413

Client: CDM Smith

Project ID: South River WM Replacement

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

Hit Summary Sheet
SW-846

SDG No.: Q2413

Order ID: Q2413

Client: CDM Smith

Project ID: South River WM Replacement

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

Hit Summary Sheet
SW-846

SDG No.: Q2413

Order ID: Q2413

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2413-04	TP-74	SOIL	Lead	9.20		0.14	0.64	mg/Kg
Q2413-04	TP-74	SOIL	Magnesium	272		12.8	106	mg/Kg
Q2413-04	TP-74	SOIL	Manganese	76.2		0.15	1.06	mg/Kg
Q2413-04	TP-74	SOIL	Mercury	0.012	J	0.0090	0.015	mg/Kg
Q2413-04	TP-74	SOIL	Nickel	5.54		0.14	2.13	mg/Kg
Q2413-04	TP-74	SOIL	Potassium	560		29.5	106	mg/Kg
Q2413-04	TP-74	SOIL	Selenium	7.99		0.28	1.06	mg/Kg
Q2413-04	TP-74	SOIL	Silver	0.59		0.13	0.53	mg/Kg
Q2413-04	TP-74	SOIL	Sodium	428		18.9	106	mg/Kg
Q2413-04	TP-74	SOIL	Vanadium	20.5		0.27	2.13	mg/Kg
Q2413-04	TP-74	SOIL	Zinc	20.7		0.12	2.13	mg/Kg
Client ID : TP-73								
Q2413-05	TP-73	SOIL	Aluminum	3080		1.00	5.95	mg/Kg
Q2413-05	TP-73	SOIL	Antimony	0.36	J	0.26	2.97	mg/Kg
Q2413-05	TP-73	SOIL	Arsenic	1.76		0.23	1.19	mg/Kg
Q2413-05	TP-73	SOIL	Barium	35.7		0.87	5.95	mg/Kg
Q2413-05	TP-73	SOIL	Beryllium	0.28	J	0.030	0.36	mg/Kg
Q2413-05	TP-73	SOIL	Calcium	171		13.2	119	mg/Kg
Q2413-05	TP-73	SOIL	Chromium	3.79		0.056	0.60	mg/Kg
Q2413-05	TP-73	SOIL	Cobalt	0.36	J	0.12	1.78	mg/Kg
Q2413-05	TP-73	SOIL	Copper	2.91		0.26	1.19	mg/Kg
Q2413-05	TP-73	SOIL	Iron	3620		4.75	5.95	mg/Kg
Q2413-05	TP-73	SOIL	Lead	9.44		0.16	0.71	mg/Kg
Q2413-05	TP-73	SOIL	Magnesium	104	J	14.3	119	mg/Kg
Q2413-05	TP-73	SOIL	Manganese	5.60		0.17	1.19	mg/Kg
Q2413-05	TP-73	SOIL	Mercury	0.026		0.0090	0.016	mg/Kg
Q2413-05	TP-73	SOIL	Nickel	1.24	J	0.16	2.38	mg/Kg
Q2413-05	TP-73	SOIL	Potassium	170		33.0	119	mg/Kg
Q2413-05	TP-73	SOIL	Selenium	1.38		0.31	1.19	mg/Kg
Q2413-05	TP-73	SOIL	Sodium	165		21.2	119	mg/Kg
Q2413-05	TP-73	SOIL	Vanadium	6.06		0.30	2.38	mg/Kg
Q2413-05	TP-73	SOIL	Zinc	5.43		0.13	2.38	mg/Kg
Client ID : TP-72								
Q2413-06	TP-72	SOIL	Aluminum	4570		0.89	5.32	mg/Kg
Q2413-06	TP-72	SOIL	Antimony	0.79	J	0.23	2.66	mg/Kg
Q2413-06	TP-72	SOIL	Arsenic	6.60		0.20	1.06	mg/Kg
Q2413-06	TP-72	SOIL	Barium	22.4		0.78	5.32	mg/Kg
Q2413-06	TP-72	SOIL	Beryllium	0.57		0.027	0.32	mg/Kg
Q2413-06	TP-72	SOIL	Calcium	371		11.8	106	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2413

Order ID: Q2413

Client: CDM Smith

Project ID: South River WM Replacement

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