

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 : Q2074

ATTENTION : Marcie Ann Encinas



Laboratory Certification ID # 20012



Hit Summary Sheet
SW-846

SDG No.: Q2074
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	TP-12							
Q2074-01	TP-12	SOIL	Acetone	27.5		4.10	21.9	ug/Kg
			Total Voc :	27.5				
Q2074-01	TP-12	SOIL	11H-Dibenzo[b,e][1,4]diazepin *	11.0	J	0	0	ug/Kg
			Total Tics :	11.0				
			Total Concentration:	38.5				
Client ID:	TP-20							
Q2074-04	TP-20	SOIL	Acetone	32.2		3.70	19.5	ug/Kg
			Total Voc :	32.2				
			Total Concentration:	32.2				
Client ID:	TP-38							
Q2074-05	TP-38	SOIL	Toluene	0.97	J	0.61	3.90	ug/Kg
			Total Voc :	0.97				
Q2074-05	TP-38	SOIL	Butane, 2-methyl- *	11.0	J	0	0	ug/Kg
			Total Tics :	11.0				
			Total Concentration:	12.0				
Client ID:	TP-19							
Q2074-06	TP-19	SOIL	Acetone	11.3	J	3.80	20.3	ug/Kg
Q2074-06	TP-19	SOIL	Benzene	1.70	J	0.64	4.10	ug/Kg
			Total Voc :	13.0				
			Total Concentration:	13.0				
Client ID:	TP-40							
Q2074-07	TP-40	SOIL	Acetone	14.3	J	4.40	23.2	ug/Kg
			Total Voc :	14.3				
			Total Concentration:	14.3				
Client ID:	TP-18							
Q2074-08	TP-18	SOIL	Acetone	53.0		5.30	27.8	ug/Kg
			Total Voc :	53.0				
			Total Concentration:	53.0				

Hit Summary Sheet SW-846

SDG No.: Q2074
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units	
Client ID : TP-12									
Q2074-01	TP-12	SOIL	Acenaphthylene	90.100	J	34.5	200	ug/Kg	
Q2074-01	TP-12	SOIL	Phenanthrene	110.000	J	25	200	ug/Kg	
Q2074-01	TP-12	SOIL	Fluoranthene	800.000		35.8	200	ug/Kg	
Q2074-01	TP-12	SOIL	Pyrene	630.000		43	200	ug/Kg	
Q2074-01	TP-12	SOIL	Benzo(a)anthracene	300.000		27.5	200	ug/Kg	
Q2074-01	TP-12	SOIL	Chrysene	370.000		23.8	200	ug/Kg	
Q2074-01	TP-12	SOIL	Benzo(b)fluoranthene	450.000		22.7	200	ug/Kg	
Q2074-01	TP-12	SOIL	Benzo(k)fluoranthene	91.000	J	26.8	200	ug/Kg	
Q2074-01	TP-12	SOIL	Benzo(a)pyrene	310.000		35.2	200	ug/Kg	
Q2074-01	TP-12	SOIL	Indeno(1,2,3-cd)pyrene	120.000	J	34.8	200	ug/Kg	
Q2074-01	TP-12	SOIL	Benzo(g,h,i)perylene	140.000	J	30.7	200	ug/Kg	
Total Svoc :				3,411.10					
Q2074-01	TP-12	SOIL	1-Hexacosene	*	92.800	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	250.000	AB	0	0	ug/Kg
Q2074-01	TP-12	SOIL	4H-Cyclopenta[def]phenanthrene	*	340.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Benzo[e]pyrene	*	230.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Benzophenone	*	170.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Decahydro-1,1,4a,5,6-pentamethyl	*	130.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Fluoranthene, 2-methyl-	*	150.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Phenanthrene, 2,5-dimethyl-	*	130.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Phenanthrene, 2,7-dimethyl-	*	84.800	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Phenanthrene, 2-methyl-	*	290.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Pyrene, 1-methyl-	*	92.400	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Pyrene, 4-methyl-	*	90.800	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Undecane, 2,6-dimethyl-	*	88.400	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	unknown12.510	*	110.000	J	0	0	ug/Kg
Q2074-01	TP-12	SOIL	Oxalic acid, cyclobutyl pentadecyl	*	85.200	J	0	0	ug/Kg
Total Tics :				2,334.40					
Total Concentration:				5,745.50					
Client ID : TP-7									
Q2074-02	TP-7	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	270.000	AB	0	0	ug/Kg
Q2074-02	TP-7	SOIL	Benzophenone	*	180.000	J	0	0	ug/Kg
Q2074-02	TP-7	SOIL	Heptadecyl trifluoroacetate	*	140.000	J	0	0	ug/Kg
Q2074-02	TP-7	SOIL	n-Hexadecanoic acid	*	380.000	J	0	0	ug/Kg
Q2074-02	TP-7	SOIL	Octadecanoic acid	*	89.300	J	0	0	ug/Kg
Total Tics :				1,059.30					

Hit Summary Sheet

SW-846

SDG No.: Q2074

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Total Concentration:				1,059.30				
Client ID :	TP-15							
Q2074-03	TP-15	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	230.000	AB	0	0	ug/Kg
Q2074-03	TP-15	SOIL	Benzophenone *	450.000	J	0	0	ug/Kg
Q2074-03	TP-15	SOIL	Methanone, (1-hydroxycyclohexy *	84.200	J	0	0	ug/Kg
Q2074-03	TP-15	SOIL	n-Hexadecanoic acid *	210.000	J	0	0	ug/Kg
Q2074-03	TP-15	SOIL	Trifluoroacetoxy hexadecane *	150.000	J	0	0	ug/Kg
Total Tics :				1,124.20				
Total Concentration:				1,124.20				
Client ID :	TP-20							
Q2074-04	TP-20	SOIL	Fluoranthene	87.400	J	35.5	200	ug/Kg
Total Svoc :				87.40				
Q2074-04	TP-20	SOIL	1-Docosene *	180.000	J	0	0	ug/Kg
Q2074-04	TP-20	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	270.000	AB	0	0	ug/Kg
Q2074-04	TP-20	SOIL	Benzophenone *	500.000	J	0	0	ug/Kg
Q2074-04	TP-20	SOIL	Methanone, (1-hydroxycyclohexy *	89.600	J	0	0	ug/Kg
Q2074-04	TP-20	SOIL	n-Hexadecanoic acid *	330.000	J	0	0	ug/Kg
Total Tics :				1,369.60				
Total Concentration:				1,457.00				
Client ID :	TP-38							
Q2074-05	TP-38	SOIL	Bis(2-ethylhexyl)phthalate	100.000	J	72.1	210	ug/Kg
Total Svoc :				100.00				
Q2074-05	TP-38	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	300.000	AB	0	0	ug/Kg
Q2074-05	TP-38	SOIL	Benzophenone *	250.000	J	0	0	ug/Kg
Q2074-05	TP-38	SOIL	Hentriacontane *	86.900	J	0	0	ug/Kg
Q2074-05	TP-38	SOIL	Heptafluorobutyric acid, pentadec *	120.000	J	0	0	ug/Kg
Q2074-05	TP-38	SOIL	Hexacosane *	86.900	J	0	0	ug/Kg
Q2074-05	TP-38	SOIL	n-Hexadecanoic acid *	360.000	J	0	0	ug/Kg
Total Tics :				1,203.80				
Total Concentration:				1,303.80				
Client ID :	TP-19							
Q2074-06	TP-19	SOIL	1-Hexacosene *	140.000	J	0	0	ug/Kg
Q2074-06	TP-19	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	240.000	AB	0	0	ug/Kg
Q2074-06	TP-19	SOIL	Benzophenone *	190.000	J	0	0	ug/Kg
Q2074-06	TP-19	SOIL	n-Hexadecanoic acid *	180.000	J	0	0	ug/Kg
Total Tics :				750.00				
Total Concentration:				750.00				

Client ID : TP-40

Hit Summary Sheet
SW-846

SDG No.: Q2074
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2074-07	TP-40	SOIL	Phenanthrene	140.000	J	23.4	190	ug/Kg
Q2074-07	TP-40	SOIL	Fluoranthene	440.000		33.6	190	ug/Kg
Q2074-07	TP-40	SOIL	Pyrene	300.000		40.3	190	ug/Kg
Q2074-07	TP-40	SOIL	Benzo(a)anthracene	180.000	J	25.8	190	ug/Kg
Q2074-07	TP-40	SOIL	Chrysene	200.000		22.3	190	ug/Kg
Q2074-07	TP-40	SOIL	Benzo(b)fluoranthene	320.000		21.3	190	ug/Kg
Q2074-07	TP-40	SOIL	Benzo(k)fluoranthene	79.100	J	25.1	190	ug/Kg
Q2074-07	TP-40	SOIL	Benzo(a)pyrene	200.000		33	190	ug/Kg
Q2074-07	TP-40	SOIL	Indeno(1,2,3-cd)pyrene	86.900	J	32.6	190	ug/Kg
Q2074-07	TP-40	SOIL	Benzo(g,h,i)perylene	110.000	J	28.8	190	ug/Kg
Total Svoc :				2,056.00				
Q2074-07	TP-40	SOIL	1-Eicosene	*	80.600	J	0	ug/Kg
Q2074-07	TP-40	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	210.000	AB	0	ug/Kg
Q2074-07	TP-40	SOIL	Anthracene, 2-methyl-	*	160.000	J	0	ug/Kg
Q2074-07	TP-40	SOIL	Benzo[e]pyrene	*	140.000	J	0	ug/Kg
Q2074-07	TP-40	SOIL	Benzophenone	*	150.000	J	0	ug/Kg
Total Tics :				740.60				
Total Concentration:				2,796.60				
Client ID : TP-18								
Q2074-08	TP-18	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	270.000	AB	0	ug/Kg
Q2074-08	TP-18	SOIL	Benzophenone	*	200.000	J	0	ug/Kg
Q2074-08	TP-18	SOIL	n-Hexadecanoic acid	*	180.000	J	0	ug/Kg
Q2074-08	TP-18	SOIL	Trifluoroacetoxy hexadecane	*	150.000	J	0	ug/Kg
Total Tics :				800.00				
Total Concentration:				800.00				

Hit Summary Sheet
SW-846

SDG No.: Q2074

Order ID: Q2074

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-12								
Q2074-01	TP-12	SOIL	Endosulfan Sulfate	1.60	JP	0.16	2.00	ug/kg
Q2074-01	TP-12	SOIL	4,4-DDT	0.60	JP	0.17	2.00	ug/kg
Total Concentration:				2.200				
Client ID : TP-15								
Q2074-03	TP-15	SOIL	alpha-Chlordane	0.36	JP	0.14	1.90	ug/kg
Total Concentration:				0.360				



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

Hit Summary Sheet
SW-846

SDG No.: Q2074

Order ID: Q2074

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.: Q2074

Order ID: Q2074

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.: Q2074 **Order ID:** Q2074
Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-12								
Q2074-01	TP-12	SOIL	Aluminum	4290		0.85	5.05	mg/Kg
Q2074-01	TP-12	SOIL	Arsenic	2.11		0.19	1.01	mg/Kg
Q2074-01	TP-12	SOIL	Barium	34.1		0.74	5.05	mg/Kg
Q2074-01	TP-12	SOIL	Beryllium	0.46		0.025	0.30	mg/Kg
Q2074-01	TP-12	SOIL	Cadmium	0.25	J	0.024	0.30	mg/Kg
Q2074-01	TP-12	SOIL	Calcium	77.5	J	11.2	101	mg/Kg
Q2074-01	TP-12	SOIL	Chromium	9.76		0.047	0.51	mg/Kg
Q2074-01	TP-12	SOIL	Cobalt	2.92		0.10	1.52	mg/Kg
Q2074-01	TP-12	SOIL	Copper	6.97		0.22	1.01	mg/Kg
Q2074-01	TP-12	SOIL	Iron	9360		4.03	5.05	mg/Kg
Q2074-01	TP-12	SOIL	Lead	10.0		0.13	0.61	mg/Kg
Q2074-01	TP-12	SOIL	Magnesium	647		12.1	101	mg/Kg
Q2074-01	TP-12	SOIL	Manganese	26.4		0.14	1.01	mg/Kg
Q2074-01	TP-12	SOIL	Mercury	0.014	J	0.0080	0.015	mg/Kg
Q2074-01	TP-12	SOIL	Nickel	5.28		0.13	2.02	mg/Kg
Q2074-01	TP-12	SOIL	Potassium	187		28.0	101	mg/Kg
Q2074-01	TP-12	SOIL	Sodium	107		18.0	101	mg/Kg
Q2074-01	TP-12	SOIL	Thallium	0.41	J	0.23	2.02	mg/Kg
Q2074-01	TP-12	SOIL	Vanadium	16.6		0.25	2.02	mg/Kg
Q2074-01	TP-12	SOIL	Zinc	17.4		0.23	2.02	mg/Kg
Client ID : TP-7								
Q2074-02	TP-7	SOIL	Aluminum	6120		0.85	5.08	mg/Kg
Q2074-02	TP-7	SOIL	Arsenic	2.20		0.19	1.02	mg/Kg
Q2074-02	TP-7	SOIL	Barium	16.5		0.74	5.08	mg/Kg
Q2074-02	TP-7	SOIL	Beryllium	0.45		0.025	0.31	mg/Kg
Q2074-02	TP-7	SOIL	Cadmium	0.35		0.024	0.31	mg/Kg
Q2074-02	TP-7	SOIL	Calcium	190		11.3	102	mg/Kg
Q2074-02	TP-7	SOIL	Chromium	8.71		0.048	0.51	mg/Kg
Q2074-02	TP-7	SOIL	Cobalt	4.61		0.10	1.52	mg/Kg
Q2074-02	TP-7	SOIL	Copper	3.87		0.22	1.02	mg/Kg
Q2074-02	TP-7	SOIL	Iron	12100		4.05	5.08	mg/Kg
Q2074-02	TP-7	SOIL	Lead	3.49		0.13	0.61	mg/Kg
Q2074-02	TP-7	SOIL	Magnesium	226		12.2	102	mg/Kg
Q2074-02	TP-7	SOIL	Manganese	38.7		0.14	1.02	mg/Kg
Q2074-02	TP-7	SOIL	Mercury	0.011	J	0.0090	0.015	mg/Kg
Q2074-02	TP-7	SOIL	Nickel	4.00		0.13	2.03	mg/Kg
Q2074-02	TP-7	SOIL	Potassium	144		28.1	102	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2074

Order ID: Q2074

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2074-02	TP-7	SOIL	Sodium	274		18.1	102	mg/Kg
Q2074-02	TP-7	SOIL	Thallium	0.70	J	0.23	2.03	mg/Kg
Q2074-02	TP-7	SOIL	Vanadium	11.4		0.25	2.03	mg/Kg
Q2074-02	TP-7	SOIL	Zinc	10.4		0.23	2.03	mg/Kg
Client ID : TP-15								
Q2074-03	TP-15	SOIL	Aluminum	5090		0.88	5.25	mg/Kg
Q2074-03	TP-15	SOIL	Arsenic	2.18		0.20	1.05	mg/Kg
Q2074-03	TP-15	SOIL	Barium	26.4		0.77	5.25	mg/Kg
Q2074-03	TP-15	SOIL	Beryllium	0.29	J	0.026	0.32	mg/Kg
Q2074-03	TP-15	SOIL	Cadmium	0.21	J	0.025	0.32	mg/Kg
Q2074-03	TP-15	SOIL	Calcium	314		11.7	105	mg/Kg
Q2074-03	TP-15	SOIL	Chromium	8.23		0.049	0.53	mg/Kg
Q2074-03	TP-15	SOIL	Cobalt	1.91		0.11	1.57	mg/Kg
Q2074-03	TP-15	SOIL	Copper	6.10		0.23	1.05	mg/Kg
Q2074-03	TP-15	SOIL	Iron	6820		4.19	5.25	mg/Kg
Q2074-03	TP-15	SOIL	Lead	18.0		0.14	0.63	mg/Kg
Q2074-03	TP-15	SOIL	Magnesium	326		12.6	105	mg/Kg
Q2074-03	TP-15	SOIL	Manganese	28.7		0.15	1.05	mg/Kg
Q2074-03	TP-15	SOIL	Mercury	0.057		0.0080	0.014	mg/Kg
Q2074-03	TP-15	SOIL	Nickel	4.10		0.14	2.10	mg/Kg
Q2074-03	TP-15	SOIL	Potassium	127		29.1	105	mg/Kg
Q2074-03	TP-15	SOIL	Sodium	300		18.7	105	mg/Kg
Q2074-03	TP-15	SOIL	Thallium	0.28	J	0.24	2.10	mg/Kg
Q2074-03	TP-15	SOIL	Vanadium	13.4		0.26	2.10	mg/Kg
Q2074-03	TP-15	SOIL	Zinc	31.9		0.24	2.10	mg/Kg
Client ID : TP-20								
Q2074-04	TP-20	SOIL	Aluminum	6620		0.89	5.30	mg/Kg
Q2074-04	TP-20	SOIL	Arsenic	2.51		0.20	1.06	mg/Kg
Q2074-04	TP-20	SOIL	Barium	21.3		0.77	5.30	mg/Kg
Q2074-04	TP-20	SOIL	Beryllium	0.25	J	0.026	0.32	mg/Kg
Q2074-04	TP-20	SOIL	Cadmium	0.096	J	0.025	0.32	mg/Kg
Q2074-04	TP-20	SOIL	Calcium	244		11.8	106	mg/Kg
Q2074-04	TP-20	SOIL	Chromium	9.72		0.050	0.53	mg/Kg
Q2074-04	TP-20	SOIL	Cobalt	2.38		0.11	1.59	mg/Kg
Q2074-04	TP-20	SOIL	Copper	3.83		0.23	1.06	mg/Kg
Q2074-04	TP-20	SOIL	Iron	7000		4.23	5.30	mg/Kg
Q2074-04	TP-20	SOIL	Lead	6.24		0.14	0.64	mg/Kg
Q2074-04	TP-20	SOIL	Magnesium	592		12.7	106	mg/Kg
Q2074-04	TP-20	SOIL	Manganese	21.1		0.15	1.06	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2074

Order ID: Q2074

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2074-04	TP-20	SOIL	Mercury	0.033		0.0080	0.014	mg/Kg
Q2074-04	TP-20	SOIL	Nickel	4.21		0.14	2.12	mg/Kg
Q2074-04	TP-20	SOIL	Potassium	184		29.3	106	mg/Kg
Q2074-04	TP-20	SOIL	Sodium	532		18.9	106	mg/Kg
Q2074-04	TP-20	SOIL	Vanadium	18.5		0.27	2.12	mg/Kg
Q2074-04	TP-20	SOIL	Zinc	9.82		0.24	2.12	mg/Kg
Client ID : TP-38								
Q2074-05	TP-38	SOIL	Aluminum	663		0.94	5.58	mg/Kg
Q2074-05	TP-38	SOIL	Arsenic	1.77		0.21	1.12	mg/Kg
Q2074-05	TP-38	SOIL	Barium	16.4		0.81	5.58	mg/Kg
Q2074-05	TP-38	SOIL	Beryllium	0.12	J	0.028	0.34	mg/Kg
Q2074-05	TP-38	SOIL	Calcium	42.3	J	12.4	112	mg/Kg
Q2074-05	TP-38	SOIL	Chromium	2.72		0.052	0.56	mg/Kg
Q2074-05	TP-38	SOIL	Cobalt	0.48	J	0.11	1.67	mg/Kg
Q2074-05	TP-38	SOIL	Copper	4.60		0.25	1.12	mg/Kg
Q2074-05	TP-38	SOIL	Iron	5030		4.45	5.58	mg/Kg
Q2074-05	TP-38	SOIL	Lead	1.44		0.14	0.67	mg/Kg
Q2074-05	TP-38	SOIL	Magnesium	28.9	J	13.4	112	mg/Kg
Q2074-05	TP-38	SOIL	Manganese	6.24		0.16	1.12	mg/Kg
Q2074-05	TP-38	SOIL	Nickel	0.43	J	0.14	2.23	mg/Kg
Q2074-05	TP-38	SOIL	Potassium	35.2	J	30.9	112	mg/Kg
Q2074-05	TP-38	SOIL	Sodium	35.7	J	19.8	112	mg/Kg
Q2074-05	TP-38	SOIL	Vanadium	6.23		0.28	2.23	mg/Kg
Q2074-05	TP-38	SOIL	Zinc	2.74		0.26	2.23	mg/Kg
Client ID : TP-19								
Q2074-06	TP-19	SOIL	Aluminum	2270		0.82	4.89	mg/Kg
Q2074-06	TP-19	SOIL	Arsenic	4.36		0.19	0.98	mg/Kg
Q2074-06	TP-19	SOIL	Barium	7.17		0.71	4.89	mg/Kg
Q2074-06	TP-19	SOIL	Beryllium	0.53		0.024	0.29	mg/Kg
Q2074-06	TP-19	SOIL	Cadmium	0.46		0.023	0.29	mg/Kg
Q2074-06	TP-19	SOIL	Calcium	160		10.9	97.8	mg/Kg
Q2074-06	TP-19	SOIL	Chromium	13.5		0.046	0.49	mg/Kg
Q2074-06	TP-19	SOIL	Cobalt	1.95		0.098	1.47	mg/Kg
Q2074-06	TP-19	SOIL	Copper	9.89		0.22	0.98	mg/Kg
Q2074-06	TP-19	SOIL	Iron	25100		3.90	4.89	mg/Kg
Q2074-06	TP-19	SOIL	Lead	10.5		0.13	0.59	mg/Kg
Q2074-06	TP-19	SOIL	Magnesium	102		11.7	97.8	mg/Kg
Q2074-06	TP-19	SOIL	Manganese	43.6		0.14	0.98	mg/Kg
Q2074-06	TP-19	SOIL	Mercury	0.051		0.0090	0.015	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2074

Order ID: Q2074

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2074-06	TP-19	SOIL	Nickel	2.42		0.13	1.96	mg/Kg
Q2074-06	TP-19	SOIL	Potassium	143		27.1	97.8	mg/Kg
Q2074-06	TP-19	SOIL	Sodium	54.2	J	17.4	97.8	mg/Kg
Q2074-06	TP-19	SOIL	Thallium	1.96		0.23	1.96	mg/Kg
Q2074-06	TP-19	SOIL	Vanadium	20.4		0.25	1.96	mg/Kg
Q2074-06	TP-19	SOIL	Zinc	35.3		0.23	1.96	mg/Kg
Client ID : TP-40								
Q2074-07	TP-40	SOIL	Aluminum	2050		0.88	5.21	mg/Kg
Q2074-07	TP-40	SOIL	Arsenic	2.26		0.20	1.04	mg/Kg
Q2074-07	TP-40	SOIL	Barium	15.9		0.76	5.21	mg/Kg
Q2074-07	TP-40	SOIL	Beryllium	0.18	J	0.026	0.31	mg/Kg
Q2074-07	TP-40	SOIL	Cadmium	0.065	J	0.025	0.31	mg/Kg
Q2074-07	TP-40	SOIL	Calcium	636		11.6	104	mg/Kg
Q2074-07	TP-40	SOIL	Chromium	7.76		0.049	0.52	mg/Kg
Q2074-07	TP-40	SOIL	Cobalt	0.65	J	0.10	1.56	mg/Kg
Q2074-07	TP-40	SOIL	Copper	9.10		0.23	1.04	mg/Kg
Q2074-07	TP-40	SOIL	Iron	7070		4.16	5.21	mg/Kg
Q2074-07	TP-40	SOIL	Lead	13.3		0.14	0.63	mg/Kg
Q2074-07	TP-40	SOIL	Magnesium	136		12.5	104	mg/Kg
Q2074-07	TP-40	SOIL	Manganese	11.9		0.15	1.04	mg/Kg
Q2074-07	TP-40	SOIL	Mercury	0.027		0.0070	0.013	mg/Kg
Q2074-07	TP-40	SOIL	Nickel	1.09	J	0.14	2.09	mg/Kg
Q2074-07	TP-40	SOIL	Potassium	180		28.9	104	mg/Kg
Q2074-07	TP-40	SOIL	Sodium	514		18.6	104	mg/Kg
Q2074-07	TP-40	SOIL	Thallium	0.36	J	0.24	2.09	mg/Kg
Q2074-07	TP-40	SOIL	Vanadium	13.8		0.26	2.09	mg/Kg
Q2074-07	TP-40	SOIL	Zinc	22.0		0.24	2.09	mg/Kg
Client ID : TP-18								
Q2074-08	TP-18	SOIL	Aluminum	4710		1.03	6.13	mg/Kg
Q2074-08	TP-18	SOIL	Arsenic	6.54		0.23	1.23	mg/Kg
Q2074-08	TP-18	SOIL	Barium	18.5		0.90	6.13	mg/Kg
Q2074-08	TP-18	SOIL	Beryllium	0.70		0.031	0.37	mg/Kg
Q2074-08	TP-18	SOIL	Cadmium	0.26	J	0.029	0.37	mg/Kg
Q2074-08	TP-18	SOIL	Calcium	447		13.6	123	mg/Kg
Q2074-08	TP-18	SOIL	Chromium	18.2		0.058	0.61	mg/Kg
Q2074-08	TP-18	SOIL	Cobalt	2.74		0.12	1.84	mg/Kg
Q2074-08	TP-18	SOIL	Copper	14.2		0.27	1.23	mg/Kg
Q2074-08	TP-18	SOIL	Iron	36100		4.90	6.13	mg/Kg
Q2074-08	TP-18	SOIL	Lead	31.8		0.16	0.74	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2074

Order ID: Q2074

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2074-08	TP-18	SOIL	Magnesium	112	J	14.7	123	mg/Kg
Q2074-08	TP-18	SOIL	Manganese	24.7		0.17	1.23	mg/Kg
Q2074-08	TP-18	SOIL	Mercury	0.030		0.0090	0.017	mg/Kg
Q2074-08	TP-18	SOIL	Nickel	3.24		0.16	2.45	mg/Kg
Q2074-08	TP-18	SOIL	Potassium	218		34.0	123	mg/Kg
Q2074-08	TP-18	SOIL	Sodium	141		21.8	123	mg/Kg
Q2074-08	TP-18	SOIL	Thallium	2.76		0.28	2.45	mg/Kg
Q2074-08	TP-18	SOIL	Vanadium	32.9		0.31	2.45	mg/Kg
Q2074-08	TP-18	SOIL	Zinc	24.3		0.28	2.45	mg/Kg