

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 : Q2458

ATTENTION : Marcie Ann Encinas



Laboratory Certification ID # 20012



Hit Summary Sheet
SW-846

SDG No.: Q2458
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	TP-76							
Q2458-01	TP-76	SOIL	Methylene Chloride	14.4		4.30	12.3	ug/Kg
			Total Voc :	14.4				
			Total Concentration:	14.4				
Client ID:	TP-55							
Q2458-02	TP-55	SOIL	Methylene Chloride	12.9	J	5.50	15.7	ug/Kg
			Total Voc :	12.9				
			Total Concentration:	12.9				
Client ID:	TP-66							
Q2458-05	TP-66	SOIL	Methylcyclohexane	2.30	J	0.81	4.40	ug/Kg
			Total Voc :	2.30				
Q2458-05	TP-66	SOIL	unknown14.182	* 8.40	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Naphthalene, decahydro-, trans	* 12.3	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Hexane, 2,3-dimethyl-	* 12.1	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Hexane, 3-ethyl-	* 21.3	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Cyclopentanamine	* 19.2	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Benzene, 2-ethenyl-1,4-dimethyl-	* 12.6	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Octane, 2,6-dimethyl-	* 9.20	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	Heptane, 2,5-dimethyl-	* 11.0	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	1H-Indene, 2,3-dihydro-1,1-dimethyl-	* 9.70	J	0	0	ug/Kg
Q2458-05	TP-66	SOIL	6,7-Dimethyl-3,5,8,8a-tetrahydronaphthalene	* 14.0	J	0	0	ug/Kg
			Total Tics :	130				
			Total Concentration:	132				
Client ID:	TP-60							
Q2458-06	TP-60	SOIL	Acetone	7.40	J	3.70	19.5	ug/Kg
Q2458-06	TP-60	SOIL	Methylene Chloride	5.50	J	2.80	7.80	ug/Kg
			Total Voc :	12.9				
			Total Concentration:	12.9				
Client ID:	TP-59							
Q2458-09	TP-59	SOIL	Acetone	73.3		4.30	22.6	ug/Kg
Q2458-09	TP-59	SOIL	Carbon Disulfide	1.90	J	0.96	4.50	ug/Kg
Q2458-09	TP-59	SOIL	2-Butanone	14.1	J	5.90	22.6	ug/Kg
Q2458-09	TP-59	SOIL	Benzene	11.7		0.71	4.50	ug/Kg
			Total Voc :	101				
Q2458-09	TP-59	SOIL	Butane	* 7.60	J	0	0	ug/Kg
			Total Tics :	7.60				
			Total Concentration:	109				

Hit Summary Sheet SW-846

SDG No.: Q2458
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-76								
Q2458-01	TP-76	SOIL	Phenanthrene	130.000	J	23	190	ug/Kg
Q2458-01	TP-76	SOIL	Fluoranthene	380.000		33.1	190	ug/Kg
Q2458-01	TP-76	SOIL	Pyrene	390.000		39.7	190	ug/Kg
Q2458-01	TP-76	SOIL	Benzo(a)anthracene	320.000		25.4	190	ug/Kg
Q2458-01	TP-76	SOIL	Chrysene	320.000		21.9	190	ug/Kg
Q2458-01	TP-76	SOIL	Benzo(b)fluoranthene	450.000		20.9	190	ug/Kg
Q2458-01	TP-76	SOIL	Benzo(k)fluoranthene	140.000	J	24.7	190	ug/Kg
Q2458-01	TP-76	SOIL	Benzo(a)pyrene	310.000		32.5	190	ug/Kg
Q2458-01	TP-76	SOIL	Indeno(1,2,3-cd)pyrene	110.000	J	32.1	190	ug/Kg
Q2458-01	TP-76	SOIL	Benzo(g,h,i)perylene	150.000	J	28.3	190	ug/Kg
Total Svoc :				2,700.00				
Q2458-01	TP-76	SOIL	11H-Benzo[a]fluoren-11-one	*	130.000	J	0	ug/Kg
Q2458-01	TP-76	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	220.000	AB	0	ug/Kg
Q2458-01	TP-76	SOIL	9,10-Dimethylanthracene	*	130.000	J	0	ug/Kg
Q2458-01	TP-76	SOIL	Anthracene, 1-methyl-	*	88.900	J	0	ug/Kg
Q2458-01	TP-76	SOIL	Benzo[e]pyrene	*	250.000	J	0	ug/Kg
Q2458-01	TP-76	SOIL	Benzophenone	*	210.000	J	0	ug/Kg
Q2458-01	TP-76	SOIL	Fluoranthene, 2-methyl-	*	77.900	J	0	ug/Kg
Q2458-01	TP-76	SOIL	Pyrene, 1-methyl-	*	81.200	J	0	ug/Kg
Q2458-01	TP-76	SOIL	unknown16.698	*	92.200	J	0	ug/Kg
Q2458-01	TP-76	SOIL	Phenanthrene, 1-methyl-	*	250.000	J	0	ug/Kg
Q2458-01	TP-76	SOIL	Phenanthrene, 2,7-dimethyl-	*	85.200	J	0	ug/Kg
Total Tics :				1,615.40				
Total Concentration:				4,315.40				
Client ID : TP-55								
Q2458-02	TP-55	SOIL	Fluoranthene	190.000		32.7	190	ug/Kg
Q2458-02	TP-55	SOIL	Pyrene	200.000		39.3	190	ug/Kg
Q2458-02	TP-55	SOIL	Benzo(a)anthracene	170.000	J	25.1	190	ug/Kg
Q2458-02	TP-55	SOIL	Chrysene	140.000	J	21.7	190	ug/Kg
Q2458-02	TP-55	SOIL	Benzo(b)fluoranthene	270.000		20.7	190	ug/Kg
Q2458-02	TP-55	SOIL	Benzo(k)fluoranthene	98.300	J	24.4	190	ug/Kg
Q2458-02	TP-55	SOIL	Benzo(a)pyrene	200.000		32.2	190	ug/Kg
Q2458-02	TP-55	SOIL	Indeno(1,2,3-cd)pyrene	93.100	J	31.7	190	ug/Kg
Q2458-02	TP-55	SOIL	Benzo(g,h,i)perylene	130.000	J	28	190	ug/Kg
Total Svoc :				1,491.40				
Q2458-02	TP-55	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	210.000	AB	0	ug/Kg
Q2458-02	TP-55	SOIL	Benzophenone	*	210.000	J	0	ug/Kg

Hit Summary Sheet SW-846

SDG No.: Q2458
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2458-02	TP-55	SOIL	n-Hexadecanoic acid	*	260.000	J 0	0	ug/Kg
Q2458-02	TP-55	SOIL	Trifluoroacetoxy hexadecane	*	130.000	J 0	0	ug/Kg
Total Tics :				810.00				
Total Concentration:				2,301.40				
Client ID : TP-68								
Q2458-03	TP-68	SOIL	Phenanthrene		210.000	22.6	180	ug/Kg
Q2458-03	TP-68	SOIL	Fluoranthene		540.000	32.4	180	ug/Kg
Q2458-03	TP-68	SOIL	Pyrene		390.000	38.9	180	ug/Kg
Q2458-03	TP-68	SOIL	Benzo(a)anthracene		340.000	24.9	180	ug/Kg
Q2458-03	TP-68	SOIL	Chrysene		290.000	21.5	180	ug/Kg
Q2458-03	TP-68	SOIL	Benzo(b)fluoranthene		440.000	20.6	180	ug/Kg
Q2458-03	TP-68	SOIL	Benzo(a)pyrene		270.000	31.9	180	ug/Kg
Q2458-03	TP-68	SOIL	Indeno(1,2,3-cd)pyrene		74.000	J 31.5	180	ug/Kg
Q2458-03	TP-68	SOIL	Benzo(g,h,i)perylene		95.200	J 27.8	180	ug/Kg
Total Svoc :				2,649.20				
Q2458-03	TP-68	SOIL	11H-Benzo[a]fluoren-11-one	*	82.200	J 0	0	ug/Kg
Q2458-03	TP-68	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	210.000	AB 0	0	ug/Kg
Q2458-03	TP-68	SOIL	4H-Cyclopenta[def]phenanthrene	*	140.000	J 0	0	ug/Kg
Q2458-03	TP-68	SOIL	Anthracene, 1-methyl-	*	200.000	J 0	0	ug/Kg
Q2458-03	TP-68	SOIL	Pyrene, 1-methyl-	*	76.400	J 0	0	ug/Kg
Q2458-03	TP-68	SOIL	unknown17.356	*	88.000	J 0	0	ug/Kg
Q2458-03	TP-68	SOIL	Benzo[e]pyrene	*	190.000	J 0	0	ug/Kg
Q2458-03	TP-68	SOIL	Benzophenone	*	170.000	J 0	0	ug/Kg
Total Tics :				1,156.60				
Total Concentration:				3,805.80				
Client ID : TP-67								
Q2458-04	TP-67	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	280.000	AB 0	0	ug/Kg
Q2458-04	TP-67	SOIL	Benzophenone	*	250.000	J 0	0	ug/Kg
Q2458-04	TP-67	SOIL	Heptafluorobutyric acid, pentadec	*	210.000	J 0	0	ug/Kg
Q2458-04	TP-67	SOIL	n-Hexadecanoic acid	*	130.000	J 0	0	ug/Kg
Total Tics :				870.00				
Total Concentration:				870.00				
Client ID : TP-66								
Q2458-05	TP-66	SOIL	Phenanthrene		120.000	J 23.6	190	ug/Kg
Q2458-05	TP-66	SOIL	Fluoranthene		620.000	33.9	190	ug/Kg
Q2458-05	TP-66	SOIL	Pyrene		650.000	40.7	190	ug/Kg
Q2458-05	TP-66	SOIL	Benzo(a)anthracene		550.000	26	190	ug/Kg
Q2458-05	TP-66	SOIL	Chrysene		570.000	22.5	190	ug/Kg
Q2458-05	TP-66	SOIL	Benzo(b)fluoranthene		770.000	21.5	190	ug/Kg

Hit Summary Sheet SW-846

SDG No.: Q2458
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2458-05	TP-66	SOIL	Benzo(k)fluoranthene	240.000		25.3	190	ug/Kg
Q2458-05	TP-66	SOIL	Benzo(a)pyrene	540.000		33.3	190	ug/Kg
Q2458-05	TP-66	SOIL	Indeno(1,2,3-cd)pyrene	170.000	J	32.9	190	ug/Kg
Q2458-05	TP-66	SOIL	Benzo(g,h,i)perylene	210.000		29	190	ug/Kg
Total Svoc :				4,440.00				
Q2458-05	TP-66	SOIL	11H-Benzo[a]fluoren-11-one	*	82.900	J	0	ug/Kg
Q2458-05	TP-66	SOIL	11H-Benzo[b]fluorene	*	82.500	J	0	ug/Kg
Q2458-05	TP-66	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	200.000	AB	0	ug/Kg
Q2458-05	TP-66	SOIL	4H-Cyclopenta[def]phenanthrene	*	130.000	J	0	ug/Kg
Q2458-05	TP-66	SOIL	6H-Benz[de]anthracen-6-one	*	110.000	J	0	ug/Kg
Q2458-05	TP-66	SOIL	Anthracene, 1-methyl-	*	77.200	J	0	ug/Kg
Q2458-05	TP-66	SOIL	Anthracene, 2-methyl-	*	160.000	J	0	ug/Kg
Q2458-05	TP-66	SOIL	Benz[a]anthracene, 7-methyl-	*	130.000	J	0	ug/Kg
Q2458-05	TP-66	SOIL	Benzo[b]naphtho[2,1-d]thiophene	*	93.000	J	0	ug/Kg
Q2458-05	TP-66	SOIL	Benzo[e]pyrene	*	410.000	J	0	ug/Kg
Q2458-05	TP-66	SOIL	Benzophenone	*	180.000	J	0	ug/Kg
Q2458-05	TP-66	SOIL	Pyrene, 1-methyl-	*	120.000	J	0	ug/Kg
Q2458-05	TP-66	SOIL	Pyrene, 2-methyl-	*	110.000	J	0	ug/Kg
Q2458-05	TP-66	SOIL	Pyrene, 4-methyl-	*	81.700	J	0	ug/Kg
Q2458-05	TP-66	SOIL	unknown12.545	*	97.200	J	0	ug/Kg
Q2458-05	TP-66	SOIL	Fluoranthene, 2-methyl-	*	160.000	J	0	ug/Kg
Q2458-05	TP-66	SOIL	Perylene	*	76.100	J	0	ug/Kg
Q2458-05	TP-66	SOIL	Phenanthrene, 2,5-dimethyl-	*	170.000	J	0	ug/Kg
Q2458-05	TP-66	SOIL	Phenanthrene, 3,6-dimethyl-	*	100.000	J	0	ug/Kg
Total Tics :				2,570.60				
Total Concentration:				7,010.60				
Client ID : TP-60								
Q2458-06	TP-60	SOIL	Phenanthrene		150.000	J	22.6	ug/Kg
Q2458-06	TP-60	SOIL	Fluoranthene		750.000		32.4	ug/Kg
Q2458-06	TP-60	SOIL	Pyrene		460.000		38.9	ug/Kg
Q2458-06	TP-60	SOIL	Benzo(a)anthracene		360.000		24.8	ug/Kg
Q2458-06	TP-60	SOIL	Chrysene		360.000		21.5	ug/Kg
Q2458-06	TP-60	SOIL	Benzo(b)fluoranthene		590.000		20.5	ug/Kg
Q2458-06	TP-60	SOIL	Benzo(k)fluoranthene		240.000		24.2	ug/Kg
Q2458-06	TP-60	SOIL	Benzo(a)pyrene		400.000		31.8	ug/Kg
Q2458-06	TP-60	SOIL	Indeno(1,2,3-cd)pyrene		200.000		31.4	ug/Kg
Q2458-06	TP-60	SOIL	Benzo(g,h,i)perylene		270.000		27.7	ug/Kg
Total Svoc :				3,780.00				
Q2458-06	TP-60	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	210.000	AB	0	ug/Kg
Q2458-06	TP-60	SOIL	4H-Cyclopenta[def]phenanthrene	*	100.000	J	0	ug/Kg

Hit Summary Sheet SW-846

SDG No.: Q2458
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2458-06	TP-60	SOIL	Benzophenone	*	200.000	J 0	0	ug/Kg
Q2458-06	TP-60	SOIL	Biphenylene	*	76.300	J 0	0	ug/Kg
Q2458-06	TP-60	SOIL	Tridecane, 5-propyl-	*	75.200	J 0	0	ug/Kg
Q2458-06	TP-60	SOIL	n-Hexadecanoic acid	*	330.000	J 0	0	ug/Kg
Total Tics :				991.50				
Total Concentration:				4,771.50				
Client ID : TP-62								
Q2458-07	TP-62	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	190.000	AB 0	0	ug/Kg
Q2458-07	TP-62	SOIL	Benzophenone	*	160.000	J 0	0	ug/Kg
Q2458-07	TP-62	SOIL	Heptadecyl heptafluorobutyrate	*	190.000	J 0	0	ug/Kg
Q2458-07	TP-62	SOIL	n-Hexadecanoic acid	*	310.000	J 0	0	ug/Kg
Total Tics :				850.00				
Total Concentration:				850.00				
Client ID : TP-63								
Q2458-08	TP-63	SOIL	Phenanthrene		970.000	J 120	980	ug/Kg
Q2458-08	TP-63	SOIL	Fluoranthene		1,700.000	170	980	ug/Kg
Q2458-08	TP-63	SOIL	Pyrene		1,000.000	210	980	ug/Kg
Q2458-08	TP-63	SOIL	Benzo(a)anthracene		590.000	J 130	980	ug/Kg
Q2458-08	TP-63	SOIL	Chrysene		510.000	J 110	980	ug/Kg
Q2458-08	TP-63	SOIL	Benzo(b)fluoranthene		650.000	J 110	980	ug/Kg
Q2458-08	TP-63	SOIL	Benzo(a)pyrene		530.000	J 170	980	ug/Kg
Total Svoc :				5,950.00				
Q2458-08	TP-63	SOIL	Phenanthrene, 2-methyl-	*	400.000	J 0	0	ug/Kg
Total Tics :				400.00				
Total Concentration:				6,350.00				
Client ID : TP-59								
Q2458-09	TP-59	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	250.000	AB 0	0	ug/Kg
Q2458-09	TP-59	SOIL	Benzene, 1,1-methylenebis[2-metl	*	99.800	J 0	0	ug/Kg
Q2458-09	TP-59	SOIL	Benzophenone	*	280.000	J 0	0	ug/Kg
Q2458-09	TP-59	SOIL	Heptafluorobutyric acid, pentadec	*	280.000	J 0	0	ug/Kg
Q2458-09	TP-59	SOIL	n-Hexadecanoic acid	*	120.000	J 0	0	ug/Kg
Total Tics :				1,029.80				
Total Concentration:				1,029.80				
Client ID : FB-06272025								
Q2458-10	FB-06272025	WATER	2,4,7,9-Tetramethyl-5-decyn-4,7-c	*	2.600	J 0	0	ug/L
Q2458-10	FB-06272025	WATER	2,4-Diethyl-6-methyl-1,3,5-trioxa	*	3.900	J 0	0	ug/L
Q2458-10	FB-06272025	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	4.300	AB 0	0	ug/L
Q2458-10	FB-06272025	WATER	2-Propanol, 1,1-[(1-methyl-1,2-et	*	2.700	J 0	0	ug/L
Total Tics :				13.50				



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet
SW-846

SDG No.: Q2458
Client: CDM Smith

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
		Total Concentration:			13.50		

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	Dieldrin	1.90	P	0.15	1.90	ug/kg
Q2458-01	TP-76	SOIL	Endrin	0.66	J	0.15	1.90	ug/kg
Q2458-01	TP-76	SOIL	4,4-DDT	1.20	JP	0.15	1.90	ug/kg
Total Concentration:				3.760				
Client ID : TP-67								
Q2458-04	TP-67	SOIL	4,4-DDE	0.34	JP	0.16	1.90	ug/kg
Q2458-04	TP-67	SOIL	alpha-Chlordane	0.48	JP	0.13	1.90	ug/kg
Q2458-04	TP-67	SOIL	gamma-Chlordane	0.29	J	0.17	1.90	ug/kg
Total Concentration:				1.110				
Client ID : TP-66								
Q2458-05	TP-66	SOIL	4,4-DDT	0.40	JP	0.16	1.90	ug/kg
Total Concentration:				0.400				
Client ID : TP-60								
Q2458-06	TP-60	SOIL	4,4-DDD	0.17	J	0.16	1.80	ug/kg
Q2458-06	TP-60	SOIL	4,4-DDT	0.36	JP	0.15	1.80	ug/kg
Q2458-06	TP-60	SOIL	alpha-Chlordane	0.90	JP	0.13	1.80	ug/kg
Q2458-06	TP-60	SOIL	gamma-Chlordane	0.46	J	0.16	1.80	ug/kg
Total Concentration:				1.890				
Client ID : TP-62								
Q2458-07	TP-62	SOIL	Heptachlor	0.17	J	0.13	1.90	ug/kg
Total Concentration:				0.170				
Client ID : TP-63								
Q2458-08	TP-63	SOIL	4,4-DDD	0.41	J	0.17	2.00	ug/kg
Q2458-08	TP-63	SOIL	4,4-DDT	0.44	JP	0.16	2.00	ug/kg
Q2458-08	TP-63	SOIL	alpha-Chlordane	0.58	J	0.14	2.00	ug/kg
Q2458-08	TP-63	SOIL	gamma-Chlordane	0.40	J	0.17	2.00	ug/kg
Total Concentration:				1.830				

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 : Q2458-08	TP-63 TP-63	SOIL	Aroclor-1254	8.30	J	3.70	19.6	ug/kg
Total Concentration:				8.300				



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

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
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Client ID :

Total Concentration: 0.000

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

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
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

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
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

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
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

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
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