

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 : Q2529

ATTENTION : Marcie Ann Encinas



Laboratory Certification ID # 20012



Hit Summary Sheet
SW-846

SDG No.: Q2529
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	TP-91							
Q2529-01	TP-91	SOIL	Naphthalene, 1,6-dimethyl-	* 31.8	J	0	0	ug/Kg
Q2529-01	TP-91	SOIL	Naphthalene, 2,3-dimethyl-	* 36.0	J	0	0	ug/Kg
Q2529-01	TP-91	SOIL	Naphthalene, 2,7-dimethyl-	* 15.3	J	0	0	ug/Kg
			Total Tics :	83.1				
			Total Concentration:	83.1				
Client ID:	TP-80							
Q2529-02	TP-80	SOIL	Acetone	9.30	J	4.80	25.2	ug/Kg
Q2529-02	TP-80	SOIL	Methylene Chloride	9.00	JQ	3.60	10.1	ug/Kg
			Total Voc :	18.3				
			Total Concentration:	18.3				
Client ID:	TP-79							
Q2529-03	TP-79	SOIL	Methylene Chloride	8.90	Q	3.10	8.90	ug/Kg
			Total Voc :	8.90				
			Total Concentration:	8.90				
Client ID:	TP-95							
Q2529-04	TP-95	SOIL	Methylene Chloride	8.10	JQ	3.20	8.90	ug/Kg
			Total Voc :	8.10				
			Total Concentration:	8.10				
Client ID:	TP-98							
Q2529-05	TP-98	SOIL	Hexadecane	* 20.3	J	0	0	ug/Kg
Q2529-05	TP-98	SOIL	Naphthalene, 1,5-dimethyl-	* 33.7	J	0	0	ug/Kg
Q2529-05	TP-98	SOIL	Naphthalene, 2,3-dimethyl-	* 13.6	J	0	0	ug/Kg
Q2529-05	TP-98	SOIL	Naphthalene, 2,6-dimethyl-	* 12.2	J	0	0	ug/Kg
Q2529-05	TP-98	SOIL	Naphthalene, 2-(1-methylethyl)	* 8.00	J	0	0	ug/Kg
Q2529-05	TP-98	SOIL	Naphthalene, 1,6,7-trimethyl-	* 7.70	J	0	0	ug/Kg
			Total Tics :	95.5				
			Total Concentration:	95.5				
Client ID:	TP-89							
Q2529-08	TP-89	SOIL	Acetone	16.8	J	6.80	35.7	ug/Kg
Q2529-08	TP-89	SOIL	Methylene Chloride	9.30	J	5.00	14.3	ug/Kg
			Total Voc :	26.1				
Q2529-08	TP-89	SOIL	n-Hexane	* 7.20	J	0	0	ug/Kg
			Total Tics :	7.20				
			Total Concentration:	33.3				
Client ID:	TP-33							
Q2529-09	TP-33	SOIL	Acetone	7.40	J	4.20	22.1	ug/Kg
Q2529-09	TP-33	SOIL	Methylene Chloride	4.10	J	3.10	8.80	ug/Kg
			Total Voc :	11.5				
Q2529-09	TP-33	SOIL	2-Ethyl-oxetane	* 4.70	J	0	0	ug/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2529

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Total Tics :				4.70				
Total Concentration:				16.2				

Hit Summary Sheet SW-846

SDG No.: Q2529
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-91								
Q2529-01	TP-91	SOIL	Fluoranthene	200.000		33	190	ug/Kg
Q2529-01	TP-91	SOIL	Pyrene	170.000	J	39.6	190	ug/Kg
Q2529-01	TP-91	SOIL	Benzo(a)anthracene	100.000	J	25.3	190	ug/Kg
Q2529-01	TP-91	SOIL	Chrysene	130.000	J	21.9	190	ug/Kg
Q2529-01	TP-91	SOIL	Benzo(b)fluoranthene	190.000		20.9	190	ug/Kg
Q2529-01	TP-91	SOIL	Benzo(a)pyrene	120.000	JQ	32.4	190	ug/Kg
Q2529-01	TP-91	SOIL	Indeno(1,2,3-cd)pyrene	77.700	JQ	32	190	ug/Kg
Q2529-01	TP-91	SOIL	Benzo(g,h,i)perylene	82.800	J	28.2	190	ug/Kg
Total Svoc :				1,070.50				
Q2529-01	TP-91	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	130.000	AB	0	0	ug/Kg
Q2529-01	TP-91	SOIL	Benzo[e]pyrene *	110.000	J	0	0	ug/Kg
Q2529-01	TP-91	SOIL	Benzophenone *	120.000	J	0	0	ug/Kg
Q2529-01	TP-91	SOIL	Cyclopentadecane *	81.000	J	0	0	ug/Kg
Q2529-01	TP-91	SOIL	n-Hexadecanoic acid *	96.700	J	0	0	ug/Kg
Total Tics :				537.70				
Total Concentration:				1,608.20				
Client ID : TP-80								
Q2529-02	TP-80	SOIL	Acenaphthylene	200.000	Q	31.8	190	ug/Kg
Q2529-02	TP-80	SOIL	Phenanthrene	160.000	J	23	190	ug/Kg
Q2529-02	TP-80	SOIL	Anthracene	87.700	JQ	36.6	190	ug/Kg
Q2529-02	TP-80	SOIL	Fluoranthene	540.000		33	190	ug/Kg
Q2529-02	TP-80	SOIL	Pyrene	510.000		39.6	190	ug/Kg
Q2529-02	TP-80	SOIL	Benzo(a)anthracene	280.000		25.3	190	ug/Kg
Q2529-02	TP-80	SOIL	Chrysene	340.000		21.9	190	ug/Kg
Q2529-02	TP-80	SOIL	Benzo(b)fluoranthene	550.000		20.9	190	ug/Kg
Q2529-02	TP-80	SOIL	Benzo(k)fluoranthene	180.000	J	24.6	190	ug/Kg
Q2529-02	TP-80	SOIL	Benzo(a)pyrene	350.000	Q	32.5	190	ug/Kg
Q2529-02	TP-80	SOIL	Indeno(1,2,3-cd)pyrene	280.000	Q	32	190	ug/Kg
Q2529-02	TP-80	SOIL	Dibenzo(a,h)anthracene	80.300	J	30.1	190	ug/Kg
Q2529-02	TP-80	SOIL	Benzo(g,h,i)perylene	310.000		28.3	190	ug/Kg
Total Svoc :				3,868.00				
Q2529-02	TP-80	SOIL	11H-Benzo[a]fluoren-11-one *	100.000	J	0	0	ug/Kg
Q2529-02	TP-80	SOIL	1-Heneicosanol *	120.000	J	0	0	ug/Kg
Q2529-02	TP-80	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	140.000	AB	0	0	ug/Kg
Q2529-02	TP-80	SOIL	7H-Benz[de]anthracen-7-one *	82.500	J	0	0	ug/Kg
Q2529-02	TP-80	SOIL	Benzo[e]pyrene *	320.000	J	0	0	ug/Kg
Q2529-02	TP-80	SOIL	Benzophenone *	130.000	J	0	0	ug/Kg

Hit Summary Sheet SW-846

SDG No.: Q2529
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units	
Q2529-02	TP-80	SOIL	Cyclopenta(def)phenanthrenone	*	78.500	J	0	0	ug/Kg
Q2529-02	TP-80	SOIL	n-Hexadecanoic acid	*	280.000	J	0	0	ug/Kg
Q2529-02	TP-80	SOIL	Phenanthrene, 1-methyl-	*	120.000	J	0	0	ug/Kg
Q2529-02	TP-80	SOIL	Phenanthrene, 2,5-dimethyl-	*	140.000	J	0	0	ug/Kg
Q2529-02	TP-80	SOIL	Pyrene, 1-methyl-	*	99.400	J	0	0	ug/Kg
Q2529-02	TP-80	SOIL	unknown21.089	*	140.000	J	0	0	ug/Kg
Total Tics :				1,750.40					
Total Concentration:				5,618.40					
Client ID : TP-79									
Q2529-03	TP-79	SOIL	1,2-Dihydro-3-hydroxy-2-oxo-4,6	*	480.000	J	0	0	ug/Kg
Q2529-03	TP-79	SOIL	1-Dodecanethiol	*	89.200	J	0	0	ug/Kg
Q2529-03	TP-79	SOIL	1-Heneicosanol	*	230.000	J	0	0	ug/Kg
Q2529-03	TP-79	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	270.000	AB	0	0	ug/Kg
Q2529-03	TP-79	SOIL	Benzophenone	*	280.000	J	0	0	ug/Kg
Q2529-03	TP-79	SOIL	Butane, 2-methoxy-2-methyl-	*	640.000	J	0	0	ug/Kg
Q2529-03	TP-79	SOIL	n-Hexadecanoic acid	*	1,200.000	J	0	0	ug/Kg
Q2529-03	TP-79	SOIL	Octadecanoic acid	*	6,700.000	J	0	0	ug/Kg
Q2529-03	TP-79	SOIL	Pentadecanoic acid	*	360.000	J	0	0	ug/Kg
Total Tics :				10,249.20					
Total Concentration:				10,249.20					
Client ID : TP-95									
Q2529-04	TP-95	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	160.000	AB	0	0	ug/Kg
Q2529-04	TP-95	SOIL	Benzophenone	*	140.000	J	0	0	ug/Kg
Q2529-04	TP-95	SOIL	n-Hexadecanoic acid	*	130.000	J	0	0	ug/Kg
Total Tics :				430.00					
Total Concentration:				430.00					
Client ID : TP-98									
Q2529-05	TP-98	SOIL	1-Hexacosene	*	81.300	J	0	0	ug/Kg
Q2529-05	TP-98	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	170.000	AB	0	0	ug/Kg
Q2529-05	TP-98	SOIL	Benzophenone	*	120.000	J	0	0	ug/Kg
Q2529-05	TP-98	SOIL	Butane, 2-methoxy-2-methyl-	*	450.000	J	0	0	ug/Kg
Q2529-05	TP-98	SOIL	n-Hexadecanoic acid	*	190.000	J	0	0	ug/Kg
Total Tics :				1,011.30					
Total Concentration:				1,011.30					
Client ID : TP-102									
Q2529-06	TP-102	SOIL	1-Octadecanesulphonyl chloride	*	1,300.000	J	0	0	ug/Kg
Q2529-06	TP-102	SOIL	o-Terphenyl	*	1,700.000	J	0	0	ug/Kg
Total Tics :				3,000.00					

Hit Summary Sheet
SW-846

SDG No.: Q2529
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Total Concentration:				3,000.00				
Client ID : TP-101								
Q2529-07	TP-101	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	180.000	AB	0	0	ug/Kg
Q2529-07	TP-101	SOIL	Benzophenone *	200.000	J	0	0	ug/Kg
Total Tics :				380.00				
Total Concentration:				380.00				
Client ID : TP-89								
Q2529-08	TP-89	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	270.000	AB	0	0	ug/Kg
Q2529-08	TP-89	SOIL	Benzophenone *	260.000	J	0	0	ug/Kg
Q2529-08	TP-89	SOIL	Butane, 2-methoxy-2-methyl- *	560.000	J	0	0	ug/Kg
Q2529-08	TP-89	SOIL	n-Hexadecanoic acid *	160.000	J	0	0	ug/Kg
Q2529-08	TP-89	SOIL	Octacosanol *	85.300	J	0	0	ug/Kg
Total Tics :				1,335.30				
Total Concentration:				1,335.30				
Client ID : TP-33								
Q2529-09	TP-33	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	180.000	AB	0	0	ug/Kg
Q2529-09	TP-33	SOIL	Benzophenone *	230.000	J	0	0	ug/Kg
Q2529-09	TP-33	SOIL	Butane, 2-methoxy-2-methyl- *	420.000	J	0	0	ug/Kg
Q2529-09	TP-33	SOIL	n-Hexadecanoic acid *	93.000	J	0	0	ug/Kg
Total Tics :				923.00				
Total Concentration:				923.00				
Client ID : TP-30								
Q2529-10	TP-30	SOIL	1-Heneicosanol *	99.100	J	0	0	ug/Kg
Q2529-10	TP-30	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	170.000	AB	0	0	ug/Kg
Q2529-10	TP-30	SOIL	Benzophenone *	250.000	J	0	0	ug/Kg
Q2529-10	TP-30	SOIL	n-Hexadecanoic acid *	130.000	J	0	0	ug/Kg
Total Tics :				649.10				
Total Concentration:				649.10				

Hit Summary Sheet
SW-846

SDG No.: Q2529

Order ID: Q2529

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-91								
Q2529-01	TP-91	SOIL	4,4-DDE	0.42	JP	0.15	1.90	ug/kg
Q2529-01	TP-91	SOIL	4,4-DDT	0.53	JP	0.15	1.90	ug/kg
Total Concentration:				0.950				
Client ID : TP-80								
Q2529-02	TP-80	SOIL	Dieldrin	1.30	JP	0.15	1.90	ug/kg
Q2529-02	TP-80	SOIL	Endrin	0.70	J	0.15	1.90	ug/kg
Q2529-02	TP-80	SOIL	4,4-DDT	0.56	JP	0.15	1.90	ug/kg
Total Concentration:				2.560				



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

Hit Summary Sheet
SW-846

SDG No.: Q2529

Order ID: Q2529

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.: Q2529

Order ID: Q2529

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.: Q2529

Order ID: Q2529

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-91								
Q2529-01	TP-91	SOIL	Aluminum	6380		0.82	4.87	mg/Kg
Q2529-01	TP-91	SOIL	Arsenic	14.1		0.19	0.97	mg/Kg
Q2529-01	TP-91	SOIL	Barium	14.3		0.71	4.87	mg/Kg
Q2529-01	TP-91	SOIL	Beryllium	1.39		0.024	0.29	mg/Kg
Q2529-01	TP-91	SOIL	Chromium	13.0		0.046	0.49	mg/Kg
Q2529-01	TP-91	SOIL	Cobalt	2.63		0.097	1.46	mg/Kg
Q2529-01	TP-91	SOIL	Copper	6.67		0.21	0.97	mg/Kg
Q2529-01	TP-91	SOIL	Iron	38900		3.88	4.87	mg/Kg
Q2529-01	TP-91	SOIL	Lead	11.1		0.13	0.58	mg/Kg
Q2529-01	TP-91	SOIL	Magnesium	329		11.7	97.4	mg/Kg
Q2529-01	TP-91	SOIL	Manganese	24.0		0.14	0.97	mg/Kg
Q2529-01	TP-91	SOIL	Mercury	0.041		0.0080	0.015	mg/Kg
Q2529-01	TP-91	SOIL	Nickel	5.31		0.13	1.95	mg/Kg
Q2529-01	TP-91	SOIL	Potassium	851		27.0	97.4	mg/Kg
Q2529-01	TP-91	SOIL	Silver	0.28	J	0.12	0.49	mg/Kg
Q2529-01	TP-91	SOIL	Sodium	422		17.3	97.4	mg/Kg
Q2529-01	TP-91	SOIL	Thallium	1.56	J	0.22	1.95	mg/Kg
Q2529-01	TP-91	SOIL	Vanadium	36.0		0.24	1.95	mg/Kg
Q2529-01	TP-91	SOIL	Zinc	29.3		0.22	1.95	mg/Kg
Client ID : TP-80								
Q2529-02	TP-80	SOIL	Aluminum	5340		0.77	4.59	mg/Kg
Q2529-02	TP-80	SOIL	Arsenic	5.90		0.18	0.92	mg/Kg
Q2529-02	TP-80	SOIL	Barium	16.7		0.67	4.59	mg/Kg
Q2529-02	TP-80	SOIL	Beryllium	0.60		0.023	0.28	mg/Kg
Q2529-02	TP-80	SOIL	Cadmium	0.14	J	0.022	0.28	mg/Kg
Q2529-02	TP-80	SOIL	Calcium	552		10.2	91.9	mg/Kg
Q2529-02	TP-80	SOIL	Chromium	17.3		0.043	0.46	mg/Kg
Q2529-02	TP-80	SOIL	Cobalt	2.83		0.092	1.38	mg/Kg
Q2529-02	TP-80	SOIL	Copper	7.87		0.20	0.92	mg/Kg
Q2529-02	TP-80	SOIL	Iron	15900		3.67	4.59	mg/Kg
Q2529-02	TP-80	SOIL	Lead	15.1		0.12	0.55	mg/Kg
Q2529-02	TP-80	SOIL	Magnesium	662		11.0	91.9	mg/Kg
Q2529-02	TP-80	SOIL	Manganese	38.8		0.13	0.92	mg/Kg
Q2529-02	TP-80	SOIL	Mercury	0.060		0.0080	0.015	mg/Kg
Q2529-02	TP-80	SOIL	Nickel	5.05		0.12	1.84	mg/Kg
Q2529-02	TP-80	SOIL	Potassium	271		25.5	91.9	mg/Kg
Q2529-02	TP-80	SOIL	Sodium	352		16.4	91.9	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2529

Order ID: Q2529

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2529-02	TP-80	SOIL	Thallium	0.23	J	0.21	1.84	mg/Kg
Q2529-02	TP-80	SOIL	Vanadium	25.0		0.23	1.84	mg/Kg
Q2529-02	TP-80	SOIL	Zinc	18.1		0.21	1.84	mg/Kg
Client ID : TP-79								
Q2529-03	TP-79	SOIL	Aluminum	8420		0.81	4.84	mg/Kg
Q2529-03	TP-79	SOIL	Arsenic	7.49		0.18	0.97	mg/Kg
Q2529-03	TP-79	SOIL	Barium	14.5		0.71	4.84	mg/Kg
Q2529-03	TP-79	SOIL	Beryllium	0.81		0.024	0.29	mg/Kg
Q2529-03	TP-79	SOIL	Calcium	48.7	J	10.8	96.8	mg/Kg
Q2529-03	TP-79	SOIL	Chromium	20.2		0.046	0.48	mg/Kg
Q2529-03	TP-79	SOIL	Cobalt	3.56		0.097	1.45	mg/Kg
Q2529-03	TP-79	SOIL	Copper	4.83		0.21	0.97	mg/Kg
Q2529-03	TP-79	SOIL	Iron	22300		3.86	4.84	mg/Kg
Q2529-03	TP-79	SOIL	Lead	7.21		0.13	0.58	mg/Kg
Q2529-03	TP-79	SOIL	Magnesium	397		11.6	96.8	mg/Kg
Q2529-03	TP-79	SOIL	Manganese	43.2		0.14	0.97	mg/Kg
Q2529-03	TP-79	SOIL	Mercury	0.063		0.0090	0.015	mg/Kg
Q2529-03	TP-79	SOIL	Nickel	6.07		0.13	1.94	mg/Kg
Q2529-03	TP-79	SOIL	Potassium	377		26.8	96.8	mg/Kg
Q2529-03	TP-79	SOIL	Silver	0.23	J	0.12	0.48	mg/Kg
Q2529-03	TP-79	SOIL	Sodium	465		17.2	96.8	mg/Kg
Q2529-03	TP-79	SOIL	Vanadium	34.4		0.24	1.94	mg/Kg
Q2529-03	TP-79	SOIL	Zinc	18.7		0.22	1.94	mg/Kg
Client ID : TP-95								
Q2529-04	TP-95	SOIL	Aluminum	10700		0.92	5.46	mg/Kg
Q2529-04	TP-95	SOIL	Arsenic	8.96		0.21	1.09	mg/Kg
Q2529-04	TP-95	SOIL	Barium	133		0.80	5.46	mg/Kg
Q2529-04	TP-95	SOIL	Beryllium	0.80		0.027	0.33	mg/Kg
Q2529-04	TP-95	SOIL	Chromium	12.4		0.051	0.55	mg/Kg
Q2529-04	TP-95	SOIL	Cobalt	4.08		0.11	1.64	mg/Kg
Q2529-04	TP-95	SOIL	Copper	6.77		0.24	1.09	mg/Kg
Q2529-04	TP-95	SOIL	Iron	21300		4.35	5.46	mg/Kg
Q2529-04	TP-95	SOIL	Lead	206		0.14	0.66	mg/Kg
Q2529-04	TP-95	SOIL	Magnesium	955		13.1	109	mg/Kg
Q2529-04	TP-95	SOIL	Manganese	66.4		0.15	1.09	mg/Kg
Q2529-04	TP-95	SOIL	Mercury	0.11		0.0090	0.016	mg/Kg
Q2529-04	TP-95	SOIL	Nickel	7.68		0.14	2.18	mg/Kg
Q2529-04	TP-95	SOIL	Potassium	380		30.2	109	mg/Kg
Q2529-04	TP-95	SOIL	Silver	0.27	J	0.13	0.55	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2529 **Order ID:** Q2529
Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2529-04	TP-95	SOIL	Sodium	309		19.4	109	mg/Kg
Q2529-04	TP-95	SOIL	Vanadium	29.3		0.27	2.18	mg/Kg
Q2529-04	TP-95	SOIL	Zinc	53.1		0.25	2.18	mg/Kg
Client ID : TP-98								
Q2529-05	TP-98	SOIL	Aluminum	7580		0.79	4.72	mg/Kg
Q2529-05	TP-98	SOIL	Arsenic	7.69		0.18	0.94	mg/Kg
Q2529-05	TP-98	SOIL	Barium	23.1		0.69	4.72	mg/Kg
Q2529-05	TP-98	SOIL	Beryllium	0.72		0.024	0.28	mg/Kg
Q2529-05	TP-98	SOIL	Cadmium	0.13	J	0.023	0.28	mg/Kg
Q2529-05	TP-98	SOIL	Calcium	47.5	J	10.5	94.3	mg/Kg
Q2529-05	TP-98	SOIL	Chromium	9.49		0.044	0.47	mg/Kg
Q2529-05	TP-98	SOIL	Cobalt	4.26		0.094	1.41	mg/Kg
Q2529-05	TP-98	SOIL	Copper	5.76		0.21	0.94	mg/Kg
Q2529-05	TP-98	SOIL	Iron	16800		3.76	4.72	mg/Kg
Q2529-05	TP-98	SOIL	Lead	11.4		0.12	0.57	mg/Kg
Q2529-05	TP-98	SOIL	Magnesium	647		11.3	94.3	mg/Kg
Q2529-05	TP-98	SOIL	Manganese	89.8		0.13	0.94	mg/Kg
Q2529-05	TP-98	SOIL	Mercury	0.078		0.0080	0.015	mg/Kg
Q2529-05	TP-98	SOIL	Nickel	6.52		0.12	1.89	mg/Kg
Q2529-05	TP-98	SOIL	Potassium	274		26.1	94.3	mg/Kg
Q2529-05	TP-98	SOIL	Sodium	207		16.8	94.3	mg/Kg
Q2529-05	TP-98	SOIL	Vanadium	23.6		0.24	1.89	mg/Kg
Q2529-05	TP-98	SOIL	Zinc	20.9		0.22	1.89	mg/Kg
Client ID : TP-102								
Q2529-06	TP-102	SOIL	Aluminum	2060		0.77	4.57	mg/Kg
Q2529-06	TP-102	SOIL	Arsenic	2.65		0.17	0.91	mg/Kg
Q2529-06	TP-102	SOIL	Barium	8.89		0.67	4.57	mg/Kg
Q2529-06	TP-102	SOIL	Beryllium	0.36		0.023	0.27	mg/Kg
Q2529-06	TP-102	SOIL	Calcium	41.6	J	10.1	91.4	mg/Kg
Q2529-06	TP-102	SOIL	Chromium	3.17		0.043	0.46	mg/Kg
Q2529-06	TP-102	SOIL	Cobalt	1.54		0.091	1.37	mg/Kg
Q2529-06	TP-102	SOIL	Copper	2.26		0.20	0.91	mg/Kg
Q2529-06	TP-102	SOIL	Iron	9030		3.65	4.57	mg/Kg
Q2529-06	TP-102	SOIL	Lead	2.41		0.12	0.55	mg/Kg
Q2529-06	TP-102	SOIL	Magnesium	158		11.0	91.4	mg/Kg
Q2529-06	TP-102	SOIL	Manganese	30.5		0.13	0.91	mg/Kg
Q2529-06	TP-102	SOIL	Nickel	1.60	J	0.12	1.83	mg/Kg
Q2529-06	TP-102	SOIL	Potassium	142		25.3	91.4	mg/Kg
Q2529-06	TP-102	SOIL	Sodium	210		16.3	91.4	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2529

Order ID: Q2529

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2529-06	TP-102	SOIL	Vanadium	13.2		0.23	1.83	mg/Kg
Q2529-06	TP-102	SOIL	Zinc	7.14		0.21	1.83	mg/Kg
Client ID : TP-101								
Q2529-07	TP-101	SOIL	Aluminum	13500		0.81	4.83	mg/Kg
Q2529-07	TP-101	SOIL	Arsenic	4.58		0.18	0.97	mg/Kg
Q2529-07	TP-101	SOIL	Barium	74.2		0.71	4.83	mg/Kg
Q2529-07	TP-101	SOIL	Beryllium	1.15		0.024	0.29	mg/Kg
Q2529-07	TP-101	SOIL	Cadmium	0.057	J	0.023	0.29	mg/Kg
Q2529-07	TP-101	SOIL	Chromium	6.21		0.045	0.48	mg/Kg
Q2529-07	TP-101	SOIL	Cobalt	4.62		0.097	1.45	mg/Kg
Q2529-07	TP-101	SOIL	Copper	2.57		0.21	0.97	mg/Kg
Q2529-07	TP-101	SOIL	Iron	18500		3.85	4.83	mg/Kg
Q2529-07	TP-101	SOIL	Lead	4.60		0.13	0.58	mg/Kg
Q2529-07	TP-101	SOIL	Magnesium	184		11.6	96.5	mg/Kg
Q2529-07	TP-101	SOIL	Manganese	42.9		0.14	0.97	mg/Kg
Q2529-07	TP-101	SOIL	Mercury	0.030		0.0080	0.015	mg/Kg
Q2529-07	TP-101	SOIL	Nickel	7.84		0.13	1.93	mg/Kg
Q2529-07	TP-101	SOIL	Potassium	168		26.7	96.5	mg/Kg
Q2529-07	TP-101	SOIL	Silver	0.12	J	0.12	0.48	mg/Kg
Q2529-07	TP-101	SOIL	Sodium	240		17.2	96.5	mg/Kg
Q2529-07	TP-101	SOIL	Vanadium	18.2		0.24	1.93	mg/Kg
Q2529-07	TP-101	SOIL	Zinc	17.8		0.22	1.93	mg/Kg
Client ID : TP-89								
Q2529-08	TP-89	SOIL	Aluminum	8870		0.84	4.98	mg/Kg
Q2529-08	TP-89	SOIL	Arsenic	6.60		0.19	1.00	mg/Kg
Q2529-08	TP-89	SOIL	Barium	14.2		0.73	4.98	mg/Kg
Q2529-08	TP-89	SOIL	Beryllium	0.63		0.025	0.30	mg/Kg
Q2529-08	TP-89	SOIL	Calcium	289		11.0	99.5	mg/Kg
Q2529-08	TP-89	SOIL	Chromium	15.8		0.047	0.50	mg/Kg
Q2529-08	TP-89	SOIL	Cobalt	1.74		0.10	1.49	mg/Kg
Q2529-08	TP-89	SOIL	Copper	3.87		0.22	1.00	mg/Kg
Q2529-08	TP-89	SOIL	Iron	17600		3.97	4.98	mg/Kg
Q2529-08	TP-89	SOIL	Lead	5.91		0.13	0.60	mg/Kg
Q2529-08	TP-89	SOIL	Magnesium	207		11.9	99.5	mg/Kg
Q2529-08	TP-89	SOIL	Manganese	17.4		0.14	1.00	mg/Kg
Q2529-08	TP-89	SOIL	Mercury	0.042		0.0090	0.016	mg/Kg
Q2529-08	TP-89	SOIL	Nickel	3.57		0.13	1.99	mg/Kg
Q2529-08	TP-89	SOIL	Potassium	394		27.6	99.5	mg/Kg
Q2529-08	TP-89	SOIL	Sodium	392		17.7	99.5	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2529

Order ID: Q2529

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2529-08	TP-89	SOIL	Vanadium	44.6		0.25	1.99	mg/Kg
Q2529-08	TP-89	SOIL	Zinc	8.81		0.23	1.99	mg/Kg
Client ID : TP-33								
Q2529-09	TP-33	SOIL	Aluminum	9180		0.80	4.78	mg/Kg
Q2529-09	TP-33	SOIL	Arsenic	2.79		0.18	0.96	mg/Kg
Q2529-09	TP-33	SOIL	Barium	34.9		0.70	4.78	mg/Kg
Q2529-09	TP-33	SOIL	Beryllium	0.74		0.024	0.29	mg/Kg
Q2529-09	TP-33	SOIL	Chromium	3.67		0.045	0.48	mg/Kg
Q2529-09	TP-33	SOIL	Cobalt	4.00		0.096	1.44	mg/Kg
Q2529-09	TP-33	SOIL	Copper	2.30		0.21	0.96	mg/Kg
Q2529-09	TP-33	SOIL	Iron	11900		3.82	4.78	mg/Kg
Q2529-09	TP-33	SOIL	Lead	3.50		0.12	0.57	mg/Kg
Q2529-09	TP-33	SOIL	Magnesium	281		11.5	95.7	mg/Kg
Q2529-09	TP-33	SOIL	Manganese	305		0.13	0.96	mg/Kg
Q2529-09	TP-33	SOIL	Mercury	0.011	J	0.0070	0.013	mg/Kg
Q2529-09	TP-33	SOIL	Nickel	5.08		0.12	1.91	mg/Kg
Q2529-09	TP-33	SOIL	Potassium	155		26.5	95.7	mg/Kg
Q2529-09	TP-33	SOIL	Sodium	275		17.0	95.7	mg/Kg
Q2529-09	TP-33	SOIL	Vanadium	16.3		0.24	1.91	mg/Kg
Q2529-09	TP-33	SOIL	Zinc	17.0		0.22	1.91	mg/Kg
Client ID : TP-30								
Q2529-10	TP-30	SOIL	Aluminum	6310		0.86	5.09	mg/Kg
Q2529-10	TP-30	SOIL	Arsenic	4.59		0.19	1.02	mg/Kg
Q2529-10	TP-30	SOIL	Barium	4.62	J	0.74	5.09	mg/Kg
Q2529-10	TP-30	SOIL	Beryllium	0.93		0.025	0.31	mg/Kg
Q2529-10	TP-30	SOIL	Chromium	5.90		0.048	0.51	mg/Kg
Q2529-10	TP-30	SOIL	Cobalt	5.07		0.10	1.53	mg/Kg
Q2529-10	TP-30	SOIL	Copper	2.43		0.22	1.02	mg/Kg
Q2529-10	TP-30	SOIL	Iron	13800		4.06	5.09	mg/Kg
Q2529-10	TP-30	SOIL	Lead	2.66		0.13	0.61	mg/Kg
Q2529-10	TP-30	SOIL	Magnesium	128		12.2	102	mg/Kg
Q2529-10	TP-30	SOIL	Manganese	112		0.14	1.02	mg/Kg
Q2529-10	TP-30	SOIL	Mercury	0.020		0.0080	0.014	mg/Kg
Q2529-10	TP-30	SOIL	Nickel	5.95		0.13	2.04	mg/Kg
Q2529-10	TP-30	SOIL	Potassium	68.5	J	28.2	102	mg/Kg
Q2529-10	TP-30	SOIL	Sodium	154		18.1	102	mg/Kg
Q2529-10	TP-30	SOIL	Vanadium	16.2		0.25	2.04	mg/Kg
Q2529-10	TP-30	SOIL	Zinc	15.6		0.23	2.04	mg/Kg