

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 : Q2514

ATTENTION : Marcie Ann Encinas



Laboratory Certification ID # 20012



Hit Summary Sheet
SW-846

SDG No.: Q2514

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	TP-92							
Q2514-01	TP-92	SOIL	Methylene Chloride	5.50	JQ	3.50	10.0	ug/Kg
Q2514-01	TP-92	SOIL	Chloroform	5.60		0.84	5.00	ug/Kg
			Total Voc :	11.1				
			Total Concentration:	11.1				
Client ID:	TP-93							
Q2514-02	TP-93	SOIL	Methylene Chloride	10.9	JQ	4.40	12.4	ug/Kg
			Total Voc :	10.9				
Q2514-02	TP-93	SOIL	1,2,4-Trimethylbenzene	* 3.30	J	0.79	6.20	ug/Kg
			Total Tics :	3.30				
			Total Concentration:	14.2				
Client ID:	TP-103							
Q2514-06	TP-103	SOIL	Methylene Chloride	10.5	JQ	4.00	11.3	ug/Kg
			Total Voc :	10.5				
			Total Concentration:	10.5				
Client ID:	TP-36							
Q2514-07	TP-36	SOIL	Methylene Chloride	8.00	JQ	3.00	8.50	ug/Kg
			Total Voc :	8.00				
			Total Concentration:	8.00				
Client ID:	TP-78							
Q2514-08	TP-78	SOIL	Methylene Chloride	7.50	JQ	4.00	11.3	ug/Kg
			Total Voc :	7.50				
			Total Concentration:	7.50				
Client ID:	TP-90							
Q2514-10	TP-90	SOIL	Methylene Chloride	13.7	JQ	7.20	20.3	ug/Kg
			Total Voc :	13.7				
			Total Concentration:	13.7				

Hit Summary Sheet SW-846

SDG No.: Q2514
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-92								
Q2514-01	TP-92	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	220.000	AB	0	0	ug/Kg
Q2514-01	TP-92	SOIL	Benzophenone *	260.000	J	0	0	ug/Kg
Q2514-01	TP-92	SOIL	Phenyl(2-phenyl-1,3-dioxolan-2-y *	190.000	J	0	0	ug/Kg
Q2514-01	TP-92	SOIL	unknown13.716 *	97.500	J	0	0	ug/Kg
Q2514-01	TP-92	SOIL	unknown13.886 *	99.000	J	0	0	ug/Kg
Total Tics :				866.50				
Total Concentration:				866.50				
Client ID : TP-93								
Q2514-02	TP-93	SOIL	1-Octadecanesulphonyl chloride *	100.000	J	0	0	ug/Kg
Q2514-02	TP-93	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	170.000	AB	0	0	ug/Kg
Q2514-02	TP-93	SOIL	Benzophenone *	180.000	J	0	0	ug/Kg
Q2514-02	TP-93	SOIL	Eicosane *	300.000	J	0	0	ug/Kg
Q2514-02	TP-93	SOIL	Heptacosane *	140.000	J	0	0	ug/Kg
Q2514-02	TP-93	SOIL	Heptadecane *	130.000	J	0	0	ug/Kg
Q2514-02	TP-93	SOIL	Heptadecyl trifluoroacetate *	160.000	J	0	0	ug/Kg
Q2514-02	TP-93	SOIL	Hexacosane *	87.400	J	0	0	ug/Kg
Q2514-02	TP-93	SOIL	n-Hexadecanoic acid *	150.000	J	0	0	ug/Kg
Q2514-02	TP-93	SOIL	Nonadecane *	160.000	J	0	0	ug/Kg
Q2514-02	TP-93	SOIL	Octacosane *	81.300	J	0	0	ug/Kg
Q2514-02	TP-93	SOIL	Pentadecane, 2,6,10,14-tetramethy *	79.000	J	0	0	ug/Kg
Q2514-02	TP-93	SOIL	Tetracosane *	100.000	J	0	0	ug/Kg
Q2514-02	TP-93	SOIL	Tetradecane *	80.900	J	0	0	ug/Kg
Q2514-02	TP-93	SOIL	Tridecane *	130.000	J	0	0	ug/Kg
Total Tics :				2,048.60				
Total Concentration:				2,048.60				
Client ID : TP-94								
Q2514-03	TP-94	SOIL	1-Heneicosanol *	180.000	J	0	0	ug/Kg
Q2514-03	TP-94	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	230.000	AB	0	0	ug/Kg
Q2514-03	TP-94	SOIL	3,6,9,12-Tetraoxatetradecane-1,14 *	210.000	J	0	0	ug/Kg
Q2514-03	TP-94	SOIL	Benzophenone *	230.000	J	0	0	ug/Kg
Q2514-03	TP-94	SOIL	n-Tetracosanol-1 *	210.000	J	0	0	ug/Kg
Total Tics :				1,060.00				
Total Concentration:				1,060.00				
Client ID : TP-96								
Q2514-04	TP-96	SOIL	Phenanthrene	79.200	J	24.3	200	ug/Kg
Q2514-04	TP-96	SOIL	Fluoranthene	420.000		34.9	200	ug/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2514
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2514-04	TP-96	SOIL	Pyrene	200.000		41.9	200	ug/Kg
Q2514-04	TP-96	SOIL	Benzo(a)anthracene	180.000	J	26.8	200	ug/Kg
Q2514-04	TP-96	SOIL	Chrysene	200.000		23.2	200	ug/Kg
Q2514-04	TP-96	SOIL	Benzo(b)fluoranthene	310.000		22.1	200	ug/Kg
Q2514-04	TP-96	SOIL	Benzo(k)fluoranthene	140.000	J	26.1	200	ug/Kg
Q2514-04	TP-96	SOIL	Benzo(a)pyrene	210.000		34.3	200	ug/Kg
Q2514-04	TP-96	SOIL	Indeno(1,2,3-cd)pyrene	79.300	J	33.9	200	ug/Kg
Q2514-04	TP-96	SOIL	Benzo(g,h,i)perylene	96.500	J	29.9	200	ug/Kg
Total Svoc :				1,915.00				
Q2514-04	TP-96	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	170.000	AB	0	0	ug/Kg
Q2514-04	TP-96	SOIL	Benzo[e]pyrene *	160.000	J	0	0	ug/Kg
Q2514-04	TP-96	SOIL	Benzophenone *	170.000	J	0	0	ug/Kg
Q2514-04	TP-96	SOIL	unknown13.904 *	140.000	J	0	0	ug/Kg
Total Tics :				640.00				
Total Concentration:				2,555.00				
Client ID : TP-97								
Q2514-05	TP-97	SOIL	Fluoranthene	92.400	J	35.2	200	ug/Kg
Q2514-05	TP-97	SOIL	Pyrene	86.500	J	42.3	200	ug/Kg
Q2514-05	TP-97	SOIL	Chrysene	80.800	J	23.4	200	ug/Kg
Q2514-05	TP-97	SOIL	Benzo(b)fluoranthene	120.000	J	22.3	200	ug/Kg
Q2514-05	TP-97	SOIL	Benzo(a)pyrene	87.500	J	34.6	200	ug/Kg
Total Svoc :				467.20				
Q2514-05	TP-97	SOIL	Benzophenone *	230.000	J	0	0	ug/Kg
Q2514-05	TP-97	SOIL	2,2-(Ethane-1,2-diylbis(oxy))bis(*	150.000	J	0	0	ug/Kg
Q2514-05	TP-97	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	210.000	AB	0	0	ug/Kg
Total Tics :				590.00				
Total Concentration:				1,057.20				
Client ID : TP-103								
Q2514-06	TP-103	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	220.000	AB	0	0	ug/Kg
Q2514-06	TP-103	SOIL	Benzophenone *	170.000	J	0	0	ug/Kg
Q2514-06	TP-103	SOIL	Diethylene glycol dibenzoate *	120.000	J	0	0	ug/Kg
Total Tics :				510.00				
Total Concentration:				510.00				
Client ID : TP-36								
Q2514-07	TP-36	SOIL	1-Hexadecanol *	200.000	J	0	0	ug/Kg
Q2514-07	TP-36	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	200.000	AB	0	0	ug/Kg
Q2514-07	TP-36	SOIL	Benzophenone *	270.000	J	0	0	ug/Kg
Q2514-07	TP-36	SOIL	Eicosane *	6,300.000	J	0	0	ug/Kg
Q2514-07	TP-36	SOIL	Heneicosane *	540.000	J	0	0	ug/Kg

Hit Summary Sheet SW-846

SDG No.: Q2514
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2514-07	TP-36	SOIL	Hentriacontane	*	200.000	JB	0	ug/Kg
Q2514-07	TP-36	SOIL	Heptacosane	*	2,100.000	J	0	ug/Kg
Q2514-07	TP-36	SOIL	Hexacosane	*	3,800.000	J	0	ug/Kg
Q2514-07	TP-36	SOIL	n-Hexadecanoic acid	*	1,400.000	J	0	ug/Kg
Q2514-07	TP-36	SOIL	Octacosane	*	4,400.000	J	0	ug/Kg
Q2514-07	TP-36	SOIL	Octacosane, 2-methyl-	*	310.000	J	0	ug/Kg
Q2514-07	TP-36	SOIL	Octadecanoic acid	*	2,000.000	J	0	ug/Kg
Q2514-07	TP-36	SOIL	Octadecanoic acid, dodecyl ester	*	630.000	J	0	ug/Kg
Q2514-07	TP-36	SOIL	Pentacosane	*	2,400.000	J	0	ug/Kg
Q2514-07	TP-36	SOIL	Pentadecafluorooctanoic acid, octa	*	580.000	J	0	ug/Kg
Q2514-07	TP-36	SOIL	Tetracosane	*	8,000.000	J	0	ug/Kg
Q2514-07	TP-36	SOIL	Tetracosane, 11-decyl-	*	980.000	J	0	ug/Kg
Q2514-07	TP-36	SOIL	Tetratetracontane	*	140.000	J	0	ug/Kg
Q2514-07	TP-36	SOIL	Tricosane, 2-methyl-	*	130.000	J	0	ug/Kg
Q2514-07	TP-36	SOIL	unknown17.256	*	330.000	J	0	ug/Kg
Total Tics :				34,910.00				
Total Concentration:				34,910.00				
Client ID : TP-78								
Q2514-08	TP-78	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	250.000	AB	0	ug/Kg
Q2514-08	TP-78	SOIL	Benzophenone	*	320.000	J	0	ug/Kg
Q2514-08	TP-78	SOIL	Dotriacontane, 1-iodo-	*	110.000	J	0	ug/Kg
Q2514-08	TP-78	SOIL	Octacosane	*	94.900	J	0	ug/Kg
Q2514-08	TP-78	SOIL	Octadecanoic acid	*	120.000	J	0	ug/Kg
Q2514-08	TP-78	SOIL	Octadecyl trifluoroacetate	*	150.000	J	0	ug/Kg
Q2514-08	TP-78	SOIL	Phenyl(2-phenyl-1,3-dioxolan-2-y	*	180.000	J	0	ug/Kg
Total Tics :				1,224.90				
Total Concentration:				1,224.90				
Client ID : TP-81								
Q2514-09	TP-81	SOIL	2-Bromomethyl-2-phenyl[1,3]dio	*	190.000	J	0	ug/Kg
Q2514-09	TP-81	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	200.000	AB	0	ug/Kg
Q2514-09	TP-81	SOIL	Benzophenone	*	230.000	J	0	ug/Kg
Q2514-09	TP-81	SOIL	unknown13.886	*	140.000	J	0	ug/Kg
Total Tics :				760.00				
Total Concentration:				760.00				
Client ID : TP-90								
Q2514-10	TP-90	SOIL	Fluoranthene		94.700	J	32.7	ug/Kg
Q2514-10	TP-90	SOIL	Benzo(a)anthracene		73.500	J	25	ug/Kg
Q2514-10	TP-90	SOIL	Chrysene		74.000	J	21.7	ug/Kg
Q2514-10	TP-90	SOIL	Benzo(b)fluoranthene		140.000	J	20.7	ug/Kg

Hit Summary Sheet SW-846

SDG No.: Q2514
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2514-10	TP-90	SOIL	Benzo(a)pyrene	98.900	J	32.1	190	ug/Kg
Total Svoc :				481.10				
Q2514-10	TP-90	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	110.000	AB	0	0	ug/Kg
Q2514-10	TP-90	SOIL	Benzo[e]pyrene *	77.300	J	0	0	ug/Kg
Q2514-10	TP-90	SOIL	Benzophenone *	130.000	J	0	0	ug/Kg
Q2514-10	TP-90	SOIL	N-[(2-Phenyl-1,3-dioxolan-2-yl)m *	86.000	J	0	0	ug/Kg
Total Tics :				403.30				
Total Concentration:				884.40				

Hit Summary Sheet
SW-846

SDG No.: Q2514

Order ID: Q2514

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-93								
Q2514-02	TP-93	SOIL	alpha-Chlordane	0.36	J	0.14	1.90	ug/kg
Q2514-02	TP-93	SOIL	gamma-Chlordane	0.19	J	0.17	1.90	ug/kg
Total Concentration:				0.550				
Client ID : TP-94								
Q2514-03	TP-94	SOIL	4,4-DDE	0.42	JP	0.16	1.90	ug/kg
Q2514-03	TP-94	SOIL	4,4-DDT	0.55	J	0.16	1.90	ug/kg
Total Concentration:				0.970				
Client ID : TP-96								
Q2514-04	TP-96	SOIL	4,4-DDT	0.33	J	0.16	2.00	ug/kg
Total Concentration:				0.330				
Client ID : TP-97								
Q2514-05	TP-97	SOIL	4,4-DDT	0.27	J	0.16	2.00	ug/kg
Total Concentration:				0.270				



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

Hit Summary Sheet
SW-846

SDG No.: Q2514

Order ID: Q2514

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.: Q2514

Order ID: Q2514

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.: Q2514

Order ID: Q2514

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-92								
Q2514-01	TP-92	SOIL	Aluminum	8400		0.84	5.00	mg/Kg
Q2514-01	TP-92	SOIL	Antimony	1.32	J	0.22	2.50	mg/Kg
Q2514-01	TP-92	SOIL	Arsenic	6.73		0.19	1.00	mg/Kg
Q2514-01	TP-92	SOIL	Barium	53.0		0.73	5.00	mg/Kg
Q2514-01	TP-92	SOIL	Beryllium	0.79		0.025	0.30	mg/Kg
Q2514-01	TP-92	SOIL	Calcium	180		11.1	99.9	mg/Kg
Q2514-01	TP-92	SOIL	Chromium	11.4		0.047	0.50	mg/Kg
Q2514-01	TP-92	SOIL	Cobalt	2.27		0.10	1.50	mg/Kg
Q2514-01	TP-92	SOIL	Copper	1.26		0.22	1.00	mg/Kg
Q2514-01	TP-92	SOIL	Iron	23500		3.99	5.00	mg/Kg
Q2514-01	TP-92	SOIL	Lead	11.9		0.13	0.60	mg/Kg
Q2514-01	TP-92	SOIL	Magnesium	353		12.0	99.9	mg/Kg
Q2514-01	TP-92	SOIL	Manganese	38.3		0.14	1.00	mg/Kg
Q2514-01	TP-92	SOIL	Mercury	0.021		0.0080	0.014	mg/Kg
Q2514-01	TP-92	SOIL	Nickel	4.82		0.13	2.00	mg/Kg
Q2514-01	TP-92	SOIL	Potassium	409		27.7	99.9	mg/Kg
Q2514-01	TP-92	SOIL	Selenium	6.28		0.26	1.00	mg/Kg
Q2514-01	TP-92	SOIL	Silver	0.19	J	0.12	0.50	mg/Kg
Q2514-01	TP-92	SOIL	Sodium	364		17.8	99.9	mg/Kg
Q2514-01	TP-92	SOIL	Vanadium	22.9		0.25	2.00	mg/Kg
Q2514-01	TP-92	SOIL	Zinc	21.7		0.11	2.00	mg/Kg
Client ID : TP-93								
Q2514-02	TP-93	SOIL	Aluminum	7940		0.84	5.02	mg/Kg
Q2514-02	TP-93	SOIL	Antimony	1.62	J	0.22	2.51	mg/Kg
Q2514-02	TP-93	SOIL	Arsenic	10.3		0.19	1.00	mg/Kg
Q2514-02	TP-93	SOIL	Barium	17.1		0.73	5.02	mg/Kg
Q2514-02	TP-93	SOIL	Beryllium	0.82		0.025	0.30	mg/Kg
Q2514-02	TP-93	SOIL	Calcium	383		11.2	100	mg/Kg
Q2514-02	TP-93	SOIL	Chromium	22.5		0.047	0.50	mg/Kg
Q2514-02	TP-93	SOIL	Cobalt	2.51		0.10	1.51	mg/Kg
Q2514-02	TP-93	SOIL	Copper	4.12		0.22	1.00	mg/Kg
Q2514-02	TP-93	SOIL	Iron	25400		4.01	5.02	mg/Kg
Q2514-02	TP-93	SOIL	Lead	11.0		0.13	0.60	mg/Kg
Q2514-02	TP-93	SOIL	Magnesium	388		12.1	100	mg/Kg
Q2514-02	TP-93	SOIL	Manganese	44.0		0.14	1.00	mg/Kg
Q2514-02	TP-93	SOIL	Mercury	0.022		0.0080	0.014	mg/Kg
Q2514-02	TP-93	SOIL	Nickel	5.06		0.13	2.01	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2514
Client: CDM Smith

Order ID: Q2514
Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2514-02	TP-93	SOIL	Potassium	337		27.8	100	mg/Kg
Q2514-02	TP-93	SOIL	Selenium	6.69		0.26	1.00	mg/Kg
Q2514-02	TP-93	SOIL	Silver	0.17	J	0.12	0.50	mg/Kg
Q2514-02	TP-93	SOIL	Sodium	707		17.9	100	mg/Kg
Q2514-02	TP-93	SOIL	Vanadium	40.1		0.25	2.01	mg/Kg
Q2514-02	TP-93	SOIL	Zinc	16.5		0.11	2.01	mg/Kg
Client ID : TP-94								
Q2514-03	TP-94	SOIL	Aluminum	9340		0.81	4.79	mg/Kg
Q2514-03	TP-94	SOIL	Antimony	1.43	J	0.21	2.39	mg/Kg
Q2514-03	TP-94	SOIL	Arsenic	9.25		0.18	0.96	mg/Kg
Q2514-03	TP-94	SOIL	Barium	22.9		0.70	4.79	mg/Kg
Q2514-03	TP-94	SOIL	Beryllium	0.80		0.024	0.29	mg/Kg
Q2514-03	TP-94	SOIL	Calcium	120		10.6	95.8	mg/Kg
Q2514-03	TP-94	SOIL	Chromium	17.2		0.045	0.48	mg/Kg
Q2514-03	TP-94	SOIL	Cobalt	3.41		0.096	1.44	mg/Kg
Q2514-03	TP-94	SOIL	Copper	4.08		0.21	0.96	mg/Kg
Q2514-03	TP-94	SOIL	Iron	23700		3.82	4.79	mg/Kg
Q2514-03	TP-94	SOIL	Lead	15.5		0.13	0.57	mg/Kg
Q2514-03	TP-94	SOIL	Magnesium	686		11.5	95.8	mg/Kg
Q2514-03	TP-94	SOIL	Manganese	51.5		0.13	0.96	mg/Kg
Q2514-03	TP-94	SOIL	Mercury	0.036		0.0080	0.014	mg/Kg
Q2514-03	TP-94	SOIL	Nickel	6.62		0.13	1.92	mg/Kg
Q2514-03	TP-94	SOIL	Potassium	373		26.5	95.8	mg/Kg
Q2514-03	TP-94	SOIL	Selenium	6.45		0.25	0.96	mg/Kg
Q2514-03	TP-94	SOIL	Sodium	245		17.1	95.8	mg/Kg
Q2514-03	TP-94	SOIL	Vanadium	35.4		0.24	1.92	mg/Kg
Q2514-03	TP-94	SOIL	Zinc	19.0		0.11	1.92	mg/Kg
Client ID : TP-96								
Q2514-04	TP-96	SOIL	Aluminum	11000		0.83	4.94	mg/Kg
Q2514-04	TP-96	SOIL	Antimony	1.54	J	0.22	2.47	mg/Kg
Q2514-04	TP-96	SOIL	Arsenic	10.5		0.19	0.99	mg/Kg
Q2514-04	TP-96	SOIL	Barium	23.6		0.72	4.94	mg/Kg
Q2514-04	TP-96	SOIL	Beryllium	0.86		0.025	0.30	mg/Kg
Q2514-04	TP-96	SOIL	Calcium	261		11.0	98.8	mg/Kg
Q2514-04	TP-96	SOIL	Chromium	20.3		0.046	0.49	mg/Kg
Q2514-04	TP-96	SOIL	Cobalt	2.91		0.099	1.48	mg/Kg
Q2514-04	TP-96	SOIL	Copper	3.65		0.22	0.99	mg/Kg
Q2514-04	TP-96	SOIL	Iron	24200		3.94	4.94	mg/Kg
Q2514-04	TP-96	SOIL	Lead	16.6		0.13	0.59	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2514

Order ID: Q2514

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2514-04	TP-96	SOIL	Magnesium	592		11.9	98.8	mg/Kg
Q2514-04	TP-96	SOIL	Manganese	55.6		0.14	0.99	mg/Kg
Q2514-04	TP-96	SOIL	Mercury	0.046		0.0080	0.015	mg/Kg
Q2514-04	TP-96	SOIL	Nickel	6.27		0.13	1.98	mg/Kg
Q2514-04	TP-96	SOIL	Potassium	423		27.4	98.8	mg/Kg
Q2514-04	TP-96	SOIL	Selenium	6.74		0.26	0.99	mg/Kg
Q2514-04	TP-96	SOIL	Sodium	225		17.6	98.8	mg/Kg
Q2514-04	TP-96	SOIL	Vanadium	36.8		0.25	1.98	mg/Kg
Q2514-04	TP-96	SOIL	Zinc	19.3		0.11	1.98	mg/Kg
Client ID : TP-97								
Q2514-05	TP-97	SOIL	Aluminum	10500		0.81	4.80	mg/Kg
Q2514-05	TP-97	SOIL	Antimony	1.32	J	0.21	2.40	mg/Kg
Q2514-05	TP-97	SOIL	Arsenic	8.80		0.18	0.96	mg/Kg
Q2514-05	TP-97	SOIL	Barium	28.6		0.70	4.80	mg/Kg
Q2514-05	TP-97	SOIL	Beryllium	0.79		0.024	0.29	mg/Kg
Q2514-05	TP-97	SOIL	Calcium	240		10.7	96.0	mg/Kg
Q2514-05	TP-97	SOIL	Chromium	16.0		0.045	0.48	mg/Kg
Q2514-05	TP-97	SOIL	Cobalt	3.42		0.096	1.44	mg/Kg
Q2514-05	TP-97	SOIL	Copper	4.46		0.21	0.96	mg/Kg
Q2514-05	TP-97	SOIL	Iron	22200		3.83	4.80	mg/Kg
Q2514-05	TP-97	SOIL	Lead	14.1		0.13	0.58	mg/Kg
Q2514-05	TP-97	SOIL	Magnesium	706		11.5	96.0	mg/Kg
Q2514-05	TP-97	SOIL	Manganese	46.7		0.13	0.96	mg/Kg
Q2514-05	TP-97	SOIL	Mercury	0.029		0.0080	0.015	mg/Kg
Q2514-05	TP-97	SOIL	Nickel	6.81		0.13	1.92	mg/Kg
Q2514-05	TP-97	SOIL	Potassium	406		26.6	96.0	mg/Kg
Q2514-05	TP-97	SOIL	Selenium	6.10		0.25	0.96	mg/Kg
Q2514-05	TP-97	SOIL	Silver	0.12	J	0.12	0.48	mg/Kg
Q2514-05	TP-97	SOIL	Sodium	595		17.1	96.0	mg/Kg
Q2514-05	TP-97	SOIL	Vanadium	35.3		0.24	1.92	mg/Kg
Q2514-05	TP-97	SOIL	Zinc	18.0		0.11	1.92	mg/Kg
Client ID : TP-103								
Q2514-06	TP-103	SOIL	Aluminum	10200		0.89	5.30	mg/Kg
Q2514-06	TP-103	SOIL	Antimony	1.40	J	0.23	2.65	mg/Kg
Q2514-06	TP-103	SOIL	Arsenic	10.0		0.20	1.06	mg/Kg
Q2514-06	TP-103	SOIL	Barium	23.9		0.77	5.30	mg/Kg
Q2514-06	TP-103	SOIL	Beryllium	0.91		0.027	0.32	mg/Kg
Q2514-06	TP-103	SOIL	Cadmium	0.029	J	0.025	0.32	mg/Kg
Q2514-06	TP-103	SOIL	Calcium	531		11.8	106	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2514

Order ID: Q2514

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2514-06	TP-103	SOIL	Chromium	21.8		0.050	0.53	mg/Kg
Q2514-06	TP-103	SOIL	Cobalt	3.97		0.11	1.59	mg/Kg
Q2514-06	TP-103	SOIL	Copper	3.51		0.23	1.06	mg/Kg
Q2514-06	TP-103	SOIL	Iron	26100		4.23	5.30	mg/Kg
Q2514-06	TP-103	SOIL	Lead	11.9		0.14	0.64	mg/Kg
Q2514-06	TP-103	SOIL	Magnesium	568		12.7	106	mg/Kg
Q2514-06	TP-103	SOIL	Manganese	61.9		0.15	1.06	mg/Kg
Q2514-06	TP-103	SOIL	Mercury	0.070		0.0080	0.014	mg/Kg
Q2514-06	TP-103	SOIL	Nickel	6.65		0.14	2.12	mg/Kg
Q2514-06	TP-103	SOIL	Potassium	282		29.4	106	mg/Kg
Q2514-06	TP-103	SOIL	Selenium	6.81		0.28	1.06	mg/Kg
Q2514-06	TP-103	SOIL	Sodium	288		18.9	106	mg/Kg
Q2514-06	TP-103	SOIL	Vanadium	38.3		0.27	2.12	mg/Kg
Q2514-06	TP-103	SOIL	Zinc	18.3		0.12	2.12	mg/Kg
Client ID : TP-36								
Q2514-07	TP-36	SOIL	Aluminum	8840		0.79	4.67	mg/Kg
Q2514-07	TP-36	SOIL	Antimony	1.28	J	0.21	2.34	mg/Kg
Q2514-07	TP-36	SOIL	Arsenic	6.18		0.18	0.94	mg/Kg
Q2514-07	TP-36	SOIL	Barium	9.64		0.68	4.67	mg/Kg
Q2514-07	TP-36	SOIL	Beryllium	0.88		0.023	0.28	mg/Kg
Q2514-07	TP-36	SOIL	Cadmium	0.052	J	0.022	0.28	mg/Kg
Q2514-07	TP-36	SOIL	Calcium	477		10.4	93.5	mg/Kg
Q2514-07	TP-36	SOIL	Chromium	16.1		0.044	0.47	mg/Kg
Q2514-07	TP-36	SOIL	Cobalt	1.87		0.093	1.40	mg/Kg
Q2514-07	TP-36	SOIL	Copper	0.79	J	0.21	0.94	mg/Kg
Q2514-07	TP-36	SOIL	Iron	20600		3.73	4.67	mg/Kg
Q2514-07	TP-36	SOIL	Lead	44.9		0.12	0.56	mg/Kg
Q2514-07	TP-36	SOIL	Magnesium	378		11.2	93.5	mg/Kg
Q2514-07	TP-36	SOIL	Manganese	14.6		0.13	0.94	mg/Kg
Q2514-07	TP-36	SOIL	Mercury	0.019		0.0080	0.015	mg/Kg
Q2514-07	TP-36	SOIL	Nickel	5.00		0.12	1.87	mg/Kg
Q2514-07	TP-36	SOIL	Potassium	980		25.9	93.5	mg/Kg
Q2514-07	TP-36	SOIL	Selenium	5.42		0.24	0.94	mg/Kg
Q2514-07	TP-36	SOIL	Sodium	249		16.6	93.5	mg/Kg
Q2514-07	TP-36	SOIL	Vanadium	40.8		0.23	1.87	mg/Kg
Q2514-07	TP-36	SOIL	Zinc	16.7		0.10	1.87	mg/Kg
Client ID : TP-78								
Q2514-08	TP-78	SOIL	Aluminum	6500		0.80	4.79	mg/Kg
Q2514-08	TP-78	SOIL	Antimony	1.41	J	0.21	2.39	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2514

Order ID: Q2514

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2514-08	TP-78	SOIL	Arsenic	8.20		0.18	0.96	mg/Kg
Q2514-08	TP-78	SOIL	Barium	14.0		0.70	4.79	mg/Kg
Q2514-08	TP-78	SOIL	Beryllium	0.67		0.024	0.29	mg/Kg
Q2514-08	TP-78	SOIL	Calcium	137		10.6	95.8	mg/Kg
Q2514-08	TP-78	SOIL	Chromium	16.6		0.045	0.48	mg/Kg
Q2514-08	TP-78	SOIL	Cobalt	1.74		0.096	1.44	mg/Kg
Q2514-08	TP-78	SOIL	Copper	2.21		0.21	0.96	mg/Kg
Q2514-08	TP-78	SOIL	Iron	24500		3.82	4.79	mg/Kg
Q2514-08	TP-78	SOIL	Lead	8.24		0.12	0.57	mg/Kg
Q2514-08	TP-78	SOIL	Magnesium	489		11.5	95.8	mg/Kg
Q2514-08	TP-78	SOIL	Manganese	37.9		0.13	0.96	mg/Kg
Q2514-08	TP-78	SOIL	Mercury	0.030		0.0080	0.015	mg/Kg
Q2514-08	TP-78	SOIL	Nickel	4.32		0.12	1.92	mg/Kg
Q2514-08	TP-78	SOIL	Potassium	640		26.5	95.8	mg/Kg
Q2514-08	TP-78	SOIL	Selenium	6.57		0.25	0.96	mg/Kg
Q2514-08	TP-78	SOIL	Silver	0.12	J	0.12	0.48	mg/Kg
Q2514-08	TP-78	SOIL	Sodium	154		17.0	95.8	mg/Kg
Q2514-08	TP-78	SOIL	Vanadium	41.8		0.24	1.92	mg/Kg
Q2514-08	TP-78	SOIL	Zinc	15.7		0.11	1.92	mg/Kg
Client ID : TP-81								
Q2514-09	TP-81	SOIL	Aluminum	7770		0.90	5.34	mg/Kg
Q2514-09	TP-81	SOIL	Antimony	1.06	J	0.24	2.67	mg/Kg
Q2514-09	TP-81	SOIL	Arsenic	7.35		0.20	1.07	mg/Kg
Q2514-09	TP-81	SOIL	Barium	30.4		0.78	5.34	mg/Kg
Q2514-09	TP-81	SOIL	Beryllium	0.70		0.027	0.32	mg/Kg
Q2514-09	TP-81	SOIL	Cadmium	0.044	J	0.026	0.32	mg/Kg
Q2514-09	TP-81	SOIL	Calcium	579		11.9	107	mg/Kg
Q2514-09	TP-81	SOIL	Chromium	14.9		0.050	0.53	mg/Kg
Q2514-09	TP-81	SOIL	Cobalt	4.09		0.11	1.60	mg/Kg
Q2514-09	TP-81	SOIL	Copper	2.79		0.24	1.07	mg/Kg
Q2514-09	TP-81	SOIL	Iron	18000		4.26	5.34	mg/Kg
Q2514-09	TP-81	SOIL	Lead	11.4		0.14	0.64	mg/Kg
Q2514-09	TP-81	SOIL	Magnesium	649		12.8	107	mg/Kg
Q2514-09	TP-81	SOIL	Manganese	74.2		0.15	1.07	mg/Kg
Q2514-09	TP-81	SOIL	Mercury	0.035		0.0090	0.016	mg/Kg
Q2514-09	TP-81	SOIL	Nickel	6.57		0.14	2.14	mg/Kg
Q2514-09	TP-81	SOIL	Potassium	315		29.6	107	mg/Kg
Q2514-09	TP-81	SOIL	Selenium	5.01		0.28	1.07	mg/Kg
Q2514-09	TP-81	SOIL	Silver	0.20	J	0.13	0.53	mg/Kg
Q2514-09	TP-81	SOIL	Sodium	137		19.0	107	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2514

Order ID: Q2514

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2514-09	TP-81	SOIL	Vanadium	27.2		0.27	2.14	mg/Kg
Q2514-09	TP-81	SOIL	Zinc	17.1		0.12	2.14	mg/Kg
Client ID : TP-90								
Q2514-10	TP-90	SOIL	Aluminum	4530		0.83	4.94	mg/Kg
Q2514-10	TP-90	SOIL	Antimony	1.58	J	0.22	2.47	mg/Kg
Q2514-10	TP-90	SOIL	Arsenic	2.83		0.19	0.99	mg/Kg
Q2514-10	TP-90	SOIL	Barium	9.66		0.72	4.94	mg/Kg
Q2514-10	TP-90	SOIL	Beryllium	0.28	J	0.025	0.30	mg/Kg
Q2514-10	TP-90	SOIL	Calcium	2560		11.0	98.8	mg/Kg
Q2514-10	TP-90	SOIL	Chromium	7.24		0.046	0.49	mg/Kg
Q2514-10	TP-90	SOIL	Cobalt	7.80		0.099	1.48	mg/Kg
Q2514-10	TP-90	SOIL	Copper	37.9		0.22	0.99	mg/Kg
Q2514-10	TP-90	SOIL	Iron	12900		3.94	4.94	mg/Kg
Q2514-10	TP-90	SOIL	Lead	5.60		0.13	0.59	mg/Kg
Q2514-10	TP-90	SOIL	Magnesium	3870		11.9	98.8	mg/Kg
Q2514-10	TP-90	SOIL	Manganese	108		0.14	0.99	mg/Kg
Q2514-10	TP-90	SOIL	Mercury	0.021		0.0080	0.014	mg/Kg
Q2514-10	TP-90	SOIL	Nickel	16.4		0.13	1.98	mg/Kg
Q2514-10	TP-90	SOIL	Potassium	155		27.4	98.8	mg/Kg
Q2514-10	TP-90	SOIL	Selenium	2.86		0.26	0.99	mg/Kg
Q2514-10	TP-90	SOIL	Silver	0.20	J	0.12	0.49	mg/Kg
Q2514-10	TP-90	SOIL	Sodium	682		17.6	98.8	mg/Kg
Q2514-10	TP-90	SOIL	Vanadium	24.8		0.25	1.98	mg/Kg
Q2514-10	TP-90	SOIL	Zinc	15.5		0.11	1.98	mg/Kg