

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #1@12``

Lab ID: N0159-01

Project: Vanadium Site - NF

Collection Date: 02/07/14 10:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS				SW8260_LOW_S			
Dichlorodifluoromethane	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
Chloromethane	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
Vinyl chloride	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
Bromomethane	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
Chloroethane	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
Trichlorofluoromethane	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
1,1-Dichloroethene	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
Acetone	53	50	4.3	ug/Kg	1	02/12/2014 12:20	75895
Carbon disulfide	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
Methylene chloride	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
trans-1,2-Dichloroethene	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
Methyl tert-butyl ether	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
1,1-Dichloroethane	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
2-Butanone	20		4.3	ug/Kg	1	02/12/2014 12:20	75895
cis-1,2-Dichloroethene	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
Chloroform	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
1,1,1-Trichloroethane	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
Carbon tetrachloride	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
1,2-Dichloroethane	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
Benzene	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
Trichloroethene	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
1,2-Dichloropropane	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
Bromodichloromethane	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
cis-1,3-Dichloropropene	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
4-Methyl-2-pentanone	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
Toluene	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
trans-1,3-Dichloropropene	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
1,1,2-Trichloroethane	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
Tetrachloroethene	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
2-Hexanone	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
Dibromochloromethane	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
1,2-Dibromoethane	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
Chlorobenzene	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
Ethylbenzene	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
Xylene (Total)	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
Styrene	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
Bromoform	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
Isopropylbenzene	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #1@12``

Lab ID: N0159-01

Project: Vanadium Site - NF

Collection Date: 02/07/14 10:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS					SW8260_LOW_S		
1,1,2,2-Tetrachloroethane	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
1,3-Dichlorobenzene	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
1,4-Dichlorobenzene	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
1,2-Dichlorobenzene	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
1,2-Dibromo-3-chloropropane	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
1,2,4-Trichlorobenzene	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
Cyclohexane	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
Methyl acetate	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
Methylcyclohexane	ND		4.3	ug/Kg	1	02/12/2014 12:20	75895
Surrogate: Dibromofluoromethane	106		76-128	%REC	1	02/12/2014 12:20	75895
Surrogate: 1,2-Dichloroethane-d4	122	S	88-110	%REC	1	02/12/2014 12:20	75895
Surrogate: Toluene-d8	95.5		85-115	%REC	1	02/12/2014 12:20	75895
Surrogate: Bromofluorobenzene	95.5		85-120	%REC	1	02/12/2014 12:20	75895

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #2@12``

Lab ID: N0159-02

Project: Vanadium Site - NF

Collection Date: 02/07/14 10:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS					SW8260_LOW_S		
Dichlorodifluoromethane	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Chloromethane	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Vinyl chloride	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Bromomethane	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Chloroethane	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Trichlorofluoromethane	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
1,1-Dichloroethene	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Acetone	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Carbon disulfide	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Methylene chloride	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
trans-1,2-Dichloroethene	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Methyl tert-butyl ether	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
1,1-Dichloroethane	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
2-Butanone	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
cis-1,2-Dichloroethene	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Chloroform	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
1,1,1-Trichloroethane	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Carbon tetrachloride	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
1,2-Dichloroethane	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Benzene	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Trichloroethene	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
1,2-Dichloropropane	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Bromodichloromethane	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
cis-1,3-Dichloropropene	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
4-Methyl-2-pentanone	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Toluene	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
trans-1,3-Dichloropropene	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
1,1,2-Trichloroethane	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Tetrachloroethene	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
2-Hexanone	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Dibromochloromethane	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
1,2-Dibromoethane	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Chlorobenzene	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Ethylbenzene	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Xylene (Total)	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Styrene	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Bromoform	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Isopropylbenzene	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #2@12``

Lab ID: N0159-02

Project: Vanadium Site - NF

Collection Date: 02/07/14 10:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS					SW8260_LOW_S		
1,1,2,2-Tetrachloroethane	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
1,3-Dichlorobenzene	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
1,4-Dichlorobenzene	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
1,2-Dichlorobenzene	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
1,2-Dibromo-3-chloropropane	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
1,2,4-Trichlorobenzene	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Cyclohexane	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Methyl acetate	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Methylcyclohexane	ND		4.3	ug/Kg	1	02/12/2014 12:48	75895
Surrogate: Dibromofluoromethane	106		76-128	%REC	1	02/12/2014 12:48	75895
Surrogate: 1,2-Dichloroethane-d4	111	S	88-110	%REC	1	02/12/2014 12:48	75895
Surrogate: Toluene-d8	97.4		85-115	%REC	1	02/12/2014 12:48	75895
Surrogate: Bromofluorobenzene	99.8		85-120	%REC	1	02/12/2014 12:48	75895

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #3@12``

Lab ID: N0159-03

Project: Vanadium Site - NF

Collection Date: 02/07/14 11:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS					SW8260_LOW_S		
Dichlorodifluoromethane	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
Chloromethane	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
Vinyl chloride	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
Bromomethane	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
Chloroethane	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
Trichlorofluoromethane	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
1,1-Dichloroethene	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
Acetone	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
Carbon disulfide	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
Methylene chloride	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
trans-1,2-Dichloroethene	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
Methyl tert-butyl ether	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
1,1-Dichloroethane	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
2-Butanone	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
cis-1,2-Dichloroethene	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
Chloroform	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
1,1,1-Trichloroethane	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
Carbon tetrachloride	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
1,2-Dichloroethane	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
Benzene	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
Trichloroethene	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
1,2-Dichloropropane	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
Bromodichloromethane	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
cis-1,3-Dichloropropene	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
4-Methyl-2-pentanone	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
Toluene	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
trans-1,3-Dichloropropene	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
1,1,2-Trichloroethane	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
Tetrachloroethene	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
2-Hexanone	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
Dibromochloromethane	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
1,2-Dibromoethane	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
Chlorobenzene	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
Ethylbenzene	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
Xylene (Total)	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
Styrene	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
Bromoform	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895
Isopropylbenzene	ND		3.5	ug/Kg	1	02/12/2014 13:17	75895

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #3@12``

Lab ID: N0159-03

Project: Vanadium Site - NF

Collection Date: 02/07/14 11:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS					SW8260_LOW_S		
1,1,2,2-Tetrachloroethane	ND		3.5	ug/Kg		102/12/2014 13:17	75895
1,3-Dichlorobenzene	ND		3.5	ug/Kg		102/12/2014 13:17	75895
1,4-Dichlorobenzene	ND		3.5	ug/Kg		102/12/2014 13:17	75895
1,2-Dichlorobenzene	ND		3.5	ug/Kg		102/12/2014 13:17	75895
1,2-Dibromo-3-chloropropane	ND		3.5	ug/Kg		102/12/2014 13:17	75895
1,2,4-Trichlorobenzene	ND		3.5	ug/Kg		102/12/2014 13:17	75895
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.5	ug/Kg		102/12/2014 13:17	75895
Cyclohexane	ND		3.5	ug/Kg		102/12/2014 13:17	75895
Methyl acetate	ND		3.5	ug/Kg		102/12/2014 13:17	75895
Methylcyclohexane	ND		3.5	ug/Kg		102/12/2014 13:17	75895
Surrogate: Dibromofluoromethane	106		76-128	%REC		102/12/2014 13:17	75895
Surrogate: 1,2-Dichloroethane-d4	123	S	88-110	%REC		102/12/2014 13:17	75895
Surrogate: Toluene-d8	95.8		85-115	%REC		102/12/2014 13:17	75895
Surrogate: Bromofluorobenzene	103		85-120	%REC		102/12/2014 13:17	75895

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #4@12``

Lab ID: N0159-04

Project: Vanadium Site - NF

Collection Date: 02/07/14 11:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS					SW8260_LOW_S		
Dichlorodifluoromethane	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
Chloromethane	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
Vinyl chloride	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
Bromomethane	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
Chloroethane	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
Trichlorofluoromethane	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
1,1-Dichloroethene	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
Acetone	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
Carbon disulfide	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
Methylene chloride	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
trans-1,2-Dichloroethene	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
Methyl tert-butyl ether	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
1,1-Dichloroethane	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
2-Butanone	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
cis-1,2-Dichloroethene	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
Chloroform	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
1,1,1-Trichloroethane	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
Carbon tetrachloride	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
1,2-Dichloroethane	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
Benzene	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
Trichloroethene	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
1,2-Dichloropropane	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
Bromodichloromethane	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
cis-1,3-Dichloropropene	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
4-Methyl-2-pentanone	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
Toluene	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
trans-1,3-Dichloropropene	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
1,1,2-Trichloroethane	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
Tetrachloroethene	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
2-Hexanone	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
Dibromochloromethane	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
1,2-Dibromoethane	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
Chlorobenzene	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
Ethylbenzene	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
Xylene (Total)	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
Styrene	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
Bromoform	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895
Isopropylbenzene	ND		3.6	ug/Kg	1	02/12/2014 13:45	75895

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #4@12``

Lab ID: N0159-04

Project: Vanadium Site - NF

Collection Date: 02/07/14 11:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							SW8260_LOW_S
1,1,2,2-Tetrachloroethane	ND		3.6	ug/Kg		102/12/2014 13:45	75895
1,3-Dichlorobenzene	ND		3.6	ug/Kg		102/12/2014 13:45	75895
1,4-Dichlorobenzene	ND		3.6	ug/Kg		102/12/2014 13:45	75895
1,2-Dichlorobenzene	ND		3.6	ug/Kg		102/12/2014 13:45	75895
1,2-Dibromo-3-chloropropane	ND		3.6	ug/Kg		102/12/2014 13:45	75895
1,2,4-Trichlorobenzene	ND		3.6	ug/Kg		102/12/2014 13:45	75895
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.6	ug/Kg		102/12/2014 13:45	75895
Cyclohexane	ND		3.6	ug/Kg		102/12/2014 13:45	75895
Methyl acetate	ND		3.6	ug/Kg		102/12/2014 13:45	75895
Methylcyclohexane	ND		3.6	ug/Kg		102/12/2014 13:45	75895
Surrogate: Dibromofluoromethane	105		76-128	%REC		102/12/2014 13:45	75895
Surrogate: 1,2-Dichloroethane-d4	119	S	88-110	%REC		102/12/2014 13:45	75895
Surrogate: Toluene-d8	95.3		85-115	%REC		102/12/2014 13:45	75895
Surrogate: Bromofluorobenzene	103		85-120	%REC		102/12/2014 13:45	75895

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #5@12``

Lab ID: N0159-05

Project: Vanadium Site - NF

Collection Date: 02/07/14 13:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS					SW8260_LOW_S		
Dichlorodifluoromethane	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
Chloromethane	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
Vinyl chloride	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
Bromomethane	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
Chloroethane	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
Trichlorofluoromethane	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
1,1-Dichloroethene	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
Acetone	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
Carbon disulfide	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
Methylene chloride	2.2	J	3.9	ug/Kg	1	02/12/2014 14:13	75895
trans-1,2-Dichloroethene	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
Methyl tert-butyl ether	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
1,1-Dichloroethane	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
2-Butanone	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
cis-1,2-Dichloroethene	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
Chloroform	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
1,1,1-Trichloroethane	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
Carbon tetrachloride	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
1,2-Dichloroethane	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
Benzene	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
Trichloroethene	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
1,2-Dichloropropane	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
Bromodichloromethane	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
cis-1,3-Dichloropropene	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
4-Methyl-2-pentanone	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
Toluene	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
trans-1,3-Dichloropropene	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
1,1,2-Trichloroethane	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
Tetrachloroethene	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
2-Hexanone	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
Dibromochloromethane	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
1,2-Dibromoethane	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
Chlorobenzene	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
Ethylbenzene	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
Xylene (Total)	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
Styrene	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
Bromoform	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895
Isopropylbenzene	ND		3.9	ug/Kg	1	02/12/2014 14:13	75895

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #5@12``

Lab ID: N0159-05

Project: Vanadium Site - NF

Collection Date: 02/07/14 13:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS					SW8260_LOW_S		
1,1,2,2-Tetrachloroethane	ND		3.9	ug/Kg		102/12/2014 14:13	75895
1,3-Dichlorobenzene	ND		3.9	ug/Kg		102/12/2014 14:13	75895
1,4-Dichlorobenzene	ND		3.9	ug/Kg		102/12/2014 14:13	75895
1,2-Dichlorobenzene	ND		3.9	ug/Kg		102/12/2014 14:13	75895
1,2-Dibromo-3-chloropropane	ND		3.9	ug/Kg		102/12/2014 14:13	75895
1,2,4-Trichlorobenzene	ND		3.9	ug/Kg		102/12/2014 14:13	75895
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.9	ug/Kg		102/12/2014 14:13	75895
Cyclohexane	ND		3.9	ug/Kg		102/12/2014 14:13	75895
Methyl acetate	ND		3.9	ug/Kg		102/12/2014 14:13	75895
Methylcyclohexane	ND		3.9	ug/Kg		102/12/2014 14:13	75895
Surrogate: Dibromofluoromethane	107		76-128	%REC		102/12/2014 14:13	75895
Surrogate: 1,2-Dichloroethane-d4	114	S	88-110	%REC		102/12/2014 14:13	75895
Surrogate: Toluene-d8	98.3		85-115	%REC		102/12/2014 14:13	75895
Surrogate: Bromofluorobenzene	99.6		85-120	%REC		102/12/2014 14:13	75895

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #6@12``

Lab ID: N0159-06

Project: Vanadium Site - NF

Collection Date: 02/07/14 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS					SW8260_LOW_S		
Dichlorodifluoromethane	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
Chloromethane	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
Vinyl chloride	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
Bromomethane	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
Chloroethane	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
Trichlorofluoromethane	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
1,1-Dichloroethene	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
Acetone	12		3.4	ug/Kg	1	02/12/2014 14:42	75895
Carbon disulfide	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
Methylene chloride	2.9	J	3.4	ug/Kg	1	02/12/2014 14:42	75895
trans-1,2-Dichloroethene	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
Methyl tert-butyl ether	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
1,1-Dichloroethane	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
2-Butanone	2.9	J	3.4	ug/Kg	1	02/12/2014 14:42	75895
cis-1,2-Dichloroethene	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
Chloroform	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
1,1,1-Trichloroethane	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
Carbon tetrachloride	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
1,2-Dichloroethane	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
Benzene	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
Trichloroethene	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
1,2-Dichloropropane	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
Bromodichloromethane	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
cis-1,3-Dichloropropene	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
4-Methyl-2-pentanone	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
Toluene	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
trans-1,3-Dichloropropene	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
1,1,2-Trichloroethane	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
Tetrachloroethene	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
2-Hexanone	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
Dibromochloromethane	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
1,2-Dibromoethane	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
Chlorobenzene	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
Ethylbenzene	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
Xylene (Total)	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
Styrene	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
Bromoform	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
Isopropylbenzene	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #6@12``

Lab ID: N0159-06

Project: Vanadium Site - NF

Collection Date: 02/07/14 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							SW8260_LOW_S
1,1,2,2-Tetrachloroethane	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
1,3-Dichlorobenzene	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
1,4-Dichlorobenzene	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
1,2-Dichlorobenzene	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
1,2-Dibromo-3-chloropropane	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
1,2,4-Trichlorobenzene	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
Cyclohexane	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
Methyl acetate	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
Methylcyclohexane	ND		3.4	ug/Kg	1	02/12/2014 14:42	75895
Surrogate: Dibromofluoromethane	104		76-128	%REC	1	02/12/2014 14:42	75895
Surrogate: 1,2-Dichloroethane-d4	119	S	88-110	%REC	1	02/12/2014 14:42	75895
Surrogate: Toluene-d8	95.5		85-115	%REC	1	02/12/2014 14:42	75895
Surrogate: Bromofluorobenzene	99.9		85-120	%REC	1	02/12/2014 14:42	75895

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW TRIP BLANK

Lab ID: N0159-07

Project: Vanadium Site - NF

Collection Date: 02/07/14 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							SW8260_LOW_S
Dichlorodifluoromethane	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
Chloromethane	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
Vinyl chloride	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
Bromomethane	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
Chloroethane	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
Trichlorofluoromethane	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
1,1-Dichloroethene	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
Acetone	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
Carbon disulfide	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
Methylene chloride	2.7	J	5.0	ug/Kg	1	02/12/2014 11:51	75895
trans-1,2-Dichloroethene	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
Methyl tert-butyl ether	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
1,1-Dichloroethane	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
2-Butanone	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
cis-1,2-Dichloroethene	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
Chloroform	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
1,1,1-Trichloroethane	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
Carbon tetrachloride	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
1,2-Dichloroethane	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
Benzene	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
Trichloroethene	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
1,2-Dichloropropane	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
Bromodichloromethane	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
cis-1,3-Dichloropropene	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
4-Methyl-2-pentanone	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
Toluene	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
trans-1,3-Dichloropropene	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
1,1,2-Trichloroethane	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
Tetrachloroethene	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
2-Hexanone	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
Dibromochloromethane	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
1,2-Dibromoethane	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
Chlorobenzene	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
Ethylbenzene	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
Xylene (Total)	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
Styrene	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
Bromoform	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895
Isopropylbenzene	ND		5.0	ug/Kg	1	02/12/2014 11:51	75895

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW TRIP BLANK

Lab ID: N0159-07

Project: Vanadium Site - NF

Collection Date: 02/07/14 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS					SW8260_LOW_S		
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg		102/12/2014 11:51	75895
1,3-Dichlorobenzene	ND		5.0	ug/Kg		102/12/2014 11:51	75895
1,4-Dichlorobenzene	ND		5.0	ug/Kg		102/12/2014 11:51	75895
1,2-Dichlorobenzene	ND		5.0	ug/Kg		102/12/2014 11:51	75895
1,2-Dibromo-3-chloropropane	ND		5.0	ug/Kg		102/12/2014 11:51	75895
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg		102/12/2014 11:51	75895
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	ug/Kg		102/12/2014 11:51	75895
Cyclohexane	ND		5.0	ug/Kg		102/12/2014 11:51	75895
Methyl acetate	ND		5.0	ug/Kg		102/12/2014 11:51	75895
Methylcyclohexane	ND		5.0	ug/Kg		102/12/2014 11:51	75895
Surrogate: Dibromofluoromethane	101		76-128	%REC		102/12/2014 11:51	75895
Surrogate: 1,2-Dichloroethane-d4	99.4		88-110	%REC		102/12/2014 11:51	75895
Surrogate: Toluene-d8	100		85-115	%REC		102/12/2014 11:51	75895
Surrogate: Bromofluorobenzene	99.3		85-120	%REC		102/12/2014 11:51	75895

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #1@12``

Lab ID: N0159-01

Project: Vanadium Site - NF

Collection Date: 02/07/14 10:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							SW8270_S
Phenol	ND		450	ug/Kg	1	02/11/2014 17:07	75867
Bis(2-chloroethyl)ether	ND		450	ug/Kg	1	02/11/2014 17:07	75867
2-Chlorophenol	ND		450	ug/Kg	1	02/11/2014 17:07	75867
2-Methylphenol	ND		450	ug/Kg	1	02/11/2014 17:07	75867
2,2'-oxybis(1-Chloropropane)	ND		450	ug/Kg	1	02/11/2014 17:07	75867
4-Methylphenol	ND		450	ug/Kg	1	02/11/2014 17:07	75867
N-Nitroso-di-n-propylamine	ND		450	ug/Kg	1	02/11/2014 17:07	75867
Hexachloroethane	ND		450	ug/Kg	1	02/11/2014 17:07	75867
Nitrobenzene	ND		450	ug/Kg	1	02/11/2014 17:07	75867
Isophorone	ND		450	ug/Kg	1	02/11/2014 17:07	75867
2-Nitrophenol	ND		450	ug/Kg	1	02/11/2014 17:07	75867
2,4-Dimethylphenol	ND		450	ug/Kg	1	02/11/2014 17:07	75867
2,4-Dichlorophenol	ND		450	ug/Kg	1	02/11/2014 17:07	75867
Naphthalene	ND		450	ug/Kg	1	02/11/2014 17:07	75867
4-Chloroaniline	ND		450	ug/Kg	1	02/11/2014 17:07	75867
Bis(2-chloroethoxy)methane	ND		450	ug/Kg	1	02/11/2014 17:07	75867
Hexachlorobutadiene	ND		450	ug/Kg	1	02/11/2014 17:07	75867
4-Chloro-3-methylphenol	ND		450	ug/Kg	1	02/11/2014 17:07	75867
2-Methylnaphthalene	ND		450	ug/Kg	1	02/11/2014 17:07	75867
Hexachlorocyclopentadiene	ND		450	ug/Kg	1	02/11/2014 17:07	75867
2,4,6-Trichlorophenol	ND		450	ug/Kg	1	02/11/2014 17:07	75867
2,4,5-Trichlorophenol	ND		920	ug/Kg	1	02/11/2014 17:07	75867
2-Chloronaphthalene	ND		450	ug/Kg	1	02/11/2014 17:07	75867
2-Nitroaniline	ND		920	ug/Kg	1	02/11/2014 17:07	75867
Dimethylphthalate	ND		450	ug/Kg	1	02/11/2014 17:07	75867
Acenaphthylene	ND		450	ug/Kg	1	02/11/2014 17:07	75867
2,6-Dinitrotoluene	ND		450	ug/Kg	1	02/11/2014 17:07	75867
3-Nitroaniline	ND		920	ug/Kg	1	02/11/2014 17:07	75867
Acenaphthene	ND		450	ug/Kg	1	02/11/2014 17:07	75867
2,4-Dinitrophenol	ND		920	ug/Kg	1	02/11/2014 17:07	75867
4-Nitrophenol	ND		920	ug/Kg	1	02/11/2014 17:07	75867
Dibenzofuran	ND		450	ug/Kg	1	02/11/2014 17:07	75867
2,4-Dinitrotoluene	ND		450	ug/Kg	1	02/11/2014 17:07	75867
Diethylphthalate	ND		450	ug/Kg	1	02/11/2014 17:07	75867
4-Chlorophenyl-phenylether	ND		450	ug/Kg	1	02/11/2014 17:07	75867
Fluorene	ND		450	ug/Kg	1	02/11/2014 17:07	75867
4-Nitroaniline	ND		920	ug/Kg	1	02/11/2014 17:07	75867
4,6-Dinitro-2-methylphenol	ND		920	ug/Kg	1	02/11/2014 17:07	75867

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #1@12``

Lab ID: N0159-01

Project: Vanadium Site - NF

Collection Date: 02/07/14 10:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							SW8270_S
N-Nitrosodiphenylamine	ND		450	ug/Kg	1	02/11/2014 17:07	75867
4-Bromophenyl-phenylether	ND		450	ug/Kg	1	02/11/2014 17:07	75867
Hexachlorobenzene	ND		450	ug/Kg	1	02/11/2014 17:07	75867
Pentachlorophenol	ND		920	ug/Kg	1	02/11/2014 17:07	75867
Phenanthrene	140	J	450	ug/Kg	1	02/11/2014 17:07	75867
Anthracene	ND		450	ug/Kg	1	02/11/2014 17:07	75867
Carbazole	ND		450	ug/Kg	1	02/11/2014 17:07	75867
Di-n-butylphthalate	ND		450	ug/Kg	1	02/11/2014 17:07	75867
Fluoranthene	210	J	450	ug/Kg	1	02/11/2014 17:07	75867
Pyrene	210	J	450	ug/Kg	1	02/11/2014 17:07	75867
Butylbenzylphthalate	ND		450	ug/Kg	1	02/11/2014 17:07	75867
3,3'-Dichlorobenzidine	ND		450	ug/Kg	1	02/11/2014 17:07	75867
Benzo(a)anthracene	140	J	450	ug/Kg	1	02/11/2014 17:07	75867
Chrysene	130	J	450	ug/Kg	1	02/11/2014 17:07	75867
Bis(2-ethylhexyl)phthalate	130	J	450	ug/Kg	1	02/11/2014 17:07	75867
Di-n-octylphthalate	ND		450	ug/Kg	1	02/11/2014 17:07	75867
Benzo(b)fluoranthene	200	J	450	ug/Kg	1	02/11/2014 17:07	75867
Benzo(k)fluoranthene	ND		450	ug/Kg	1	02/11/2014 17:07	75867
Benzo(a)pyrene	130	J	450	ug/Kg	1	02/11/2014 17:07	75867
Indeno(1,2,3-cd)pyrene	ND		450	ug/Kg	1	02/11/2014 17:07	75867
Dibenzo(a,h)anthracene	ND		450	ug/Kg	1	02/11/2014 17:07	75867
Benzo(g,h,i)perylene	ND		450	ug/Kg	1	02/11/2014 17:07	75867
1,1'-Biphenyl	ND		450	ug/Kg	1	02/11/2014 17:07	75867
Acetophenone	ND		450	ug/Kg	1	02/11/2014 17:07	75867
Atrazine	ND		450	ug/Kg	1	02/11/2014 17:07	75867
Benzaldehyde	ND		450	ug/Kg	1	02/11/2014 17:07	75867
Caprolactam	ND		450	ug/Kg	1	02/11/2014 17:07	75867
Surrogate: Nitrobenzene-d5	65.8		35-100	%REC	1	02/11/2014 17:07	75867
Surrogate: 2-Fluorobiphenyl	63.4		45-105	%REC	1	02/11/2014 17:07	75867
Surrogate: Terphenyl-d14	70.5		30-125	%REC	1	02/11/2014 17:07	75867
Surrogate: Phenol-d5	58.8		40-100	%REC	1	02/11/2014 17:07	75867
Surrogate: 2-Fluorophenol	61.5		35-105	%REC	1	02/11/2014 17:07	75867
Surrogate: 2,4,6-Tribromophenol	64.2		35-125	%REC	1	02/11/2014 17:07	75867

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #2@12``

Lab ID: N0159-02

Project: Vanadium Site - NF

Collection Date: 02/07/14 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							SW8270_S
Phenol	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Bis(2-chloroethyl)ether	ND		450	ug/Kg	1	02/11/2014 17:31	75867
2-Chlorophenol	ND		450	ug/Kg	1	02/11/2014 17:31	75867
2-Methylphenol	ND		450	ug/Kg	1	02/11/2014 17:31	75867
2,2'-oxybis(1-Chloropropane)	ND		450	ug/Kg	1	02/11/2014 17:31	75867
4-Methylphenol	ND		450	ug/Kg	1	02/11/2014 17:31	75867
N-Nitroso-di-n-propylamine	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Hexachloroethane	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Nitrobenzene	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Isophorone	ND		450	ug/Kg	1	02/11/2014 17:31	75867
2-Nitrophenol	ND		450	ug/Kg	1	02/11/2014 17:31	75867
2,4-Dimethylphenol	ND		450	ug/Kg	1	02/11/2014 17:31	75867
2,4-Dichlorophenol	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Naphthalene	ND		450	ug/Kg	1	02/11/2014 17:31	75867
4-Chloroaniline	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Bis(2-chloroethoxy)methane	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Hexachlorobutadiene	ND		450	ug/Kg	1	02/11/2014 17:31	75867
4-Chloro-3-methylphenol	ND		450	ug/Kg	1	02/11/2014 17:31	75867
2-Methylnaphthalene	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Hexachlorocyclopentadiene	ND		450	ug/Kg	1	02/11/2014 17:31	75867
2,4,6-Trichlorophenol	ND		450	ug/Kg	1	02/11/2014 17:31	75867
2,4,5-Trichlorophenol	ND		910	ug/Kg	1	02/11/2014 17:31	75867
2-Chloronaphthalene	ND		450	ug/Kg	1	02/11/2014 17:31	75867
2-Nitroaniline	ND		910	ug/Kg	1	02/11/2014 17:31	75867
Dimethylphthalate	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Acenaphthylene	ND		450	ug/Kg	1	02/11/2014 17:31	75867
2,6-Dinitrotoluene	ND		450	ug/Kg	1	02/11/2014 17:31	75867
3-Nitroaniline	ND		910	ug/Kg	1	02/11/2014 17:31	75867
Acenaphthene	ND		450	ug/Kg	1	02/11/2014 17:31	75867
2,4-Dinitrophenol	ND		910	ug/Kg	1	02/11/2014 17:31	75867
4-Nitrophenol	ND		910	ug/Kg	1	02/11/2014 17:31	75867
Dibenzofuran	ND		450	ug/Kg	1	02/11/2014 17:31	75867
2,4-Dinitrotoluene	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Diethylphthalate	ND		450	ug/Kg	1	02/11/2014 17:31	75867
4-Chlorophenyl-phenylether	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Fluorene	ND		450	ug/Kg	1	02/11/2014 17:31	75867
4-Nitroaniline	ND		910	ug/Kg	1	02/11/2014 17:31	75867
4,6-Dinitro-2-methylphenol	ND		910	ug/Kg	1	02/11/2014 17:31	75867

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #2@12``

Lab ID: N0159-02

Project: Vanadium Site - NF

Collection Date: 02/07/14 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							SW8270_S
N-Nitrosodiphenylamine	ND		450	ug/Kg	1	02/11/2014 17:31	75867
4-Bromophenyl-phenylether	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Hexachlorobenzene	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Pentachlorophenol	ND		910	ug/Kg	1	02/11/2014 17:31	75867
Phenanthrene	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Anthracene	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Carbazole	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Di-n-butylphthalate	130	J	450	ug/Kg	1	02/11/2014 17:31	75867
Fluoranthene	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Pyrene	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Butylbenzylphthalate	ND		450	ug/Kg	1	02/11/2014 17:31	75867
3,3'-Dichlorobenzidine	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Benzo(a)anthracene	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Chrysene	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Bis(2-ethylhexyl)phthalate	170	J	450	ug/Kg	1	02/11/2014 17:31	75867
Di-n-octylphthalate	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Benzo(b)fluoranthene	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Benzo(k)fluoranthene	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Benzo(a)pyrene	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Indeno(1,2,3-cd)pyrene	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Dibenzo(a,h)anthracene	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Benzo(g,h,i)perylene	ND		450	ug/Kg	1	02/11/2014 17:31	75867
1,1'-Biphenyl	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Acetophenone	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Atrazine	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Benzaldehyde	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Caprolactam	ND		450	ug/Kg	1	02/11/2014 17:31	75867
Surrogate: Nitrobenzene-d5	62.1		35-100	%REC	1	02/11/2014 17:31	75867
Surrogate: 2-Fluorobiphenyl	60.1		45-105	%REC	1	02/11/2014 17:31	75867
Surrogate: Terphenyl-d14	64.8		30-125	%REC	1	02/11/2014 17:31	75867
Surrogate: Phenol-d5	58.1		40-100	%REC	1	02/11/2014 17:31	75867
Surrogate: 2-Fluorophenol	61.5		35-105	%REC	1	02/11/2014 17:31	75867
Surrogate: 2,4,6-Tribromophenol	60.3		35-125	%REC	1	02/11/2014 17:31	75867

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #3@12``

Lab ID: N0159-03

Project: Vanadium Site - NF

Collection Date: 02/07/14 11:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							SW8270_S
Phenol	ND		410	ug/Kg		102/11/2014 17:55	75867
Bis(2-chloroethyl)ether	ND		410	ug/Kg		102/11/2014 17:55	75867
2-Chlorophenol	ND		410	ug/Kg		102/11/2014 17:55	75867
2-Methylphenol	ND		410	ug/Kg		102/11/2014 17:55	75867
2,2'-oxybis(1-Chloropropane)	ND		410	ug/Kg		102/11/2014 17:55	75867
4-Methylphenol	ND		410	ug/Kg		102/11/2014 17:55	75867
N-Nitroso-di-n-propylamine	ND		410	ug/Kg		102/11/2014 17:55	75867
Hexachloroethane	ND		410	ug/Kg		102/11/2014 17:55	75867
Nitrobenzene	ND		410	ug/Kg		102/11/2014 17:55	75867
Isophorone	ND		410	ug/Kg		102/11/2014 17:55	75867
2-Nitrophenol	ND		410	ug/Kg		102/11/2014 17:55	75867
2,4-Dimethylphenol	ND		410	ug/Kg		102/11/2014 17:55	75867
2,4-Dichlorophenol	ND		410	ug/Kg		102/11/2014 17:55	75867
Naphthalene	ND		410	ug/Kg		102/11/2014 17:55	75867
4-Chloroaniline	ND		410	ug/Kg		102/11/2014 17:55	75867
Bis(2-chloroethoxy)methane	ND		410	ug/Kg		102/11/2014 17:55	75867
Hexachlorobutadiene	ND		410	ug/Kg		102/11/2014 17:55	75867
4-Chloro-3-methylphenol	ND		410	ug/Kg		102/11/2014 17:55	75867
2-Methylnaphthalene	ND		410	ug/Kg		102/11/2014 17:55	75867
Hexachlorocyclopentadiene	ND		410	ug/Kg		102/11/2014 17:55	75867
2,4,6-Trichlorophenol	ND		410	ug/Kg		102/11/2014 17:55	75867
2,4,5-Trichlorophenol	ND		820	ug/Kg		102/11/2014 17:55	75867
2-Chloronaphthalene	ND		410	ug/Kg		102/11/2014 17:55	75867
2-Nitroaniline	ND		820	ug/Kg		102/11/2014 17:55	75867
Dimethylphthalate	ND		410	ug/Kg		102/11/2014 17:55	75867
Acenaphthylene	ND		410	ug/Kg		102/11/2014 17:55	75867
2,6-Dinitrotoluene	ND		410	ug/Kg		102/11/2014 17:55	75867
3-Nitroaniline	ND		820	ug/Kg		102/11/2014 17:55	75867
Acenaphthene	ND		410	ug/Kg		102/11/2014 17:55	75867
2,4-Dinitrophenol	ND		820	ug/Kg		102/11/2014 17:55	75867
4-Nitrophenol	ND		820	ug/Kg		102/11/2014 17:55	75867
Dibenzofuran	ND		410	ug/Kg		102/11/2014 17:55	75867
2,4-Dinitrotoluene	ND		410	ug/Kg		102/11/2014 17:55	75867
Diethylphthalate	ND		410	ug/Kg		102/11/2014 17:55	75867
4-Chlorophenyl-phenylether	ND		410	ug/Kg		102/11/2014 17:55	75867
Fluorene	ND		410	ug/Kg		102/11/2014 17:55	75867
4-Nitroaniline	ND		820	ug/Kg		102/11/2014 17:55	75867
4,6-Dinitro-2-methylphenol	ND		820	ug/Kg		102/11/2014 17:55	75867

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #3@12``

Lab ID: N0159-03

Project: Vanadium Site - NF

Collection Date: 02/07/14 11:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							SW8270_S
N-Nitrosodiphenylamine	ND		410	ug/Kg	1	02/11/2014 17:55	75867
4-Bromophenyl-phenylether	ND		410	ug/Kg	1	02/11/2014 17:55	75867
Hexachlorobenzene	ND		410	ug/Kg	1	02/11/2014 17:55	75867
Pentachlorophenol	ND		820	ug/Kg	1	02/11/2014 17:55	75867
Phenanthrene	ND		410	ug/Kg	1	02/11/2014 17:55	75867
Anthracene	ND		410	ug/Kg	1	02/11/2014 17:55	75867
Carbazole	ND		410	ug/Kg	1	02/11/2014 17:55	75867
Di-n-butylphthalate	96	J	410	ug/Kg	1	02/11/2014 17:55	75867
Fluoranthene	ND		410	ug/Kg	1	02/11/2014 17:55	75867
Pyrene	ND		410	ug/Kg	1	02/11/2014 17:55	75867
Butylbenzylphthalate	ND		410	ug/Kg	1	02/11/2014 17:55	75867
3,3'-Dichlorobenzidine	ND		410	ug/Kg	1	02/11/2014 17:55	75867
Benzo(a)anthracene	ND		410	ug/Kg	1	02/11/2014 17:55	75867
Chrysene	ND		410	ug/Kg	1	02/11/2014 17:55	75867
Bis(2-ethylhexyl)phthalate	140	J	410	ug/Kg	1	02/11/2014 17:55	75867
Di-n-octylphthalate	ND		410	ug/Kg	1	02/11/2014 17:55	75867
Benzo(b)fluoranthene	ND		410	ug/Kg	1	02/11/2014 17:55	75867
Benzo(k)fluoranthene	ND		410	ug/Kg	1	02/11/2014 17:55	75867
Benzo(a)pyrene	ND		410	ug/Kg	1	02/11/2014 17:55	75867
Indeno(1,2,3-cd)pyrene	ND		410	ug/Kg	1	02/11/2014 17:55	75867
Dibenzo(a,h)anthracene	ND		410	ug/Kg	1	02/11/2014 17:55	75867
Benzo(g,h,i)perylene	ND		410	ug/Kg	1	02/11/2014 17:55	75867
1,1'-Biphenyl	ND		410	ug/Kg	1	02/11/2014 17:55	75867
Acetophenone	ND		410	ug/Kg	1	02/11/2014 17:55	75867
Atrazine	ND		410	ug/Kg	1	02/11/2014 17:55	75867
Benzaldehyde	ND		410	ug/Kg	1	02/11/2014 17:55	75867
Caprolactam	ND		410	ug/Kg	1	02/11/2014 17:55	75867
Surrogate: Nitrobenzene-d5	62.5		35-100	%REC	1	02/11/2014 17:55	75867
Surrogate: 2-Fluorobiphenyl	61.1		45-105	%REC	1	02/11/2014 17:55	75867
Surrogate: Terphenyl-d14	66.8		30-125	%REC	1	02/11/2014 17:55	75867
Surrogate: Phenol-d5	56.9		40-100	%REC	1	02/11/2014 17:55	75867
Surrogate: 2-Fluorophenol	60.0		35-105	%REC	1	02/11/2014 17:55	75867
Surrogate: 2,4,6-Tribromophenol	61.3		35-125	%REC	1	02/11/2014 17:55	75867

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #4@12``

Lab ID: N0159-04

Project: Vanadium Site - NF

Collection Date: 02/07/14 11:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							SW8270_S
Phenol	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Bis(2-chloroethyl)ether	ND		420	ug/Kg	1	02/11/2014 18:18	75867
2-Chlorophenol	ND		420	ug/Kg	1	02/11/2014 18:18	75867
2-Methylphenol	ND		420	ug/Kg	1	02/11/2014 18:18	75867
2,2'-oxybis(1-Chloropropane)	ND		420	ug/Kg	1	02/11/2014 18:18	75867
4-Methylphenol	ND		420	ug/Kg	1	02/11/2014 18:18	75867
N-Nitroso-di-n-propylamine	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Hexachloroethane	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Nitrobenzene	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Isophorone	ND		420	ug/Kg	1	02/11/2014 18:18	75867
2-Nitrophenol	ND		420	ug/Kg	1	02/11/2014 18:18	75867
2,4-Dimethylphenol	ND		420	ug/Kg	1	02/11/2014 18:18	75867
2,4-Dichlorophenol	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Naphthalene	ND		420	ug/Kg	1	02/11/2014 18:18	75867
4-Chloroaniline	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Bis(2-chloroethoxy)methane	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Hexachlorobutadiene	ND		420	ug/Kg	1	02/11/2014 18:18	75867
4-Chloro-3-methylphenol	ND		420	ug/Kg	1	02/11/2014 18:18	75867
2-Methylnaphthalene	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Hexachlorocyclopentadiene	ND		420	ug/Kg	1	02/11/2014 18:18	75867
2,4,6-Trichlorophenol	ND		420	ug/Kg	1	02/11/2014 18:18	75867
2,4,5-Trichlorophenol	ND		850	ug/Kg	1	02/11/2014 18:18	75867
2-Chloronaphthalene	ND		420	ug/Kg	1	02/11/2014 18:18	75867
2-Nitroaniline	ND		850	ug/Kg	1	02/11/2014 18:18	75867
Dimethylphthalate	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Acenaphthylene	ND		420	ug/Kg	1	02/11/2014 18:18	75867
2,6-Dinitrotoluene	ND		420	ug/Kg	1	02/11/2014 18:18	75867
3-Nitroaniline	ND		850	ug/Kg	1	02/11/2014 18:18	75867
Acenaphthene	ND		420	ug/Kg	1	02/11/2014 18:18	75867
2,4-Dinitrophenol	ND		850	ug/Kg	1	02/11/2014 18:18	75867
4-Nitrophenol	ND		850	ug/Kg	1	02/11/2014 18:18	75867
Dibenzofuran	ND		420	ug/Kg	1	02/11/2014 18:18	75867
2,4-Dinitrotoluene	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Diethylphthalate	ND		420	ug/Kg	1	02/11/2014 18:18	75867
4-Chlorophenyl-phenylether	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Fluorene	ND		420	ug/Kg	1	02/11/2014 18:18	75867
4-Nitroaniline	ND		850	ug/Kg	1	02/11/2014 18:18	75867
4,6-Dinitro-2-methylphenol	ND		850	ug/Kg	1	02/11/2014 18:18	75867

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #4@12``

Lab ID: N0159-04

Project: Vanadium Site - NF

Collection Date: 02/07/14 11:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							SW8270_S
N-Nitrosodiphenylamine	ND		420	ug/Kg	1	02/11/2014 18:18	75867
4-Bromophenyl-phenylether	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Hexachlorobenzene	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Pentachlorophenol	ND		850	ug/Kg	1	02/11/2014 18:18	75867
Phenanthrene	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Anthracene	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Carbazole	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Di-n-butylphthalate	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Fluoranthene	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Pyrene	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Butylbenzylphthalate	ND		420	ug/Kg	1	02/11/2014 18:18	75867
3,3'-Dichlorobenzidine	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Benzo(a)anthracene	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Chrysene	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Bis(2-ethylhexyl)phthalate	200	J	420	ug/Kg	1	02/11/2014 18:18	75867
Di-n-octylphthalate	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Benzo(b)fluoranthene	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Benzo(k)fluoranthene	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Benzo(a)pyrene	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Indeno(1,2,3-cd)pyrene	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Dibenzo(a,h)anthracene	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Benzo(g,h,i)perylene	ND		420	ug/Kg	1	02/11/2014 18:18	75867
1,1'-Biphenyl	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Acetophenone	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Atrazine	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Benzaldehyde	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Caprolactam	ND		420	ug/Kg	1	02/11/2014 18:18	75867
Surrogate: Nitrobenzene-d5	64.7		35-100	%REC	1	02/11/2014 18:18	75867
Surrogate: 2-Fluorobiphenyl	61.2		45-105	%REC	1	02/11/2014 18:18	75867
Surrogate: Terphenyl-d14	68.2		30-125	%REC	1	02/11/2014 18:18	75867
Surrogate: Phenol-d5	61.4		40-100	%REC	1	02/11/2014 18:18	75867
Surrogate: 2-Fluorophenol	64.1		35-105	%REC	1	02/11/2014 18:18	75867
Surrogate: 2,4,6-Tribromophenol	62.2		35-125	%REC	1	02/11/2014 18:18	75867

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #5@12``

Lab ID: N0159-05

Project: Vanadium Site - NF

Collection Date: 02/07/14 13:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							SW8270_S
Phenol	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Bis(2-chloroethyl)ether	ND		400	ug/Kg	1	02/11/2014 18:42	75867
2-Chlorophenol	ND		400	ug/Kg	1	02/11/2014 18:42	75867
2-Methylphenol	ND		400	ug/Kg	1	02/11/2014 18:42	75867
2,2'-oxybis(1-Chloropropane)	ND		400	ug/Kg	1	02/11/2014 18:42	75867
4-Methylphenol	ND		400	ug/Kg	1	02/11/2014 18:42	75867
N-Nitroso-di-n-propylamine	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Hexachloroethane	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Nitrobenzene	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Isophorone	ND		400	ug/Kg	1	02/11/2014 18:42	75867
2-Nitrophenol	ND		400	ug/Kg	1	02/11/2014 18:42	75867
2,4-Dimethylphenol	ND		400	ug/Kg	1	02/11/2014 18:42	75867
2,4-Dichlorophenol	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Naphthalene	ND		400	ug/Kg	1	02/11/2014 18:42	75867
4-Chloroaniline	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Bis(2-chloroethoxy)methane	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Hexachlorobutadiene	ND		400	ug/Kg	1	02/11/2014 18:42	75867
4-Chloro-3-methylphenol	ND		400	ug/Kg	1	02/11/2014 18:42	75867
2-Methylnaphthalene	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Hexachlorocyclopentadiene	ND		400	ug/Kg	1	02/11/2014 18:42	75867
2,4,6-Trichlorophenol	ND		400	ug/Kg	1	02/11/2014 18:42	75867
2,4,5-Trichlorophenol	ND		820	ug/Kg	1	02/11/2014 18:42	75867
2-Chloronaphthalene	ND		400	ug/Kg	1	02/11/2014 18:42	75867
2-Nitroaniline	ND		820	ug/Kg	1	02/11/2014 18:42	75867
Dimethylphthalate	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Acenaphthylene	ND		400	ug/Kg	1	02/11/2014 18:42	75867
2,6-Dinitrotoluene	ND		400	ug/Kg	1	02/11/2014 18:42	75867
3-Nitroaniline	ND		820	ug/Kg	1	02/11/2014 18:42	75867
Acenaphthene	ND		400	ug/Kg	1	02/11/2014 18:42	75867
2,4-Dinitrophenol	ND		820	ug/Kg	1	02/11/2014 18:42	75867
4-Nitrophenol	ND		820	ug/Kg	1	02/11/2014 18:42	75867
Dibenzofuran	ND		400	ug/Kg	1	02/11/2014 18:42	75867
2,4-Dinitrotoluene	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Diethylphthalate	ND		400	ug/Kg	1	02/11/2014 18:42	75867
4-Chlorophenyl-phenylether	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Fluorene	ND		400	ug/Kg	1	02/11/2014 18:42	75867
4-Nitroaniline	ND		820	ug/Kg	1	02/11/2014 18:42	75867
4,6-Dinitro-2-methylphenol	ND		820	ug/Kg	1	02/11/2014 18:42	75867

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #5@12``

Lab ID: N0159-05

Project: Vanadium Site - NF

Collection Date: 02/07/14 13:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							SW8270_S
N-Nitrosodiphenylamine	ND		400	ug/Kg	1	02/11/2014 18:42	75867
4-Bromophenyl-phenylether	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Hexachlorobenzene	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Pentachlorophenol	ND		820	ug/Kg	1	02/11/2014 18:42	75867
Phenanthrene	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Anthracene	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Carbazole	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Di-n-butylphthalate	91	J	400	ug/Kg	1	02/11/2014 18:42	75867
Fluoranthene	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Pyrene	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Butylbenzylphthalate	ND		400	ug/Kg	1	02/11/2014 18:42	75867
3,3'-Dichlorobenzidine	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Benzo(a)anthracene	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Chrysene	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Bis(2-ethylhexyl)phthalate	160	J	400	ug/Kg	1	02/11/2014 18:42	75867
Di-n-octylphthalate	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Benzo(b)fluoranthene	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Benzo(k)fluoranthene	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Benzo(a)pyrene	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Indeno(1,2,3-cd)pyrene	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Dibenzo(a,h)anthracene	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Benzo(g,h,i)perylene	ND		400	ug/Kg	1	02/11/2014 18:42	75867
1,1'-Biphenyl	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Acetophenone	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Atrazine	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Benzaldehyde	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Caprolactam	ND		400	ug/Kg	1	02/11/2014 18:42	75867
Surrogate: Nitrobenzene-d5	56.5		35-100	%REC	1	02/11/2014 18:42	75867
Surrogate: 2-Fluorobiphenyl	53.8		45-105	%REC	1	02/11/2014 18:42	75867
Surrogate: Terphenyl-d14	59.5		30-125	%REC	1	02/11/2014 18:42	75867
Surrogate: Phenol-d5	51.8		40-100	%REC	1	02/11/2014 18:42	75867
Surrogate: 2-Fluorophenol	54.6		35-105	%REC	1	02/11/2014 18:42	75867
Surrogate: 2,4,6-Tribromophenol	52.6		35-125	%REC	1	02/11/2014 18:42	75867

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #6@12``

Lab ID: N0159-06

Project: Vanadium Site - NF

Collection Date: 02/07/14 13:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							SW8270_S
Phenol	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Bis(2-chloroethyl)ether	ND		410	ug/Kg	1	02/11/2014 19:05	75867
2-Chlorophenol	ND		410	ug/Kg	1	02/11/2014 19:05	75867
2-Methylphenol	ND		410	ug/Kg	1	02/11/2014 19:05	75867
2,2'-oxybis(1-Chloropropane)	ND		410	ug/Kg	1	02/11/2014 19:05	75867
4-Methylphenol	ND		410	ug/Kg	1	02/11/2014 19:05	75867
N-Nitroso-di-n-propylamine	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Hexachloroethane	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Nitrobenzene	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Isophorone	ND		410	ug/Kg	1	02/11/2014 19:05	75867
2-Nitrophenol	ND		410	ug/Kg	1	02/11/2014 19:05	75867
2,4-Dimethylphenol	ND		410	ug/Kg	1	02/11/2014 19:05	75867
2,4-Dichlorophenol	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Naphthalene	ND		410	ug/Kg	1	02/11/2014 19:05	75867
4-Chloroaniline	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Bis(2-chloroethoxy)methane	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Hexachlorobutadiene	ND		410	ug/Kg	1	02/11/2014 19:05	75867
4-Chloro-3-methylphenol	ND		410	ug/Kg	1	02/11/2014 19:05	75867
2-Methylnaphthalene	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Hexachlorocyclopentadiene	ND		410	ug/Kg	1	02/11/2014 19:05	75867
2,4,6-Trichlorophenol	ND		410	ug/Kg	1	02/11/2014 19:05	75867
2,4,5-Trichlorophenol	ND		840	ug/Kg	1	02/11/2014 19:05	75867
2-Chloronaphthalene	ND		410	ug/Kg	1	02/11/2014 19:05	75867
2-Nitroaniline	ND		840	ug/Kg	1	02/11/2014 19:05	75867
Dimethylphthalate	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Acenaphthylene	ND		410	ug/Kg	1	02/11/2014 19:05	75867
2,6-Dinitrotoluene	ND		410	ug/Kg	1	02/11/2014 19:05	75867
3-Nitroaniline	ND		840	ug/Kg	1	02/11/2014 19:05	75867
Acenaphthene	ND		410	ug/Kg	1	02/11/2014 19:05	75867
2,4-Dinitrophenol	ND		840	ug/Kg	1	02/11/2014 19:05	75867
4-Nitrophenol	ND		840	ug/Kg	1	02/11/2014 19:05	75867
Dibenzofuran	ND		410	ug/Kg	1	02/11/2014 19:05	75867
2,4-Dinitrotoluene	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Diethylphthalate	ND		410	ug/Kg	1	02/11/2014 19:05	75867
4-Chlorophenyl-phenylether	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Fluorene	ND		410	ug/Kg	1	02/11/2014 19:05	75867
4-Nitroaniline	ND		840	ug/Kg	1	02/11/2014 19:05	75867
4,6-Dinitro-2-methylphenol	ND		840	ug/Kg	1	02/11/2014 19:05	75867

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #6@12``

Lab ID: N0159-06

Project: Vanadium Site - NF

Collection Date: 02/07/14 13:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							SW8270_S
N-Nitrosodiphenylamine	ND		410	ug/Kg	1	02/11/2014 19:05	75867
4-Bromophenyl-phenylether	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Hexachlorobenzene	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Pentachlorophenol	ND		840	ug/Kg	1	02/11/2014 19:05	75867
Phenanthrene	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Anthracene	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Carbazole	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Di-n-butylphthalate	90	J	410	ug/Kg	1	02/11/2014 19:05	75867
Fluoranthene	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Pyrene	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Butylbenzylphthalate	ND		410	ug/Kg	1	02/11/2014 19:05	75867
3,3'-Dichlorobenzidine	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Benzo(a)anthracene	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Chrysene	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Bis(2-ethylhexyl)phthalate	150	J	410	ug/Kg	1	02/11/2014 19:05	75867
Di-n-octylphthalate	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Benzo(b)fluoranthene	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Benzo(k)fluoranthene	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Benzo(a)pyrene	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Indeno(1,2,3-cd)pyrene	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Dibenzo(a,h)anthracene	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Benzo(g,h,i)perylene	ND		410	ug/Kg	1	02/11/2014 19:05	75867
1,1'-Biphenyl	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Acetophenone	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Atrazine	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Benzaldehyde	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Caprolactam	ND		410	ug/Kg	1	02/11/2014 19:05	75867
Surrogate: Nitrobenzene-d5	61.2		35-100	%REC	1	02/11/2014 19:05	75867
Surrogate: 2-Fluorobiphenyl	58.7		45-105	%REC	1	02/11/2014 19:05	75867
Surrogate: Terphenyl-d14	63.0		30-125	%REC	1	02/11/2014 19:05	75867
Surrogate: Phenol-d5	57.7		40-100	%REC	1	02/11/2014 19:05	75867
Surrogate: 2-Fluorophenol	59.8		35-105	%REC	1	02/11/2014 19:05	75867
Surrogate: 2,4,6-Tribromophenol	59.3		35-125	%REC	1	02/11/2014 19:05	75867

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #1@12``

Lab ID: N0159-01

Project: Vanadium Site - NF

Collection Date: 02/07/14 10:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							SW8081_S
alpha-BHC	ND		2.4	ug/Kg	1	02/12/2014 23:41	75865
beta-BHC	ND		2.4	ug/Kg	1	02/12/2014 23:41	75865
delta-BHC	ND		2.4	ug/Kg	1	02/12/2014 23:41	75865
gamma-BHC (Lindane)	ND		2.4	ug/Kg	1	02/12/2014 23:41	75865
Heptachlor	ND		2.4	ug/Kg	1	02/12/2014 23:41	75865
Aldrin	ND		2.4	ug/Kg	1	02/12/2014 23:41	75865
Heptachlor epoxide	ND		2.4	ug/Kg	1	02/12/2014 23:41	75865
Endosulfan I	ND		2.4	ug/Kg	1	02/12/2014 23:41	75865
Dieldrin	ND		4.6	ug/Kg	1	02/12/2014 23:41	75865
4,4'-DDE	ND		4.6	ug/Kg	1	02/12/2014 23:41	75865
Endrin	ND		4.6	ug/Kg	1	02/12/2014 23:41	75865
Endosulfan II	ND		4.6	ug/Kg	1	02/12/2014 23:41	75865
4,4'-DDD	ND		4.6	ug/Kg	1	02/12/2014 23:41	75865
Endosulfan sulfate	ND		4.6	ug/Kg	1	02/12/2014 23:41	75865
4,4'-DDT	ND		4.6	ug/Kg	1	02/12/2014 23:41	75865
Methoxychlor	ND		24	ug/Kg	1	02/12/2014 23:41	75865
Endrin ketone	ND		4.6	ug/Kg	1	02/12/2014 23:41	75865
Endrin aldehyde	ND		4.6	ug/Kg	1	02/12/2014 23:41	75865
alpha-Chlordane	ND		2.4	ug/Kg	1	02/12/2014 23:41	75865
gamma-Chlordane	ND		2.4	ug/Kg	1	02/12/2014 23:41	75865
Toxaphene	ND		240	ug/Kg	1	02/12/2014 23:41	75865
Surrogate: Tetrachloro-m-xylene	66.6		14-113	%REC	1	02/12/2014 23:41	75865
Surrogate: Decachlorobiphenyl	57.0		55-130	%REC	1	02/12/2014 23:41	75865

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #2@12``

Lab ID: N0159-02

Project: Vanadium Site - NF

Collection Date: 02/07/14 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							SW8081_S
alpha-BHC	ND		2.3	ug/Kg	1	02/12/2014 23:55	75865
beta-BHC	ND		2.3	ug/Kg	1	02/12/2014 23:55	75865
delta-BHC	ND		2.3	ug/Kg	1	02/12/2014 23:55	75865
gamma-BHC (Lindane)	ND		2.3	ug/Kg	1	02/12/2014 23:55	75865
Heptachlor	ND		2.3	ug/Kg	1	02/12/2014 23:55	75865
Aldrin	ND		2.3	ug/Kg	1	02/12/2014 23:55	75865
Heptachlor epoxide	ND		2.3	ug/Kg	1	02/12/2014 23:55	75865
Endosulfan I	ND		2.3	ug/Kg	1	02/12/2014 23:55	75865
Dieldrin	ND		4.5	ug/Kg	1	02/12/2014 23:55	75865
4,4'-DDE	ND		4.5	ug/Kg	1	02/12/2014 23:55	75865
Endrin	ND		4.5	ug/Kg	1	02/12/2014 23:55	75865
Endosulfan II	ND		4.5	ug/Kg	1	02/12/2014 23:55	75865
4,4'-DDD	ND		4.5	ug/Kg	1	02/12/2014 23:55	75865
Endosulfan sulfate	ND		4.5	ug/Kg	1	02/12/2014 23:55	75865
4,4'-DDT	ND		4.5	ug/Kg	1	02/12/2014 23:55	75865
Methoxychlor	ND		23	ug/Kg	1	02/12/2014 23:55	75865
Endrin ketone	ND		4.5	ug/Kg	1	02/12/2014 23:55	75865
Endrin aldehyde	ND		4.5	ug/Kg	1	02/12/2014 23:55	75865
alpha-Chlordane	ND		2.3	ug/Kg	1	02/12/2014 23:55	75865
gamma-Chlordane	ND		2.3	ug/Kg	1	02/12/2014 23:55	75865
Toxaphene	ND		230	ug/Kg	1	02/12/2014 23:55	75865
Surrogate: Tetrachloro-m-xylene	74.2		14-113	%REC	1	02/12/2014 23:55	75865
Surrogate: Decachlorobiphenyl	68.2		55-130	%REC	1	02/12/2014 23:55	75865

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #3@12``

Lab ID: N0159-03

Project: Vanadium Site - NF

Collection Date: 02/07/14 11:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							SW8081_S
alpha-BHC	ND		2.1	ug/Kg	1	02/13/2014 0:10	75865
beta-BHC	ND		2.1	ug/Kg	1	02/13/2014 0:10	75865
delta-BHC	ND		2.1	ug/Kg	1	02/13/2014 0:10	75865
gamma-BHC (Lindane)	ND		2.1	ug/Kg	1	02/13/2014 0:10	75865
Heptachlor	ND		2.1	ug/Kg	1	02/13/2014 0:10	75865
Aldrin	ND		2.1	ug/Kg	1	02/13/2014 0:10	75865
Heptachlor epoxide	ND		2.1	ug/Kg	1	02/13/2014 0:10	75865
Endosulfan I	ND		2.1	ug/Kg	1	02/13/2014 0:10	75865
Dieldrin	ND		4.0	ug/Kg	1	02/13/2014 0:10	75865
4,4'-DDE	ND		4.0	ug/Kg	1	02/13/2014 0:10	75865
Endrin	ND		4.0	ug/Kg	1	02/13/2014 0:10	75865
Endosulfan II	ND		4.0	ug/Kg	1	02/13/2014 0:10	75865
4,4'-DDD	ND		4.0	ug/Kg	1	02/13/2014 0:10	75865
Endosulfan sulfate	ND		4.0	ug/Kg	1	02/13/2014 0:10	75865
4,4'-DDT	ND		4.0	ug/Kg	1	02/13/2014 0:10	75865
Methoxychlor	ND		21	ug/Kg	1	02/13/2014 0:10	75865
Endrin ketone	ND		4.0	ug/Kg	1	02/13/2014 0:10	75865
Endrin aldehyde	ND		4.0	ug/Kg	1	02/13/2014 0:10	75865
alpha-Chlordane	ND		2.1	ug/Kg	1	02/13/2014 0:10	75865
gamma-Chlordane	ND		2.1	ug/Kg	1	02/13/2014 0:10	75865
Toxaphene	ND		210	ug/Kg	1	02/13/2014 0:10	75865
Surrogate: Tetrachloro-m-xylene	61.4		14-113	%REC	1	02/13/2014 0:10	75865
Surrogate: Decachlorobiphenyl	57.3		55-130	%REC	1	02/13/2014 0:10	75865

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #4@12``

Lab ID: N0159-04

Project: Vanadium Site - NF

Collection Date: 02/07/14 11:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							SW8081_S
alpha-BHC	ND		2.2	ug/Kg	1	02/13/2014 0:24	75865
beta-BHC	ND		2.2	ug/Kg	1	02/13/2014 0:24	75865
delta-BHC	ND		2.2	ug/Kg	1	02/13/2014 0:24	75865
gamma-BHC (Lindane)	ND		2.2	ug/Kg	1	02/13/2014 0:24	75865
Heptachlor	ND		2.2	ug/Kg	1	02/13/2014 0:24	75865
Aldrin	ND		2.2	ug/Kg	1	02/13/2014 0:24	75865
Heptachlor epoxide	ND		2.2	ug/Kg	1	02/13/2014 0:24	75865
Endosulfan I	ND		2.2	ug/Kg	1	02/13/2014 0:24	75865
Dieldrin	ND		4.2	ug/Kg	1	02/13/2014 0:24	75865
4,4'-DDE	ND		4.2	ug/Kg	1	02/13/2014 0:24	75865
Endrin	ND		4.2	ug/Kg	1	02/13/2014 0:24	75865
Endosulfan II	ND		4.2	ug/Kg	1	02/13/2014 0:24	75865
4,4'-DDD	ND		4.2	ug/Kg	1	02/13/2014 0:24	75865
Endosulfan sulfate	ND		4.2	ug/Kg	1	02/13/2014 0:24	75865
4,4'-DDT	ND		4.2	ug/Kg	1	02/13/2014 0:24	75865
Methoxychlor	ND		22	ug/Kg	1	02/13/2014 0:24	75865
Endrin ketone	ND		4.2	ug/Kg	1	02/13/2014 0:24	75865
Endrin aldehyde	ND		4.2	ug/Kg	1	02/13/2014 0:24	75865
alpha-Chlordane	ND		2.2	ug/Kg	1	02/13/2014 0:24	75865
gamma-Chlordane	ND		2.2	ug/Kg	1	02/13/2014 0:24	75865
Toxaphene	ND		220	ug/Kg	1	02/13/2014 0:24	75865
Surrogate: Tetrachloro-m-xylene	73.0		14-113	%REC	1	02/13/2014 0:24	75865
Surrogate: Decachlorobiphenyl	60.2		55-130	%REC	1	02/13/2014 0:24	75865

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #5@12``

Lab ID: N0159-05

Project: Vanadium Site - NF

Collection Date: 02/07/14 13:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							SW8081_S
alpha-BHC	ND		2.1	ug/Kg	1	02/13/2014 0:39	75865
beta-BHC	ND		2.1	ug/Kg	1	02/13/2014 0:39	75865
delta-BHC	ND		2.1	ug/Kg	1	02/13/2014 0:39	75865
gamma-BHC (Lindane)	ND		2.1	ug/Kg	1	02/13/2014 0:39	75865
Heptachlor	ND		2.1	ug/Kg	1	02/13/2014 0:39	75865
Aldrin	ND		2.1	ug/Kg	1	02/13/2014 0:39	75865
Heptachlor epoxide	ND		2.1	ug/Kg	1	02/13/2014 0:39	75865
Endosulfan I	ND		2.1	ug/Kg	1	02/13/2014 0:39	75865
Dieldrin	ND		4.0	ug/Kg	1	02/13/2014 0:39	75865
4,4'-DDE	ND		4.0	ug/Kg	1	02/13/2014 0:39	75865
Endrin	ND		4.0	ug/Kg	1	02/13/2014 0:39	75865
Endosulfan II	ND		4.0	ug/Kg	1	02/13/2014 0:39	75865
4,4'-DDD	ND		4.0	ug/Kg	1	02/13/2014 0:39	75865
Endosulfan sulfate	ND		4.0	ug/Kg	1	02/13/2014 0:39	75865
4,4'-DDT	ND		4.0	ug/Kg	1	02/13/2014 0:39	75865
Methoxychlor	ND		21	ug/Kg	1	02/13/2014 0:39	75865
Endrin ketone	ND		4.0	ug/Kg	1	02/13/2014 0:39	75865
Endrin aldehyde	ND		4.0	ug/Kg	1	02/13/2014 0:39	75865
alpha-Chlordane	ND		2.1	ug/Kg	1	02/13/2014 0:39	75865
gamma-Chlordane	ND		2.1	ug/Kg	1	02/13/2014 0:39	75865
Toxaphene	ND		210	ug/Kg	1	02/13/2014 0:39	75865
Surrogate: Tetrachloro-m-xylene	65.4		14-113	%REC	1	02/13/2014 0:39	75865
Surrogate: Decachlorobiphenyl	57.3		55-130	%REC	1	02/13/2014 0:39	75865

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #6@12``

Lab ID: N0159-06

Project: Vanadium Site - NF

Collection Date: 02/07/14 13:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							SW8081_S
alpha-BHC	ND		2.2	ug/Kg	1	02/13/2014 0:53	75865
beta-BHC	ND		2.2	ug/Kg	1	02/13/2014 0:53	75865
delta-BHC	ND		2.2	ug/Kg	1	02/13/2014 0:53	75865
gamma-BHC (Lindane)	ND		2.2	ug/Kg	1	02/13/2014 0:53	75865
Heptachlor	ND		2.2	ug/Kg	1	02/13/2014 0:53	75865
Aldrin	ND		2.2	ug/Kg	1	02/13/2014 0:53	75865
Heptachlor epoxide	ND		2.2	ug/Kg	1	02/13/2014 0:53	75865
Endosulfan I	ND		2.2	ug/Kg	1	02/13/2014 0:53	75865
Dieldrin	ND		4.3	ug/Kg	1	02/13/2014 0:53	75865
4,4'-DDE	ND		4.3	ug/Kg	1	02/13/2014 0:53	75865
Endrin	ND		4.3	ug/Kg	1	02/13/2014 0:53	75865
Endosulfan II	ND		4.3	ug/Kg	1	02/13/2014 0:53	75865
4,4'-DDD	ND		4.3	ug/Kg	1	02/13/2014 0:53	75865
Endosulfan sulfate	ND		4.3	ug/Kg	1	02/13/2014 0:53	75865
4,4'-DDT	ND		4.3	ug/Kg	1	02/13/2014 0:53	75865
Methoxychlor	ND		22	ug/Kg	1	02/13/2014 0:53	75865
Endrin ketone	ND		4.3	ug/Kg	1	02/13/2014 0:53	75865
Endrin aldehyde	ND		4.3	ug/Kg	1	02/13/2014 0:53	75865
alpha-Chlordane	ND		2.2	ug/Kg	1	02/13/2014 0:53	75865
gamma-Chlordane	ND		2.2	ug/Kg	1	02/13/2014 0:53	75865
Toxaphene	ND		220	ug/Kg	1	02/13/2014 0:53	75865
Surrogate: Tetrachloro-m-xylene	68.7		14-113	%REC	1	02/13/2014 0:53	75865
Surrogate: Decachlorobiphenyl	58.8		55-130	%REC	1	02/13/2014 0:53	75865

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

HERBICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

SA-SW #1 at 12in.

Lab Name: Spectrum Analytical, Inc. Contract: Vanadium Site- NF N0159
 Lab Code : PEL Case No. SAS No: SDG No.: 3511547
 Matrix: SOIL Lab Sample ID: 351154701 Lab File ID: 54701.D
 Sample wt/vol: 33.07 Units: G Date Received: 02/11/14
 Concentrated Extract Volume: 10 Date Extracted: 02/12/14
 Level:(low/med) LOW Date Analyzed: 02/13/14 Time: 1351
 PercentSolids: 68.3 decanted : Dilution Factor: 1
 Extraction: SONC Station ID:
 GPC Cleanup : (Y/N) N pH:
 Column(1): STX-CLP1 ID: 0.32 (mm)
 CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
1918-00-9	Dicamba	15	U	7.3	15
75-99-0	Dalapon	28	U	19	28
94-75-7	2,4'-D	15	U	7.3	15
93-72-1	2,4,5-TP (Silvex)	15	U	7.3	15
88-85-7	Dinoseb	15	U	7.3	15
87-86-5	Pentachlorophenol	15	U	7.3	15

HERBICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

SA-SW #2 at 12in.

Lab Name: Spectrum Analytical, Inc. Contract: Vanadium Site- NF N0159
 Lab Code : PEL Case No. SAS No: SDG No.: 3511547
 Matrix: SOIL Lab Sample ID: 351154702 Lab File ID: 54702.D
 Sample wt/vol: 33.69 Units: G Date Received: 02/11/14
 Concentrated Extract Volume: 10 Date Extracted: 02/12/14
 Level:(low/med) LOW Date Analyzed: 02/13/14 Time: 1415
 PercentSolids: 74.4 decanted : Dilution Factor: 1
 Extraction: SONC Station ID:
 GPC Cleanup : (Y/N) N pH:
 Column(1): STX-CLP1 ID: 0.32 (mm)
 CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
1918-00-9	Dicamba	13	U	6.6	13
75-99-0	Dalapon	25	U	17	25
94-75-7	2,4'-D	13	U	6.6	13
93-72-1	2,4,5-TP (Silvex)	13	U	6.6	13
88-85-7	Dinoseb	13	U	6.6	13
87-86-5	Pentachlorophenol	13	U	6.6	13

HERBICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

SA-SW #3 at 12in.

Lab Name: Spectrum Analytical, Inc. Contract: Vanadium Site- NF N0159
 Lab Code : PEL Case No. SAS No: SDG No.: 3511547
 Matrix: SOIL Lab Sample ID: 351154703 Lab File ID: 54703.D
 Sample wt/vol: 33.47 Units: G Date Received: 02/11/14
 Concentrated Extract Volume: 10 Date Extracted: 02/12/14
 Level:(low/med) LOW Date Analyzed: 02/13/14 Time: 1440
 PercentSolids: 79.6 decanted : Dilution Factor: 1
 Extraction: SONC Station ID:
 GPC Cleanup : (Y/N) N pH:
 Column(1): STX-CLP1 ID: 0.32 (mm)
 CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
1918-00-9	Dicamba	12	U	6.2	12
75-99-0	Dalapon	24	U	16	24
94-75-7	2,4'-D	12	U	6.2	12
93-72-1	2,4,5-TP (Silvex)	12	U	6.2	12
88-85-7	Dinoseb	12	U	6.2	12
87-86-5	Pentachlorophenol	12	U	6.2	12

HERBICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

SA-SW #4 at 12in.

Lab Name: Spectrum Analytical, Inc. Contract: Vanadium Site- NF N0159
 Lab Code : PEL Case No. SAS No: SDG No.: 3511547
 Matrix: SOIL Lab Sample ID: 351154704 Lab File ID: 54704.D
 Sample wt/vol: 33.19 Units: G Date Received: 02/11/14
 Concentrated Extract Volume: 10 Date Extracted: 02/12/14
 Level:(low/med) LOW Date Analyzed: 02/13/14 Time: 1505
 PercentSolids: 79.5 decanted : Dilution Factor: 1
 Extraction: SONC Station ID:
 GPC Cleanup : (Y/N) N pH:
 Column(1): STX-CLP1 ID: 0.32 (mm)
 CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
1918-00-9	Dicamba	12	U	6.2	12
75-99-0	Dalapon	24	U	16	24
94-75-7	2,4'-D	12	U	6.2	12
93-72-1	2,4,5-TP (Silvex)	12	U	6.2	12
88-85-7	Dinoseb	12	U	6.2	12
87-86-5	Pentachlorophenol	12	U	6.2	12

HERBICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

SA-SW #5 at 12in.

Lab Name: Spectrum Analytical, Inc. Contract: Vanadium Site- NF N0159

Lab Code : PEL Case No. SAS No: SDG No.: 3511547

Matrix: SOIL Lab Sample ID: 351154705 Lab File ID: 54705.D

Sample wt/vol: 33.27 Units: G Date Received: 02/11/14

Concentrated Extract Volume: 10 Date Extracted: 02/12/14

Level:(low/med) LOW Date Analyzed: 02/13/14 Time: 1530

PercentSolids: 78.5 decanted : Dilution Factor: 1

Extraction: SONC Station ID:

GPC Cleanup : (Y/N) N pH:

Column(1): STX-CLP1 ID: 0.32 (mm)

CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
1918-00-9	Dicamba	13	U	6.3	13
75-99-0	Dalapon	24	U	16	24
94-75-7	2,4'-D	13	U	6.3	13
93-72-1	2,4,5-TP (Silvex)	13	U	6.3	13
88-85-7	Dinoseb	13	U	6.3	13
87-86-5	Pentachlorophenol	13	U	6.3	13

HERBICIDE ORGANIC ANALYSIS DATA SHEET

EPA Sample No.

SA-SW #6 at 12in.

Lab Name: Spectrum Analytical, Inc. Contract: Vanadium Site- NF N0159
 Lab Code : PEL Case No. SAS No: SDG No.: 3511547
 Matrix: SOIL Lab Sample ID: 351154706 Lab File ID: 54706.D
 Sample wt/vol: 33.47 Units: G Date Received: 02/11/14
 Concentrated Extract Volume: 10 Date Extracted: 02/12/14
 Level:(low/med) LOW Date Analyzed: 02/13/14 Time: 1555
 PercentSolids: 77.2 decanted : Dilution Factor: 1
 Extraction: SONC Station ID:
 GPC Cleanup : (Y/N) N pH:
 Column(1): STX-CLP1 ID: 0.32 (mm)
 CONCENTRATION UNITS: UG/KG

CAS NO.	ANALYTE	RESULT	Q	MDL	RL
1918-00-9	Dicamba	13	U	6.4	13
75-99-0	Dalapon	24	U	17	24
94-75-7	2,4'-D	13	U	6.4	13
93-72-1	2,4,5-TP (Silvex)	13	U	6.4	13
88-85-7	Dinoseb	13	U	6.4	13
87-86-5	Pentachlorophenol	13	U	6.4	13

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #1@12``

Lab ID: N0159-01

Project: Vanadium Site - NF

Collection Date: 02/07/14 10:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							SW8082_S
Aroclor-1016	ND		46	ug/Kg	1	02/11/2014 15:20	75866
Aroclor-1221	ND		46	ug/Kg	1	02/11/2014 15:20	75866
Aroclor-1232	ND		46	ug/Kg	1	02/11/2014 15:20	75866
Aroclor-1242	ND		46	ug/Kg	1	02/11/2014 15:20	75866
Aroclor-1248	ND		46	ug/Kg	1	02/11/2014 15:20	75866
Aroclor-1254	ND		46	ug/Kg	1	02/11/2014 15:20	75866
Aroclor-1260	ND		46	ug/Kg	1	02/11/2014 15:20	75866
Surrogate: Tetrachloro-m-xylene	68.7		34-147	%REC	1	02/11/2014 15:20	75866
Surrogate: Decachlorobiphenyl	72.7		60-125	%REC	1	02/11/2014 15:20	75866

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #2@12``

Lab ID: N0159-02

Project: Vanadium Site - NF

Collection Date: 02/07/14 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							SW8082_S
Aroclor-1016	ND		45	ug/Kg	1	02/11/2014 15:38	75866
Aroclor-1221	ND		45	ug/Kg	1	02/11/2014 15:38	75866
Aroclor-1232	ND		45	ug/Kg	1	02/11/2014 15:38	75866
Aroclor-1242	ND		45	ug/Kg	1	02/11/2014 15:38	75866
Aroclor-1248	ND		45	ug/Kg	1	02/11/2014 15:38	75866
Aroclor-1254	ND		45	ug/Kg	1	02/11/2014 15:38	75866
Aroclor-1260	ND		45	ug/Kg	1	02/11/2014 15:38	75866
Surrogate: Tetrachloro-m-xylene	76.7		34-147	%REC	1	02/11/2014 15:38	75866
Surrogate: Decachlorobiphenyl	80.2		60-125	%REC	1	02/11/2014 15:38	75866

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #3@12``

Lab ID: N0159-03

Project: Vanadium Site - NF

Collection Date: 02/07/14 11:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							SW8082_S
Aroclor-1016	ND		40	ug/Kg	1	02/11/2014 15:56	75866
Aroclor-1221	ND		40	ug/Kg	1	02/11/2014 15:56	75866
Aroclor-1232	ND		40	ug/Kg	1	02/11/2014 15:56	75866
Aroclor-1242	ND		40	ug/Kg	1	02/11/2014 15:56	75866
Aroclor-1248	ND		40	ug/Kg	1	02/11/2014 15:56	75866
Aroclor-1254	ND		40	ug/Kg	1	02/11/2014 15:56	75866
Aroclor-1260	ND		40	ug/Kg	1	02/11/2014 15:56	75866
Surrogate: Tetrachloro-m-xylene	59.5		34-147	%REC	1	02/11/2014 15:56	75866
Surrogate: Decachlorobiphenyl	72.9		60-125	%REC	1	02/11/2014 15:56	75866

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #4@12``

Lab ID: N0159-04

Project: Vanadium Site - NF

Collection Date: 02/07/14 11:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							SW8082_S
Aroclor-1016	ND		42	ug/Kg	1	02/11/2014 16:14	75866
Aroclor-1221	ND		42	ug/Kg	1	02/11/2014 16:14	75866
Aroclor-1232	ND		42	ug/Kg	1	02/11/2014 16:14	75866
Aroclor-1242	ND		42	ug/Kg	1	02/11/2014 16:14	75866
Aroclor-1248	ND		42	ug/Kg	1	02/11/2014 16:14	75866
Aroclor-1254	ND		42	ug/Kg	1	02/11/2014 16:14	75866
Aroclor-1260	ND		42	ug/Kg	1	02/11/2014 16:14	75866
Surrogate: Tetrachloro-m-xylene	70.1		34-147	%REC	1	02/11/2014 16:14	75866
Surrogate: Decachlorobiphenyl	75.6		60-125	%REC	1	02/11/2014 16:14	75866

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #5@12``

Lab ID: N0159-05

Project: Vanadium Site - NF

Collection Date: 02/07/14 13:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							SW8082_S
Aroclor-1016	ND		40	ug/Kg	1	02/11/2014 16:32	75866
Aroclor-1221	ND		40	ug/Kg	1	02/11/2014 16:32	75866
Aroclor-1232	ND		40	ug/Kg	1	02/11/2014 16:32	75866
Aroclor-1242	ND		40	ug/Kg	1	02/11/2014 16:32	75866
Aroclor-1248	ND		40	ug/Kg	1	02/11/2014 16:32	75866
Aroclor-1254	ND		40	ug/Kg	1	02/11/2014 16:32	75866
Aroclor-1260	ND		40	ug/Kg	1	02/11/2014 16:32	75866
Surrogate: Tetrachloro-m-xylene	64.9		34-147	%REC	1	02/11/2014 16:32	75866
Surrogate: Decachlorobiphenyl	76.2		60-125	%REC	1	02/11/2014 16:32	75866

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #6@12``

Lab ID: N0159-06

Project: Vanadium Site - NF

Collection Date: 02/07/14 13:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							SW8082_S
Aroclor-1016	ND		43	ug/Kg		1 02/11/2014 16:50	75866
Aroclor-1221	ND		43	ug/Kg		1 02/11/2014 16:50	75866
Aroclor-1232	ND		43	ug/Kg		1 02/11/2014 16:50	75866
Aroclor-1242	ND		43	ug/Kg		1 02/11/2014 16:50	75866
Aroclor-1248	ND		43	ug/Kg		1 02/11/2014 16:50	75866
Aroclor-1254	ND		43	ug/Kg		1 02/11/2014 16:50	75866
Aroclor-1260	ND		43	ug/Kg		1 02/11/2014 16:50	75866
Surrogate: Tetrachloro-m-xylene	66.1		34-147	%REC		1 02/11/2014 16:50	75866
Surrogate: Decachlorobiphenyl	76.2		60-125	%REC		1 02/11/2014 16:50	75866

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #1@12``

Lab ID: N0159-01

Project: Vanadium Site - NF

Collection Date: 02/07/14 10:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_S
Aluminum	17000		12	mg/Kg		102/12/2014 8:47	75886
Antimony	0.52	J	1.2	mg/Kg		102/12/2014 8:47	75886
Arsenic	8.6		1.2	mg/Kg		102/12/2014 8:47	75886
Barium	100	B	12	mg/Kg		102/12/2014 8:47	75886
Beryllium	0.70	B	0.29	mg/Kg		102/12/2014 8:47	75886
Cadmium	0.48		0.29	mg/Kg		102/12/2014 8:47	75886
Calcium	4900		47	mg/Kg		102/12/2014 8:47	75886
Chromium	99	B	30	mg/Kg		102/12/2014 8:47	75886
Cobalt	13		2.9	mg/Kg		102/12/2014 8:47	75886
Copper	42		1.8	mg/Kg		102/12/2014 8:47	75886
Iron	28000		12	mg/Kg		102/12/2014 8:47	75886
Lead	30		0.59	mg/Kg		102/12/2014 8:47	75886
Magnesium	4600	B	29	mg/Kg		102/12/2014 8:47	75886
Manganese	720		2.9	mg/Kg		102/12/2014 8:47	75886
Nickel	36		30	mg/Kg		102/12/2014 8:47	75886
Potassium	2100	B	59	mg/Kg		102/12/2014 8:47	75886
Selenium	1.3	J	1.8	mg/Kg		102/12/2014 8:47	75886
Silver	1.1	BJ	1.8	mg/Kg		102/12/2014 8:47	75886
Sodium	190	B	59	mg/Kg		102/12/2014 8:47	75886
Thallium	ND		1.2	mg/Kg		102/12/2014 8:47	75886
Vanadium	37		2.9	mg/Kg		102/12/2014 8:47	75886
Zinc	87		2.9	mg/Kg		102/12/2014 8:47	75886
SW846 7471B -- Mercury by FIA							SW7471
Mercury	0.071		0.048	mg/Kg		102/12/2014 10:22	75889

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #2@12``

Lab ID: N0159-02

Project: Vanadium Site - NF

Collection Date: 02/07/14 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_S
Aluminum	22000		160	mg/Kg		20 02/12/2014 9:54	75886
Antimony	ND		0.78	mg/Kg		1 02/12/2014 8:51	75886
Arsenic	6.6		0.78	mg/Kg		1 02/12/2014 8:51	75886
Barium	110	B	7.8	mg/Kg		1 02/12/2014 8:51	75886
Beryllium	0.94	B	0.19	mg/Kg		1 02/12/2014 8:51	75886
Cadmium	0.50		0.19	mg/Kg		1 02/12/2014 8:51	75886
Calcium	4700		31	mg/Kg		1 02/12/2014 8:51	75886
Chromium	37	B	30	mg/Kg		1 02/12/2014 8:51	75886
Cobalt	14		1.9	mg/Kg		1 02/12/2014 8:51	75886
Copper	17		1.2	mg/Kg		1 02/12/2014 8:51	75886
Iron	38000		160	mg/Kg		20 02/12/2014 9:54	75886
Lead	14		0.39	mg/Kg		1 02/12/2014 8:51	75886
Magnesium	6000	B	19	mg/Kg		1 02/12/2014 8:51	75886
Manganese	1200		1.9	mg/Kg		1 02/12/2014 8:51	75886
Nickel	26		1.9	mg/Kg		1 02/12/2014 8:51	75886
Potassium	1900	B	39	mg/Kg		1 02/12/2014 8:51	75886
Selenium	0.94	J	1.2	mg/Kg		1 02/12/2014 8:51	75886
Silver	0.99	BJ	1.2	mg/Kg		1 02/12/2014 8:51	75886
Sodium	170	B	39	mg/Kg		1 02/12/2014 8:51	75886
Thallium	ND		0.78	mg/Kg		1 02/12/2014 8:51	75886
Vanadium	39		1.9	mg/Kg		1 02/12/2014 8:51	75886
Zinc	64		1.9	mg/Kg		1 02/12/2014 8:51	75886
SW846 7471B -- Mercury by FIA							SW7471
Mercury	0.028	J	0.052	mg/Kg		1 02/12/2014 10:24	75889

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #3@12``

Lab ID: N0159-03

Project: Vanadium Site - NF

Collection Date: 02/07/14 11:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_S
Aluminum	22000		11	mg/Kg		1 02/12/2014 8:55	75886
Antimony	ND		1.1	mg/Kg		1 02/12/2014 8:55	75886
Arsenic	7.8		1.1	mg/Kg		1 02/12/2014 8:55	75886
Barium	160	B	11	mg/Kg		1 02/12/2014 8:55	75886
Beryllium	1.0	B	0.29	mg/Kg		1 02/12/2014 8:55	75886
Cadmium	0.36		0.29	mg/Kg		1 02/12/2014 8:55	75886
Calcium	3900		46	mg/Kg		1 02/12/2014 8:55	75886
Chromium	29	B	1.1	mg/Kg		1 02/12/2014 8:55	75886
Cobalt	15		2.9	mg/Kg		1 02/12/2014 8:55	75886
Copper	32		1.7	mg/Kg		1 02/12/2014 8:55	75886
Iron	38000		230	mg/Kg		20 02/12/2014 9:58	75886
Lead	11		0.57	mg/Kg		1 02/12/2014 8:55	75886
Magnesium	9200	B	29	mg/Kg		1 02/12/2014 8:55	75886
Manganese	830		2.9	mg/Kg		1 02/12/2014 8:55	75886
Nickel	38	30	2.9	mg/Kg		1 02/12/2014 8:55	75886
Potassium	2200	B	57	mg/Kg		1 02/12/2014 8:55	75886
Selenium	1.7	J	1.7	mg/Kg		1 02/12/2014 8:55	75886
Silver	0.96	BJ	1.7	mg/Kg		1 02/12/2014 8:55	75886
Sodium	98	B	57	mg/Kg		1 02/12/2014 8:55	75886
Thallium	ND		1.1	mg/Kg		1 02/12/2014 8:55	75886
Vanadium	36		2.9	mg/Kg		1 02/12/2014 8:55	75886
Zinc	68		2.9	mg/Kg		1 02/12/2014 8:55	75886
SW846 7471B -- Mercury by FIA							SW7471
Mercury	0.023	J	0.044	mg/Kg		1 02/12/2014 10:26	75889

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #4@12``

Lab ID: N0159-04

Project: Vanadium Site - NF

Collection Date: 02/07/14 11:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_S
Aluminum	20000		10	mg/Kg		1 02/12/2014 8:59	75886
Antimony	ND		1.0	mg/Kg		1 02/12/2014 8:59	75886
Arsenic	6.2		1.0	mg/Kg		1 02/12/2014 8:59	75886
Barium	150	B	10	mg/Kg		1 02/12/2014 8:59	75886
Beryllium	0.91	B	0.26	mg/Kg		1 02/12/2014 8:59	75886
Cadmium	0.29		0.26	mg/Kg		1 02/12/2014 8:59	75886
Calcium	3400		41	mg/Kg		1 02/12/2014 8:59	75886
Chromium	27	B	1.0	mg/Kg		1 02/12/2014 8:59	75886
Cobalt	16		2.6	mg/Kg		1 02/12/2014 8:59	75886
Copper	29		1.5	mg/Kg		1 02/12/2014 8:59	75886
Iron	34000		200	mg/Kg		20 02/12/2014 10:02	75886
Lead	9.6		0.51	mg/Kg		1 02/12/2014 8:59	75886
Magnesium	8400	B	26	mg/Kg		1 02/12/2014 8:59	75886
Manganese	1400		2.6	mg/Kg		1 02/12/2014 8:59	75886
Nickel	39	30	2.6	mg/Kg		1 02/12/2014 8:59	75886
Potassium	2300	B	51	mg/Kg		1 02/12/2014 8:59	75886
Selenium	1.2	J	1.5	mg/Kg		1 02/12/2014 8:59	75886
Silver	0.95	BJ	1.5	mg/Kg		1 02/12/2014 8:59	75886
Sodium	89	B	51	mg/Kg		1 02/12/2014 8:59	75886
Thallium	ND		1.0	mg/Kg		1 02/12/2014 8:59	75886
Vanadium	33		2.6	mg/Kg		1 02/12/2014 8:59	75886
Zinc	57		2.6	mg/Kg		1 02/12/2014 8:59	75886
SW846 7471B -- Mercury by FIA							SW7471
Mercury	0.022	J	0.049	mg/Kg		1 02/12/2014 10:27	75889

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #5@12``

Lab ID: N0159-05

Project: Vanadium Site - NF

Collection Date: 02/07/14 13:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_S
Aluminum	25000		160	mg/Kg		20 02/12/2014 10:05	75886
Antimony	ND		0.82	mg/Kg		1 02/12/2014 9:03	75886
Arsenic	6.3		0.82	mg/Kg		1 02/12/2014 9:03	75886
Barium	160	B	8.2	mg/Kg		1 02/12/2014 9:03	75886
Beryllium	1.0	B	0.21	mg/Kg		1 02/12/2014 9:03	75886
Cadmium	0.32		0.21	mg/Kg		1 02/12/2014 9:03	75886
Calcium	3500		33	mg/Kg		1 02/12/2014 9:03	75886
Chromium	31	B 30	0.82	mg/Kg		1 02/12/2014 9:03	75886
Cobalt	11		2.1	mg/Kg		1 02/12/2014 9:03	75886
Copper	28		1.2	mg/Kg		1 02/12/2014 9:03	75886
Iron	38000		160	mg/Kg		20 02/12/2014 10:05	75886
Lead	10		0.41	mg/Kg		1 02/12/2014 9:03	75886
Magnesium	8900	B	21	mg/Kg		1 02/12/2014 9:03	75886
Manganese	320		2.1	mg/Kg		1 02/12/2014 9:03	75886
Nickel	31	B 30	2.1	mg/Kg		1 02/12/2014 9:03	75886
Potassium	2500	B	41	mg/Kg		1 02/12/2014 9:03	75886
Selenium	ND		1.2	mg/Kg		1 02/12/2014 9:03	75886
Silver	0.78	BJ	1.2	mg/Kg		1 02/12/2014 9:03	75886
Sodium	110	B	41	mg/Kg		1 02/12/2014 9:03	75886
Thallium	ND		0.82	mg/Kg		1 02/12/2014 9:03	75886
Vanadium	35		2.1	mg/Kg		1 02/12/2014 9:03	75886
Zinc	74		2.1	mg/Kg		1 02/12/2014 9:03	75886
SW846 7471B -- Mercury by FIA							SW7471
Mercury	0.029	J	0.046	mg/Kg		1 02/12/2014 10:29	75889

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #6@12``

Lab ID: N0159-06

Project: Vanadium Site - NF

Collection Date: 02/07/14 13:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_S
Aluminum	22000		9.4	mg/Kg	1	02/12/2014 9:07	75886
Antimony	ND		0.94	mg/Kg	1	02/12/2014 9:07	75886
Arsenic	6.6		0.94	mg/Kg	1	02/12/2014 9:07	75886
Barium	140	B	9.4	mg/Kg	1	02/12/2014 9:07	75886
Beryllium	0.98	B	0.24	mg/Kg	1	02/12/2014 9:07	75886
Cadmium	0.33		0.24	mg/Kg	1	02/12/2014 9:07	75886
Calcium	3900		38	mg/Kg	1	02/12/2014 9:07	75886
Chromium	29	B	0.94	mg/Kg	1	02/12/2014 9:07	75886
Cobalt	13		2.4	mg/Kg	1	02/12/2014 9:07	75886
Copper	28		1.4	mg/Kg	1	02/12/2014 9:07	75886
Iron	35000		190	mg/Kg	20	02/12/2014 10:09	75886
Lead	11		0.47	mg/Kg	1	02/12/2014 9:07	75886
Magnesium	7600	B	24	mg/Kg	1	02/12/2014 9:07	75886
Manganese	520		2.4	mg/Kg	1	02/12/2014 9:07	75886
Nickel	36	30	2.4	mg/Kg	1	02/12/2014 9:07	75886
Potassium	2500	B	47	mg/Kg	1	02/12/2014 9:07	75886
Selenium	ND		1.4	mg/Kg	1	02/12/2014 9:07	75886
Silver	0.81	BJ	1.4	mg/Kg	1	02/12/2014 9:07	75886
Sodium	190	B	47	mg/Kg	1	02/12/2014 9:07	75886
Thallium	ND		0.94	mg/Kg	1	02/12/2014 9:07	75886
Vanadium	35		2.4	mg/Kg	1	02/12/2014 9:07	75886
Zinc	66		2.4	mg/Kg	1	02/12/2014 9:07	75886
SW846 7471B -- Mercury by FIA							SW7471
Mercury	0.039	J	0.043	mg/Kg	1	02/12/2014 10:31	75889

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #1@12``

Lab ID: N0159-01

Project: Vanadium Site - NF

Collection Date: 02/07/14 10:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							SW7196_S
Chromium, Hexavalent	ND		5.6	mg/Kg	1	02/12/2014 14:30	75904

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #2@12``

Lab ID: N0159-02

Project: Vanadium Site - NF

Collection Date: 02/07/14 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							SW7196_S
Chromium, Hexavalent	ND		5.4	mg/Kg	1	02/12/2014 14:30	75904

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #3@12``

Lab ID: N0159-03

Project: Vanadium Site - NF

Collection Date: 02/07/14 11:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							SW7196_S
Chromium, Hexavalent	ND		4.8	mg/Kg	1	02/12/2014 14:30	75904

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #4@12``

Lab ID: N0159-04

Project: Vanadium Site - NF

Collection Date: 02/07/14 11:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							SW7196_S
Chromium, Hexavalent	ND		5.1	mg/Kg	1	02/12/2014 14:30	75904

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #5@12``

Lab ID: N0159-05

Project: Vanadium Site - NF

Collection Date: 02/07/14 13:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							SW7196_S
Chromium, Hexavalent	ND		4.9	mg/Kg	1	02/12/2014 14:30	75904

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #6@12``

Lab ID: N0159-06

Project: Vanadium Site - NF

Collection Date: 02/07/14 13:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							SW7196_S
Chromium, Hexavalent	ND		5.1	mg/Kg	1	02/12/2014 14:30	75904

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #1@12``

Lab ID: N0159-01

Project: Vanadium Site - NF

Collection Date: 02/07/14 10:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 9012B -- Total Cyanide							SW9012_S
Cyanide	ND		1.3	mg/Kg	1	02/12/2014 10:04	75890

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #2@12``

Lab ID: N0159-02

Project: Vanadium Site - NF

Collection Date: 02/07/14 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 9012B -- Total Cyanide							SW9012_S
Cyanide	ND		1.3	mg/Kg	1	02/12/2014 11:06	75890

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #3@12``

Lab ID: N0159-03

Project: Vanadium Site - NF

Collection Date: 02/07/14 11:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 9012B -- Total Cyanide							SW9012_S
Cyanide	ND		1.1	mg/Kg	1	02/12/2014 10:09	75890

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #4@12``

Lab ID: N0159-04

Project: Vanadium Site - NF

Collection Date: 02/07/14 11:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 9012B -- Total Cyanide							SW9012_S
Cyanide	ND		1.2	mg/Kg	1	02/12/2014 11:09	75890

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #5@12``

Lab ID: N0159-05

Project: Vanadium Site - NF

Collection Date: 02/07/14 13:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 9012B -- Total Cyanide							SW9012_S
Cyanide	ND		1.2	mg/Kg	1	02/12/2014 10:14	75890

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

02/18/2014

Client: Severson Environmental Services Inc.

Client Sample ID: SA-SW #6@12``

Lab ID: N0159-06

Project: Vanadium Site - NF

Collection Date: 02/07/14 13:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 9012B -- Total Cyanide							SW9012_S
Cyanide	ND		1.2	mg/Kg	1	02/12/2014 10:16	75890

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit