DATA USABILITY SUMMARY REPORT

NYSEG

WADSWORTH ST. GENEVA

SDG #J895

VOLATILE, SEMIVOLATILE
AND MISCELLANEOUS ANALYSES

Analyses performed by:

Severn Trent Laboratories
Buffalo, New York

Review performed by:

Blasland, Bouck & Lee, Inc.
Syracuse, New York

REPORT #5489

Summary

The following is an assessment of the data package for sample delivery group (SDG) # J895 for sampling from the NYSEG Wadsworth St. Geneva Site. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Date	Analysis				
				VOC	SVOC	PCB	MET	MISC
SB-7_20.5-21.3	691941	Soil	12/1/2005	X	X			X
SB-7_14.0-16.5	691942	Soil	12/1/2005	X	X			X
SB-6_19.8-21.4	691943	Soil	12/1/2005	X	X			X
RB-1-12-1-05	691944	Water	12/1/2005	X	X			X
TP-1_7.0	691945	Soil	12/2/2005	X	X			X
TP-2_6.2	691946	Soil	12/2/2005	X	X			X
TP-3_6.0	691947	Soil	12/2/2005	X	X			X
DUP-1	691948	Soil	12/1/2005	X	X			X

1. The matrix spike/matrix (MS/MSD) spike duplicate performed on sample locations SB-7_20.5-21.3, SS-2. SB-6_19.8-21.4 and DUP-1.
2. Sample location DUP-1 is the field duplicate of parent sample location SB-7_14.0-16.5.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

Introduction

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260 as referenced in NYSDEC-ASP. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

E The compound was quantitated above the calibration range.

D Concentration is based on a diluted sample analysis.

C Identification confirmed by gas chromatograph/mass spectrometer (GC/MS).

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cooled @ 4 °C.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method, trip, and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure contamination of samples during shipment. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results associated with the following sample locations were qualified.

Sample Locations	Compounds	Sample Result	Qualification
SB-6_19.8-21.4 TP-2_6.2 TP-1_7.0	Acetone	Detected sample results >RL and <BAL	U at detected sample concentration

RL = reporting limit

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less then the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Initial/Continuing	Sample Locations	Compound	Criteria
ICAL %RSD	SB-7_20.5-21.3 SB-7_14.0-16.5 RB-1-12-1-05 DUP-1	Dibromochloromethane	17.8%
		Methylene Chloride	19.2%
		1,1-Dichloroethane	15.8%
		Bromoform	16.3%
CCAL %D	SB-7_20.5-21.3 SB-7_14.0-16.5 RB-1-12-1-05 DUP-1	Bromomethane	-26.6%
ICAL %RSD	SB-6_19.8-21.4 TP-1_7.0 TP-2_6.2 TP-3_6.0	Acetone	19.8%
		Carbon Disulfide	18.2%
		1,1-Dichloroethene	19.5%
		2-Butanone	21.1%
		Trichloroethene	19.8%
		4-methyl-2-pentanone	16.1%
		2-Hexanone	18.6%
		1,1,2,2-Tetrachloroethane	23.8%
CCAL %D	SB-6_19.8-21.4 TP-1_7.0 TP-2_6.2 TP-3_6.0	2-Hexanone	20.6%
		1,1,2,2-Tetrachloroethane	-28.6%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15%	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J

1. RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e. ketones, 1,4-Dioxane, etc.)

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

The internal standard responses and retention times were within acceptable limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations were the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis exhibited recoveries and RPD results within the control limits.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
SB-7_14.0-16.5 / DUP-1	Acetone	1.2	1.3	AC
	Benzene	22	15	37.8 %
	Carbon Disulfide	0.12 J	0.13 J	AC
	Ethylbenzene	9.8	3.9	86.1 %
	Styrene	1.6	0.62 J	AC
	Toluene	6.6	3.2	69.3 %
	Total BTEX	94.4	42.1	76.6 %
	Total VOCs	97.3 J	44.2 J	AC
	Xylene (Total)	56	20	94.7 %

ND = Not detected.
AC = The field duplicate RPD is acceptable when the RPD between parent sample and field duplicate sample is less than two times the RL and where the parent sample and/or duplicate concentration is less than five times the RL.

The field duplicate RPD exhibited acceptable recoveries.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist

Volatile Organics Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are surrogate recovery forms present?	X		
Are all samples listed on the surrogate recovery form?	X		
Was one or more surrogate recovery outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a MS recovery form present?	X		
Were matrix spikes analyzed at the required frequency?	X		
How many spike recoveries were outside of QC limits?			
0 out of 15			
How many RPDs for MS/MSD were outside of QC limits?			
0 out of 15			
Blanks			
Is a method blank summary form present?	X		
Has a method blank been analyzed for each day or for each 20 samples, whichever is more frequent?	X		
Has a blank been analyzed at least once every 12 hours for each system used?	X		
Do any method/instrument blanks have positive results?	X		
Do any trip/field/rinse blanks have positive results?			X

	YES	NO	NA
Tuning and Mass Calibration			
Are the GC/MS tuning forms present for BFB?	X		
Are the bar graph spectrum and mass/charge listing provided for each BFB?	X		
Has a BFB been analyzed for each 12 hours of analysis per instrument?	X		
Have the ion abundance criteria been met for each instrument used?	X		
Target Analytes			
Is an organics analysis data sheet present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Are the reconstructed ion chromatograms present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Is the chromatographic performance acceptable?	X		
Are the mass spectra of the identified compounds present?	X		
Are all ions present in the standard mass spectrum at a relative intensity of 10% or greater also present in the sample spectrum?	X		
Do the samples and standard relative ion intensities agree within 20%?	X		
Tentatively Identified Compounds			
Are all the TIC summary forms present?		X	
Are the mass spectra for the tentatively identified compounds and their associated "best match" spectra present?			X
Are any target compounds listed as TICs?			X
Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?			X
Do the TIC and "best match" spectrum agree within 20%?			X
Quantitation and Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	
Are the reporting limits adjusted to reflect sample dilutions and, for soils, sample moisture?	X		

	YES	NO	NA
Standard Data			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	X		
Initial Calibration			
Are the initial calibration forms present for each instrument used?	X		
Are the response factor RSDs within acceptable limits?		X	
Are the average RRFs ≥ minimum requirements?	X		
Are there any transcription/calculation errors in reporting the RRFs or RSDs?		X	
Continuing Calibration			
Are the continuing calibration forms present for each day and each instrument?	X		
Has a continuing calibration standard been analyzed for each 12 hours of analysis per instrument?	X		
All %D within acceptable limits?		X	
Are all RF ≥ minimum requirements?	X		
Are there any transcription/calculation errors in reporting of RF or %D?		X	
Internal Standards			
Are internal standard areas of every sample within the upper and lower limits for each continuing calibration?	X		
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
Field Duplicates			
Were field duplicates submitted with the samples?	X		

SEMI-VOLATILE ORGANIC COMPOUND (SVOC) ANALYSES

Introduction

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8270 as referenced in NYSDEC-ASP. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

E The compound was quantitated above the calibration range.

D Concentration is based on a diluted sample analysis.

C Identification confirmed by gas chromatograph/mass spectrometer (GC/MS).

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8270	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cooled @ 4 °C
	Soil	14 days from collection to extraction and 40 days from extraction to analysis	Cooled @ 4 °C

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed

No compounds were detected in the associated blanks.

3. Mass Spectrometer Tuning

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) and RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less then the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
SB-7_20.5-21.3 SB-7_14.0-16.5 SB-6_19.8-21.4 TP-1_7.0 TP-2_6.2 TP-3_6.0 DUP-1	ICV %RSD	3,3-Dichlorobenzene	17.0%
		Benzo(k)Fluoranthene	20.8%
		Hexachlorocyclopentadiene	51.9%
		Nitrobenzene	16.6%
RB-1-12-1-05	ICV %RSD	Bis(2-Ethylhexyl)phthalate	20.2%
		Hexachlorocyclopentadiene	40.4%
		Naphthalene	15.3%
		Phenanthrene	15.1%
RB-1-12-1-05	CCV %D	Hexachlorocyclopentadiene	29.1%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15%	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	No Action
		Detect	J

Initial/Continuing	Criteria	Sample Result	Qualification
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J

1. RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e. ketones, 1,4-Dioxane, etc.)

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the SVOC to exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) the area counts of the associated continuing calibration standard.

All internal standard response and retention times were acceptable.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

> Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations were the compounds concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LSC analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
SB-7_14.0-16.5 / DUP-1	2-Methylnaphthalene	57	19	AC
	Acenaphthene	6 J	2 J	AC
	Acenaphthylene	28	9.2	AC
	Anthracene	30	9.5	AC
	Benzo(a)anthracene	19	7.6	85.7 %
	Benzo(a)pyrene	13	7	60.0 %
	Benzo(b)fluoranthene	7.9	3.1	87.2 %
	Benzo(g,h,i)perylene	3.6 J	1.9 J	AC
	Benzo(k)fluoranthene	15	7.2	70.2 %
	Carbazole	6.8 J	2.1 J	AC
	Chrysene	17	7.2	NC
	Dibenz(a,h)anthracene	1.6	0.86	AC
	Dibenzofuran	20	7	96.2 %
	Fluoranthene	41	15	92.8 %
	Fluorene	35	11	NC
	Indeno(1,2,3-cd)pyrene	3.8	2.4	45.1 %
	Naphthalene	160	54	99.0 %
	Phenanthrene	72	25	96.9 %
	Pyrene	29	12	AC

ND = Not detected.
AC = The field duplicate RPD is acceptable when the RPD between parent sample and field duplicate sample is less than two times the RL and where the parent sample and/or duplicate concentration is less than five times the RL.
NC = Non-compliant.

The compounds chrysene and fluorene associated with samples SB-7_14.0-16.5 and DUP-1 exhibited a field duplicate RPD results greater than the control limit. The associated sample results from sample locations for the listed compounds were qualified as estimated.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist

Semivolatile Organics Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are the surrogate recovery forms present?	X		
Are all samples listed on the surrogate recovery form?	X		
Were two or more base-neutral or acid surrogate recoveries outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a MS recovery form present?	X		
Were MS analyzed at the required frequency	X		
How many spike recoveries were outside of QC limits?			
0 out of 22			
How many RPDs for MS/MSD were outside of QC limits?			
0 out of 22			
Blanks			
Is the method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Has a blank been analyzed for each system used?	X		
Do any method blanks have positive results?		X	
Are field/rinse blanks associated with every sample?			X

	YES	NO	NA
Tuning and Mass Calibration			
Are the GC/MS tuning forms present for DFTPP?	X		
Are the bar graph spectrum and mass/charge listing provided for each DFTPP?	X		
Has a DFTPP been analyzed for each 12 hours of analysis per instrument?	X		
Have the ion abundance criteria been met for each instrument used?	X		
Target Analytes			
Is an organics analysis data sheet present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Are the reconstructed ion chromatograms present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Is the chromatographic performance acceptable?	X		
Are the mass spectra of the identified compounds present?	X		
Are all ions present in the standard mass spectrum at a relative intensity of 10% or greater also present in the sample spectrum?	X		
Do the samples and standard relative ion intensities agree within 20%?	X		
Tentatively Identified Compounds			
Are all the TIC summary forms present?		X	
Are the mass spectra for the tentatively identified compounds and their associated "best match" spectra present?			X
Are any target compounds listed as TICs?			X
Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?			X
Do the TIC and "best match" spectrum agree within 20%?			X
Quantitation and Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	
Are the reporting limits adjusted to reflect sample dilutions, and for soils, sample moisture?	X		

	YES	NO	NA
Standard Data			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	X		
Initial Calibration			
Are the initial calibration forms present for each instrument used?	X		
Are the response factor RSDs within acceptable limits?		X	
Are the average RRF ≥ minimum requirements?	X		
Are there any transcription/calculation error in reporting the RRF or RSD?		X	
Continuing Calibration			
Are the continuing calibration forms present for each day and each instrument?	X		
Has a continuing calibration standard been analyzed for each 12 hours of analysis per instrument?	X		
All %D within acceptable limits?		X	
Are all RF ≥ minimum requirements?	X		
Are there any transcription/calculation errors in reporting of RF or %D?		X	
Internal Standards			
Are internal standard areas of every sample within the upper and lower limits for each continuing calibration?	X		
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
Field Duplicates			
Were field duplicates submitted with the samples?	X		

MISCELLANEOUS ANALYSES

Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 9012 as referenced in NYSDEC-ASP. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1994.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The reported value was obtained from a reading less than the RL but greater than or equal to the IDL.

M Duplicate injection precision not met.

N Spiked sample recovery not within control limits.

* Duplicate analysis not within control limits.

E The reported value is estimated due to the presence of interference.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Total Cyanide	Water/Soil	14 Days	Cooled @ 4 °C; preserved to a pH of greater than 12.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

No analytes were detected above the reporting limit in the associated blanks.

3. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995.

All continuing calibration verification standard recoveries were within the control limit.

4. MS/MSD Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit a RPD within the laboratory established acceptance limits.

> Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations were the compound's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited recoveries and RPD results within the control limit.

5. LCS Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LSC analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

The laboratory duplicate sample results exhibited RPD within the control limit.

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
SB-7_14.0-16.5 / DUP-1	Total Cyanide	9.2	13.8	39.9 %

ND = Not detected.
AC = The field duplicate RPD is acceptable when the RPD between parent sample and field duplicate sample is less than two times the RL and where the parent sample and/or duplicate concentration is less than five times the RL.

The field duplicate RPD exhibited acceptable recoveries.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist

Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Raw Data			
Are the preparation logs present?	X		
Are preparation dates present on sample preparation logs/bench sheets?	X		
Are the measurement read out records present?	X		
Is the data legible?	X		
Is the data properly labeled?	X		
Are pH values listed?	X		
Percent solids calculation present for soils/sediments?			X
Holding Times			
Were all analyses performed within the specified holding times?	X		
Sample Data			
Are all forms complete?	X		
Are correct units indicated the results sheets?	X		
Are soil sample results for each parameter corrected for percent solids?	X		
Initial Calibration			
Is a record of an initial calibration present?:	X		
Is correlation coefficient less than .995?:	X		
Initial and Continuing Calibration Verification			
Present and complete for all analytes?	X		
Are all calibration standards (initial and continuing) within control limits?:	X		
Was continuing calibration performed every 10 samples or every 2 hours?	X		
Was the ICV for cyanides distilled?			X
Initial and Continuing Calibration Blanks			
Present and complete?	X		
Was an initial calibration blank analyzed?	X		
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	X		
Are all calibration blanks less than or equal to the RL?	X		
Preparation Blank			
Was one prep. blank analyzed for:			
each batch of digested samples?	X		

	YES	NO	NA
each matrix type?	X		
Are all preparation blanks less than the RL?	X		
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?			X
Matrix Spike			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Was field blank used for spiked sample?		X	
Are all recoveries for analytes with sample concentrations less than four times the spike concentration within control limits?	X		
Are results outside the control limits (75-125%) flagged with "N"?			X
Laboratory Duplicates			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Was field blank used for duplicate analysis?		X	
Are all values within control limits?	X		
If no, are all results outside the control limits flagged with an * ?			X
Field Duplicates			
Were field duplicates analyzed?	X		
Aqueous			
is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5 times RL?			X
Is any difference between sample and duplicate greater than RL where sample and/or duplicate is less than 5 times RL?			X
Soil/Sediment			
Is any RPD (where sample and duplicate are both greater than 5 times RL) > 100%?		X	
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5x RL) >2xRL?		X	
Laboratory Control Sample			
Was one LCS prepared and analyzed for:			
each matrix?	X		
each batch?	X		
Are all recoveries within control limits?	X		
Field Blank			
Is the field blank concentration less than RL for all analytes?			X
If no, was field blank value already rejected due to other QC criteria?			X

	YES	NO	NA
Percent Solids			
Are the percent solids in soil/sediment(s):			
< 50%?		X	
< 10%?		X	

Corrected Sample Analysis Data Sheets

Laboratory Narrative

NYSDEC Sample Identification and Analysis Summary Sheets

Sample Compliance Report

SAMPLE COMPLIANCE REPORT

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliancy[1]					Noncompliance
					VOC	SVOC	PCB	MET	MISC	
J895	12/1/2005	2000	SB-7_20.5-21.3	Soil	no	no	--	--	yes	VOC-ICAL %RSD, CCAL %D SVOC-ICAL %RSD
J895	12/1/2005	2000	SB-7_14.0-16.5	Soil	no	no	--	--	yes	VOC-ICAL %RSD, CCAL %D SVOC-ICAL %RSD
J895	12/1/2005	2000	SB-6_19.8-21.4	Soil	no	no	--	--	yes	VOC-Associated Blank, ICAL %RSD, CCAL %D SVOC-ICAL %RSD
J895	12/1/2005	2000	RB-1-12-1-05	Water	no	no	--	--	yes	VOC-ICAL %RSD, CCAL %D SVOC-ICAL %RSD
J895	12/2/2005	2000	TP-1_7.0	Soil	no	no	--	--	yes	VOC-Associated Blank, ICAL %RSD, CCAL %D SVOC-ICAL %RSD
J895	12/2/2005	2000	TP-2_6.2	Soil	no	no	--	--	yes	VOC-Associated Blank, ICAL %RSD, CCAL %D SVOC-ICAL %RSD
J895	12/2/2005	2000	TP-3_6.0	Soil	no	no	--	--	yes	VOC-ICAL %RSD, CCAL %D SVOC-ICAL %RSD
J895	12/1/2005	2000	DUP-1	Soil	no	no	--	--	yes	VOC-ICAL %RSD, CCAL %D SVOC-ICAL %RSD

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

Client ID: SB-7_20.5-21.3
Site: NYSEG-Geneva

Lab Sample No: 691941
Lab Job No: J895

Date Sampled: 12/01/05
Date Received: 12/03/05
Date Analyzed: 12/12/05
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d50808.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.2 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 21

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	600
Bromomethane	ND J	600
Vinyl Chloride	ND	600
Chloroethane	ND	600
Methylene Chloride	ND J	360
Acetone	ND	600
Carbon Disulfide	ND	600
1,1-Dichloroethene	ND	240
1,1-Dichloroethane	ND J	600
trans-1,2-Dichloroethene	ND	600
cis-1,2-Dichloroethene	ND	600
Chloroform	ND	600
1,2-Dichloroethane	ND	240
2-Butanone	ND	600
1,1,1-Trichloroethane	ND	600
Carbon Tetrachloride	ND	240
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	600
Trichloroethene	ND	120
Dibromochloromethane	ND J	600
1,1,2-Trichloroethane	ND	360
Benzene	2200	120
trans-1,3-Dichloropropene	ND	600
Bromoform	ND J	480
4-Methyl-2-Pentanone	ND	600
2-Hexanone	ND	600
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	4400	600
Chlorobenzene	ND	600
Ethylbenzene	1000	480
Styrene	1400	600
Xylene (Total)	5100	600

Client ID: SB-7_20.5-21.3
Site: NYSEG-Geneva

Lab Sample No: 691941
Lab Job No: J895

Date Sampled: 12/01/05
Date Received: 12/03/05
Date Analyzed: 12/12/05
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d50808.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.2 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 21

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND	600

Client ID: **SB-7_14.0-16.5**
Site: NYSEG-Geneva

Lab Sample No: **691942**
Lab Job No: J895

Date Sampled: 12/01/05
Date Received: 12/03/05
Date Analyzed: 12/13/05
GC Column: Rtx-624
Instrument ID: VOAMS10.i
Lab File ID: bb74559.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.2 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 24

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	630
Bromomethane	ND J	630
Vinyl Chloride	ND	630
Chloroethane	ND	630
Methylene Chloride	ND J	380
Acetone	1200	~~630~~ 630
Carbon Disulfide	120 J	630
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND J	630
trans-1,2-Dichloroethene	ND	630
cis-1,2-Dichloroethene	ND	630
Chloroform	ND	630
1,2-Dichloroethane	ND	250
2-Butanone	ND	630
1,1,1-Trichloroethane	ND	630
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	130
1,2-Dichloropropane	ND	130
cis-1,3-Dichloropropene	ND	630
Trichloroethene	ND	130
Dibromochloromethane	ND J	630
1,1,2-Trichloroethane	ND	380
Benzene	22000	130
trans-1,3-Dichloropropene	ND	630
Bromoform	ND J	510
4-Methyl-2-Pentanone	ND	630
2-Hexanone	ND	630
Tetrachloroethene	ND	130
1,1,2,2-Tetrachloroethane	ND	130
Toluene	6600	630
Chlorobenzene	ND	630
Ethylbenzene	9800	510
Styrene	1600	630
Xylene (Total)	56000	630

Client ID: **SB-7_14.0-16.5**
Site: NYSEG-Geneva

Lab Sample No: **691942**
Lab Job No: J895

Date Sampled: 12/01/05
Date Received: 12/03/05
Date Analyzed: 12/13/05
GC Column: Rtx-624
Instrument ID: VOAMS10.i
Lab File ID: bb74559.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.2 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 24

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND	630

Client ID: SB-6_19.8-21.4
Site: NYSEG-Geneva

Lab Sample No: 691943
Lab Job No: J895

Date Sampled: 12/01/05
Date Received: 12/03/05
Date Analyzed: 12/09/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51035.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.3 g
Purge Volume: 5.0 ml
% Moisture: 16

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	5.6
Bromomethane	ND	5.6
Vinyl Chloride	ND	5.6
Chloroethane	ND	5.6
Methylene Chloride	ND	3.4
Acetone	ND (18) B J	~~5.6~~ 18.0
Carbon Disulfide	ND J	5.6
1,1-Dichloroethene	ND J	2.2
1,1-Dichloroethane	ND	5.6
trans-1,2-Dichloroethene	ND	5.6
cis-1,2-Dichloroethene	ND	5.6
Chloroform	ND	5.6
1,2-Dichloroethane	ND	2.2
2-Butanone	ND J	5.6
1,1,1-Trichloroethane	ND	5.6
Carbon Tetrachloride	ND	2.2
Bromodichloromethane	ND	1.1
1,2-Dichloropropane	ND	1.1
cis-1,3-Dichloropropene	ND	5.6
Trichloroethene	ND J	1.1
Dibromochloromethane	ND	5.6
1,1,2-Trichloroethane	ND	3.4
Benzene	16	1.1
trans-1,3-Dichloropropene	ND	5.6
Bromoform	ND	4.5
4-Methyl-2-Pentanone	ND J	5.6
2-Hexanone	ND J	5.6
Tetrachloroethene	ND	1.1
1,1,2,2-Tetrachloroethane	ND J	1.1
Toluene	1.0J	5.6
Chlorobenzene	ND	5.6
Ethylbenzene	ND	4.5
Styrene	ND	5.6
Xylene (Total)	3.1J	5.6

Client ID: SB-6_19.8-21.4
Site: NYSEG-Geneva

Lab Sample No: 691943
Lab Job No: J895

Date Sampled: 12/01/05
Date Received: 12/03/05
Date Analyzed: 12/09/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51035.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.3 g
Purge Volume: 5.0 ml
% Moisture: 16

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND	5.6

Client ID: RB-1-12-1-05
Site: NYSEG-Geneva

Lab Sample No: 691944
Lab Job No: J895

Date Sampled: 12/01/05
Date Received: 12/03/05
Date Analyzed: 12/13/05
GC Column: RTX-VMS
Instrument ID: VOAMS12.i
Lab File ID: o03459.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: RB-1-12-1-05
Site: NYSEG-Geneva

Lab Sample No: 691944
Lab Job No: J895

Date Sampled: 12/01/05
Date Received: 12/03/05
Date Analyzed: 12/13/05
GC Column: RTX-VMS
Instrument ID: VOAMS12.i
Lab File ID: o03459.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
MTBE	ND	5.0

Client ID: TP-1_7.0
Site: NYSEG-Geneva

Lab Sample No: 691945
Lab Job No: J895

Date Sampled: 12/02/05
Date Received: 12/03/05
Date Analyzed: 12/10/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51056.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.1 g
Purge Volume: 5.0 ml
% Moisture: 17

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	5.9
Bromomethane	ND	5.9
Vinyl Chloride	ND	5.9
Chloroethane	ND	5.9
Methylene Chloride	ND	3.6
Acetone	ND (21) B J	~~5.9~~ 21.0
Carbon Disulfide	ND J	5.9
1,1-Dichloroethene	ND J	2.4
1,1-Dichloroethane	ND	5.9
trans-1,2-Dichloroethene	ND	5.9
cis-1,2-Dichloroethene	ND	5.9
Chloroform	ND	5.9
1,2-Dichloroethane	ND	2.4
2-Butanone	ND J	5.9
1,1,1-Trichloroethane	ND	5.9
Carbon Tetrachloride	ND	2.4
Bromodichloromethane	ND	1.2
1,2-Dichloropropane	ND	1.2
cis-1,3-Dichloropropene	ND	5.9
Trichloroethene	ND J	1.2
Dibromochloromethane	ND	5.9
1,1,2-Trichloroethane	ND	3.6
Benzene	1.4	1.2
trans-1,3-Dichloropropene	ND	5.9
Bromoform	ND	4.8
4-Methyl-2-Pentanone	ND J	5.9
2-Hexanone	ND J	5.9
Tetrachloroethene	ND	1.2
1,1,2,2-Tetrachloroethane	ND J	1.2
Toluene	1.4J	5.9
Chlorobenzene	ND	5.9
Ethylbenzene	ND	4.8
Styrene	ND	5.9
Xylene (Total)	1.2J	5.9

Client ID: **TP-1_7.0**
Site: NYSEG-Geneva

Lab Sample No: **691945**
Lab Job No: J895

Date Sampled: 12/02/05
Date Received: 12/03/05
Date Analyzed: 12/10/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51056.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.1 g
Purge Volume: 5.0 ml
% Moisture: 17

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND	5.9

Client ID: **TP-2_6.2**
Site: NYSEG-Geneva

Lab Sample No: **691946**
Lab Job No: J895

Date Sampled: 12/02/05
Date Received: 12/03/05
Date Analyzed: 12/09/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51039.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.1 g
Purge Volume: 5.0 ml
% Moisture: 21

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	6.1
Bromomethane	ND	6.1
Vinyl Chloride	ND	6.1
Chloroethane	ND	6.1
Methylene Chloride	ND	3.7
Acetone	ND(12) B U	~~6.1~~ 12.0
Carbon Disulfide	ND U	6.1
1,1-Dichloroethene	ND U	2.4
1,1-Dichloroethane	ND	6.1
trans-1,2-Dichloroethene	ND	6.1
cis-1,2-Dichloroethene	ND	6.1
Chloroform	ND	6.1
1,2-Dichloroethane	ND	2.4
2-Butanone	ND U	6.1
1,1,1-Trichloroethane	ND	6.1
Carbon Tetrachloride	ND	2.4
Bromodichloromethane	ND	1.2
1,2-Dichloropropane	ND	1.2
cis-1,3-Dichloropropene	ND	6.1
Trichloroethene	ND U	1.2
Dibromochloromethane	ND	6.1
1,1,2-Trichloroethane	ND	3.7
Benzene	2.0	1.2
trans-1,3-Dichloropropene	ND	6.1
Bromoform	ND	4.9
4-Methyl-2-Pentanone	ND U	6.1
2-Hexanone	ND U	6.1
Tetrachloroethene	ND	1.2
1,1,2,2-Tetrachloroethane	ND U	1.2
Toluene	2.6J	6.1
Chlorobenzene	ND	6.1
Ethylbenzene	ND	4.9
Styrene	ND	6.1
Xylene (Total)	1.9J	6.1

Client ID: TP-2_6.2
Site: NYSEG-Geneva

Lab Sample No: 691946
Lab Job No: J895

Date Sampled: 12/02/05
Date Received: 12/03/05
Date Analyzed: 12/09/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51039.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.1 g
Purge Volume: 5.0 ml
% Moisture: 21

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND	6.1

Client ID: TP-3_6.0
Site: NYSEG-Geneva

Lab Sample No: 691947
Lab Job No: J895

Date Sampled: 12/02/05
Date Received: 12/03/05
Date Analyzed: 12/09/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51040.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.1 g
Purge Volume: 5.0 ml
% Moisture: 24

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	6.4
Bromomethane	ND	6.4
Vinyl Chloride	ND	6.4
Chloroethane	ND	6.4
Methylene Chloride	ND	3.9
Acetone	ND J	6.4
Carbon Disulfide	ND J	6.4
1,1-Dichloroethene	ND J	2.6
1,1-Dichloroethane	ND	6.4
trans-1,2-Dichloroethene	ND	6.4
cis-1,2-Dichloroethene	ND	6.4
Chloroform	ND	6.4
1,2-Dichloroethane	ND	2.6
2-Butanone	ND J	6.4
1,1,1-Trichloroethane	ND	6.4
Carbon Tetrachloride	ND	2.6
Bromodichloromethane	ND	1.3
1,2-Dichloropropane	ND	1.3
cis-1,3-Dichloropropene	ND	6.4
Trichloroethene	ND J	1.3
Dibromochloromethane	ND	6.4
1,1,2-Trichloroethane	ND	3.9
Benzene	1.7	1.3
trans-1,3-Dichloropropene	ND	6.4
Bromoform	ND	5.2
4-Methyl-2-Pentanone	ND J	6.4
2-Hexanone	ND J	6.4
Tetrachloroethene	ND	1.3
1,1,2,2-Tetrachloroethane	ND J	1.3
Toluene	2.0J	6.4
Chlorobenzene	ND	6.4
Ethylbenzene	ND	5.2
Styrene	ND	6.4
Xylene (Total)	1.5J	6.4

Client ID: **TP-3_6.0**
Site: NYSEG-Geneva

Lab Sample No: **691947**
Lab Job No: J895

Date Sampled: 12/02/05
Date Received: 12/03/05
Date Analyzed: 12/09/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51040.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.1 g
Purge Volume: 5.0 ml
% Moisture: 24

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND	6.4

Client ID: **DUP-1**
Site: NYSEG-Geneva

Lab Sample No: **691948**
Lab Job No: J895

Date Sampled: 12/01/05
Date Received: 12/03/05
Date Analyzed: 12/13/05
GC Column: Rtx-624
Instrument ID: VOAMS10.i
Lab File ID: bb74560.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 25

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	660
Bromomethane	ND J	660
Vinyl Chloride	ND	660
Chloroethane	ND	660
Methylene Chloride	ND J	400
Acetone	1300	~~660~~ 600
Carbon Disulfide	130 J	660
1,1-Dichloroethene	ND	260
1,1-Dichloroethane	ND J	660
trans-1,2-Dichloroethene	ND	660
cis-1,2-Dichloroethene	ND	660
Chloroform	ND	660
1,2-Dichloroethane	ND	260
2-Butanone	ND	660
1,1,1-Trichloroethane	ND	660
Carbon Tetrachloride	ND	260
Bromodichloromethane	ND	130
1,2-Dichloropropane	ND	130
cis-1,3-Dichloropropene	ND	660
Trichloroethene	ND	130
Dibromochloromethane	ND J	660
1,1,2-Trichloroethane	ND	400
Benzene	15000	130
trans-1,3-Dichloropropene	ND	660
Bromoform	ND J	530
4-Methyl-2-Pentanone	ND	660
2-Hexanone	ND	660
Tetrachloroethene	ND	130
1,1,2,2-Tetrachloroethane	ND	130
Toluene	3200	660
Chlorobenzene	ND	660
Ethylbenzene	3900	530
Styrene	620 J	660
Xylene (Total)	20000	660

Client ID: **DUP-1**
Site: NYSEG-Geneva

Lab Sample No: **691948**
Lab Job No: J895

Date Sampled: 12/01/05
Date Received: 12/03/05
Date Analyzed: 12/13/05
GC Column: Rtx-624
Instrument ID: VOAMS10.i
Lab File ID: bb74560.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 25

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND	660

Client ID: **SB-7_20.5-21.3**
Site: NYSEG-Geneva

Lab Sample No: **691941**
Lab Job No: J895

Date Sampled: 12/01/05
Date Received: 12/03/05
Date Extracted: 12/07/05
Date Analyzed: 12/17/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r25961.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 50.0
% Moisture: 21

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	2100
1,3-Dichlorobenzene	ND	21000
1,4-Dichlorobenzene	ND	21000
1,2-Dichlorobenzene	ND	21000
bis(2-chloroisopropyl)ether	ND	21000
N-Nitroso-di-n-propylamine	ND	2100
Hexachloroethane	ND	2100
Nitrobenzene	ND J	2100
Isophorone	ND	21000
bis(2-Chloroethoxy)methane	ND	21000
1,2,4-Trichlorobenzene	ND	2100
Naphthalene	29000	21000
4-Chloroaniline	ND	21000
Hexachlorobutadiene	ND	4200
2-Methylnaphthalene	14000 J	21000
Hexachlorocyclopentadiene	ND J	21000
2-Chloronaphthalene	ND	21000
2-Nitroaniline	ND	42000
Dimethylphthalate	ND	21000
Acenaphthylene	82000	21000
2,6-Dinitrotoluene	ND	4200
3-Nitroaniline	ND	42000
Acenaphthene	18000 J	21000
Dibenzofuran	52000	21000
2,4-Dinitrotoluene	ND	4200
Diethylphthalate	ND	21000
4-Chlorophenyl-phenylether	ND	21000
Fluorene	99000	21000
4-Nitroaniline	ND	42000
N-Nitrosodiphenylamine	ND	21000
4-Bromophenyl-phenylether	ND	21000
Hexachlorobenzene	ND	2100
Phenanthrene	180000	21000
Anthracene	76000	21000

Client ID: **SB-7_20.5-21.3**
Site: NYSEG-Geneva

Lab Sample No: **691941**
Lab Job No: J895

Date Sampled: 12/01/05
Date Received: 12/03/05
Date Extracted: 12/07/05
Date Analyzed: 12/17/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r25961.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 50.0
% Moisture: 21

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	5100 J	21000
Di-n-butylphthalate	ND	21000
Fluoranthene	92000	21000
Pyrene	65000	21000
Butylbenzylphthalate	ND	21000
3,3'-Dichlorobenzidine	ND J	42000
Benzo(a)anthracene	45000	2100
Chrysene	39000	21000
bis(2-Ethylhexyl)phthalate	ND	21000
Di-n-octylphthalate	ND	21000
Benzo(b)fluoranthene	14000	2100
Benzo(k)fluoranthene	28000 J	2100
Benzo(a)pyrene	26000	2100
Indeno(1,2,3-cd)pyrene	6100	2100
Dibenz(a,h)anthracene	2300	2100
Benzo(g,h,i)perylene	5300 J	21000

Client ID: SB-7_14.0-16.5
Site: NYSEG-Geneva

Lab Sample No: 691942
Lab Job No: J895

Date Sampled: 12/01/05
Date Received: 12/03/05
Date Extracted: 12/07/05
Date Analyzed: 12/17/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r25962.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 25.0
% Moisture: 24

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)		Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND		1100
1,3-Dichlorobenzene	ND		11000
1,4-Dichlorobenzene	ND		11000
1,2-Dichlorobenzene	ND		11000
bis(2-chloroisopropyl)ether	ND		11000
N-Nitroso-di-n-propylamine	ND		1100
Hexachloroethane	ND		1100
Nitrobenzene	ND	J	1100
Isophorone	ND		11000
bis(2-Chloroethoxy)methane	ND		11000
1,2,4-Trichlorobenzene	ND		1100
Naphthalene	160000		11000
4-Chloroaniline	ND		11000
Hexachlorobutadiene	ND		2200
2-Methylnaphthalene	57000		11000
Hexachlorocyclopentadiene	ND	J	11000
2-Chloronaphthalene	ND		11000
2-Nitroaniline	ND		22000
Dimethylphthalate	ND		11000
Acenaphthylene	28000		11000
2,6-Dinitrotoluene	ND		2200
3-Nitroaniline	ND		22000
Acenaphthene	6000	J	11000
Dibenzofuran	20000		11000
2,4-Dinitrotoluene	ND		2200
Diethylphthalate	ND		11000
4-Chlorophenyl-phenylether	ND		11000
Fluorene	35000		11000
4-Nitroaniline	ND		22000
N-Nitrosodiphenylamine	ND		11000
4-Bromophenyl-phenylether	ND		11000
Hexachlorobenzene	ND		1100
Phenanthrene	72000		11000
Anthracene	30000		11000

Client ID: SB-7_14.0-16.5
Site: NYSEG-Geneva

Lab Sample No: 691942
Lab Job No: J895

Date Sampled: 12/01/05
Date Received: 12/03/05
Date Extracted: 12/07/05
Date Analyzed: 12/17/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r25962.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 25.0
% Moisture: 24

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	6800 J	11000
Di-n-butylphthalate	ND	11000
Fluoranthene	41000	11000
Pyrene	29000	11000
Butylbenzylphthalate	ND	11000
3,3'-Dichlorobenzidine	ND J	22000
Benzo(a)anthracene	19000	1100
Chrysene	17000	11000
bis(2-Ethylhexyl)phthalate	ND	11000
Di-n-octylphthalate	ND	11000
Benzo(b)fluoranthene	7900	1100
Benzo(k)fluoranthene	15000 J	1100
Benzo(a)pyrene	13000	1100
Indeno(1,2,3-cd)pyrene	3800	1100
Dibenz(a,h)anthracene	1600	1100
Benzo(g,h,i)perylene	3600 J	11000

Client ID: SB-6_19.8-21.4
Site: NYSEG-Geneva

Lab Sample No: 691943
Lab Job No: J895

Date Sampled: 12/01/05
Date Received: 12/03/05
Date Extracted: 12/07/05
Date Analyzed: 12/15/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r25928.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 16

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	40
1,3-Dichlorobenzene	ND	400
1,4-Dichlorobenzene	ND	400
1,2-Dichlorobenzene	ND	400
bis(2-chloroisopropyl)ether	ND	400
N-Nitroso-di-n-propylamine	ND	40
Hexachloroethane	ND	40
Nitrobenzene	ND J	40
Isophorone	ND	400
bis(2-Chloroethoxy)methane	ND	400
1,2,4-Trichlorobenzene	ND	40
Naphthalene	110 J	400
4-Chloroaniline	ND	400
Hexachlorobutadiene	ND	79
2-Methylnaphthalene	22 J	400
Hexachlorocyclopentadiene	ND J	400
2-Chloronaphthalene	ND	400
2-Nitroaniline	ND	790
Dimethylphthalate	ND	400
Acenaphthylene	23 J	400
2,6-Dinitrotoluene	ND	79
3-Nitroaniline	ND	790
Acenaphthene	ND	400
Dibenzofuran	16 J	400
2,4-Dinitrotoluene	ND	79
Diethylphthalate	ND	400
4-Chlorophenyl-phenylether	ND	400
Fluorene	31 J	400
4-Nitroaniline	ND	790
N-Nitrosodiphenylamine	ND	400
4-Bromophenyl-phenylether	ND	400
Hexachlorobenzene	ND	40
Phenanthrene	58 J	400
Anthracene	27 J	400

Client ID: **SB-6_19.8-21.4**
Site: NYSEG-Geneva

Lab Sample No: **691943**
Lab Job No: J895

Date Sampled: 12/01/05
Date Received: 12/03/05
Date Extracted: 12/07/05
Date Analyzed: 12/15/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r25928.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 16

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	400
Di-n-butylphthalate	ND	400
Fluoranthene	30 J	400
Pyrene	25 J	400
Butylbenzylphthalate	ND	400
3,3'-Dichlorobenzidine	ND	790
Benzo(a)anthracene	16 J	40
Chrysene	15 J	400
bis(2-Ethylhexyl)phthalate	ND	400
Di-n-octylphthalate	ND	400
Benzo(b)fluoranthene	ND	40
Benzo(k)fluoranthene	ND	40
Benzo(a)pyrene	11 J	40
Indeno(1,2,3-cd)pyrene	ND	40
Dibenz(a,h)anthracene	ND	40
Benzo(g,h,i)perylene	ND	400

Client ID: RB-1-12-1-05
Site: NYSEG-Geneva

Lab Sample No: 691944
Lab Job No: J895

Date Sampled: 12/01/05
Date Received: 12/03/05
Date Extracted: 12/05/05
Date Analyzed: 12/12/05
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u26905.d

Matrix: WATER
Level: LOW
Sample Volume: 1000 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l		Quantitation Limit Units: ug/l
bis(2-Chloroethyl)ether	ND		1.0
1,3-Dichlorobenzene	ND		10
1,4-Dichlorobenzene	ND		10
1,2-Dichlorobenzene	ND		10
bis(2-chloroisopropyl)ether	ND		10
N-Nitroso-di-n-propylamine	ND		1.0
Hexachloroethane	ND		1.0
Nitrobenzene	ND		1.0
Isophorone	ND		10
bis(2-Chloroethoxy)methane	ND		10
1,2,4-Trichlorobenzene	ND		1.0
Naphthalene	ND	J	10
4-Chloroaniline	ND		10
Hexachlorobutadiene	ND		2.0
2-Methylnaphthalene	ND		10
Hexachlorocyclopentadiene	ND	J	10
2-Chloronaphthalene	ND		10
2-Nitroaniline	ND		20
Dimethylphthalate	ND		10
Acenaphthylene	ND		10
2,6-Dinitrotoluene	ND		2.0
3-Nitroaniline	ND		20
Acenaphthene	ND		10
Dibenzofuran	ND		10
2,4-Dinitrotoluene	ND		2.0
Diethylphthalate	ND		10
4-Chlorophenyl-phenylether	ND		10
Fluorene	ND		10
4-Nitroaniline	ND		20
N-Nitrosodiphenylamine	ND		10
4-Bromophenyl-phenylether	ND		10
Hexachlorobenzene	ND		1.0
Phenanthrene	ND	J	10
Anthracene	ND		10

Client ID: **RB-1-12-1-05**
Site: NYSEG-Geneva

Lab Sample No: **691944**
Lab Job No: J895

Date Sampled: 12/01/05
Date Received: 12/03/05
Date Extracted: 12/05/05
Date Analyzed: 12/12/05
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u26905.d

Matrix: WATER
Level: LOW
Sample Volume: 1000 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l		Quantitation Limit Units: ug/l
Carbazole	ND		10
Di-n-butylphthalate	ND		10
Fluoranthene	ND		10
Pyrene	ND		10
Butylbenzylphthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(a)anthracene	ND		1.0
Chrysene	ND		10
bis(2-Ethylhexyl)phthalate	ND	J	10
Di-n-octylphthalate	ND		10
Benzo(b)fluoranthene	ND		1.0
Benzo(k)fluoranthene	ND		1.0
Benzo(a)pyrene	ND		1.0
Indeno(1,2,3-cd)pyrene	ND		1.0
Dibenz(a,h)anthracene	ND		1.0
Benzo(g,h,i)perylene	ND		10

Client ID: **TP-1_7.0**
Site: NYSEG-Geneva

Lab Sample No: **691945**
Lab Job No: J895

Date Sampled: 12/02/05
Date Received: 12/03/05
Date Extracted: 12/07/05
Date Analyzed: 12/16/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r25952.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 17

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	40
1,3-Dichlorobenzene	ND	400
1,4-Dichlorobenzene	ND	400
1,2-Dichlorobenzene	ND	400
bis(2-chloroisopropyl)ether	ND	400
N-Nitroso-di-n-propylamine	ND	40
Hexachloroethane	ND	40
Nitrobenzene	ND J	40
Isophorone	ND	400
bis(2-Chloroethoxy)methane	ND	400
1,2,4-Trichlorobenzene	ND	40
Naphthalene	ND	400
4-Chloroaniline	ND	400
Hexachlorobutadiene	ND	80
2-Methylnaphthalene	ND	400
Hexachlorocyclopentadiene	ND J	400
2-Chloronaphthalene	ND	400
2-Nitroaniline	ND	800
Dimethylphthalate	ND	400
Acenaphthylene	ND	400
2,6-Dinitrotoluene	ND	80
3-Nitroaniline	ND	800
Acenaphthene	11 J	400
Dibenzofuran	ND	400
2,4-Dinitrotoluene	ND	80
Diethylphthalate	ND	400
4-Chlorophenyl-phenylether	ND	400
Fluorene	ND	400
4-Nitroaniline	ND	800
N-Nitrosodiphenylamine	ND	400
4-Bromophenyl-phenylether	ND	400
Hexachlorobenzene	ND	40
Phenanthrene	ND	400
Anthracene	ND	400

Client ID: TP-1_7.0
Site: NYSEG-Geneva

Lab Sample No: 691945
Lab Job No: J895

Date Sampled: 12/02/05
Date Received: 12/03/05
Date Extracted: 12/07/05
Date Analyzed: 12/16/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r25952.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 17

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	400
Di-n-butylphthalate	ND	400
Fluoranthene	ND	400
Pyrene	ND	400
Butylbenzylphthalate	ND	400
3,3'-Dichlorobenzidine	ND J	800
Benzo(a)anthracene	ND	40
Chrysene	ND	400
bis(2-Ethylhexyl)phthalate	ND	400
Di-n-octylphthalate	ND	400
Benzo(b)fluoranthene	ND	40
Benzo(k)fluoranthene	ND J	40
Benzo(a)pyrene	ND	40
Indeno(1,2,3-cd)pyrene	ND	40
Dibenz(a,h)anthracene	ND	40
Benzo(g,h,i)perylene	ND	400

Client ID: TP-2_6.2
Site: NYSEG-Geneva

Lab Sample No: 691946
Lab Job No: J895

Date Sampled: 12/02/05
Date Received: 12/03/05
Date Extracted: 12/07/05
Date Analyzed: 12/16/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r25953.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 21

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	42
1,3-Dichlorobenzene	ND	420
1,4-Dichlorobenzene	ND	420
1,2-Dichlorobenzene	ND	420
bis(2-chloroisopropyl)ether	ND	420
N-Nitroso-di-n-propylamine	ND	42
Hexachloroethane	ND	42
Nitrobenzene	ND J	42
Isophorone	ND	420
bis(2-Chloroethoxy)methane	ND	420
1,2,4-Trichlorobenzene	ND	42
Naphthalene	ND	420
4-Chloroaniline	ND	420
Hexachlorobutadiene	ND	84
2-Methylnaphthalene	ND	420
Hexachlorocyclopentadiene	ND J	420
2-Chloronaphthalene	ND	420
2-Nitroaniline	ND	840
Dimethylphthalate	ND	420
Acenaphthylene	ND	420
2,6-Dinitrotoluene	ND	84
3-Nitroaniline	ND	840
Acenaphthene	ND	420
Dibenzofuran	ND	420
2,4-Dinitrotoluene	ND	84
Diethylphthalate	ND	420
4-Chlorophenyl-phenylether	ND	420
Fluorene	ND	420
4-Nitroaniline	ND	840
N-Nitrosodiphenylamine	ND	420
4-Bromophenyl-phenylether	ND	420
Hexachlorobenzene	ND	42
Phenanthrene	10 J	420
Anthracene	ND	420

Client ID: TP-2_6.2
Site: NYSEG-Geneva

Lab Sample No: 691946
Lab Job No: J895

Date Sampled: 12/02/05
Date Received: 12/03/05
Date Extracted: 12/07/05
Date Analyzed: 12/16/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r25953.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 21

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	420
Di-n-butylphthalate	ND	420
Fluoranthene	20 J	420
Pyrene	16 J	420
Butylbenzylphthalate	ND	420
3,3'-Dichlorobenzidine	ND J	840
Benzo(a)anthracene	16 J	42
Chrysene	17 J	420
bis(2-Ethylhexyl)phthalate	ND	420
Di-n-octylphthalate	ND	420
Benzo(b)fluoranthene	13 J	42
Benzo(k)fluoranthene	27 J	42
Benzo(a)pyrene	30 J	42
Indeno(1,2,3-cd)pyrene	16 J	42
Dibenz(a,h)anthracene	ND	42
Benzo(g,h,i)perylene	16 J	420

Client ID: TP-3 6.0
Site: NYSEG-Geneva

Lab Sample No: 691947
Lab Job No: J895

Date Sampled: 12/02/05
Date Received: 12/03/05
Date Extracted: 12/07/05
Date Analyzed: 12/16/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r25954.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 24

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	44
1,3-Dichlorobenzene	ND	440
1,4-Dichlorobenzene	ND	440
1,2-Dichlorobenzene	ND	440
bis(2-chloroisopropyl)ether	ND	440
N-Nitroso-di-n-propylamine	ND	44
Hexachloroethane	ND	44
Nitrobenzene	ND J	44
Isophorone	ND	440
bis(2-Chloroethoxy)methane	ND	440
1,2,4-Trichlorobenzene	ND	44
Naphthalene	ND	440
4-Chloroaniline	ND	440
Hexachlorobutadiene	ND	87
2-Methylnaphthalene	ND	440
Hexachlorocyclopentadiene	ND J	440
2-Chloronaphthalene	ND	440
2-Nitroaniline	ND	870
Dimethylphthalate	ND	440
Acenaphthylene	ND	440
2,6-Dinitrotoluene	ND	87
3-Nitroaniline	ND	870
Acenaphthene	ND	440
Dibenzofuran	ND	440
2,4-Dinitrotoluene	ND	87
Diethylphthalate	ND	440
4-Chlorophenyl-phenylether	ND	440
Fluorene	ND	440
4-Nitroaniline	ND	870
N-Nitrosodiphenylamine	ND	440
4-Bromophenyl-phenylether	ND	440
Hexachlorobenzene	ND	44
Phenanthrene	25 J	440
Anthracene	11 J	440

Client ID: **TP-3_6.0**
Site: NYSEG-Geneva

Lab Sample No: **691947**
Lab Job No: J895

Date Sampled: 12/02/05
Date Received: 12/03/05
Date Extracted: 12/07/05
Date Analyzed: 12/16/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r25954.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 24

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	440
Di-n-butylphthalate	ND	440
Fluoranthene	66 J	440
Pyrene	48 J	440
Butylbenzylphthalate	ND	440
3,3'-Dichlorobenzidine	ND J	870
Benzo(a)anthracene	42 J	44
Chrysene	46 J	440
bis(2-Ethylhexyl)phthalate	ND	440
Di-n-octylphthalate	ND	440
Benzo(b)fluoranthene	26 J	44
Benzo(k)fluoranthene	48 J	44
Benzo(a)pyrene	48	44
Indeno(1,2,3-cd)pyrene	27 J	44
Dibenz(a,h)anthracene	ND	44
Benzo(g,h,i)perylene	30 J	440

Client ID: **DUP-1**
Site: NYSEG-Geneva

Lab Sample No: **691948**
Lab Job No: J895

Date Sampled: 12/01/05
Date Received: 12/03/05
Date Extracted: 12/07/05
Date Analyzed: 12/17/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r25963.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 10.0
% Moisture: 25

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	440
1,3-Dichlorobenzene	ND	4400
1,4-Dichlorobenzene	ND	4400
1,2-Dichlorobenzene	ND	4400
bis(2-chloroisopropyl)ether	ND	4400
N-Nitroso-di-n-propylamine	ND	440
Hexachloroethane	ND	440
Nitrobenzene	ND J	440
Isophorone	ND	4400
bis(2-Chloroethoxy)methane	ND	4400
1,2,4-Trichlorobenzene	ND	440
Naphthalene	54000	4400
4-Chloroaniline	ND	4400
Hexachlorobutadiene	ND	890
2-Methylnaphthalene	19000	4400
Hexachlorocyclopentadiene	ND J	4400
2-Chloronaphthalene	ND	4400
2-Nitroaniline	ND	8900
Dimethylphthalate	ND	4400
Acenaphthylene	9200	4400
2,6-Dinitrotoluene	ND	890
3-Nitroaniline	ND	8900
Acenaphthene	2000 J	4400
Dibenzofuran	7000	4400
2,4-Dinitrotoluene	ND	890
Diethylphthalate	ND	4400
4-Chlorophenyl-phenylether	ND	4400
Fluorene	11000	4400
4-Nitroaniline	ND	8900
N-Nitrosodiphenylamine	ND	4400
4-Bromophenyl-phenylether	ND	4400
Hexachlorobenzene	ND	440
Phenanthrene	25000	4400
Anthracene	9500	4400

Client ID: **DUP-1**
Site: NYSEG-Geneva

Lab Sample No: **691948**
Lab Job No: J895

Date Sampled: 12/01/05
Date Received: 12/03/05
Date Extracted: 12/07/05
Date Analyzed: 12/17/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r25963.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 10.0
% Moisture: 25

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	2100 J	4400
Di-n-butylphthalate	ND	4400
Fluoranthene	15000	4400
Pyrene	12000	4400
Butylbenzylphthalate	ND	4400
3,3'-Dichlorobenzidine	ND J	8900
Benzo(a)anthracene	7600	440
Chrysene	7200	4400
bis(2-Ethylhexyl)phthalate	ND	4400
Di-n-octylphthalate	ND	4400
Benzo(b)fluoranthene	3100	440
Benzo(k)fluoranthene	7200 J	440
Benzo(a)pyrene	7000	440
Indeno(1,2,3-cd)pyrene	2400	440
Dibenz(a,h)anthracene	860	440
Benzo(g,h,i)perylene	1900 J	4400

Site: NYSEG-Geneva
Matrix: WATER

Lab Job No: J895
QA Batch: 1943

Total Cyanide

STL Edison Sample #	Client ID	Date Sampled	Date Extracted	Date Analyzed	Dilution Factor	Analytical Result Units: mg/l
691944	RB-1-12-1-05	12/01/05	12/08/05	12/08/05	1.0	ND

Quantitation Limit for Total Cyanide is 0.01 mg/l.

Site: NYSEG-Geneva
Matrix: SOIL

Lab Job No: J895
QA Batch: 1943

Total Cyanide

STL Edison Sample #	Client ID	Date Sampled	Date Extracted	Date Analyzed	Percent Moisture	Dilution Factor	Analytical Result Units: mg/kg
691941	SB-7_20.5-21.3	12/01/05	12/08/05	12/08/05	20.8	1.0	ND
691942	SB-7_14.0-16.5	12/01/05	12/08/05	12/08/05	23.5	1.0	9.2
691943	SB-6_19.8-21.4	12/01/05	12/08/05	12/08/05	15.9	1.0	ND
691945	TP-1_7.0	12/02/05	12/08/05	12/08/05	17.1	1.0	ND
691946	TP-2_6.2	12/02/05	12/08/05	12/08/05	20.6	1.0	ND
691947	TP-3_6.0	12/02/05	12/08/05	12/08/05	23.5	1.0	1.7
691948	DUP-1	12/01/05	12/08/05	12/08/05	24.8	1.0	13.8

Quantitation Limit for Total Cyanide is 0.5 mg/kg.

SEVERN TRENT STL

SDG NARRATIVE

STL EDISON

SDG No. J895

STL Edison Sample	Client ID
691941	SB-7 20.5-21.3
691941MS	SB-7 20.5-21.3MS
691941SD	SB-7 20.5-21.3MSD
691942	SB-7 14.0-16.5
691943	SB-6 19.8-21.4
691943MS	SB-6 19.8-21.4MS
691943SD	SB-6 19.8-21.4MSD
691944	RB-1-12-1-05
691945	TP-1 7.0
691946	TP-2 6.2
691947	TP-3 6.0
691948	DUP-1
691948MS	DUP-1MS
691948SD	DUP-1MSD

Sample Receipt:

Sample delivery conforms with requirements.

Volatile Organic Analysis (GC/MS):

Soil blank KV343 contains 3.0 ppb of Acetone. Sample results are flagged with a B qualifier.

Soil blank KV344 contains 6.0 ppb of Acetone. Sample results are flagged with a B qualifier.

Base/Neutral and/or Acid Extractable Organics (GC/MS):

All data conforms with method requirements.

Chemistry \ Microbiology:

All data conforms with method requirements.

I certify that this data package is in compliance with the protocols in NYSDEC ASP B both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this package has been authorized by the Laboratory Manager or his designee

Michael J. Urban

Michael J.Urban
Laboratory Manager

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE (VOA)
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
691941	SOLID	12/1/05	12/3/05		12/12/05
691941MS	SOLID	12/1/05	12/3/05		12/12/05
691941SD	SOLID	12/1/05	12/3/05		12/12/05
691942	SOLID	12/1/05	12/3/05		12/13/05
691943	SOLID	12/1/05	12/3/05		12/9/05
691943MS	SOLID	12/1/05	12/3/05		12/9/05
691943SD	SOLID	12/1/05	12/3/05		12/9/05
691944	WATER	12/1/05	12/3/05		12/13/05
691945	SOLID	12/2/05	12/3/05		12/10/05
691946	SOLID	12/2/05	12/3/05		12/9/05
691947	SOLID	12/2/05	12/3/05		12/9/05
691948	SOLID	12/1/05	12/3/05		12/13/05
691948MS	SOLID	12/1/05	12/3/05		12/13/05
691948SD	SOLID	12/1/05	12/3/05		12/13/05

10/95

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
SEMIVOLATILE (BNA)
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
691941	SOLID	12/1/05	12/3/05	12/7/05	12/17/05
691942	SOLID	12/1/05	12/3/05	12/7/05	12/17/05
691943	SOLID	12/1/05	12/3/05	12/7/05	12/15/05
691943MS	SOLID	12/1/05	12/3/05	12/7/05	12/15/05
691943SD	SOLID	12/1/05	12/3/05	12/7/05	12/15/05
691944	WATER	12/1/05	12/3/05	12/5/05	12/12/05
691945	SOLID	12/2/05	12/3/05	12/7/05	12/16/05
691946	SOLID	12/2/05	12/3/05	12/7/05	12/16/05
691947	SOLID	12/2/05	12/3/05	12/7/05	12/16/05
691948	SOLID	12/1/05	12/3/05	12/7/05	12/17/05

10/95

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
SEMIVOLATILE (BNA)
ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
691941	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		50.00
691942	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		25.00
691943	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
691943MS	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
691943SD	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
691944	WATER	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
691945	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
691946	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
691947	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
691948	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		10.00

10/95

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Parameters	Date Rec'd at Lab	Date Analyzed
691941	SOLID	% SOLIDS	12/3/05	12/8/05
691941	SOLID	TOTAL CYANIDE	12/3/05	12/8/05
691942	SOLID	% SOLIDS	12/3/05	12/8/05
691942	SOLID	TOTAL CYANIDE	12/3/05	12/8/05
691943	SOLID	% SOLIDS	12/3/05	12/9/05
691943	SOLID	TOTAL CYANIDE	12/3/05	12/8/05
691944	WATER	TOTAL CYANIDE	12/3/05	12/8/05
691945	SOLID	% SOLIDS	12/3/05	12/8/05
691945	SOLID	TOTAL CYANIDE	12/3/05	12/8/05
691946	SOLID	% SOLIDS	12/3/05	12/8/05
691946	SOLID	TOTAL CYANIDE	12/3/05	12/8/05
691947	SOLID	% SOLIDS	12/3/05	12/8/05
691947	SOLID	TOTAL CYANIDE	12/3/05	12/8/05
691948	SOLID	% SOLIDS	12/3/05	12/8/05
691948	SOLID	TOTAL CYANIDE	12/3/05	12/8/05

10/95

DATA USABILITY SUMMARY REPORT

NYSEG

WADSWORTH ST. GENEVA

SDG #K740

VOLATILE, SEMIVOLATILE
AND MISCELLANEOUS ANALYSES

Analyses performed by:

Severn Trent Laboratories
Buffalo, New York

Review performed by:

Blasland, Bouck & Lee, Inc.
Syracuse, New York

REPORT #5481

Summary

The following is an assessment of the data package for sample delivery group (SDG) # K740 for sampling from the NYSEG Wadsworth St. Geneva Site. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Date	Analysis				
				VOC	SVOC	PCB	MET	MISC
MW-5	696449	Water	12/20/2005	X	X			X
MW-6	696450	Water	12/20/2005	X	X			X
MW-1	696451	Water	12/20/2005	X	X			X
MW-2	696452	Water	12/20/2005	X	X			X
MW-3	696453	Water	12/20/2005	X	X			X
MW-4	696454	Water	12/20/2005	X	X			X
DUP-12-20-05	696455	Water	12/20/2005	X	X			X
TANK	696456	Water	12/20/2005	X	X			X
TRIPBLANK	696457	Water	12/20/2005	X				

1. The matrix spike/matrix spike duplicate (MS/MSD) performed on sample location MW-5.
2. Sample location DUP-12-20-05 is the field duplicate of parent sample location MW-3.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

Introduction

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260 as referenced in NYSDEC-ASP. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

E The compound was quantitated above the calibration range.

D Concentration is based on a diluted sample analysis.

C Identification confirmed by gas chromatograph/mass spectrometer (GC/MS).

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cooled @ 4 °C.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method, trip, and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure contamination of samples during shipment. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results associated with the following sample locations were qualified.

Sample Locations	Compounds	Sample Result	Qualification
MW-5 MW-6 MW-1 MW-2 MW-3 MW-4 DUP-12-20-05 TANK	Toluene	Detected sample results >RL and >BAL or Non-detect sample result	No Action

RL = reporting limit

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less then the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
MW-5 MW-6 MW-1 MW-2 MW-3 MW-4 DUP-12-20-05 TANK TRIPBLANK	ICV %RSD	Acetone	19.5%
		Tetrachloroethene	26.5%
MW-5 MW-6 MW-1 MW-2 MW-3 MW-4 DUP-12-20-05 TANK TRIPBLANK	CCV %D	Acetone	38.4%
		Chloroethane	27.5%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15%	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J

1. RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e. ketones, 1,4-Dioxane, etc.)

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

The internal standard responses and retention times were within acceptable limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations were the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis exhibited recoveries and RPD results within the control limits.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-3 / DUP-12-20-05	Benzene	7100	7000	2.0%
	Toluene	4300	4300	0.0%
	Ethylbenzene	680	730	7.1%
	Styrene	320 J	360	AC
	Xylene (Total)	7900	8100	2.5%

ND = Not detected.
AC = The field duplicate RPD is acceptable when the RPD between parent sample and field duplicate sample is less than two times the RL and where the parent sample and/or duplicate concentration is less than five times the RL.

The field duplicate RPD exhibited acceptable recoveries.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist

Volatile Organics Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are surrogate recovery forms present?	X		
Are all samples listed on the surrogate recovery form?	X		
Was one or more surrogate recovery outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a MS recovery form present?	X		
Were matrix spikes analyzed at the required frequency?	X		
How many spike recoveries were outside of QC limits?			
0 out of 5			
How many RPDs for MS/MSD were outside of QC limits?			
0 out of 5			
Blanks			
Is a method blank summary form present?	X		
Has a method blank been analyzed for each day or for each 20 samples, whichever is more frequent?	X		
Has a blank been analyzed at least once every 12 hours for each system used?	X		
Do any method/instrument blanks have positive results?		X	
Do any trip/field/rinse blanks have positive results?	X		

	YES	NO	NA
Tuning and Mass Calibration			
Are the GC/MS tuning forms present for BFB?	X		
Are the bar graph spectrum and mass/charge listing provided for each BFB?	X		
Has a BFB been analyzed for each 12 hours of analysis per instrument?	X		
Have the ion abundance criteria been met for each instrument used?	X		
Target Analytes			
Is an organics analysis data sheet present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Are the reconstructed ion chromatograms present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Is the chromatographic performance acceptable?	X		
Are the mass spectra of the identified compounds present?	X		
Are all ions present in the standard mass spectrum at a relative intensity of 10% or greater also present in the sample spectrum?	X		
Do the samples and standard relative ion intensities agree within 20%?	X		
Tentatively Identified Compounds			
Are all the TIC summary forms present?		X	
Are the mass spectra for the tentatively identified compounds and their associated "best match" spectra present?			X
Are any target compounds listed as TICs?			X
Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?			X
Do the TIC and "best match" spectrum agree within 20%?			X
Quantitation and Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	
Are the reporting limits adjusted to reflect sample dilutions and, for soils, sample moisture?	X		

	YES	NO	NA
Standard Data			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	X		
Initial Calibration			
Are the initial calibration forms present for each instrument used?	X		
Are the response factor RSDs within acceptable limits?		X	
Are the average RRFs ≥ minimum requirements?	X		
Are there any transcription/calculation errors in reporting the RRFs or RSDs?		X	
Continuing Calibration			
Are the continuing calibration forms present for each day and each instrument?	X		
Has a continuing calibration standard been analyzed for each 12 hours of analysis per instrument?	X		
All %D within acceptable limits?		X	
Are all RF ≥ minimum requirements?	X		
Are there any transcription/calculation errors in reporting of RF or %D?		X	
Internal Standards			
Are internal standard areas of every sample within the upper and lower limits for each continuing calibration?	X		
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
Field Duplicates			
Were field duplicates submitted with the samples?	X		

SEMI-VOLATILE ORGANIC COMPOUND (SVOC) ANALYSES

Introduction

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8270 as referenced in NYSDEC-ASP. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

E The compound was quantitated above the calibration range.

D Concentration is based on a diluted sample analysis.

C Identification confirmed by gas chromatograph/mass spectrometer (GC/MS).

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8270	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cooled @ 4 °C
	Soil	14 days from collection to extraction and 40 days from extraction to analysis	Cooled @ 4 °C

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed

No compounds were detected in the associated blanks.

3. Mass Spectrometer Tuning

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.
All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) and RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less then the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
MW-5 MW-6 MW-1 MW-2 MW-3 MW-4 DUP-12-20-05 TANK TRIPBLANK	ICV %RSD	Bis (2-chloroethyl)ether	16.7%
		benzo(b)fluoranthene	16.9%
		benzo(k)fluoranthene	22.3%
		Hexachlorocyclopentadiene	19.8%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15%	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J

1. RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e. ketones, 1,4-Dioxane, etc.)

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the SVOC to exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) the area counts of the associated continuing calibration standard.

All internal standard response and retention times were acceptable.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

> Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations were the compounds concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis exhibited recoveries and RPD results within the control limits.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LSC analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-3 / DUP-12-20-05	Naphthalene	3600	4000	10.5%
	2-Methylnaphthalene	290	320	9.8%
	Acenaphthylene	54 J	66 J	AC
	Acenaphthene	16 J	19 J	AC
	Dibenzofuran	50 J	55 J	AC
	Fluorene	48 J	55 J	AC
	Phenanthrene	28 J	30 J	AC
	Anthracene	ND(210)	11 J	AC
	Carbazole	88 J	11 J	AC

ND = Not detected.
AC = The field duplicate RPD is acceptable when the RPD between parent sample and field duplicate sample is less than two times the RL and where the parent sample and/or duplicate concentration is less than five times the RL.

The field duplicate RPD exhibited acceptable recoveries

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist

Semivolatile Organics Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are the surrogate recovery forms present?	X		
Are all samples listed on the surrogate recovery form?	X		
Were two or more base-neutral or acid surrogate recoveries outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a MS recovery form present?	X		
Were MS analyzed at the required frequency	X		
How many spike recoveries were outside of QC limits?			
0 out of 11			
How many RPDs for MS/MSD were outside of QC limits?			
0 out of 11			
Blanks			
Is the method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Has a blank been analyzed for each system used?	X		
Do any method blanks have positive results?		X	
Are field/rinse blanks associated with every sample?		X	

	YES	NO	NA
Tuning and Mass Calibration			
Are the GC/MS tuning forms present for DFTPP?	X		
Are the bar graph spectrum and mass/charge listing provided for each DFTPP?	X		
Has a DFTPP been analyzed for each 12 hours of analysis per instrument?	X		
Have the ion abundance criteria been met for each instrument used?	X		
Target Analytes			
Is an organics analysis data sheet present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Are the reconstructed ion chromatograms present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Is the chromatographic performance acceptable?	X		
Are the mass spectra of the identified compounds present?	X		
Are all ions present in the standard mass spectrum at a relative intensity of 10% or greater also present in the sample spectrum?	X		
Do the samples and standard relative ion intensities agree within 20%?	X		
Tentatively Identified Compounds			
Are all the TIC summary forms present?		X	
Are the mass spectra for the tentatively identified compounds and their associated "best match" spectra present?			X
Are any target compounds listed as TICs?			X
Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?			X
Do the TIC and "best match" spectrum agree within 20%?			X
Quantitation and Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	
Are the reporting limits adjusted to reflect sample dilutions, and for soils, sample moisture?	X		

	YES	NO	NA
Standard Data			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	X		
Initial Calibration			
Are the initial calibration forms present for each instrument used?	X		
Are the response factor RSDs within acceptable limits?		X	
Are the average RRF ≥ minimum requirements?	X		
Are there any transcription/calculation error in reporting the RRF or RSD?		X	
Continuing Calibration			
Are the continuing calibration forms present for each day and each instrument?	X		
Has a continuing calibration standard been analyzed for each 12 hours of analysis per instrument?	X		
All %D within acceptable limits?	X		
Are all RF ≥ minimum requirements?	X		
Are there any transcription/calculation errors in reporting of RF or %D?		X	
Internal Standards			
Are internal standard areas of every sample within the upper and lower limits for each continuing calibration?	X		
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
Field Duplicates			
Were field duplicates submitted with the samples?	X		

MISCELLANEOUS ANALYSES

Introduction

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 methodologies, USEPA Methods for Chemical Analyses of Water and Waste methodologies, and each method's respective protocols as referenced in NYSDEC-ASP. Data were reviewed in accordance with each method's respective guidance.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The reported value was obtained from a reading less than the RL but greater than or equal to the IDL.

M Duplicate injection precision not met.

N Spiked sample recovery not within control limits.

* Duplicate analysis not within control limits.

E The reported value is estimated due to the presence of interference.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Corrosivity (pH)	Water/Soil	ASAP	Cooled @ 4 °C.
Ignitability	Water/Soil	14 Days	Cooled @ 4 °C.
H2S Released from Waste	Water/Soil	7 days	Cooled @ 4 °C.
HCN Released from Waste	Water/Soil	14 Days	Cooled @ 4 °C.

The analyses that exceeded the holding time are presented in the following table.

Sample Locations	Holding Time	Criteria
TANK	Extraction Completed	7 Days

Sample results associated with sample locations analyzed by analytical method H2S Released from Waste were qualified, as specified in the table below. All other holding times were met.

Sample IDs	Criteria	Qualification	
		Detected Analytes	Non-detect Analytes
TANK	Analysis completed less than two times holding time	J	UJ
-- --	Analysis completed greater than two times holding time	J	R

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

No analytes were detected above the reporting limit in the associated blanks.

3. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 for all non-ICP analytes and all initial calibration verification standard recoveries were within control limits.

All continuing calibration verification standard recoveries were within the control limit.

4. MS/MSD Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit a RPD within the laboratory established acceptance limits.

> Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations were the compound's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited recoveries within the control limit.

5. LCS Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LSC analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

The laboratory duplicate sample results exhibited RPD within the control limit.

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-3 / DUP-12-20-05	Cyanide (Total)	0.6	0.58	3.4%

ND = Not detected.
AC = The field duplicate RPD is acceptable when the RPD between parent sample and field duplicate sample is less than two times the RL and where the parent sample and/or duplicate concentration is less than five times the RL.

The field duplicate RPD exhibited acceptable recoveries.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist

Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Raw Data			
Are the preparation logs present?	X		
Are preparation dates present on sample preparation logs/bench sheets?	X		
Are the measurement read out records present?	X		
Is the data legible?	X		
Is the data properly labeled?	X		
Are pH values listed?	X		
Percent solids calculation present for soils/sediments?			X
Holding Times			
Were all analyses performed within the specified holding times?		X	
Sample Data			
Are all forms complete?	X		
Are correct units indicated the results sheets?	X		
Are soil sample results for each parameter corrected for percent solids?	X		
Initial Calibration			
Is a record of an initial calibration present?:	X		
Is correlation coefficient less than .995?:	X		
Initial and Continuing Calibration Verification			
Present and complete for all analytes?	X		
Are all calibration standards (initial and continuing) within control limits?:	X		
Was continuing calibration performed every 10 samples or every 2 hours?	X		
Was the ICV for cyanides distilled?	X		
Initial and Continuing Calibration Blanks			
Present and complete?	X		
Was an initial calibration blank analyzed?	X		
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	X		
Are all calibration blanks less than or equal to the RL?	X		
Preparation Blank			
Was one prep. blank analyzed for:			
each batch of digested samples?	X		

	YES	NO	NA
each matrix type?	X		
Are all preparation blanks less than the RL?	X		
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?			X
Matrix Spike			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Was field blank used for spiked sample?		X	
Are all recoveries for analytes with sample concentrations less than four times the spike concentration within control limits?	X		
Are results outside the control limits (75-125%) flagged with "N"?			X
Laboratory Duplicates			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Was field blank used for duplicate analysis?		X	
Are all values within control limits?	X		
If no, are all results outside the control limits flagged with an * ?			X
Field Duplicates			
Were field duplicates analyzed?	X		
Aqueous			
is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5 times RL?		X	
Is any difference between sample and duplicate greater than RL where sample and/or duplicate is less than 5 times RL?		X	
Soil/Sediment			
Is any RPD (where sample and duplicate are both greater than 5 times RL) > 100%?			X
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5x RL) >2xRL?			X
Laboratory Control Sample			
Was one LCS prepared and analyzed for:			
each matrix?	X		
each batch?	X		
Are all recoveries within control limits?	X		
Field Blank			
Is the field blank concentration less than RL for all analytes?			X
If no, was field blank value already rejected due to other QC criteria?			X

	YES	NO	NA
Percent Solids			
Are the percent solids in soil/sediment(s):			
< 50%?	____	____	X
< 10%?	____	____	X

Corrected Sample Analysis Data Sheets

Laboratory Narrative

NYSDEC Sample Identification and Analysis Summary Sheets

Sample Compliance Report

SAMPLE COMPLIANCE REPORT

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliancy[1]					Noncompliance
					VOC	SVOC	PCB	MET	MISC	
K740	12/20/2005	2000	MW-5	Water	no	no	--	--	yes	VOC - ICAL %RSD, CCAL %D SVOC - ICAL %RSD
K740	12/20/2005	2000	MW-6	Water	no	no	--	--	yes	VOC - ICAL %RSD, CCAL %D SVOC - ICAL %RSD
K740	12/20/2005	2000	MW-1	Water	no	no	--	--	yes	VOC - ICAL %RSD, CCAL %D SVOC - ICAL %RSD
K740	12/20/2005	2000	MW-2	Water	no	no	--	--	yes	VOC - ICAL %RSD, CCAL %D SVOC - ICAL %RSD
K740	12/20/2005	2000	MW-3	Water	no	no	--	--	yes	VOC - ICAL %RSD, CCAL %D SVOC - ICAL %RSD
K740	12/20/2005	2000	MW-4	Water	no	no	--	--	yes	VOC - ICAL %RSD, CCAL %D SVOC - ICAL %RSD
K740	12/20/2005	2000	DUP-12-20-05	Water	no	no	--	--	yes	VOC - ICAL %RSD, CCAL %D SVOC - ICAL %RSD
K740	12/20/2005	2000	TANK	Water	no	no	--	--	no	VOC - ICAL %RSD, CCAL %D SVOC - ICAL %RSD MISC - Holding time
K740	12/20/2005	2000	TRIPBLANK	Water	no	no	--	--	yes	VOC - ICAL %RSD, CCAL %D SVOC - ICAL %RSD

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

Client ID: **MW-5**
Site: NYSEG Wadsworth St

Lab Sample No: **696449**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Analyzed: 12/28/05
GC Column: RTX-VMS
Instrument ID: VOAMS12.i
Lab File ID: o03782.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND J	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND J	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND.	5.0
Xylene (Total)	ND	5.0

Client ID: **MW-5**
Site: NYSEG Wadsworth St

Lab Sample No: **696449**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Analyzed: 12/28/05
GC Column: RTX-VMS
Instrument ID: VOAMS12.i
Lab File ID: o03782.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
MTBE	ND	5.0

Client ID: **MW-6**
Site: NYSEG Wadsworth St

Lab Sample No: **696450**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Analyzed: 12/28/05
GC Column: RTX-VMS
Instrument ID: VOAMS12.i
Lab File ID: o03783.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	68 J	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND J	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **MW-6**
Site: NYSEG Wadsworth St

Lab Sample No: **696450**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Analyzed: 12/28/05
GC Column: RTX-VMS
Instrument ID: VOAMS12.i
Lab File ID: o03783.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
MTBE	ND	5.0

Client ID: **MW-1**
Site: NYSEG Wadsworth St

Lab Sample No: **696451**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Analyzed: 12/28/05
GC Column: RTX-VMS
Instrument ID: VOAMS12.i
Lab File ID: o03784.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND J	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND J	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **MW-1**
Site: NYSEG Wadsworth St

Lab Sample No: **696451**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Analyzed: 12/28/05
GC Column: RTX-VMS
Instrument ID: VOAMS12.i
Lab File ID: o03784.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
MTBE	ND	5.0

Client ID: **MW-2**
Site: NYSEG Wadsworth St

Lab Sample No: **696452**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Analyzed: 12/28/05
GC Column: RTX-VMS
Instrument ID: VOAMS12.i
Lab File ID: o03785.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND J	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND J	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	ND	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **MW-2**
Site: NYSEG Wadsworth St

Lab Sample No: **696452**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Analyzed: 12/28/05
GC Column: RTX-VMS
Instrument ID: VOAMS12.i
Lab File ID: o03785.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
MTBE	ND	5.0

Client ID: **MW-3**
Site: NYSEG Wadsworth St

Lab Sample No: **696453**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Analyzed: 12/28/05
GC Column: RTX-VMS
Instrument ID: VOAMS12.i
Lab File ID: o03786.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 100.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	500
Bromomethane	ND	500
Vinyl Chloride	ND	500
Chloroethane	ND	500
Methylene Chloride	ND	300
Acetone	ND J	500
Carbon Disulfide	ND	500
1,1-Dichloroethene	ND	200
1,1-Dichloroethane	ND	500
trans-1,2-Dichloroethene	ND	500
cis-1,2-Dichloroethene	ND	500
Chloroform	ND	500
1,2-Dichloroethane	ND	200
2-Butanone	ND	500
1,1,1-Trichloroethane	ND	500
Carbon Tetrachloride	ND	200
Bromodichloromethane	ND	100
1,2-Dichloropropane	ND	100
cis-1,3-Dichloropropene	ND	500
Trichloroethene	ND	100
Dibromochloromethane	ND	500
1,1,2-Trichloroethane	ND	300
Benzene	7100	100
trans-1,3-Dichloropropene	ND	500
Bromoform	ND	400
4-Methyl-2-Pentanone	ND	500
2-Hexanone	ND	500
Tetrachloroethene	ND J	100
1,1,2,2-Tetrachloroethane	ND	100
Toluene	4300	500
Chlorobenzene	ND	500
Ethylbenzene	680	400
Styrene	320 J	500
Xylene (Total)	7900	500

Client ID: **MW-3**
Site: NYSEG Wadsworth St

Lab Sample No: **696453**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Analyzed: 12/28/05
GC Column: RTX-VMS
Instrument ID: VOAMS12.i
Lab File ID: o03786.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 100.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
MTBE	ND	500

Client ID: **MW-4**
Site: NYSEG Wadsworth St

Lab Sample No: **696454**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Analyzed: 12/28/05
GC Column: RTX-VMS
Instrument ID: VOAMS12.i
Lab File ID: o03787.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l		Quantitation Limit Units: ug/l
Chloromethane	ND		5.0
Bromomethane	ND		5.0
Vinyl Chloride	ND		5.0
Chloroethane	ND		5.0
Methylene Chloride	ND		3.0
Acetone	ND	J	5.0
Carbon Disulfide	ND		5.0
1,1-Dichloroethene	ND		2.0
1,1-Dichloroethane	ND		5.0
trans-1,2-Dichloroethene	ND		5.0
cis-1,2-Dichloroethene	ND		5.0
Chloroform	ND		5.0
1,2-Dichloroethane	ND		2.0
2-Butanone	ND		5.0
1,1,1-Trichloroethane	ND		5.0
Carbon Tetrachloride	ND		2.0
Bromodichloromethane	ND		1.0
1,2-Dichloropropane	ND		1.0
cis-1,3-Dichloropropene	ND		5.0
Trichloroethene	ND		1.0
Dibromochloromethane	ND		5.0
1,1,2-Trichloroethane	ND		3.0
Benzene	ND		1.0
trans-1,3-Dichloropropene	ND		5.0
Bromoform	ND		4.0
4-Methyl-2-Pentanone	ND		5.0
2-Hexanone	ND		5.0
Tetrachloroethene	ND	J	1.0
1,1,2,2-Tetrachloroethane	ND		1.0
Toluene	ND		5.0
Chlorobenzene	ND		5.0
Ethylbenzene	ND		4.0
Styrene	ND		5.0
Xylene (Total)	ND		5.0

Client ID: **MW-4**
Site: NYSEG Wadsworth St

Lab Sample No: **696454**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Analyzed: 12/28/05
GC Column: RTX-VMS
Instrument ID: VOAMS12.i
Lab File ID: o03787.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
MTBE	ND	5.0

Client ID: **DUP-12-20-05**
Site: NYSEG Wadsworth St

Lab Sample No: **696455**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Analyzed: 12/28/05
GC Column: RTX-VMS
Instrument ID: VOAMS12.i
Lab File ID: o03788.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 50.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l		Quantitation Limit Units: ug/l
Chloromethane	ND		250
Bromomethane	ND		250
Vinyl Chloride	ND		250
Chloroethane	ND		250
Methylene Chloride	ND		150
Acetone	ND	J	250
Carbon Disulfide	ND		250
1,1-Dichloroethene	ND		100
1,1-Dichloroethane	ND		250
trans-1,2-Dichloroethene	ND		250
cis-1,2-Dichloroethene	ND		250
Chloroform	ND		250
1,2-Dichloroethane	ND		100
2-Butanone	ND		250
1,1,1-Trichloroethane	ND		250
Carbon Tetrachloride	ND		100
Bromodichloromethane	ND		50
1,2-Dichloropropane	ND		50
cis-1,3-Dichloropropene	ND		250
Trichloroethene	ND		50
Dibromochloromethane	ND		250
1,1,2-Trichloroethane	ND		150
Benzene	7000		50
trans-1,3-Dichloropropene	ND		250
Bromoform	ND		200
4-Methyl-2-Pentanone	ND		250
2-Hexanone	ND		250
Tetrachloroethene	ND	J	50
1,1,2,2-Tetrachloroethane	ND		50
Toluene	4300		250
Chlorobenzene	ND		250
Ethylbenzene	730		200
Styrene	360		250
Xylene (Total)	8100		250

Client ID: **DUP-12-20-05**
Site: NYSEG Wadsworth St

Lab Sample No: **696455**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Analyzed: 12/28/05
GC Column: RTX-VMS
Instrument ID: VOAMS12.i
Lab File ID: o03788.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 50.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
MTBE	ND	250

Client ID: **TANK**
Site: NYSEG Wadsworth St

Lab Sample No: **696456**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Analyzed: 12/28/05
GC Column: RTX-VMS
Instrument ID: VOAMS12.i
Lab File ID: o03789.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	17 J	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	1.6J	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	170	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND J	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	170	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	24	4.0
Styrene	17	5.0
Xylene (Total)	260	5.0

Client ID: **TANK**
Site: NYSEG Wadsworth St

Lab Sample No: **696456**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Analyzed: 12/28/05
GC Column: RTX-VMS
Instrument ID: VOAMS12.i
Lab File ID: o03789.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
MTBE	ND	5.0

Client ID: **TRIPBLANK**
Site: NYSEG Wadsworth St

Lab Sample No: **696457**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Analyzed: 12/28/05
GC Column: RTX-VMS
Instrument ID: VOAMS12.i
Lab File ID: o03790.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Chloromethane	ND	5.0
Bromomethane	ND	5.0
Vinyl Chloride	ND	5.0
Chloroethane	ND	5.0
Methylene Chloride	ND	3.0
Acetone	ND J	5.0
Carbon Disulfide	ND	5.0
1,1-Dichloroethene	ND	2.0
1,1-Dichloroethane	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Chloroform	ND	5.0
1,2-Dichloroethane	ND	2.0
2-Butanone	ND	5.0
1,1,1-Trichloroethane	ND	5.0
Carbon Tetrachloride	ND	2.0
Bromodichloromethane	ND	1.0
1,2-Dichloropropane	ND	1.0
cis-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	1.0
Dibromochloromethane	ND	5.0
1,1,2-Trichloroethane	ND	3.0
Benzene	ND	1.0
trans-1,3-Dichloropropene	ND	5.0
Bromoform	ND	4.0
4-Methyl-2-Pentanone	ND	5.0
2-Hexanone	ND	5.0
Tetrachloroethene	ND J	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Toluene	0.4J	5.0
Chlorobenzene	ND	5.0
Ethylbenzene	ND	4.0
Styrene	ND	5.0
Xylene (Total)	ND	5.0

Client ID: **TRIPBLANK**
Site: NYSEG Wadsworth St

Lab Sample No: **696457**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Analyzed: 12/28/05
GC Column: RTX-VMS
Instrument ID: VOAMS12.i
Lab File ID: o03790.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
MTBE	ND	5.0

Client ID: **MW-5**
Site: NYSEG Wadsworth St

Lab Sample No: **696449**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Extracted: 12/22/05
Date Analyzed: 12/29/05
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u27107.d

Matrix: WATER
Level: LOW
Sample Volume: 950 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
bis(2-Chloroethyl)ether	ND J	1.0
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
1,2-Dichlorobenzene	ND	10
bis(2-chloroisopropyl)ether	ND	10
N-Nitroso-di-n-propylamine	ND	1.0
Hexachloroethane	ND	1.0
Nitrobenzene	ND	1.0
Isophorone	ND	10
bis(2-Chloroethoxy)methane	ND	10
1,2,4-Trichlorobenzene	ND	1.0
Naphthalene	ND	10
4-Chloroaniline	ND	10
Hexachlorobutadiene	ND	2.1
2-Methylnaphthalene	ND	10
Hexachlorocyclopentadiene	ND J	10
2-Chloronaphthalene	ND	10
2-Nitroaniline	ND	21
Dimethylphthalate	ND	10
Acenaphthylene	ND	10
2,6-Dinitrotoluene	ND	2.1
3-Nitroaniline	ND	21
Acenaphthene	ND	10
Dibenzofuran	ND	10
2,4-Dinitrotoluene	ND	2.1
Diethylphthalate	ND	10
4-Chlorophenyl-phenylether	ND	10
Fluorene	ND	10
4-Nitroaniline	ND	21
N-Nitrosodiphenylamine	ND	10
4-Bromophenyl-phenylether	ND	10
Hexachlorobenzene	ND	1.0
Phenanthrene	ND	10
Anthracene	ND	10

Client ID: **MW-5**
Site: NYSEG Wadsworth St

Lab Sample No: **696449**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Extracted: 12/22/05
Date Analyzed: 12/29/05
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u27107.d

Matrix: WATER
Level: LOW
Sample Volume: 950 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Carbazole	ND	10
Di-n-butylphthalate	ND	10
Fluoranthene	ND	10
Pyrene	ND	10
Butylbenzylphthalate	ND	10
3,3'-Dichlorobenzidine	ND	21
Benzo(a)anthracene	ND	1.0
Chrysene	ND	10
bis(2-Ethylhexyl)phthalate	ND	10
Di-n-octylphthalate	ND	10
Benzo(b)fluoranthene	ND J	1.0
Benzo(k)fluoranthene	ND J	1.0
Benzo(a)pyrene	ND	1.0
Indeno(1,2,3-cd)pyrene	ND	1.0
Dibenz(a,h)anthracene	ND	1.0
Benzo(g,h,i)perylene	ND	10

Client ID: **MW-6**
Site: NYSEG Wadsworth St

Lab Sample No: **696450**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Extracted: 12/22/05
Date Analyzed: 12/29/05
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u27110.d

Matrix: WATER
Level: LOW
Sample Volume: 980 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
bis(2-Chloroethyl)ether	ND J	1.0
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
1,2-Dichlorobenzene	ND	10
bis(2-chloroisopropyl)ether	ND	10
N-Nitroso-di-n-propylamine	ND	1.0
Hexachloroethane	ND	1.0
Nitrobenzene	ND	1.0
Isophorone	ND	10
bis(2-Chloroethoxy)methane	ND	10
1,2,4-Trichlorobenzene	ND	1.0
Naphthalene	1.3J	10
4-Chloroaniline	ND	10
Hexachlorobutadiene	ND	2.0
2-Methylnaphthalene	ND	10
Hexachlorocyclopentadiene	ND J	10
2-Chloronaphthalene	ND	10
2-Nitroaniline	ND	20
Dimethylphthalate	ND	10
Acenaphthylene	ND	10
2,6-Dinitrotoluene	ND	2.0
3-Nitroaniline	ND	20
Acenaphthene	ND	10
Dibenzofuran	ND	10
2,4-Dinitrotoluene	ND	2.0
Diethylphthalate	ND	10
4-Chlorophenyl-phenylether	ND	10
Fluorene	ND	10
4-Nitroaniline	ND	20
N-Nitrosodiphenylamine	ND	10
4-Bromophenyl-phenylether	ND	10
Hexachlorobenzene	ND	1.0
Phenanthrene	ND	10
Anthracene	ND	10

Client ID: **MW-6**
Site: NYSEG Wadsworth St

Lab Sample No: **696450**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Extracted: 12/22/05
Date Analyzed: 12/29/05
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u27110.d

Matrix: WATER
Level: LOW
Sample Volume: 980 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l		Quantitation Limit Units: ug/l
Carbazole	ND		10
Di-n-butylphthalate	ND		10
Fluoranthene	ND		10
Pyrene	ND		10
Butylbenzylphthalate	ND		10
3,3'-Dichlorobenzidine	ND		20
Benzo(a)anthracene	ND		1.0
Chrysene	ND		10
bis(2-Ethylhexyl)phthalate	ND		10
Di-n-octylphthalate	ND		10
Benzo(b)fluoranthene	ND	J	1.0
Benzo(k)fluoranthene	ND	J	1.0
Benzo(a)pyrene	ND		1.0
Indeno(1,2,3-cd)pyrene	ND		1.0
Dibenz(a,h)anthracene	ND		1.0
Benzo(g,h,i)perylene	ND		10

Client ID: **MW-1**
Site: NYSEG Wadsworth St

Lab Sample No: **696451**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Extracted: 12/22/05
Date Analyzed: 12/29/05
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u27111.d

Matrix: WATER
Level: LOW
Sample Volume: 950 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l		Quantitation Limit Units: ug/l
bis(2-Chloroethyl)ether	ND	J	1.0
1,3-Dichlorobenzene	ND		10
1,4-Dichlorobenzene	ND		10
1,2-Dichlorobenzene	ND		10
bis(2-chloroisopropyl)ether	ND		10
N-Nitroso-di-n-propylamine	ND		1.0
Hexachloroethane	ND		1.0
Nitrobenzene	ND		1.0
Isophorone	ND		10
bis(2-Chloroethoxy)methane	ND		10
1,2,4-Trichlorobenzene	ND		1.0
Naphthalene	ND		10
4-Chloroaniline	ND		10
Hexachlorobutadiene	ND		2.1
2-Methylnaphthalene	ND		10
Hexachlorocyclopentadiene	ND	J	10
2-Chloronaphthalene	ND		10
2-Nitroaniline	ND		21
Dimethylphthalate	ND		10
Acenaphthylene	ND		10
2,6-Dinitrotoluene	ND		2.1
3-Nitroaniline	ND		21
Acenaphthene	ND		10
Dibenzofuran	ND		10
2,4-Dinitrotoluene	ND		2.1
Diethylphthalate	ND		10
4-Chlorophenyl-phenylether	ND		10
Fluorene	ND		10
4-Nitroaniline	ND		21
N-Nitrosodiphenylamine	ND		10
4-Bromophenyl-phenylether	ND		10
Hexachlorobenzene	ND		1.0
Phenanthrene	ND		10
Anthracene	ND		10

Client ID: **MW-1**
Site: NYSEG Wadsworth St

Lab Sample No: **696451**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Extracted: 12/22/05
Date Analyzed: 12/29/05
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u27111.d

Matrix: WATER
Level: LOW
Sample Volume: 950 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Carbazole	ND	10
Di-n-butylphthalate	ND	10
Fluoranthene	ND	10
Pyrene	ND	10
Butylbenzylphthalate	ND	10
3,3'-Dichlorobenzidine	ND	21
Benzo(a)anthracene	ND	1.0
Chrysene	ND	10
bis(2-Ethylhexyl)phthalate	2.8J	10
Di-n-octylphthalate	ND	10
Benzo(b)fluoranthene	ND J	1.0
Benzo(k)fluoranthene	ND J	1.0
Benzo(a)pyrene	ND	1.0
Indeno(1,2,3-cd)pyrene	ND	1.0
Dibenz(a,h)anthracene	ND	1.0
Benzo(g,h,i)perylene	ND	10

Client ID: **MW-2**
Site: NYSEG Wadsworth St

Lab Sample No: **696452**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Extracted: 12/22/05
Date Analyzed: 12/29/05
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u27112.d

Matrix: WATER
Level: LOW
Sample Volume: 950 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l		Quantitation Limit Units: ug/l
bis(2-Chloroethyl)ether	ND	J	1.0
1,3-Dichlorobenzene	ND		10
1,4-Dichlorobenzene	ND		10
1,2-Dichlorobenzene	ND		10
bis(2-chloroisopropyl)ether	ND		10
N-Nitroso-di-n-propylamine	ND		1.0
Hexachloroethane	ND		1.0
Nitrobenzene	ND		1.0
Isophorone	ND		10
bis(2-Chloroethoxy)methane	ND		10
1,2,4-Trichlorobenzene	ND		1.0
Naphthalene	ND		10
4-Chloroaniline	ND		10
Hexachlorobutadiene	ND		2.1
2-Methylnaphthalene	ND		10
Hexachlorocyclopentadiene	ND	J	10
2-Chloronaphthalene	ND		10
2-Nitroaniline	ND		21
Dimethylphthalate	ND		10
Acenaphthylene	ND		10
2,6-Dinitrotoluene	ND		2.1
3-Nitroaniline	ND		21
Acenaphthene	ND		10
Dibenzofuran	ND		10
2,4-Dinitrotoluene	ND		2.1
Diethylphthalate	ND		10
4-Chlorophenyl-phenylether	ND		10
Fluorene	ND		10
4-Nitroaniline	ND		21
N-Nitrosodiphenylamine	ND		10
4-Bromophenyl-phenylether	ND		10
Hexachlorobenzene	ND		1.0
Phenanthrene	ND		10
Anthracene	ND		10

Client ID: **MW-2**
Site: NYSEG Wadsworth St

Lab Sample No: **696452**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Extracted: 12/22/05
Date Analyzed: 12/29/05
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u27112.d

Matrix: WATER
Level: LOW
Sample Volume: 950 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Carbazole	ND	10
Di-n-butylphthalate	ND	10
Fluoranthene	ND	10
Pyrene	ND	10
Butylbenzylphthalate	ND	10
3,3'-Dichlorobenzidine	ND	21
Benzo(a)anthracene	ND	1.0
Chrysene	ND	10
bis(2-Ethylhexyl)phthalate	ND	10
Di-n-octylphthalate	ND	10
Benzo(b)fluoranthene	ND J	1.0
Benzo(k)fluoranthene	ND J	1.0
Benzo(a)pyrene	ND	1.0
Indeno(1,2,3-cd)pyrene	ND	1.0
Dibenz(a,h)anthracene	ND	1.0
Benzo(g,h,i)perylene	ND	10

Client ID: **MW-3**
Site: NYSEG Wadsworth St

Lab Sample No: **696453**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Extracted: 12/22/05
Date Analyzed: 12/29/05
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u27114.d

Matrix: WATER
Level: LOW
Sample Volume: 950 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 20.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
bis(2-Chloroethyl)ether	ND J	21
1,3-Dichlorobenzene	ND	210
1,4-Dichlorobenzene	ND	210
1,2-Dichlorobenzene	ND	210
bis(2-chloroisopropyl)ether	ND	210
N-Nitroso-di-n-propylamine	ND	21
Hexachloroethane	ND	21
Nitrobenzene	ND	21
Isophorone	ND	210
bis(2-Chloroethoxy)methane	ND	210
1,2,4-Trichlorobenzene	ND	21
Naphthalene	3600	210
4-Chloroaniline	ND	210
Hexachlorobutadiene	ND	42
2-Methylnaphthalene	290	210
Hexachlorocyclopentadiene	ND J	210
2-Chloronaphthalene	ND	210
2-Nitroaniline	ND	420
Dimethylphthalate	ND	210
Acenaphthylene	54 J	210
2,6-Dinitrotoluene	ND	42
3-Nitroaniline	ND	420
Acenaphthene	16 J	210
Dibenzofuran	50 J	210
2,4-Dinitrotoluene	ND	42
Diethylphthalate	ND	210
4-Chlorophenyl-phenylether	ND	210
Fluorene	48 J	210
4-Nitroaniline	ND	420
N-Nitrosodiphenylamine	ND	210
4-Bromophenyl-phenylether	ND	210
Hexachlorobenzene	ND	21
Phenanthrene	28 J	210
Anthracene	ND	210

Client ID: **MW-3**
Site: NYSEG Wadsworth St

Lab Sample No: **696453**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Extracted: 12/22/05
Date Analyzed: 12/29/05
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u27114.d

Matrix: WATER
Level: LOW
Sample Volume: 950 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 20.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Carbazole	88 J	210
Di-n-butylphthalate	ND	210
Fluoranthene	ND	210
Pyrene	ND	210
Butylbenzylphthalate	ND	210
3,3'-Dichlorobenzidine	ND	420
Benzo(a)anthracene	ND	21
Chrysene	ND	210
bis(2-Ethylhexyl)phthalate	ND	210
Di-n-octylphthalate	ND	210
Benzo(b)fluoranthene	ND J	21
Benzo(k)fluoranthene	ND J	21
Benzo(a)pyrene	ND	21
Indeno(1,2,3-cd)pyrene	ND	21
Dibenz(a,h)anthracene	ND	21
Benzo(g,h,i)perylene	ND	210

Client ID: **MW-4**
Site: NYSEG Wadsworth St

Lab Sample No: **696454**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Extracted: 12/22/05
Date Analyzed: 12/29/05
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u27113.d

Matrix: WATER
Level: LOW
Sample Volume: 950 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
bis(2-Chloroethyl)ether	ND J	1.0
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
1,2-Dichlorobenzene	ND	10
bis(2-chloroisopropyl)ether	ND	10
N-Nitroso-di-n-propylamine	ND	1.0
Hexachloroethane	ND	1.0
Nitrobenzene	ND	1.0
Isophorone	ND	10
bis(2-Chloroethoxy)methane	ND	10
1,2,4-Trichlorobenzene	ND	1.0
Naphthalene	ND	10
4-Chloroaniline	ND	10
Hexachlorobutadiene	ND	2.1
2-Methylnaphthalene	ND	10
Hexachlorocyclopentadiene	ND J	10
2-Chloronaphthalene	ND	10
2-Nitroaniline	ND	21
Dimethylphthalate	ND	10
Acenaphthylene	ND	10
2,6-Dinitrotoluene	ND	2.1
3-Nitroaniline	ND	21
Acenaphthene	ND	10
Dibenzofuran	ND	10
2,4-Dinitrotoluene	ND	2.1
Diethylphthalate	ND	10
4-Chlorophenyl-phenylether	ND	10
Fluorene	ND	10
4-Nitroaniline	ND	21
N-Nitrosodiphenylamine	ND	10
4-Bromophenyl-phenylether	ND	10
Hexachlorobenzene	ND	1.0
Phenanthrene	ND	10
Anthracene	ND	10

Client ID: **MW-4**
Site: NYSEG Wadsworth St

Lab Sample No: **696454**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Extracted: 12/22/05
Date Analyzed: 12/29/05
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u27113.d

Matrix: WATER
Level: LOW
Sample Volume: 950 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Carbazole	ND	10
Di-n-butylphthalate	ND	10
Fluoranthene	ND	10
Pyrene	ND	10
Butylbenzylphthalate	ND	10
3,3'-Dichlorobenzidine	ND	21
Benzo(a)anthracene	ND	1.0
Chrysene	ND	10
bis(2-Ethylhexyl)phthalate	3.3J	10
Di-n-octylphthalate	ND	10
Benzo(b)fluoranthene	ND J	1.0
Benzo(k)fluoranthene	ND J	1.0
Benzo(a)pyrene	ND	1.0
Indeno(1,2,3-cd)pyrene	ND	1.0
Dibenz(a,h)anthracene	ND	1.0
Benzo(g,h,i)perylene	ND	10

Client ID: **DUP-12-20-05**
Site: NYSEG Wadsworth St

Lab Sample No: **696455**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Extracted: 12/22/05
Date Analyzed: 12/29/05
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u27115.d

Matrix: WATER
Level: LOW
Sample Volume: 970 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 20.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
bis(2-Chloroethyl)ether	ND J	21
1,3-Dichlorobenzene	ND	210
1,4-Dichlorobenzene	ND	210
1,2-Dichlorobenzene	ND	210
bis(2-chloroisopropyl)ether	ND	210
N-Nitroso-di-n-propylamine	ND	21
Hexachloroethane	ND	21
Nitrobenzene	ND	21
Isophorone	ND	210
bis(2-Chloroethoxy)methane	ND	210
1,2,4-Trichlorobenzene	ND	21
Naphthalene	4000	210
4-Chloroaniline	ND	210
Hexachlorobutadiene	ND	41
2-Methylnaphthalene	320	210
Hexachlorocyclopentadiene	ND J	210
2-Chloronaphthalene	ND	210
2-Nitroaniline	ND	410
Dimethylphthalate	ND	210
Acenaphthylene	66 J	210
2,6-Dinitrotoluene	ND	41
3-Nitroaniline	ND	410
Acenaphthene	19 J	210
Dibenzofuran	55 J	210
2,4-Dinitrotoluene	ND	41
Diethylphthalate	ND	210
4-Chlorophenyl-phenylether	ND	210
Fluorene	55 J	210
4-Nitroaniline	ND	410
N-Nitrosodiphenylamine	ND	210
4-Bromophenyl-phenylether	ND	210
Hexachlorobenzene	ND	21
Phenanthrene	30 J	210
Anthracene	11 J	210

Client ID: **DUP-12-20-05**
Site: NYSEG Wadsworth St

Lab Sample No: **696455**
Lab Job No: K740

Date Sampled: 12/20/05
Date Received: 12/21/05
Date Extracted: 12/22/05
Date Analyzed: 12/29/05
GC Column: DB-5
Instrument ID: BNAMS4.i
Lab File ID: u27115.d

Matrix: WATER
Level: LOW
Sample Volume: 970 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 20.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Result Units: ug/l	Quantitation Limit Units: ug/l
Carbazole	100 J	210
Di-n-butylphthalate	ND	210
Fluoranthene	ND	210
Pyrene	ND	210
Butylbenzylphthalate	ND	210
3,3'-Dichlorobenzidine	ND	410
Benzo(a)anthracene	ND	21
Chrysene	ND	210
bis(2-Ethylhexyl)phthalate	ND	210
Di-n-octylphthalate	ND	210
Benzo(b)fluoranthene	ND J	21
Benzo(k)fluoranthene	ND J	21
Benzo(a)pyrene	ND	21
Indeno(1,2,3-cd)pyrene	ND	21
Dibenz(a,h)anthracene	ND	21
Benzo(g,h,i)perylene	ND	210

Site: NYSEG Wadsworth St
Matrix: WATER

Lab Job No: K740
QA Batch: 1947

Ignitability

STL Edison Sample #	Client ID	Date Sampled	Date Analyzed	Flashpoint Units: deg F
696456	TANK	12/20/05	12/29/05	>160

Site: NYSEG Wadsworth St
Matrix: WATER

Lab Job No: K740
QA Batch: 2822

pH

STL Edison Sample #	Client ID	Date Sampled	Date Analyzed	Analytical Result Units: std unit
696456	TANK	12/20/05	12/21/05	9.19

X - The maximum holding time specified in 40 CFR 136.3(e) for Chlorine (total residual), Hydrogen Ion (pH) Dissolved Oxygen (probe), Sulfite and Temperature is "Analyze immediately". The NJDEP Office of Quality Assurance interprets this to mean within 15 minutes. Analysis outside holding time may not be reported to NJDEP for water pollution or drinking water programs.

Site: NYSEG Wadsworth St
Lab Job No: K740
Matrix: WATER
QA Batch: 1826

Reactive Cyanide

STL Edison Sample #	Client ID	Date Sampled	Date Extracted	Date Analyzed	Dilution Factor	Analytical Result Units: mg/l
696456	TANK	12/20/05	12/30/05	12/30/05	2.0	ND

Quantitation Limit for Reactive Cyanide is 25.0 mg/l for an undiluted sample.

Site: NYSEG Wadsworth St
Lab Job No: K740
Matrix: WATER
QA Batch: 1831

Reactive Sulfide

STL Edison Sample #	Client ID	Date Sampled	Date Extracted	Date Analyzed	Dilution Factor	Analytical Result Units: mg/l
696456	TANK	12/20/05	12/30/05	12/30/05	2.0	ND J

Quantitation Limit for Reactive Sulfide is 20.0 mg/l for an undiluted sample.

Site: NYSEG Wadsworth St
Lab Job No: K740
Matrix: WATER
QA Batch: 1952

Total Cyanide

STL Edison Sample #	Client ID	Date Sampled	Date Extracted	Date Analyzed	Dilution Factor	Analytical Result Units: mg/l
696449	MW-5	12/20/05	12/30/05	01/03/06	1.0	ND
696450	MW-6	12/20/05	12/30/05	01/03/06	1.0	ND
696451	MW-1	12/20/05	12/30/05	01/03/06	1.0	0.14
696452	MW-2	12/20/05	12/30/05	01/03/06	1.0	0.34
696453	MW-3	12/20/05	12/30/05	01/03/06	2.0	0.6
696454	MW-4	12/20/05	12/30/05	01/03/06	1.0	ND
696455	DUP-12-20-05	12/20/05	12/30/05	01/03/06	2.0	0.58

Quantitation Limit for Total Cyanide is 0.01 mg/l.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE (VOA)
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
696449	WATER	12/20/05	12/21/05		12/28/05
696449MS	WATER	12/20/05	12/21/05		12/28/05
696449SD	WATER	12/20/05	12/21/05		12/28/05
696450	WATER	12/20/05	12/21/05		12/28/05
696451	WATER	12/20/05	12/21/05		12/28/05
696452	WATER	12/20/05	12/21/05		12/28/05
696453	WATER	12/20/05	12/21/05		12/28/05
696454	WATER	12/20/05	12/21/05		12/28/05
696455	WATER	12/20/05	12/21/05		12/28/05
696456	WATER	12/20/05	12/21/05		12/28/05
696457	WATER	12/20/05	12/21/05		12/28/05

10/95

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
SEMIVOLATILE (BNA)
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
696449	WATER	12/20/05	12/21/05	12/22/05	12/29/05
696449MS	WATER	12/20/05	12/21/05	12/22/05	12/29/05
696449SD	WATER	12/20/05	12/21/05	12/22/05	12/29/05
696450	WATER	12/20/05	12/21/05	12/22/05	12/29/05
696451	WATER	12/20/05	12/21/05	12/22/05	12/29/05
696452	WATER	12/20/05	12/21/05	12/22/05	12/29/05
696453	WATER	12/20/05	12/21/05	12/22/05	12/29/05
696454	WATER	12/20/05	12/21/05	12/22/05	12/29/05
696455	WATER	12/20/05	12/21/05	12/22/05	12/29/05

10/95

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
SEMIVOLATILE (BNA)
ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
696449	WATER	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
696449MS	WATER	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
696449SD	WATER	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
696450	WATER	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
696451	WATER	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
696452	WATER	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
696453	WATER	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		20.00
696454	WATER	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
696455	WATER	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		20.00

10/95

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Parameters	Date Rec'd at Lab	Date Analyzed
696449	WATER	TOTAL CYANIDE	12/21/05	1/3/06
696450	WATER	TOTAL CYANIDE	12/21/05	1/3/06
696451	WATER	TOTAL CYANIDE	12/21/05	1/3/06
696452	WATER	TOTAL CYANIDE	12/21/05	1/3/06
696453	WATER	TOTAL CYANIDE	12/21/05	1/3/06
696454	WATER	TOTAL CYANIDE	12/21/05	1/3/06
696455	WATER	TOTAL CYANIDE	12/21/05	1/3/06
696456	WATER	CN REACTIVITY	12/21/05	12/30/05
696456	WATER	IGNITABILITY	12/21/05	12/29/05
696456	WATER	pH	12/21/05	12/21/05
696456	WATER	S REACTIVITY	12/21/05	12/30/05

10/95

SDG NARRATIVE

STL EDISON

SDG No. K740

STL Edison Sample	Client ID
696449	MW-5
696449MS	MW-5MS
696449SD	MW-5MSD
696450	MW-6
696451	MW-1
696452	MW-2
696453	MW-3
696454	MW-4
696455	DUP-12-20-05
696456	TANK
696457	TRIPBLANK

Sample Receipt:

Sample delivery conforms with requirements.

Volatile Organic Analysis (GC/MS):

All data conforms with method requirements.

Base/Neutral and/or Acid Extractable Organics (GC/MS):

All data conforms with method requirements.

Wet Chemistry \ Microbiology:

pH analyzed outside the 15 minute hold time.

Reactive Cyanide spike recovery biased low (low recovery expected with this test procedure.)

rtify that this data package is in compliance with the protocols in NYSDEC ASP B both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this package has been authorized by the Laboratory Manager or his designee

Michael J. Urban

Michael J.Urban
Laboratory Manager

DATA USABILITY SUMMARY REPORT

NYSEG

WADSWORTH ST.GENEVA

SDG #K245

VOLATILE, SEMIVOLATILE
AND MISCELLANEOUS ANALYSES

Analyses performed by:

Severn Trent Laboratories
Buffalo, New York

Review performed by:

Blasland, Bouck & Lee, Inc.
Syracuse, New York

REPORT #5488

Summary

The following is an assessment of the data package for sample delivery group (SDG) # K245 for sampling from the NYSEG Wadsworth St. Geneva Site. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Date	Analysis				
				VOC	SVOC	PCB	MET	MISC
SS-1	693542	Soil	12/7/2005	X	X			X
SS-2	693543	Soil	12/7/2005	X	X			X
SS-3	693544	Soil	12/7/2005	X	X			X
SS-4	693545	Soil	12/7/2005	X	X			X
SS-5	693546	Soil	12/7/2005	X	X			X
SS-6	693547	Soil	12/7/2005	X	X			X
MW-3_19.5-20	693548	Soil	12/8/2005	X	X			X

1. The matrix spike/matrix (MS/MSD) spike duplicate performed on sample location SS-2.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

Introduction

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260 as referenced in NYSDEC-ASP. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

E The compound was quantitated above the calibration range.

D Concentration is based on a diluted sample analysis.

C Identification confirmed by gas chromatograph/mass spectrometer (GC/MS).

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cooled @ 4 °C.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method, trip, and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure contamination of samples during shipment. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results associated with the following sample locations were qualified.

Sample Locations	Compounds	Sample Result	Qualification
SS-1 SS-2 SS-3 SS-4 SS-5 SS-6	Methylene Chloride	QA blank sample results >MDL, Sample results <RL	No Action

RL = reporting limit

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less then the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Initial/Continuing	Sample Locations	Compound	Criteria
ICAL %RSD	SS-1 SS-2 SS-3 SS-4 SS-5 SS-6 MW-3_19.5-20	Methylene Chloride	19.2%
		1,1-Dichloroethane	15.8%
		Bromoform	16.3%
		2-Hexanone	29.9%
		Chlorobenzene	17.0%
		Sytrene	17.6%
		Xylene (Total)	17.6%
CCAL %D	SS-1 SS-3 SS-4 SS-5 SS-6	2-Butanone	33.2%
		4-Methyl-2-pentanone	33.5%
		2-Hexanone	25.4%
		1,1,2,2-Tetrachloroethane	-35.2%
		MTBE	24.9%
	SS-2	MTBE	22.4%
	MW-3_19.5-20	Chloromethane	21.3%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J

Initial/Continuing	Criteria	Sample Result	Qualification
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15%	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J

1. RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e. ketones, 1,4-Dioxane, etc.)

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

The internal standard responses and retention times were within acceptable limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

> Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations were the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis exhibited recoveries and RPD results within the control limits.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method.

Field duplicate were not included within this SDG.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist

Volatile Organics Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are surrogate recovery forms present?	X		
Are all samples listed on the surrogate recovery form?	X		
Was one or more surrogate recovery outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a MS recovery form present?	X		
Were matrix spikes analyzed at the required frequency?	X		
How many spike recoveries were outside of QC limits?			
0 out of 5			
How many RPDs for MS/MSD were outside of QC limits?			
0 out of 5			
Blanks			
Is a method blank summary form present?	X		
Has a method blank been analyzed for each day or for each 20 samples, whichever is more frequent?	X		
Has a blank been analyzed at least once every 12 hours for each system used?	X		
Do any method/instrument blanks have positive results?	X		
Do any trip/field/rinse blanks have positive results?			X

	YES	NO	NA
Tuning and Mass Calibration			
Are the GC/MS tuning forms present for BFB?	X		
Are the bar graph spectrum and mass/charge listing provided for each BFB?	X		
Has a BFB been analyzed for each 12 hours of analysis per instrument?	X		
Have the ion abundance criteria been met for each instrument used?	X		
Target Analytes			
Is an organics analysis data sheet present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Are the reconstructed ion chromatograms present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Is the chromatographic performance acceptable?	X		
Are the mass spectra of the identified compounds present?	X		
Are all ions present in the standard mass spectrum at a relative intensity of 10% or greater also present in the sample spectrum?	X		
Do the samples and standard relative ion intensities agree within 20%?	X		
Tentatively Identified Compounds			
Are all the TIC summary forms present?		X	
Are the mass spectra for the tentatively identified compounds and their associated "best match" spectra present?			X
Are any target compounds listed as TICs?			X
Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?			X
Do the TIC and "best match" spectrum agree within 20%?			X
Quantitation and Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	
Are the reporting limits adjusted to reflect sample dilutions and, for soils, sample moisture?	X		

	YES	NO	NA
Standard Data			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	X		
Initial Calibration			
Are the initial calibration forms present for each instrument used?	X		
Are the response factor RSDs within acceptable limits?		X	
Are the average RRFs ≥ minimum requirements?	X		
Are there any transcription/calculation errors in reporting the RRFs or RSDs?		X	
Continuing Calibration			
Are the continuing calibration forms present for each day and each instrument?	X		
Has a continuing calibration standard been analyzed for each 12 hours of analysis per instrument?	X		
All %D within acceptable limits?		X	
Are all RF ≥ minimum requirements?	X		
Are there any transcription/calculation errors in reporting of RF or %D?		X	
Internal Standards			
Are internal standard areas of every sample within the upper and lower limits for each continuing calibration?	X		
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
Field Duplicates			
Were field duplicates submitted with the samples?		X	

SEMI-VOLATILE ORGANIC COMPOUND (SVOC) ANALYSES

Introduction

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8270. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

E The compound was quantitated above the calibration range.

D Concentration is based on a diluted sample analysis.

C Identification confirmed by gas chromatograph/mass spectrometer (GC/MS).

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8270	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cooled @ 4 °C
	Soil	14 days from collection to extraction and 40 days from extraction to analysis	Cooled @ 4 °C

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed

No compounds were detected in the associated blanks.

3. Mass Spectrometer Tuning

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) and RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less then the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
SS-1 SS-2 SS-3 SS-4 SS-5 SS-6 MW-3_19.5-20	ICV %RSD	3,3-Dichlorobenzene	17.0%
		Benzo(k)Fluoranthene	20.8%
		Hexachlorocyclopentadiene	51.9%
		Nitrobenzene	16.6%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15%	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J

1. RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e. ketones, 1,4-Dioxane, etc.)

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction exhibit recoveries within the laboratory-established acceptance limits.

Sample locations associated with surrogates exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Surrogate	Recovery
SS-1	Phenol-d5	D
	2-Fluorophenol	D
	2,4,6-Tribromophenol	D
	Nitrobenzene-d5	D
	2-Fluorobiphenyl	D
	Terphenyl-d14	D
MW-3_19.5-20	Phenol-d5	D
	2-Fluorophenol	D
	2,4,6-Tribromophenol	D
	Nitrobenzene-d5	D
	2-Fluorobiphenyl	D
	Terphenyl-d14	D

Diluted (D)

The criteria used to evaluate the surrogate recoveries are presented in the following table. In the case of a surrogate deviation, the sample results associated with the deviant fraction are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	J
	Detect	J
< 10%	Non-detect	R
	Detect	J
One of three surrogate exhibiting recovery outside the control limits but greater than 10%.	Non-detect	No Action
	Detect	
Surrogates diluted (D) below the calibration curve due to the high concentration of a target compounds	Non-detect	No Action
	Detect	

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the SVOC to exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) the area counts of the associated continuing calibration standard.

All internal standard response and retention times were acceptable.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

> Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations were the compounds concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis exhibited recoveries within the control limit. Sample locations associated with MS/MSD recoveries exhibiting an RPD outside of the control limit are presented in the following table.

Sample Locations	Compound	RPD
SS-2	Pyrene	45%

The criteria used to evaluate the RPD between the MS/MSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	J
	Detect	J

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LSC analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method.

Field duplicates were not performed within this SDG.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist

Semivolatile Organics Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are the surrogate recovery forms present?	X		
Are all samples listed on the surrogate recovery form?	X		
Were two or more base-neutral or acid surrogate recoveries outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a MS recovery form present?	X		
Were MS analyzed at the required frequency	X		
How many spike recoveries were outside of QC limits?			
0 out of 11			
How many RPDs for MS/MSD were outside of QC limits?			
1 out of 11			
Blanks			
Is the method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Has a blank been analyzed for each system used?	X		
Do any method blanks have positive results?		X	
Are field/rinse blanks associated with every sample?			X

	YES	NO	NA
Tuning and Mass Calibration			
Are the GC/MS tuning forms present for DFTPP?	X		
Are the bar graph spectrum and mass/charge listing provided for each DFTPP?	X		
Has a DFTPP been analyzed for each 12 hours of analysis per instrument?	X		
Have the ion abundance criteria been met for each instrument used?	X		
Target Analytes			
Is an organics analysis data sheet present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Are the reconstructed ion chromatograms present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Is the chromatographic performance acceptable?	X		
Are the mass spectra of the identified compounds present?	X		
Are all ions present in the standard mass spectrum at a relative intensity of 10% or greater also present in the sample spectrum?	X		
Do the samples and standard relative ion intensities agree within 20%?	X		
Tentatively Identified Compounds			
Are all the TIC summary forms present?		X	
Are the mass spectra for the tentatively identified compounds and their associated "best match" spectra present?			X
Are any target compounds listed as TICs?			X
Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?			X
Do the TIC and "best match" spectrum agree within 20%?			X
Quantitation and Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	
Are the reporting limits adjusted to reflect sample dilutions, and for soils, sample moisture?	X		

	YES	NO	NA
Standard Data			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	X		
Initial Calibration			
Are the initial calibration forms present for each instrument used?	X		
Are the response factor RSDs within acceptable limits?		X	
Are the average RRF ≥ minimum requirements?	X		
Are there any transcription/calculation error in reporting the RRF or RSD?		X	
Continuing Calibration			
Are the continuing calibration forms present for each day and each instrument?	X		
Has a continuing calibration standard been analyzed for each 12 hours of analysis per instrument?	X		
All %D within acceptable limits?	X		
Are all RF ≥ minimum requirements?	X		
Are there any transcription/calculation errors in reporting of RF or %D?		X	
Internal Standards			
Are internal standard areas of every sample within the upper and lower limits for each continuing calibration?	X		
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
Field Duplicates			
Were field duplicates submitted with the samples?		X	

MISCELLANEOUS ANALYSES

Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 9012. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1994.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The reported value was obtained from a reading less than the RL but greater than or equal to the IDL.

M Duplicate injection precision not met.

N Spiked sample recovery not within control limits.

* Duplicate analysis not within control limits.

E The reported value is estimated due to the presence of interference.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Total Cyanide	Water/Soil	14 Days	Cooled @ 4 °C; preserved to a pH of greater than 12.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

No analytes were detected above the reporting limit in the associated blanks.

3. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995.

All continuing calibration verification standard recoveries were within the control limit.

4. MS/MSD Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit a RPD within the laboratory established acceptance limits.

> Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations were the compound's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited recoveries and RPD results within the control limit.

5. LCS Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LSC analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

The laboratory duplicate sample results exhibited RPD within the control limit.

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method.

Field duplicates were not performed within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist

Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Raw Data			
Are the preparation logs present?	X		
Are preparation dates present on sample preparation logs/bench sheets?	X		
Are the measurement read out records present?	X		
Is the data legible?	X		
Is the data properly labeled?	X		
Are pH values listed?	X		
Percent solids calculation present for soils/sediments?			X
Holding Times			
Were all analyses performed within the specified holding times?	X		
Sample Data			
Are all forms complete?	X		
Are correct units indicated the results sheets?	X		
Are soil sample results for each parameter corrected for percent solids?	X		
Initial Calibration			
Is a record of an initial calibration present?:	X		
Is correlation coefficient less than .995?:	X		
Initial and Continuing Calibration Verification			
Present and complete for all analytes?	X		
Are all calibration standards (initial and continuing) within control limits?:	X		
Was continuing calibration performed every 10 samples or every 2 hours?	X		
Was the ICV for cyanides distilled?			X
Initial and Continuing Calibration Blanks			
Present and complete?	X		
Was an initial calibration blank analyzed?	X		
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	X		
Are all calibration blanks less than or equal to the RL?	X		
Preparation Blank			
Was one prep. blank analyzed for:			
each batch of digested samples?	X		

	YES	NO	NA
each matrix type?	X		
Are all preparation blanks less than the RL?	X		
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?			X
Matrix Spike			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Was field blank used for spiked sample?		X	
Are all recoveries for analytes with sample concentrations less than four times the spike concentration within control limits?	X		
Are results outside the control limits (75-125%) flagged with "N"?			X
Laboratory Duplicates			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Was field blank used for duplicate analysis?		X	
Are all values within control limits?	X		
If no, are all results outside the control limits flagged with an * ?			X
Field Duplicates			
Were field duplicates analyzed?		X	
Aqueous			
is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5 times RL?			X
Is any difference between sample and duplicate greater than RL where sample and/or duplicate is less than 5 times RL?			X
Soil/Sediment			
Is any RPD (where sample and duplicate are both greater than 5 times RL) > 100%?			X
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5x RL) >2xRL?			X
Laboratory Control Sample			
Was one LCS prepared and analyzed for:			
each matrix?	X		
each batch?	X		
Are all recoveries within control limits?	X		
Field Blank			
Is the field blank concentration less than RL for all analytes?			X
If no, was field blank value already rejected due to other QC criteria?			X

	YES	NO	NA
Percent Solids			
Are the percent solids in soil/sediment(s):			
< 50%?		X	
< 10%?		X	

Corrected Sample Analysis Data Sheets

Laboratory Narrative

NYSDEC Sample Identification and Analysis Summary Sheets

Sample Compliance Report

SAMPLE COMPLIANCE REPORT

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliancy[1]					Noncompliance
					VOC	SVOC	PCB	MET	MISC	
K245	12/7/2005	2000	SS-1	Soil	no	no	--	--	yes	VOC-ICAL %RSD, CCAL %RSD SVOC-ICAL %RSD
K245	12/7/2005	2000	SS-2	Soil	no	no	--	--	yes	VOC-ICAL %RSD, CCAL %RSD SVOC-ICAL %RSD, MS/MSD %RPD
K245	12/7/2005	2000	SS-3	Soil	no	no	--	--	yes	VOC-ICAL %RSD, CCAL %RSD SVOC-ICAL %RSD
K245	12/7/2005	2000	SS-4	Soil	no	no	--	--	yes	VOC-ICAL %RSD, CCAL %RSD SVOC-ICAL %RSD
K245	12/7/2005	2000	SS-5	Soil	no	no	--	--	yes	VOC-ICAL %RSD, CCAL %RSD SVOC-ICAL %RSD
K245	12/7/2005	2000	SS-6	Soil	no	no	--	--	yes	VOC-ICAL %RSD, CCAL %RSD SVOC-ICAL %RSD
K245	12/8/2005	2000	MW-3_19.5-20	Soil	no	no	--	--	yes	VOC-ICAL %RSD, CCAL %RSD SVOC-ICAL %RSD

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

Client ID: **SS-1**
Site: NYSEG-Geneva

Lab Sample No: **693542**
Lab Job No: K245

Date Sampled: 12/07/05
Date Received: 12/10/05
Date Analyzed: 12/15/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51165.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.2 g
Purge Volume: 5.0 ml
% Moisture: 24

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	6.3
Bromomethane	ND	6.3
Vinyl Chloride	ND	6.3
Chloroethane	ND	6.3
Methylene Chloride	ND J	3.8
Acetone	ND	6.3
Carbon Disulfide	ND	6.3
1,1-Dichloroethene	ND	2.5
1,1-Dichloroethane	ND J	6.3
trans-1,2-Dichloroethene	ND	6.3
cis-1,2-Dichloroethene	ND	6.3
Chloroform	ND	6.3
1,2-Dichloroethane	ND	2.5
2-Butanone	~~ND~~ NO J	~~6.3~~ 6.3
1,1,1-Trichloroethane	ND	6.3
Carbon Tetrachloride	ND	2.5
Bromodichloromethane	ND	1.2
1,2-Dichloropropane	ND	1.2
cis-1,3-Dichloropropene	ND	6.3
Trichloroethene	ND	1.2
Dibromochloromethane	ND	6.3
1,1,2-Trichloroethane	ND	3.8
Benzene	1.1J	1.2
trans-1,3-Dichloropropene	ND	6.3
Bromoform	ND J	5.0
4-Methyl-2-Pentanone	ND J	6.3
2-Hexanone	ND J	6.3
Tetrachloroethene	ND	1.2
1,1,2,2-Tetrachloroethane	ND J	1.2
Toluene	ND	6.3
Chlorobenzene	ND J	6.3
Ethylbenzene	ND	5.0
Styrene	ND J	6.3
Xylene (Total)	ND J	6.3

Client ID: **SS-1**
Site: NYSEG-Geneva

Lab Sample No: **693542**
Lab Job No: K245

Date Sampled: 12/07/05
Date Received: 12/10/05
Date Analyzed: 12/15/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51165.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.2 g
Purge Volume: 5.0 ml
% Moisture: 24

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND J	6.3

Client ID: **SS-2**
Site: NYSEG-Geneva

Lab Sample No: **693543**
Lab Job No: K245

Date Sampled: 12/07/05
Date Received: 12/10/05
Date Analyzed: 12/16/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51123.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.2 g
Purge Volume: 5.0 ml
% Moisture: 17

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	5.8
Bromomethane	ND	5.8
Vinyl Chloride	ND	5.8
Chloroethane	ND	5.8
Methylene Chloride	ND J	3.5
Acetone	32	5.8
Carbon Disulfide	ND	5.8
1,1-Dichloroethene	ND	2.3
1,1-Dichloroethane	ND J	5.8
trans-1,2-Dichloroethene	ND	5.8
cis-1,2-Dichloroethene	ND	5.8
Chloroform	ND	5.8
1,2-Dichloroethane	ND	2.3
2-Butanone	~~ND~~ NO	~~5.8~~ 5.8
1,1,1-Trichloroethane	ND	5.8
Carbon Tetrachloride	ND	2.3
Bromodichloromethane	ND	1.2
1,2-Dichloropropane	ND	1.2
cis-1,3-Dichloropropene	ND	5.8
Trichloroethene	ND	1.2
Dibromochloromethane	ND	5.8
1,1,2-Trichloroethane	ND	3.5
Benzene	1.1J	1.2
trans-1,3-Dichloropropene	ND	5.8
Bromoform	ND J	4.6
4-Methyl-2-Pentanone	ND	5.8
2-Hexanone	ND J	5.8
Tetrachloroethene	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.2
Toluene	0.9J	5.8
Chlorobenzene	ND J	5.8
Ethylbenzene	ND	4.6
Styrene	ND J	5.8
Xylene (Total)	ND J	5.8

Client ID: SS-2
Site: NYSEG-Geneva

Lab Sample No: 693543
Lab Job No: K245

Date Sampled: 12/07/05
Date Received: 12/10/05
Date Analyzed: 12/16/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51123.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.2 g
Purge Volume: 5.0 ml
% Moisture: 17

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND J	5.8

Client ID: SS-3
Site: NYSEG-Geneva

Lab Sample No: 693544
Lab Job No: K245

Date Sampled: 12/07/05
Date Received: 12/10/05
Date Analyzed: 12/15/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51167.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.3 g
Purge Volume: 5.0 ml
% Moisture: 16

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	5.6
Bromomethane	ND	5.6
Vinyl Chloride	ND	5.6
Chloroethane	ND	5.6
Methylene Chloride	ND J	3.4
Acetone	59	5.6
Carbon Disulfide	ND	5.6
1,1-Dichloroethene	ND	2.2
1,1-Dichloroethane	ND J	5.6
trans-1,2-Dichloroethene	ND	5.6
cis-1,2-Dichloroethene	ND	5.6
Chloroform	ND	5.6
1,2-Dichloroethane	ND	2.2
2-Butanone	~~ND~~ ND J	~~5.6~~ 5.6
1,1,1-Trichloroethane	ND	5.6
Carbon Tetrachloride	ND	2.2
Bromodichloromethane	ND	1.1
1,2-Dichloropropane	ND	1.1
cis-1,3-Dichloropropene	ND	5.6
Trichloroethene	ND	1.1
Dibromochloromethane	ND	5.6
1,1,2-Trichloroethane	ND	3.4
Benzene	0.7J	1.1
trans-1,3-Dichloropropene	ND	5.6
Bromoform	ND J	4.5
4-Methyl-2-Pentanone	ND J	5.6
2-Hexanone	ND J	5.6
Tetrachloroethene	ND	1.1
1,1,2,2-Tetrachloroethane	ND J	1.1
Toluene	ND	5.6
Chlorobenzene	ND J	5.6
Ethylbenzene	ND	4.5
Styrene	ND J	5.6
Xylene (Total)	ND J	5.6

Client ID: SS-3
Site: NYSEG-Geneva

Lab Sample No: 693544
Lab Job No: K245

Date Sampled: 12/07/05
Date Received: 12/10/05
Date Analyzed: 12/15/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51167.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.3 g
Purge Volume: 5.0 ml
% Moisture: 16

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND J	5.6

Client ID: SS-4
Site: NYSEG-Geneva

Lab Sample No: 693545
Lab Job No: K245

Date Sampled: 12/07/05
Date Received: 12/10/05
Date Analyzed: 12/15/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51168.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.3 g
Purge Volume: 5.0 ml
% Moisture: 23

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	6.2
Bromomethane	ND	6.2
Vinyl Chloride	ND	6.2
Chloroethane	ND	6.2
Methylene Chloride	ND J	3.7
Acetone	ND	6.2
Carbon Disulfide	ND	6.2
1,1-Dichloroethene	ND	2.5
1,1-Dichloroethane	ND J	6.2
trans-1,2-Dichloroethene	ND	6.2
cis-1,2-Dichloroethene	ND	6.2
Chloroform	ND	6.2
1,2-Dichloroethane	ND	2.5
2-Butanone	~~ND~~ ND J	~~6.2~~ 6.2
1,1,1-Trichloroethane	ND	6.2
Carbon Tetrachloride	ND	2.5
Bromodichloromethane	ND	1.2
1,2-Dichloropropane	ND	1.2
cis-1,3-Dichloropropene	ND	6.2
Trichloroethene	ND	1.2
Dibromochloromethane	ND	6.2
1,1,2-Trichloroethane	ND	3.7
Benzene	ND	1.2
trans-1,3-Dichloropropene	ND	6.2
Bromoform	ND J	4.9
4-Methyl-2-Pentanone	ND J	6.2
2-Hexanone	ND J	6.2
Tetrachloroethene	ND	1.2
1,1,2,2-Tetrachloroethane	ND J	1.2
Toluene	ND	6.2
Chlorobenzene	ND J	6.2
Ethylbenzene	ND	4.9
Styrene	ND J	6.2
Xylene (Total)	ND J	6.2

Client ID: **SS-4**
Site: NYSEG-Geneva

Lab Sample No: **693545**
Lab Job No: K245

Date Sampled: 12/07/05
Date Received: 12/10/05
Date Analyzed: 12/15/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51168.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.3 g
Purge Volume: 5.0 ml
% Moisture: 23

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND J	6.2

Client ID: SS-5
Site: NYSEG-Geneva

Lab Sample No: 693546
Lab Job No: K245

Date Sampled: 12/07/05
Date Received: 12/10/05
Date Analyzed: 12/15/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51169.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.2 g
Purge Volume: 5.0 ml
% Moisture: 24

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	6.4
Bromomethane	ND	6.4
Vinyl Chloride	ND	6.4
Chloroethane	ND	6.4
Methylene Chloride	ND J	3.8
Acetone	200	6.4
Carbon Disulfide	ND	6.4
1,1-Dichloroethene	ND	2.6
1,1-Dichloroethane	ND J	6.4
trans-1,2-Dichloroethene	ND	6.4
cis-1,2-Dichloroethene	ND	6.4
Chloroform	ND	6.4
1,2-Dichloroethane	ND	2.6
2-Butanone	~~ND~~ ND J	~~6.4~~ 6.4
1,1,1-Trichloroethane	ND	6.4
Carbon Tetrachloride	ND	2.6
Bromodichloromethane	ND	1.3
1,2-Dichloropropane	ND	1.3
cis-1,3-Dichloropropene	ND	6.4
Trichloroethene	ND	1.3
Dibromochloromethane	ND	6.4
1,1,2-Trichloroethane	ND	3.8
Benzene	ND	1.3
trans-1,3-Dichloropropene	ND	6.4
Bromoform	ND J	5.1
4-Methyl-2-Pentanone	ND J	6.4
2-Hexanone	ND J	6.4
Tetrachloroethene	ND	1.3
1,1,2,2-Tetrachloroethane	ND J	1.3
Toluene	ND	6.4
Chlorobenzene	ND J	6.4
Ethylbenzene	ND	5.1
Styrene	ND J	6.4
Xylene (Total)	ND J	6.4

Client ID: SS-5
Site: NYSEG-Geneva

Lab Sample No: 693546
Lab Job No: K245

Date Sampled: 12/07/05
Date Received: 12/10/05
Date Analyzed: 12/15/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51169.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.2 g
Purge Volume: 5.0 ml
% Moisture: 24

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND J	6.4

Client ID: SS-6
Site: NYSEG-Geneva

Lab Sample No: 693547
Lab Job No: K245

Date Sampled: 12/07/05
Date Received: 12/10/05
Date Analyzed: 12/15/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51170.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.2 g
Purge Volume: 5.0 ml
% Moisture: 24

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	6.3
Bromomethane	ND	6.3
Vinyl Chloride	ND	6.3
Chloroethane	ND	6.3
Methylene Chloride	ND J	3.8
Acetone	43	6.3
Carbon Disulfide	ND	6.3
1,1-Dichloroethene	ND	2.5
1,1-Dichloroethane	ND J	6.3
trans-1,2-Dichloroethene	ND	6.3
cis-1,2-Dichloroethene	ND	6.3
Chloroform	ND	6.3
1,2-Dichloroethane	ND	2.5
2-Butanone	~~ND~~ ND J	~~6.3~~ 6.3
1,1,1-Trichloroethane	ND	6.3
Carbon Tetrachloride	ND	2.5
Bromodichloromethane	ND	1.2
1,2-Dichloropropane	ND	1.2
cis-1,3-Dichloropropene	ND	6.3
Trichloroethene	ND	1.2
Dibromochloromethane	ND	6.3
1,1,2-Trichloroethane	ND	3.8
Benzene	1.8	1.2
trans-1,3-Dichloropropene	ND	6.3
Bromoform	ND J	5.0
4-Methyl-2-Pentanone	ND J	6.3
2-Hexanone	ND J	6.3
Tetrachloroethene	ND	1.2
1,1,2,2-Tetrachloroethane	ND J	1.2
Toluene	ND	6.3
Chlorobenzene	ND J	6.3
Ethylbenzene	ND	5.0
Styrene	ND J	6.3
Xylene (Total)	ND J	6.3

Client ID: SS-6
Site: NYSEG-Geneva

Lab Sample No: 693547
Lab Job No: K245

Date Sampled: 12/07/05
Date Received: 12/10/05
Date Analyzed: 12/15/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51170.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.2 g
Purge Volume: 5.0 ml
% Moisture: 24

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND J	6.3

Client ID: **MW-3**
Site: NYSEG-Geneva

Lab Sample No: **693548**
Lab Job No: K245

Date Sampled: 12/08/05
Date Received: 12/10/05
Date Analyzed: 12/16/05
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d50895.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 17

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	600
Bromomethane	ND	600
Vinyl Chloride	ND	600
Chloroethane	ND	600
Methylene Chloride	ND J	360
Acetone	1600	600
Carbon Disulfide	ND	600
1,1-Dichloroethene	ND	240
1,1-Dichloroethane	ND J	600
trans-1,2-Dichloroethene	ND	600
cis-1,2-Dichloroethene	ND	600
Chloroform	ND	600
1,2-Dichloroethane	ND	240
2-Butanone	~~ND~~ ND J	~~600~~ 600
1,1,1-Trichloroethane	ND	600
Carbon Tetrachloride	ND	240
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	600
Trichloroethene	ND	120
Dibromochloromethane	ND	600
1,1,2-Trichloroethane	ND	360
Benzene	150	120
trans-1,3-Dichloropropene	ND	600
Bromoform	ND J	480
4-Methyl-2-Pentanone	ND	600
2-Hexanone	ND J	600
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	77 J	600
Chlorobenzene	ND J	600
Ethylbenzene	370 J	480
Styrene	ND J	600
Xylene (Total)	1400 J	600

Client ID: **MW-3**
Site: NYSEG-Geneva

Lab Sample No: **693548**
Lab Job No: K245

Date Sampled: 12/08/05
Date Received: 12/10/05
Date Analyzed: 12/16/05
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d50895.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 17

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND	600

Client ID: SS-1
Site: NYSEG-Geneva

Lab Sample No: 693542
Lab Job No: K245

Date Sampled: 12/07/05
Date Received: 12/10/05
Date Extracted: 12/12/05
Date Analyzed: 12/23/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r26069.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 200.0
% Moisture: 24

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	8700
1,3-Dichlorobenzene	ND	87000
1,4-Dichlorobenzene	ND	87000
1,2-Dichlorobenzene	ND	87000
bis(2-chloroisopropyl)ether	ND	87000
N-Nitroso-di-n-propylamine	ND	8700
Hexachloroethane	ND	8700
Nitrobenzene	ND J	8700
Isophorone	ND	87000
bis(2-Chloroethoxy)methane	ND	87000
1,2,4-Trichlorobenzene	ND	8700
Naphthalene	6600 J	87000
4-Chloroaniline	ND	87000
Hexachlorobutadiene	ND	17000
2-Methylnaphthalene	15000 J	87000
Hexachlorocyclopentadiene	ND J	87000
2-Chloronaphthalene	ND	87000
2-Nitroaniline	ND	170000
Dimethylphthalate	ND	87000
Acenaphthylene	110000	87000
2,6-Dinitrotoluene	ND	17000
3-Nitroaniline	ND	170000
Acenaphthene	26000 J	87000
Dibenzofuran	30000 J	87000
2,4-Dinitrotoluene	ND	17000
Diethylphthalate	ND	87000
4-Chlorophenyl-phenylether	ND	87000
Fluorene	120000	87000
4-Nitroaniline	ND	170000
N-Nitrosodiphenylamine	ND	87000
4-Bromophenyl-phenylether	ND	87000
Hexachlorobenzene	ND	8700
Phenanthrene	720000	87000
Anthracene	190000	87000

Client ID: SS-1
Site: NYSEG-Geneva

Lab Sample No: 693542
Lab Job No: K245

Date Sampled: 12/07/05
Date Received: 12/10/05
Date Extracted: 12/12/05
Date Analyzed: 12/23/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r26069.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 200.0
% Moisture: 24

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)		Quantitation Limit Units: ug/kg
Carbazole	ND		87000
Di-n-butylphthalate	ND		87000
Fluoranthene	360000		87000
Pyrene	500000		87000
Butylbenzylphthalate	ND		87000
3,3'-Dichlorobenzidine	ND	J	170000
Benzo(a)anthracene	130000		8700
Chrysene	140000		87000
bis(2-Ethylhexyl)phthalate	ND		87000
Di-n-octylphthalate	ND		87000
Benzo(b)fluoranthene	66000		8700
Benzo(k)fluoranthene	98000	J	8700
Benzo(a)pyrene	140000		8700
Indeno(1,2,3-cd)pyrene	37000		8700
Dibenz(a,h)anthracene	1800	J	8700
Benzo(g,h,i)perylene	46000	J	87000

Client ID: SS-2
Site: NYSEG-Geneva

Lab Sample No: 693543
Lab Job No: K245

Date Sampled: 12/07/05
Date Received: 12/10/05
Date Extracted: 12/12/05
Date Analyzed: 12/23/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r26074.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 17

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	40
1,3-Dichlorobenzene	ND	400
1,4-Dichlorobenzene	ND	400
1,2-Dichlorobenzene	ND	400
bis(2-chloroisopropyl)ether	ND	400
N-Nitroso-di-n-propylamine	ND	40
Hexachloroethane	ND	40
Nitrobenzene	ND J	40
Isophorone	ND	400
bis(2-Chloroethoxy)methane	ND	400
1,2,4-Trichlorobenzene	ND	40
Naphthalene	160 J	400
4-Chloroaniline	ND	400
Hexachlorobutadiene	ND	80
2-Methylnaphthalene	68 J	400
Hexachlorocyclopentadiene	ND J	400
2-Chloronaphthalene	ND	400
2-Nitroaniline	ND	800
Dimethylphthalate	ND	400
Acenaphthylene	150 J	400
2,6-Dinitrotoluene	ND	80
3-Nitroaniline	ND	800
Acenaphthene	77 J	400
Dibenzofuran	49 J	400
2,4-Dinitrotoluene	ND	80
Diethylphthalate	ND	400
4-Chlorophenyl-phenylether	ND	400
Fluorene	100 J	400
4-Nitroaniline	ND	800
N-Nitrosodiphenylamine	ND	400
4-Bromophenyl-phenylether	ND	400
Hexachlorobenzene	ND	40
Phenanthrene	1100	400
Anthracene	270 J	400

Client ID: SS-2
Site: NYSEG-Geneva

Lab Sample No: 693543
Lab Job No: K245

Date Sampled: 12/07/05
Date Received: 12/10/05
Date Extracted: 12/12/05
Date Analyzed: 12/23/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r26074.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 17

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	94 J	400
Di-n-butylphthalate	ND	400
Fluoranthene	1600	400
Pyrene	1500 J	400
Butylbenzylphthalate	ND	400
3,3'-Dichlorobenzidine	ND J	800
Benzo(a)anthracene	760	40
Chrysene	820	400
bis(2-Ethylhexyl)phthalate	91 J	400
Di-n-octylphthalate	ND	400
Benzo(b)fluoranthene	640	40
Benzo(k)fluoranthene	860 J	40
Benzo(a)pyrene	840	40
Indeno(1,2,3-cd)pyrene	220	40
Dibenz(a,h)anthracene	30 J	40
Benzo(g,h,i)perylene	240 J	400

Client ID: SS-3
Site: NYSEG-Geneva

Lab Sample No: 693544
Lab Job No: K245

Date Sampled: 12/07/05
Date Received: 12/10/05
Date Extracted: 12/12/05
Date Analyzed: 12/23/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r26071.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 16

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	39
1,3-Dichlorobenzene	ND	390
1,4-Dichlorobenzene	ND	390
1,2-Dichlorobenzene	ND	390
bis(2-chloroisopropyl)ether	ND	390
N-Nitroso-di-n-propylamine	ND	39
Hexachloroethane	ND	39
Nitrobenzene	ND J	39
Isophorone	ND	390
bis(2-Chloroethoxy)methane	ND	390
1,2,4-Trichlorobenzene	ND	39
Naphthalene	33 J	390
4-Chloroaniline	ND	390
Hexachlorobutadiene	ND	79
2-Methylnaphthalene	19 J	390
Hexachlorocyclopentadiene	ND J	390
2-Chloronaphthalene	ND	390
2-Nitroaniline	ND	790
Dimethylphthalate	ND	390
Acenaphthylene	30 J	390
2,6-Dinitrotoluene	ND	79
3-Nitroaniline	ND	790
Acenaphthene	15 J	390
Dibenzofuran	13 J	390
2,4-Dinitrotoluene	ND	79
Diethylphthalate	ND	390
4-Chlorophenyl-phenylether	ND	390
Fluorene	17 J	390
4-Nitroaniline	ND	790
N-Nitrosodiphenylamine	ND	390
4-Bromophenyl-phenylether	ND	390
Hexachlorobenzene	ND	39
Phenanthrene	240 J	390
Anthracene	53 J	390

Client ID: SS-3
Site: NYSEG-Geneva

Lab Sample No: 693544
Lab Job No: K245

Date Sampled: 12/07/05
Date Received: 12/10/05
Date Extracted: 12/12/05
Date Analyzed: 12/23/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r26071.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 16

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	41 J	390
Di-n-butylphthalate	ND	390
Fluoranthene	440	390
Pyrene	410	390
Butylbenzylphthalate	ND	390
3,3'-Dichlorobenzidine	ND J	790
Benzo(a)anthracene	210	39
Chrysene	290 J	390
bis(2-Ethylhexyl)phthalate	91 J	390
Di-n-octylphthalate	ND	390
Benzo(b)fluoranthene	310	39
Benzo(k)fluoranthene	360 J	39
Benzo(a)pyrene	340	39
Indeno(1,2,3-cd)pyrene	140	39
Dibenz(a,h)anthracene	16 J	39
Benzo(g,h,i)perylene	130 J	390

Client ID: SS-4
Site: NYSEG-Geneva

Lab Sample No: 693545
Lab Job No: K245

Date Sampled: 12/07/05
Date Received: 12/10/05
Date Extracted: 12/12/05
Date Analyzed: 12/23/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r26075.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 23

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	43
1,3-Dichlorobenzene	ND	430
1,4-Dichlorobenzene	ND	430
1,2-Dichlorobenzene	ND	430
bis(2-chloroisopropyl)ether	ND	430
N-Nitroso-di-n-propylamine	ND	43
Hexachloroethane	ND	43
Nitrobenzene	ND J	43
Isophorone	ND	430
bis(2-Chloroethoxy)methane	ND	430
1,2,4-Trichlorobenzene	ND	43
Naphthalene	32 J	430
4-Chloroaniline	ND	430
Hexachlorobutadiene	ND	87
2-Methylnaphthalene	28 J	430
Hexachlorocyclopentadiene	ND J	430
2-Chloronaphthalene	ND	430
2-Nitroaniline	ND	870
Dimethylphthalate	ND	430
Acenaphthylene	26 J	430
2,6-Dinitrotoluene	ND	87
3-Nitroaniline	ND	870
Acenaphthene	36 J	430
Dibenzofuran	20 J	430
2,4-Dinitrotoluene	ND	87
Diethylphthalate	ND	430
4-Chlorophenyl-phenylether	ND	430
Fluorene	24 J	430
4-Nitroaniline	ND	870
N-Nitrosodiphenylamine	ND	430
4-Bromophenyl-phenylether	ND	430
Hexachlorobenzene	ND	43
Phenanthrene	280 J	430
Anthracene	75 J	430

Client ID: SS-4
Site: NYSEG-Geneva

Lab Sample No: 693545
Lab Job No: K245

Date Sampled: 12/07/05
Date Received: 12/10/05
Date Extracted: 12/12/05
Date Analyzed: 12/23/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r26075.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 23

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	44 J	430
Di-n-butylphthalate	ND	430
Fluoranthene	460	430
Pyrene	420 J	430
Butylbenzylphthalate	ND	430
3,3'-Dichlorobenzidine	ND J	870
Benzo(a)anthracene	320	43
Chrysene	350 J	430
bis(2-Ethylhexyl)phthalate	89 J	430
Di-n-octylphthalate	ND	430
Benzo(b)fluoranthene	380	43
Benzo(k)fluoranthene	560 J	43
Benzo(a)pyrene	500	43
Indeno(1,2,3-cd)pyrene	140	43
Dibenz(a,h)anthracene	ND	43
Benzo(g,h,i)perylene	120 J	430

Client ID: SS-5
Site: NYSEG-Geneva

Lab Sample No: 693546
Lab Job No: K245

Date Sampled: 12/07/05
Date Received: 12/10/05
Date Extracted: 12/12/05
Date Analyzed: 12/27/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r26096.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 24

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	44
1,3-Dichlorobenzene	ND	440
1,4-Dichlorobenzene	ND	440
1,2-Dichlorobenzene	ND	440
bis(2-chloroisopropyl)ether	ND	440
N-Nitroso-di-n-propylamine	ND	44
Hexachloroethane	ND	44
Nitrobenzene	ND J	44
Isophorone	ND	440
bis(2-Chloroethoxy)methane	ND	440
1,2,4-Trichlorobenzene	ND	44
Naphthalene	340 J	440
4-Chloroaniline	ND	440
Hexachlorobutadiene	ND	88
2-Methylnaphthalene	200 J	440
Hexachlorocyclopentadiene	ND J	440
2-Chloronaphthalene	ND	440
2-Nitroaniline	ND	880
Dimethylphthalate	ND	440
Acenaphthylene	580	440
2,6-Dinitrotoluene	ND	88
3-Nitroaniline	ND	880
Acenaphthene	150 J	440
Dibenzofuran	150 J	440
2,4-Dinitrotoluene	ND	88
Diethylphthalate	ND	440
4-Chlorophenyl-phenylether	ND	440
Fluorene	240 J	440
4-Nitroaniline	ND	880
N-Nitrosodiphenylamine	ND	440
4-Bromophenyl-phenylether	ND	440
Hexachlorobenzene	ND	44
Phenanthrene	3000	440
Anthracene	860	440

Client ID: SS-5
Site: NYSEG-Geneva

Lab Sample No: 693546
Lab Job No: K245

Date Sampled: 12/07/05
Date Received: 12/10/05
Date Extracted: 12/12/05
Date Analyzed: 12/27/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r26096.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 24

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	320 J	440
Di-n-butylphthalate	ND	440
Fluoranthene	5000	440
Pyrene	5200	440
Butylbenzylphthalate	ND	440
3,3'-Dichlorobenzidine	ND J	880
Benzo(a)anthracene	2800	44
Chrysene	3100	440
bis(2-Ethylhexyl)phthalate	510	440
Di-n-octylphthalate	ND	440
Benzo(b)fluoranthene	3000	44
Benzo(k)fluoranthene	3400 J	44
Benzo(a)pyrene	3400	44
Indeno(1,2,3-cd)pyrene	1000	44
Dibenz(a,h)anthracene	88	44
Benzo(g,h,i)perylene	900	440

Client ID: SS-6
Site: NYSEG-Geneva

Lab Sample No: 693547
Lab Job No: K245

Date Sampled: 12/07/05
Date Received: 12/10/05
Date Extracted: 12/12/05
Date Analyzed: 12/23/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r26070.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 24

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	44
1,3-Dichlorobenzene	ND	440
1,4-Dichlorobenzene	ND	440
1,2-Dichlorobenzene	ND	440
bis(2-chloroisopropyl)ether	ND	440
N-Nitroso-di-n-propylamine	ND	44
Hexachloroethane	ND	44
Nitrobenzene	ND J	44
Isophorone	ND	440
bis(2-Chloroethoxy)methane	ND	440
1,2,4-Trichlorobenzene	ND	44
Naphthalene	260 J	440
4-Chloroaniline	ND	440
Hexachlorobutadiene	ND	88
2-Methylnaphthalene	63 J	440
Hexachlorocyclopentadiene	ND J	440
2-Chloronaphthalene	ND	440
2-Nitroaniline	ND	880
Dimethylphthalate	ND	440
Acenaphthylene	170 J	440
2,6-Dinitrotoluene	ND	88
3-Nitroaniline	ND	880
Acenaphthene	60 J	440
Dibenzofuran	70 J	440
2,4-Dinitrotoluene	ND	88
Diethylphthalate	ND	440
4-Chlorophenyl-phenylether	ND	440
Fluorene	83 J	440
4-Nitroaniline	ND	880
N-Nitrosodiphenylamine	ND	440
4-Bromophenyl-phenylether	ND	440
Hexachlorobenzene	ND	44
Phenanthrene	1200	440
Anthracene	380 J	440

Client ID: SS-6
Site: NYSEG-Geneva

Lab Sample No: 693547
Lab Job No: K245

Date Sampled: 12/07/05
Date Received: 12/10/05
Date Extracted: 12/12/05
Date Analyzed: 12/23/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r26070.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 24

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	110 J	440
Di-n-butylphthalate	ND	440
Fluoranthene	2100	440
Pyrene	1800	440
Butylbenzylphthalate	ND	440
3,3'-Dichlorobenzidine	ND J	880
Benzo(a)anthracene	1400	44
Chrysene	1500	440
bis(2-Ethylhexyl)phthalate	ND	440
Di-n-octylphthalate	ND	440
Benzo(b)fluoranthene	1300	44
Benzo(k)fluoranthene	1800 J	44
Benzo(a)pyrene	1700	44
Indeno(1,2,3-cd)pyrene	660	44
Dibenz(a,h)anthracene	71	44
Benzo(g,h,i)perylene	630	440

Client ID: MW-3
Site: NYSEG-Geneva

Lab Sample No: 693548
Lab Job No: K245

Date Sampled: 12/08/05
Date Received: 12/10/05
Date Extracted: 12/12/05
Date Analyzed: 12/27/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r26089.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 25.0
% Moisture: 17

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND	1000
1,3-Dichlorobenzene	ND	10000
1,4-Dichlorobenzene	ND	10000
1,2-Dichlorobenzene	ND	10000
bis(2-chloroisopropyl)ether	ND	10000
N-Nitroso-di-n-propylamine	ND	1000
Hexachloroethane	ND	1000
Nitrobenzene	ND J	1000
Isophorone	ND	10000
bis(2-Chloroethoxy)methane	ND	10000
1,2,4-Trichlorobenzene	ND	1000
Naphthalene	7000 J	10000
4-Chloroaniline	ND	10000
Hexachlorobutadiene	ND	2000
2-Methylnaphthalene	1100 J	10000
Hexachlorocyclopentadiene	ND J	10000
2-Chloronaphthalene	ND	10000
2-Nitroaniline	ND	20000
Dimethylphthalate	ND	10000
Acenaphthylene	33000	10000
2,6-Dinitrotoluene	ND	2000
3-Nitroaniline	ND	20000
Acenaphthene	6700 J	10000
Dibenzofuran	29000	10000
2,4-Dinitrotoluene	ND	2000
Diethylphthalate	ND	10000
4-Chlorophenyl-phenylether	ND	10000
Fluorene	47000	10000
4-Nitroaniline	ND	20000
N-Nitrosodiphenylamine	ND	10000
4-Bromophenyl-phenylether	ND	10000
Hexachlorobenzene	ND	1000
Phenanthrene	95000	10000
Anthracene	40000	10000

Client ID: MW-3
Site: NYSEG-Geneva

Lab Sample No: 693548
Lab Job No: K245

Date Sampled: 12/08/05
Date Received: 12/10/05
Date Extracted: 12/12/05
Date Analyzed: 12/27/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r26089.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 25.0
% Moisture: 17

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	2200 J	10000
Di-n-butylphthalate	ND	10000
Fluoranthene	53000	10000
Pyrene	38000	10000
Butylbenzylphthalate	ND	10000
3,3'-Dichlorobenzidine	ND J	20000
Benzo(a)anthracene	24000	1000
Chrysene	22000	10000
bis(2-Ethylhexyl)phthalate	ND	10000
Di-n-octylphthalate	ND	10000
Benzo(b)fluoranthene	9100	1000
Benzo(k)fluoranthene	19000 J	1000
Benzo(a)pyrene	18000	1000
Indeno(1,2,3-cd)pyrene	7000	1000
Dibenz(a,h)anthracene	1200	1000
Benzo(g,h,i)perylene	6600 J	10000

Site: NYSEG-Geneva
Matrix: SOIL

Lab Job No: K245
QA Batch: 1946

Total Cyanide

STL Edison Sample #	Client ID	Date Sampled	Date Extracted	Date Analyzed	Percent Moisture	Dilution Factor	Analytical Result Units: mg/kg
693542	SS-1	12/07/05	12/14/05	12/15/05	23.5	1.0	1.4
693543	SS-2	12/07/05	12/14/05	12/15/05	16.6	1.0	ND
693544	SS-3	12/07/05	12/14/05	12/15/05	15.6	1.0	ND
693545	SS-4	12/07/05	12/14/05	12/15/05	23.1	1.0	ND
693546	SS-5	12/07/05	12/14/05	12/15/05	24.0	1.0	2.9
693547	SS-6	12/07/05	12/14/05	12/15/05	24.0	1.0	ND
693548	MW-3	12/08/05	12/14/05	12/15/05	17.4	1.0	ND

Quantitation Limit for Total Cyanide is 0.5 mg/kg.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE (VOA)
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
693542	SOLID	12/7/05	12/10/05		12/15/05
693543	SOLID	12/7/05	12/10/05		12/16/05
693544	SOLID	12/7/05	12/10/05		12/15/05
693545	SOLID	12/7/05	12/10/05		12/15/05
693546	SOLID	12/7/05	12/10/05		12/15/05
693547	SOLID	12/7/05	12/10/05		12/15/05
693548	SOLID	12/8/05	12/10/05		12/16/05

10/95

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
SEMIVOLATILE (BNA)
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
693542	SOLID	12/7/05	12/10/05	12/12/05	12/23/05
693543	SOLID	12/7/05	12/10/05	12/12/05	12/23/05
693543MS	SOLID	12/7/05	12/10/05	12/12/05	12/23/05
693543SD	SOLID	12/7/05	12/10/05	12/12/05	12/27/05
693544	SOLID	12/7/05	12/10/05	12/12/05	12/23/05
693545	SOLID	12/7/05	12/10/05	12/12/05	12/23/05
693546	SOLID	12/7/05	12/10/05	12/12/05	12/27/05
693547	SOLID	12/7/05	12/10/05	12/12/05	12/23/05
693548	SOLID	12/8/05	12/10/05	12/12/05	12/27/05

10/95

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
SEMIVOLATILE (BNA)
ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
693542	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		200.00
693543	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
693543MS	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
693543SD	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
693544	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
693545	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
693546	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
693547	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
693548	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		25.00

10/95

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Parameters	Date Rec'd at Lab	Date Analyzed
693542	SOLID	% SOLIDS	12/10/05	12/12/05
693542	SOLID	TOTAL CYANIDE	12/10/05	12/15/05
693543	SOLID	% SOLIDS	12/10/05	12/12/05
693543	SOLID	TOTAL CYANIDE	12/10/05	12/15/05
693544	SOLID	% SOLIDS	12/10/05	12/12/05
693544	SOLID	TOTAL CYANIDE	12/10/05	12/15/05
693545	SOLID	% SOLIDS	12/10/05	12/12/05
693545	SOLID	TOTAL CYANIDE	12/10/05	12/15/05
693546	SOLID	% SOLIDS	12/10/05	12/12/05
693546	SOLID	TOTAL CYANIDE	12/10/05	12/15/05
693547	SOLID	% SOLIDS	12/10/05	12/12/05
693547	SOLID	TOTAL CYANIDE	12/10/05	12/15/05
693548	SOLID	% SOLIDS	12/10/05	12/12/05
693548	SOLID	TOTAL CYANIDE	12/10/05	12/15/05

10/95

SDG NARRATIVE

STL EDISON

SDG No. K245

STL Edison Sample	Client ID
693542	SS-1
693543	SS-2
693543MS	SS-2MS
693543SD	SS-2MSD
693544	SS-3
693545	SS-4
693546	SS-5
693547	SS-6
693548	MW-3

Sample Receipt:

Sample delivery conforms with requirements.

Volatile Organic Analysis (GC/MS):

All data conforms with method requirements.

Base/Neutral and/or Acid Extractable Organics (GC/MS):

QA batch # 3396: MS/MSD RPDs of Pentachlorophenol and Pyrene are biased high.

Sample #s 693542 and 693548 all surrogate std recoveries are diluted out.

Chemistry \ Microbiology:

All data conforms with method requirements.

I certify that this data package is in compliance with the protocols in NYSDEC ASP B both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this package has been authorized by the Laboratory Manager or his designee

Michael J. Urban

Michael J.Urban
Laboratory Manager

DATA USABILITY SUMMARY REPORT

NYSEG

WADSWORTH ST.GENEVA

SDG #K434

VOLATILE, SEMIVOLATILE
AND MISCELLANEOUS ANALYSES

Analyses performed by:

Severn Trent Laboratories
Buffalo, New York

Review performed by:

Blasland, Bouck & Lee, Inc.
Syracuse, New York

REPORT #5486

Summary

The following is an assessment of the data package for sample delivery group (SDG) # K434 for sampling from the NYSEG Wadsworth St. Geneva Site. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Date	Analysis				
				VOC	SVOC	PCB	MET	MISC[1]
SB-2-8-10[2, 3]	694675	Soil	12/13/2005	X	X			X
SB-9-6-6.8	694676	Soil	12/13/2005	X	X			X
SB-5-16-16.8	694677	Soil	12/14/2005	X	X			X
SB-5-17.8-19.4[2]	694678	Soil	12/14/2005	X	X			X
SB-5-23-23.3	694679	Soil	12/14/2005	X	X			X
SB-10A-9.2-10.7	694680	Soil	12/14/2005	X	X			X
Dup-2	694681	Soil	12/13/2005	X	X			X

1. Miscellaneous parameters include total cyanide only.
2. The matrix spike/matrix (MS/MSD) spike duplicate performed on sample.
3. Sample location Dup-2 is the field duplicate of parent sample location SB-2-8-10.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

Introduction

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260 as referenced in NYSDEC-ASP. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

E The compound was quantitated above the calibration range.

D Concentration is based on a diluted sample analysis.

C Identification confirmed by gas chromatograph/mass spectrometer (GC/MS).

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cooled @ 4 °C.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method, trip, and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure contamination of samples during shipment. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results associated with the following sample locations were qualified.

Sample Locations	Compounds	Sample Result	Qualification
SB-10A-9.2-10.7	Methylene Chloride	QA blank sample results >MDL, Sample results <RL	No Action

RL = reporting limit

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less then the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
SB-2-8-10 SB-9-6-6.8 SB-5-16-16.8 SB-5-23-23.3 Dup-2	ICV %RSD	Methylene Chloride	19.2%
		1,1-Dichloroethane	15.8%
		Bromoform	16.3%
		2-Hexanone	29.9%
		Chlorobenzene	17.0%
		Sytrene	17.6%
		Xylene (Total)	17.6%
SB-2-8-10 SB-9-6-6.8 SB-5-16-16.8 SB-5-23-23.3 Dup-2	CCV %D	Bromomethane	-33.2%
SB-5-17.8-19.4 SB-10A-9.2-10.7	ICV %RSD	Bromomethane	26.3%
		Methylene chloride	17.1%
		Acetone	18.8%
		Carbon Disulfide	23.0%
		1,1-Dichloroethene	15.4%
		Trans-1,2-dichloroethene	19.0%
		Dibromochloromethane	15.9%
		Bromoform	18.9%
		2-Hexanone	27.2%
		Styrene	15.6%
		MTBE	20.5%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15%	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J

1. RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e. ketones, 1,4-Dioxane, etc.)

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

The internal standard responses and retention times were within acceptable limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations were the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis exhibited recoveries and RPD results within the control limits.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
SB-2-8-10 / Dup-2	Benzene	0.001 J	0.0018	AC
	Toluene	0.001 J	0.002 J	AC
	Total BTEX	0.002 J	0.0038 J	AC
	Total VOCs	0.002 J	0.0038 J	AC

ND = Not detected.
AC = The field duplicate RPD is acceptable when the RPD between parent sample and field duplicate sample is less than two times the RL and where the parent sample and/or duplicate concentration is less than five times the RL.

The field duplicate RPD exhibited acceptable recoveries.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist

Volatile Organics Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are surrogate recovery forms present?	X		
Are all samples listed on the surrogate recovery form?	X		
Was one or more surrogate recovery outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a MS recovery form present?	X		
Were matrix spikes analyzed at the required frequency?	X		
How many spike recoveries were outside of QC limits?			
0 out of 10			
How many RPDs for MS/MSD were outside of QC limits?			
0 out of 10			
Blanks			
Is a method blank summary form present?	X		
Has a method blank been analyzed for each day or for each 20 samples, whichever is more frequent?	X		
Has a blank been analyzed at least once every 12 hours for each system used?	X		
Do any method/instrument blanks have positive results?	X		
Do any trip/field/rinse blanks have positive results?			X

	YES	NO	NA
Tuning and Mass Calibration			
Are the GC/MS tuning forms present for BFB?	X		
Are the bar graph spectrum and mass/charge listing provided for each BFB?	X		
Has a BFB been analyzed for each 12 hours of analysis per instrument?	X		
Have the ion abundance criteria been met for each instrument used?	X		
Target Analytes			
Is an organics analysis data sheet present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Are the reconstructed ion chromatograms present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Is the chromatographic performance acceptable?	X		
Are the mass spectra of the identified compounds present?	X		
Are all ions present in the standard mass spectrum at a relative intensity of 10% or greater also present in the sample spectrum?	X		
Do the samples and standard relative ion intensities agree within 20%?	X		
Tentatively Identified Compounds			
Are all the TIC summary forms present?		X	
Are the mass spectra for the tentatively identified compounds and their associated "best match" spectra present?			X
Are any target compounds listed as TICs?			X
Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?			X
Do the TIC and "best match" spectrum agree within 20%?			X
Quantitation and Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	
Are the reporting limits adjusted to reflect sample dilutions and, for soils, sample moisture?	X		

	YES	NO	NA
Standard Data			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	X		
Initial Calibration			
Are the initial calibration forms present for each instrument used?	X		
Are the response factor RSDs within acceptable limits?		X	
Are the average RRFs ≥ minimum requirements?	X		
Are there any transcription/calculation errors in reporting the RRFs or RSDs?		X	
Continuing Calibration			
Are the continuing calibration forms present for each day and each instrument?	X		
Has a continuing calibration standard been analyzed for each 12 hours of analysis per instrument?	X		
All %D within acceptable limits?		X	
Are all RF ≥ minimum requirements?	X		
Are there any transcription/calculation errors in reporting of RF or %D?		X	
Internal Standards			
Are internal standard areas of every sample within the upper and lower limits for each continuing calibration?	X		
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
Field Duplicates			
Were field duplicates submitted with the samples?	X		

SEMI-VOLATILE ORGANIC COMPOUND (SVOC) ANALYSES

Introduction

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8270 as referenced in NYSDEC-ASP. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

E The compound was quantitated above the calibration range.

D Concentration is based on a diluted sample analysis.

C Identification confirmed by gas chromatograph/mass spectrometer (GC/MS).

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8270	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cooled @ 4 °C
	Soil	14 days from collection to extraction and 40 days from extraction to analysis	Cooled @ 4 °C

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed

No compounds were detected in the associated blanks.

3. Mass Spectrometer Tuning

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) and RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less then the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
SB-2-8-10 SB-9-6-6.8 SB-5-16-16.8 SB-5-17.8-19.4 SB-5-23-23.3 SB-10A-9.2-10.7 Dup-2	ICV %RSD	Bis (2-chloroethyl)ether	15.6%
		Nitrobenzene	21.4%
		N-nitrosodiphenylamine	16.1%
		Anthracene	15.1%
		Di-n-butylphthalate	15.7%
		Fluoranthene	16.8%
		3,3-Dichlorobenzene	22.0%
		Bis(2-Ethylhexl)phthalate	16.2%
		Benzo(k)Fluoranthene	22.5%
		Benzo(g,h,i)perylene	15.2%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15%	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J

1. RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e. ketones, 1,4-Dioxane, etc.)

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction exhibit recoveries within the laboratory-established acceptance limits.

Sample locations associated with surrogates exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Surrogate	Recovery
SB-5-23-23.3	Phenol-d5	D
	2-Fluorophenol	D
	2,4,6-Tribromophenol	D
	Nitrobenzene-d5	D
	2-Fluorobiphenyl	D
	Terphenyl-d14	D

Diluted (D)

The criteria used to evaluate the surrogate recoveries are presented in the following table. In the case of a surrogate deviation, the sample results associated with the deviant fraction are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	J
	Detect	J
< 10%	Non-detect	R
	Detect	J
Two surrogate exhibiting recovery outside the control limits but greater than 10%.	Non-detect	No Action
	Detect	
Surrogates diluted (D) below the calibration curve due to the high concentration of a target compounds	Non-detect	No Action
	Detect	

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the SVOC to exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) the area counts of the associated continuing calibration standard.

All internal standard response and retention times were acceptable.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

> Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations were the compounds concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis exhibited recoveries and RPD results within the control limits.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LSC analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
SB-2-8-10 / Dup-2	All Compounds	ND	ND	AC

ND = Not detected.
AC = The field duplicate RPD is acceptable when the RPD between parent sample and field duplicate sample is less than two times the RL and where the parent sample and/or duplicate concentration is less than five times the RL.

The field duplicate RPD exhibited acceptable recoveries

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist

Semivolatile Organics Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are the surrogate recovery forms present?	X		
Are all samples listed on the surrogate recovery form?	X		
Were two or more base-neutral or acid surrogate recoveries outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a MS recovery form present?	X		
Were MS analyzed at the required frequency	X		
How many spike recoveries were outside of QC limits?			
0 out of 11			
How many RPDs for MS/MSD were outside of QC limits?			
0 out of 11			
Blanks			
Is the method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Has a blank been analyzed for each system used?	X		
Do any method blanks have positive results?		X	
Are field/rinse blanks associated with every sample?			X

	YES	NO	NA
Tuning and Mass Calibration			
Are the GC/MS tuning forms present for DFTPP?	X		
Are the bar graph spectrum and mass/charge listing provided for each DFTPP?	X		
Has a DFTPP been analyzed for each 12 hours of analysis per instrument?	X		
Have the ion abundance criteria been met for each instrument used?	X		
Target Analytes			
Is an organics analysis data sheet present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Are the reconstructed ion chromatograms present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Is the chromatographic performance acceptable?	X		
Are the mass spectra of the identified compounds present?	X		
Are all ions present in the standard mass spectrum at a relative intensity of 10% or greater also present in the sample spectrum?	X		
Do the samples and standard relative ion intensities agree within 20%?	X		
Tentatively Identified Compounds			
Are all the TIC summary forms present?		X	
Are the mass spectra for the tentatively identified compounds and their associated "best match" spectra present?			X
Are any target compounds listed as TICs?			X
Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?			X
Do the TIC and "best match" spectrum agree within 20%?			X
Quantitation and Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	
Are the reporting limits adjusted to reflect sample dilutions, and for soils, sample moisture?	X		

	YES	NO	NA
Standard Data			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	X		
Initial Calibration			
Are the initial calibration forms present for each instrument used?	X		
Are the response factor RSDs within acceptable limits?		X	
Are the average RRF ≥ minimum requirements?	X		
Are there any transcription/calculation error in reporting the RRF or RSD?		X	
Continuing Calibration			
Are the continuing calibration forms present for each day and each instrument?	X		
Has a continuing calibration standard been analyzed for each 12 hours of analysis per instrument?	X		
All %D within acceptable limits?	X		
Are all RF ≥ minimum requirements?	X		
Are there any transcription/calculation errors in reporting of RF or %D?		X	
Internal Standards			
Are internal standard areas of every sample within the upper and lower limits for each continuing calibration?	X		
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
Field Duplicates			
Were field duplicates submitted with the samples?	X		

MISCELLANEOUS ANALYSES

Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 9012 as referenced in NYSDEC-ASP. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1994.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The reported value was obtained from a reading less than the RL but greater than or equal to the IDL.

M Duplicate injection precision not met.

N Spiked sample recovery not within control limits.

* Duplicate analysis not within control limits.

E The reported value is estimated due to the presence of interference.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Total Cyanide	Water/Soil	14 Days	Cooled @ 4 °C; preserved to a pH of greater than 12.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

No analytes were detected above the reporting limit in the associated blanks.

3. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995.

All continuing calibration verification standard recoveries were within the control limit.

4. MS/MSD Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit a RPD within the laboratory established acceptance limits.

> Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations were the compound's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited recoveries and RPD results within the control limits.

5. LCS Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LSC analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

The laboratory duplicate sample results exhibited RPD within the control limit.

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method.

Results for duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
SB-2-8-10 / Dup-2	Total Cyanide	1.6	0.96	50.0 %

ND = Not detected.
AC = The field duplicate RPD is acceptable when the RPD between parent sample and field duplicate sample is less than two times the RL and where the parent sample and/or duplicate concentration is less than five times the RL.

The field duplicate RPD exhibited acceptable recoveries.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist

Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Raw Data			
Are the preparation logs present?	X		
Are preparation dates present on sample preparation logs/bench sheets?	X		
Are the measurement read out records present?	X		
Is the data legible?	X		
Is the data properly labeled?	X		
Are pH values listed?	X		
Percent solids calculation present for soils/sediments?			X
Holding Times			
Were all analyses performed within the specified holding times?	X		
Sample Data			
Are all forms complete?	X		
Are correct units indicated the results sheets?	X		
Are soil sample results for each parameter corrected for percent solids?	X		
Initial Calibration			
Is a record of an initial calibration present?:	X		
Is correlation coefficient less than .995?:	X		
Initial and Continuing Calibration Verification			
Present and complete for all analytes?	X		
Are all calibration standards (initial and continuing) within control limits?:	X		
Was continuing calibration performed every 10 samples or every 2 hours?	X		
Was the ICV for cyanides distilled?			X
Initial and Continuing Calibration Blanks			
Present and complete?	X		
Was an initial calibration blank analyzed?	X		
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	X		
Are all calibration blanks less than or equal to the RL?	X		
Preparation Blank			
Was one prep. blank analyzed for:			
each batch of digested samples?	X		

	YES	NO	NA
each matrix type?	X		
Are all preparation blanks less than the RL?	X		
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?			X
Matrix Spike			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Was field blank used for spiked sample?		X	
Are all recoveries for analytes with sample concentrations less than four times the spike concentration within control limits?	X		
Are results outside the control limits (75-125%) flagged with "N"?			X
Laboratory Duplicates			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Was field blank used for duplicate analysis?		X	
Are all values within control limits?	X		
If no, are all results outside the control limits flagged with an * ?			X
Field Duplicates			
Were field duplicates analyzed?	X		
Aqueous			
is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5 times RL?			X
Is any difference between sample and duplicate greater than RL where sample and/or duplicate is less than 5 times RL?			X
Soil/Sediment			
Is any RPD (where sample and duplicate are both greater than 5 times RL) > 100%?		X	
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5x RL) >2xRL?		X	
Laboratory Control Sample			
Was one LCS prepared and analyzed for:			
each matrix?	X		
each batch?	X		
Are all recoveries within control limits?	X		
Field Blank			
Is the field blank concentration less than RL for all analytes?			X
If no, was field blank value already rejected due to other QC criteria?			X

	YES	NO	NA
Percent Solids			
Are the percent solids in soil/sediment(s):			
< 50%?		X	
< 10%?		X	

Corrected Sample Analysis Data Sheets

Laboratory Narrative

NYSDEC Sample Identification and Analysis Summary Sheets

Sample Compliance Report

SAMPLE COMPLIANCE REPORT

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliancy[1]					Noncompliance
					VOC	SVOC	PCB	MET	MISC	
K434	12/13/2005	2000	SB-2-8-10	Soil	no	no	--	--	yes	VOC-ICAL %RSD, CCAL %D SVOC-ICAL %RSD
K434	12/13/2005	2000	SB-9-6-6.8	Soil	no	no	--	--	yes	VOC-ICAL %RSD, CCAL %D SVOC-ICAL %RSD
K434	12/14/2005	2000	SB-5-16-16.8	Soil	no	no	--	--	yes	VOC-ICAL %RSD, CCAL %D SVOC-ICAL %RSD
K434	12/14/2005	2000	SB-5-17.8-19.4	Soil	no	no	--	--	yes	VOC-ICAL %RSD, CCAL %D SVOC-ICAL %RSD
K434	12/14/2005	2000	SB-5-23-23.3	Soil	no	no	--	--	yes	VOC-ICAL %RSD, CCAL %D SVOC-ICAL %RSD
K434	12/14/2005	2000	SB-10A-9.2-10.7	Soil	no	no	--	--	yes	VOC-ICAL %RSD, CCAL %D SVOC-ICAL %RSD
K434	12/13/2005	2000	Dup-2	Soil	no	no	--	--	yes	VOC-ICAL %RSD, CCAL %D SVOC-ICAL %RSD

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

Client ID: **SB-2-8-10**
Site: NYSEG-Geneva

Lab Sample No: **694675**
Lab Job No: K434

Date Sampled: 12/13/05
Date Received: 12/14/05
Date Analyzed: 12/20/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51217.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 17

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	6.0
Bromomethane	ND J	6.0
Vinyl Chloride	ND	6.0
Chloroethane	ND	6.0
Methylene Chloride	ND J	3.6
Acetone	ND	6.0
Carbon Disulfide	ND	6.0
1,1-Dichloroethene	ND J	2.4
1,1-Dichloroethane	ND	6.0
trans-1,2-Dichloroethene	ND	6.0
cis-1,2-Dichloroethene	ND	6.0
Chloroform	ND	6.0
1,2-Dichloroethane	ND	2.4
2-Butanone	~~ND~~ ND	~~6.0~~ 6.0
1,1,1-Trichloroethane	ND	6.0
Carbon Tetrachloride	ND	2.4
Bromodichloromethane	ND	1.2
1,2-Dichloropropane	ND	1.2
cis-1,3-Dichloropropene	ND	6.0
Trichloroethene	ND	1.2
Dibromochloromethane	ND	6.0
1,1,2-Trichloroethane	ND	3.6
Benzene	1.0J	1.2
trans-1,3-Dichloropropene	ND	6.0
Bromoform	ND J	4.8
4-Methyl-2-Pentanone	ND	6.0
2-Hexanone	ND J	6.0
Tetrachloroethene	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.2
Toluene	1.0J	6.0
Chlorobenzene	ND J	6.0
Ethylbenzene	ND	4.8
Styrene	ND J	6.0
Xylene (Total)	ND J	6.0

Client ID: **SB-2-8-10**
Site: NYSEG-Geneva

Lab Sample No: **694675**
Lab Job No: K434

Date Sampled: 12/13/05
Date Received: 12/14/05
Date Analyzed: 12/20/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51217.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 17

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND	6.0

Client ID: **SB-9-6-6.8**
Site: NYSEG-Geneva

Lab Sample No: **694676**
Lab Job No: K434

Date Sampled: 12/13/05
Date Received: 12/14/05
Date Analyzed: 12/20/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51218.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.1 g
Purge Volume: 5.0 ml
% Moisture: 17

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	5.9
Bromomethane	ND J	5.9
Vinyl Chloride	ND	5.9
Chloroethane	ND	5.9
Methylene Chloride	ND J	3.5
Acetone	54	5.9
Carbon Disulfide	11	5.9
1,1-Dichloroethene	ND J	2.3
1,1-Dichloroethane	ND	5.9
trans-1,2-Dichloroethene	ND	5.9
cis-1,2-Dichloroethene	ND	5.9
Chloroform	ND	5.9
1,2-Dichloroethane	ND	2.3
2-Butanone	15	5.9
1,1,1-Trichloroethane	ND	5.9
Carbon Tetrachloride	ND	2.3
Bromodichloromethane	ND	1.2
1,2-Dichloropropane	ND	1.2
cis-1,3-Dichloropropene	ND	5.9
Trichloroethene	ND	1.2
Dibromochloromethane	ND	5.9
1,1,2-Trichloroethane	ND	3.5
Benzene	1.2	1.2
trans-1,3-Dichloropropene	ND	5.9
Bromoform	ND J	4.7
4-Methyl-2-Pentanone	ND	5.9
2-Hexanone	ND J	5.9
Tetrachloroethene	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.2
Toluene	ND	5.9
Chlorobenzene	ND J	5.9
Ethylbenzene	ND	4.7
Styrene	ND J	5.9
Xylene (Total)	ND J	5.9

Client ID: **SB-9-6-6.8**
Site: NYSEG-Geneva

Lab Sample No: **694676**
Lab Job No: K434

Date Sampled: 12/13/05
Date Received: 12/14/05
Date Analyzed: 12/20/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51218.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.1 g
Purge Volume: 5.0 ml
% Moisture: 17

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND	5.9

Client ID: **SB-5-16-16.8**
Site: NYSEG-Geneva

Lab Sample No: **694677**
Lab Job No: K434

Date Sampled: 12/14/05
Date Received: 12/14/05
Date Analyzed: 12/21/05
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d50974.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.2 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 19

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	600
Bromomethane	ND J	600
Vinyl Chloride	ND	600
Chloroethane	ND	600
Methylene Chloride	ND J	360
Acetone	ND	600
Carbon Disulfide	ND	600
1,1-Dichloroethene	ND J	240
1,1-Dichloroethane	ND	600
trans-1,2-Dichloroethene	ND	600
cis-1,2-Dichloroethene	ND	600
Chloroform	ND	600
1,2-Dichloroethane	ND	240
2-Butanone	~~ND~~ ND	~~600~~ 600
1,1,1-Trichloroethane	ND	600
Carbon Tetrachloride	ND	240
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	600
Trichloroethene	ND	120
Dibromochloromethane	ND	600
1,1,2-Trichloroethane	ND	360
Benzene	6600	120
trans-1,3-Dichloropropene	ND	600
Bromoform	ND J	480
4-Methyl-2-Pentanone	ND	600
2-Hexanone	ND J	600
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	12000	600
Chlorobenzene	ND J	600
Ethylbenzene	1400	480
Styrene	ND J	600
Xylene (Total)	19000 J	600

Client ID: **SB-5-16-16.8**
Site: NYSEG-Geneva

Lab Sample No: **694677**
Lab Job No: K434

Date Sampled: 12/14/05
Date Received: 12/14/05
Date Analyzed: 12/21/05
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d50974.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.2 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 19

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND	600

Client ID: **SB-5-17.8-19.4**
Site: NYSEG-Geneva

Lab Sample No: **694678**
Lab Job No: K434

Date Sampled: 12/14/05
Date Received: 12/14/05
Date Analyzed: 12/22/05
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d51000.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 18

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	600
Bromomethane	ND J	600
Vinyl Chloride	ND	600
Chloroethane	ND	600
Methylene Chloride	ND J	360
Acetone	ND J	600
Carbon Disulfide	ND J	600
1,1-Dichloroethene	ND J	240
1,1-Dichloroethane	ND	600
trans-1,2-Dichloroethene	ND J	600
cis-1,2-Dichloroethene	ND	600
Chloroform	ND	600
1,2-Dichloroethane	ND	240
2-Butanone	ND	600
1,1,1-Trichloroethane	ND	600
Carbon Tetrachloride	ND	240
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	600
Trichloroethene	ND	120
Dibromochloromethane	ND J	600
1,1,2-Trichloroethane	ND	360
Benzene	1500	120
trans-1,3-Dichloropropene	ND	600
Bromoform	ND J	480
4-Methyl-2-Pentanone	ND	600
2-Hexanone	ND J	600
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	1500	600
Chlorobenzene	ND	600
Ethylbenzene	200 J	480
Styrene	ND J	600
Xylene (Total)	2200	600

Client ID: **SB-5-17.8-19.4**
Site: NYSEG-Geneva

Lab Sample No: **694678**
Lab Job No: K434

Date Sampled: 12/14/05
Date Received: 12/14/05
Date Analyzed: 12/22/05
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d51000.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 18

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND	600

Client ID: **SB-5-23-23.3**
Site: NYSEG-Geneva

Lab Sample No: **694679**
Lab Job No: K434

Date Sampled: 12/14/05
Date Received: 12/14/05
Date Analyzed: 12/21/05
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d50976.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.1 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 19

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	600
Bromomethane	ND J	600
Vinyl Chloride	ND	600
Chloroethane	ND	600
Methylene Chloride	ND J	360
Acetone	ND	600
Carbon Disulfide	ND	600
1,1-Dichloroethene	ND J	240
1,1-Dichloroethane	ND	600
trans-1,2-Dichloroethene	ND	600
cis-1,2-Dichloroethene	ND	600
Chloroform	ND	600
1,2-Dichloroethane	ND	240
2-Butanone	~~ND~~ ND	~~600~~ 600
1,1,1-Trichloroethane	ND	600
Carbon Tetrachloride	ND	240
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	600
Trichloroethene	ND	120
Dibromochloromethane	ND	600
1,1,2-Trichloroethane	ND	360
Benzene	3400	120
trans-1,3-Dichloropropene	ND	600
Bromoform	ND J	480
4-Methyl-2-Pentanone	ND	600
2-Hexanone	ND J	600
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	5600	600
Chlorobenzene	ND J	600
Ethylbenzene	580	480
Styrene	1300 J	600
Xylene (Total)	7700 J	600

Client ID: **SB-5-23-23.3**
Site: NYSEG-Geneva

Lab Sample No: **694679**
Lab Job No: K434

Date Sampled: 12/14/05
Date Received: 12/14/05
Date Analyzed: 12/21/05
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d50976.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.1 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 19

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND	600

Client ID: **SB-10A-9.2-10.7**
Site: NYSEG-Geneva

Lab Sample No: **694680**
Lab Job No: K434

Date Sampled: 12/14/05
Date Received: 12/14/05
Date Analyzed: 12/22/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51262.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.2 g
Purge Volume: 5.0 ml
% Moisture: 15

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	5.6
Bromomethane	ND J	5.6
Vinyl Chloride	ND	5.6
Chloroethane	ND	5.6
Methylene Chloride	ND J	3.4
Acetone	39 J	5.6
Carbon Disulfide	ND J	5.6
1,1-Dichloroethene	ND J	2.2
1,1-Dichloroethane	ND	5.6
trans-1,2-Dichloroethene	ND J	5.6
cis-1,2-Dichloroethene	ND	5.6
Chloroform	ND	5.6
1,2-Dichloroethane	ND	2.2
2-Butanone	ND	5.6
1,1,1-Trichloroethane	ND	5.6
Carbon Tetrachloride	ND	2.2
Bromodichloromethane	ND	1.1
1,2-Dichloropropane	ND	1.1
cis-1,3-Dichloropropene	ND	5.6
Trichloroethene	ND	1.1
Dibromochloromethane	ND J	5.6
1,1,2-Trichloroethane	ND	3.4
Benzene	1.5	1.1
trans-1,3-Dichloropropene	ND	5.6
Bromoform	ND J	4.5
4-Methyl-2-Pentanone	ND	5.6
2-Hexanone	ND J	5.6
Tetrachloroethene	ND	1.1
1,1,2,2-Tetrachloroethane	ND	1.1
Toluene	2.4J	5.6
Chlorobenzene	ND	5.6
Ethylbenzene	ND	4.5
Styrene	ND J	5.6
Xylene (Total)	1.8J	5.6

Client ID: **SB-10A-9.2-10.7**
Site: NYSEG-Geneva

Lab Sample No: **694680**
Lab Job No: K434

Date Sampled: 12/14/05
Date Received: 12/14/05
Date Analyzed: 12/22/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51262.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.2 g
Purge Volume: 5.0 ml
% Moisture: 15

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND J	5.6

Client ID: **Dup-2**
Site: NYSEG-Geneva

Lab Sample No: **694681**
Lab Job No: K434

Date Sampled: 12/13/05
Date Received: 12/14/05
Date Analyzed: 12/20/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51221.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.2 g
Purge Volume: 5.0 ml
% Moisture: 19

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	5.9
Bromomethane	ND J	5.9
Vinyl Chloride	ND	5.9
Chloroethane	ND	5.9
Methylene Chloride	ND J	3.6
Acetone	ND	5.9
Carbon Disulfide	ND	5.9
1,1-Dichloroethene	ND J	2.4
1,1-Dichloroethane	ND	5.9
trans-1,2-Dichloroethene	ND	5.9
cis-1,2-Dichloroethene	ND	5.9
Chloroform	ND	5.9
1,2-Dichloroethane	ND	2.4
2-Butanone	~~ND~~ ND	~~5.9~~ 5.9
1,1,1-Trichloroethane	ND	5.9
Carbon Tetrachloride	ND	2.4
Bromodichloromethane	ND	1.2
1,2-Dichloropropane	ND	1.2
cis-1,3-Dichloropropene	ND	5.9
Trichloroethene	ND	1.2
Dibromochloromethane	ND	5.9
1,1,2-Trichloroethane	ND	3.6
Benzene	1.8	1.2
trans-1,3-Dichloropropene	ND	5.9
Bromoform	ND J	4.8
4-Methyl-2-Pentanone	ND	5.9
2-Hexanone	ND J	5.9
Tetrachloroethene	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.2
Toluene	2.0J	5.9
Chlorobenzene	ND J	5.9
Ethylbenzene	ND	4.8
Styrene	ND J	5.9
Xylene (Total)	ND J	5.9

Client ID: **Dup-2**
Site: NYSEG-Geneva

Lab Sample No: **694681**
Lab Job No: K434

Date Sampled: 12/13/05
Date Received: 12/14/05
Date Analyzed: 12/20/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51221.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.2 g
Purge Volume: 5.0 ml
% Moisture: 19

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND	5.9

Client ID: SB-2-8-10
Site: NYSEG-Geneva

Lab Sample No: 694675
Lab Job No: K434

Date Sampled: 12/13/05
Date Received: 12/14/05
Date Extracted: 12/27/05
Date Analyzed: 12/28/05
GC Column: DB-5
Instrument ID: BNAMS3.i
Lab File ID: t23625.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 17

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND J	40
1,3-Dichlorobenzene	ND	400
1,4-Dichlorobenzene	ND	400
1,2-Dichlorobenzene	ND	400
bis(2-chloroisopropyl)ether	ND	400
N-Nitroso-di-n-propylamine	ND	40
Hexachloroethane	ND	40
Nitrobenzene	ND J	40
Isophorone	ND	400
bis(2-Chloroethoxy)methane	ND	400
1,2,4-Trichlorobenzene	ND	40
Naphthalene	ND	400
4-Chloroaniline	ND	400
Hexachlorobutadiene	ND	80
2-Methylnaphthalene	ND	400
Hexachlorocyclopentadiene	ND	400
2-Chloronaphthalene	ND	400
2-Nitroaniline	ND	800
Dimethylphthalate	ND	400
Acenaphthylene	ND	400
2,6-Dinitrotoluene	ND	80
3-Nitroaniline	ND	800
Acenaphthene	ND	400
Dibenzofuran	ND	400
2,4-Dinitrotoluene	ND	80
Diethylphthalate	ND	400
4-Chlorophenyl-phenylether	ND	400
Fluorene	ND	400
4-Nitroaniline	ND	800
N-Nitrosodiphenylamine	ND J	400
4-Bromophenyl-phenylether	ND	400
Hexachlorobenzene	ND	40
Phenanthrene	ND	400
Anthracene	ND J	400

Client ID: **SB-2-8-10**
Site: NYSEG-Geneva

Lab Sample No: **694675**
Lab Job No: K434

Date Sampled: 12/13/05
Date Received: 12/14/05
Date Extracted: 12/27/05
Date Analyzed: 12/28/05
GC Column: DB-5
Instrument ID: BNAMS3.i
Lab File ID: t23625.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 17

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	400
Di-n-butylphthalate	ND J	400
Fluoranthene	ND J	400
Pyrene	ND	400
Butylbenzylphthalate	ND	400
3,3'-Dichlorobenzidine	ND J	800
Benzo(a)anthracene	ND	40
Chrysene	ND	400
bis(2-Ethylhexyl)phthalate	ND J	400
Di-n-octylphthalate	ND	400
Benzo(b)fluoranthene	ND	40
Benzo(k)fluoranthene	ND J	40
Benzo(a)pyrene	ND	40
Indeno(1,2,3-cd)pyrene	ND	40
Dibenz(a,h)anthracene	ND	40
Benzo(g,h,i)perylene	ND J	400

Client ID: **SB-9-6-6.8**
Site: NYSEG-Geneva

Lab Sample No: **694676**
Lab Job No: K434

Date Sampled: 12/13/05
Date Received: 12/14/05
Date Extracted: 12/27/05
Date Analyzed: 12/28/05
GC Column: DB-5
Instrument ID: BNAMS3.i
Lab File ID: t23635.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 17

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND J	40
1,3-Dichlorobenzene	ND	400
1,4-Dichlorobenzene	ND	400
1,2-Dichlorobenzene	ND	400
bis(2-chloroisopropyl)ether	ND	400
N-Nitroso-di-n-propylamine	ND	40
Hexachloroethane	ND	40
Nitrobenzene	ND J	40
Isophorone	ND	400
bis(2-Chloroethoxy)methane	ND	400
1,2,4-Trichlorobenzene	ND	40
Naphthalene	470	400
4-Chloroaniline	ND	400
Hexachlorobutadiene	ND	80
2-Methylnaphthalene	120 J	400
Hexachlorocyclopentadiene	ND	400
2-Chloronaphthalene	ND	400
2-Nitroaniline	ND	800
Dimethylphthalate	ND	400
Acenaphthylene	930	400
2,6-Dinitrotoluene	ND	80
3-Nitroaniline	ND	800
Acenaphthene	410	400
Dibenzofuran	460	400
2,4-Dinitrotoluene	ND	80
Diethylphthalate	ND	400
4-Chlorophenyl-phenylether	ND	400
Fluorene	1000	400
4-Nitroaniline	ND	800
N-Nitrosodiphenylamine	ND J	400
4-Bromophenyl-phenylether	ND	400
Hexachlorobenzene	ND	40
Phenanthrene	4600	400
Anthracene	1900 J	400

Client ID: **SB-9-6-6.8**
Site: NYSEG-Geneva

Lab Sample No: **694676**
Lab Job No: K434

Date Sampled: 12/13/05
Date Received: 12/14/05
Date Extracted: 12/27/05
Date Analyzed: 12/28/05
GC Column: DB-5
Instrument ID: BNAMS3.i
Lab File ID: t23635.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 17

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	540	400
Di-n-butylphthalate	ND J	400
Fluoranthene	7200 J	400
Pyrene	6700	400
Butylbenzylphthalate	ND	400
3,3'-Dichlorobenzidine	ND J	800
Benzo(a)anthracene	5200	40
Chrysene	4700	400
bis(2-Ethylhexyl)phthalate	ND	400
Di-n-octylphthalate	ND J	400
Benzo(b)fluoranthene	4000	40
Benzo(k)fluoranthene	3700 J	40
Benzo(a)pyrene	4900	40
Indeno(1,2,3-cd)pyrene	2100	40
Dibenz(a,h)anthracene	760	40
Benzo(g,h,i)perylene	1700 J	400

Client ID: **SB-5-16-16.8**
Site: NYSEG-Geneva

Lab Sample No: **694677**
Lab Job No: K434

Date Sampled: 12/14/05
Date Received: 12/14/05
Date Extracted: 12/27/05
Date Analyzed: 12/28/05
GC Column: DB-5
Instrument ID: BNAMS3.i
Lab File ID: t23632.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 20.0
% Moisture: 19

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND J	820
1,3-Dichlorobenzene	ND	8200
1,4-Dichlorobenzene	ND	8200
1,2-Dichlorobenzene	ND	8200
bis(2-chloroisopropyl)ether	ND	8200
N-Nitroso-di-n-propylamine	ND	820
Hexachloroethane	ND	820
Nitrobenzene	ND J	820
Isophorone	ND	8200
bis(2-Chloroethoxy)methane	ND	8200
1,2,4-Trichlorobenzene	ND	820
Naphthalene	100000	8200
4-Chloroaniline	ND	8200
Hexachlorobutadiene	ND	1600
2-Methylnaphthalene	53000	8200
Hexachlorocyclopentadiene	ND	8200
2-Chloronaphthalene	ND	8200
2-Nitroaniline	ND	16000
Dimethylphthalate	ND	8200
Acenaphthylene	26000	8200
2,6-Dinitrotoluene	ND	1600
3-Nitroaniline	ND	16000
Acenaphthene	4500 J	8200
Dibenzofuran	16000	8200
2,4-Dinitrotoluene	ND	1600
Diethylphthalate	ND	8200
4-Chlorophenyl-phenylether	ND	8200
Fluorene	28000	8200
4-Nitroaniline	ND	16000
N-Nitrosodiphenylamine	ND J	8200
4-Bromophenyl-phenylether	ND	8200
Hexachlorobenzene	ND	820
Phenanthrene	51000	8200
Anthracene	24000 J	8200

Client ID: **SB-5-16-16.8**
Site: NYSEG-Geneva

Lab Sample No: **694677**
Lab Job No: K434

Date Sampled: 12/14/05
Date Received: 12/14/05
Date Extracted: 12/27/05
Date Analyzed: 12/28/05
GC Column: DB-5
Instrument ID: BNAMS3.i
Lab File ID: t23632.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 20.0
% Moisture: 19

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	5200 J	8200
Di-n-butylphthalate	ND J	8200
Fluoranthene	25000 J	8200
Pyrene	20000	8200
Butylbenzylphthalate	ND	8200
3,3'-Dichlorobenzidine	ND J	16000
Benzo(a)anthracene	15000	820
Chrysene	12000	8200
bis(2-Ethylhexyl)phthalate	ND J	8200
Di-n-octylphthalate	ND	8200
Benzo(b)fluoranthene	4900	820
Benzo(k)fluoranthene	8800 J	820
Benzo(a)pyrene	9000	820
Indeno(1,2,3-cd)pyrene	3500	820
Dibenz(a,h)anthracene	1300	820
Benzo(g,h,i)perylene	3200 J	8200

Client ID: **SB-5-17.8-19.4**
Site: NYSEG-Geneva

Lab Sample No: **694678**
Lab Job No: K434

Date Sampled: 12/14/05
Date Received: 12/14/05
Date Extracted: 12/27/05
Date Analyzed: 12/28/05
GC Column: DB-5
Instrument ID: BNAMS3.i
Lab File ID: t23633.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 18

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND J	40
1,3-Dichlorobenzene	ND	400
1,4-Dichlorobenzene	ND	400
1,2-Dichlorobenzene	ND	400
bis(2-chloroisopropyl)ether	ND	400
N-Nitroso-di-n-propylamine	ND	40
Hexachloroethane	ND	40
Nitrobenzene	ND J	40
Isophorone	ND	400
bis(2-Chloroethoxy)methane	ND	400
1,2,4-Trichlorobenzene	ND	40
Naphthalene	4900	400
4-Chloroaniline	ND	400
Hexachlorobutadiene	ND	81
2-Methylnaphthalene	2200	400
Hexachlorocyclopentadiene	ND	400
2-Chloronaphthalene	ND	400
2-Nitroaniline	ND	810
Dimethylphthalate	ND	400
Acenaphthylene	1300	400
2,6-Dinitrotoluene	ND	81
3-Nitroaniline	ND	810
Acenaphthene	320 J	400
Dibenzofuran	1000	400
2,4-Dinitrotoluene	ND	81
Diethylphthalate	ND	400
4-Chlorophenyl-phenylether	ND	400
Fluorene	1600	400
4-Nitroaniline	ND	810
N-Nitrosodiphenylamine	ND J	400
4-Bromophenyl-phenylether	ND	400
Hexachlorobenzene	ND	40
Phenanthrene	4600	400
Anthracene	2100 J	400

Client ID: **SB-5-17.8-19.4**
Site: NYSEG-Geneva

Lab Sample No: **694678**
Lab Job No: K434

Date Sampled: 12/14/05
Date Received: 12/14/05
Date Extracted: 12/27/05
Date Analyzed: 12/28/05
GC Column: DB-5
Instrument ID: BNAMS3.i
Lab File ID: t23633.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 18

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	430	400
Di-n-butylphthalate	ND J	400
Fluoranthene	4700 J	400
Pyrene	3900	400
Butylbenzylphthalate	ND	400
3,3'-Dichlorobenzidine	ND J	810
Benzo(a)anthracene	2800	40
Chrysene	2300	400
bis(2-Ethylhexyl)phthalate	ND J	400
Di-n-octylphthalate	ND	400
Benzo(b)fluoranthene	1600	40
Benzo(k)fluoranthene	2100 J	40
Benzo(a)pyrene	2300	40
Indeno(1,2,3-cd)pyrene	1200	40
Dibenz(a,h)anthracene	400	40
Benzo(g,h,i)perylene	1100 J	400

Client ID: SB-5-23-23.3
Site: NYSEG-Geneva

Lab Sample No: 694679
Lab Job No: K434

Date Sampled: 12/14/05
Date Received: 12/14/05
Date Extracted: 12/27/05
Date Analyzed: 12/29/05
GC Column: DB-5
Instrument ID: BNAMS3.i
Lab File ID: t23652.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 5.0 ml
Dilution Factor: 50.0
% Moisture: 19

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND J	10000
1,3-Dichlorobenzene	ND	100000
1,4-Dichlorobenzene	ND	100000
1,2-Dichlorobenzene	ND	100000
bis(2-chloroisopropyl)ether	ND	100000
N-Nitroso-di-n-propylamine	ND	10000
Hexachloroethane	ND	10000
Nitrobenzene	ND J	10000
Isophorone	ND	100000
bis(2-Chloroethoxy)methane	ND	100000
1,2,4-Trichlorobenzene	ND	10000
Naphthalene	120000	100000
4-Chloroaniline	ND	100000
Hexachlorobutadiene	ND	20000
2-Methylnaphthalene	1100000	100000
Hexachlorocyclopentadiene	ND	100000
2-Chloronaphthalene	ND	100000
2-Nitroaniline	ND	200000
Dimethylphthalate	ND	100000
Acenaphthylene	760000	100000
2,6-Dinitrotoluene	ND	20000
3-Nitroaniline	ND	200000
Acenaphthene	180000	100000
Dibenzofuran	690000	100000
2,4-Dinitrotoluene	ND	20000
Diethylphthalate	ND	100000
4-Chlorophenyl-phenylether	ND	100000
Fluorene	1200000	100000
4-Nitroaniline	ND	200000
N-Nitrosodiphenylamine	ND J	100000
4-Bromophenyl-phenylether	ND	100000
Hexachlorobenzene	ND	10000
Phenanthrene	2100000	100000
Anthracene	1100000 J	100000

Client ID: **SB-5-23-23.3**
Site: NYSEG-Geneva

Lab Sample No: **694679**
Lab Job No: K434

Date Sampled: 12/14/05
Date Received: 12/14/05
Date Extracted: 12/27/05
Date Analyzed: 12/29/05
GC Column: DB-5
Instrument ID: BNAMS3.i
Lab File ID: t23652.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 5.0 ml
Dilution Factor: 50.0
% Moisture: 19

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	44000 J	100000
Di-n-butylphthalate	ND J	100000
Fluoranthene	1100000 J	100000
Pyrene	870000	100000
Butylbenzylphthalate	ND	100000
3,3'-Dichlorobenzidine	ND J	200000
Benzo(a)anthracene	710000	10000
Chrysene	580000	100000
bis(2-Ethylhexyl)phthalate	ND J	100000
Di-n-octylphthalate	ND	100000
Benzo(b)fluoranthene	240000	10000
Benzo(k)fluoranthene	420000 J	10000
Benzo(a)pyrene	400000	10000
Indeno(1,2,3-cd)pyrene	100000	10000
Dibenz(a,h)anthracene	46000	10000
Benzo(g,h,i)perylene	88000 J	100000

Client ID: **SB-10A-9.2-10.7**
Site: NYSEG-Geneva

Lab Sample No: **694680**
Lab Job No: K434

Date Sampled: 12/14/05
Date Received: 12/14/05
Date Extracted: 12/27/05
Date Analyzed: 12/28/05
GC Column: DB-5
Instrument ID: BNAMS3.i
Lab File ID: t23629.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 15

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND J	39
1,3-Dichlorobenzene	ND	390
1,4-Dichlorobenzene	ND	390
1,2-Dichlorobenzene	ND	390
bis(2-chloroisopropyl)ether	ND	390
N-Nitroso-di-n-propylamine	ND	39
Hexachloroethane	ND	39
Nitrobenzene	ND J	39
Isophorone	ND	390
bis(2-Chloroethoxy)methane	ND	390
1,2,4-Trichlorobenzene	ND	39
Naphthalene	ND	390
4-Chloroaniline	ND	390
Hexachlorobutadiene	ND	78
2-Methylnaphthalene	20 J	390
Hexachlorocyclopentadiene	ND	390
2-Chloronaphthalene	ND	390
2-Nitroaniline	ND	780
Dimethylphthalate	ND	390
Acenaphthylene	25 J	390
2,6-Dinitrotoluene	ND	78
3-Nitroaniline	ND	780
Acenaphthene	43 J	390
Dibenzofuran	16 J	390
2,4-Dinitrotoluene	ND	78
Diethylphthalate	ND	390
4-Chlorophenyl-phenylether	ND	390
Fluorene	59 J	390
4-Nitroaniline	ND	780
N-Nitrosodiphenylamine	ND J	390
4-Bromophenyl-phenylether	ND	390
Hexachlorobenzene	ND	39
Phenanthrene	83 J	390
Anthracene	43 J	390

Client ID: **SB-10A-9.2-10.7**
Site: NYSEG-Geneva

Lab Sample No: **694680**
Lab Job No: K434

Date Sampled: 12/14/05
Date Received: 12/14/05
Date Extracted: 12/27/05
Date Analyzed: 12/28/05
GC Column: DB-5
Instrument ID: BNAMS3.i
Lab File ID: t23629.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 15

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	390
Di-n-butylphthalate	ND J	390
Fluoranthene	60 J	390
Pyrene	46 J	390
Butylbenzylphthalate	ND	390
3,3'-Dichlorobenzidine	ND J	780
Benzo(a)anthracene	31 J	39
Chrysene	25 J	390
bis(2-Ethylhexyl)phthalate	ND J	390
Di-n-octylphthalate	ND	390
Benzo(b)fluoranthene	9.6J	39
Benzo(k)fluoranthene	16 J	39
Benzo(a)pyrene	19 J	39
Indeno(1,2,3-cd)pyrene	ND	39
Dibenz(a,h)anthracene	ND	39
Benzo(g,h,i)perylene	ND J	390

Client ID: **Dup-2**
Site: NYSEG-Geneva

Lab Sample No: **694681**
Lab Job No: K434

Date Sampled: 12/13/05
Date Received: 12/14/05
Date Extracted: 12/27/05
Date Analyzed: 12/28/05
GC Column: DB-5
Instrument ID: BNAMS3.i
Lab File ID: t23628.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 19

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND J	41
1,3-Dichlorobenzene	ND	410
1,4-Dichlorobenzene	ND	410
1,2-Dichlorobenzene	ND	410
bis(2-chloroisopropyl)ether	ND	410
N-Nitroso-di-n-propylamine	ND	41
Hexachloroethane	ND	41
Nitrobenzene	ND J	41
Isophorone	ND	410
bis(2-Chloroethoxy)methane	ND	410
1,2,4-Trichlorobenzene	ND	41
Naphthalene	ND	410
4-Chloroaniline	ND	410
Hexachlorobutadiene	ND	83
2-Methylnaphthalene	ND	410
Hexachlorocyclopentadiene	ND	410
2-Chloronaphthalene	ND	410
2-Nitroaniline	ND	830
Dimethylphthalate	ND	410
Acenaphthylene	ND	410
2,6-Dinitrotoluene	ND	83
3-Nitroaniline	ND	830
Acenaphthene	ND	410
Dibenzofuran	ND	410
2,4-Dinitrotoluene	ND	83
Diethylphthalate	ND	410
4-Chlorophenyl-phenylether	ND	410
Fluorene	ND	410
4-Nitroaniline	ND	830
N-Nitrosodiphenylamine	ND J	410
4-Bromophenyl-phenylether	ND	410
Hexachlorobenzene	ND	41
Phenanthrene	ND	410
Anthracene	ND J	410

Client ID: **Dup-2**
Site: NYSEG-Geneva

Lab Sample No: **694681**
Lab Job No: K434

Date Sampled: 12/13/05
Date Received: 12/14/05
Date Extracted: 12/27/05
Date Analyzed: 12/28/05
GC Column: DB-5
Instrument ID: BNAMS3.i
Lab File ID: t23628.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 19

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	410
Di-n-butylphthalate	ND J	410
Fluoranthene	ND J	410
Pyrene	ND	410
Butylbenzylphthalate	ND	410
3,3'-Dichlorobenzidine	ND J	830
Benzo(a)anthracene	ND	41
Chrysene	ND	410
bis(2-Ethylhexyl)phthalate	ND J	410
Di-n-octylphthalate	ND	410
Benzo(b)fluoranthene	ND	41
Benzo(k)fluoranthene	ND J	41
Benzo(a)pyrene	ND	41
Indeno(1,2,3-cd)pyrene	ND	41
Dibenz(a,h)anthracene	ND	41
Benzo(g,h,i)perylene	ND J	410

Site: NYSEG-Geneva
Matrix: SOIL

Lab Job No: K434
QA Batch: 1947

Total Cyanide

STL Edison Sample #	Client ID	Date Sampled	Date Extracted	Date Analyzed	Percent Moisture	Dilution Factor	Analytical Result Units: mg/kg
694675	SB-2-8-10	12/13/05	12/20/05	12/21/05	16.6	1.0	1.6
694676	SB-9-6-6.8	12/13/05	12/20/05	12/21/05	17.2	1.0	15.3
694677	SB-5-16-16.8	12/14/05	12/20/05	12/21/05	19.2	1.0	15.2
694678	SB-5-17.8-19.4	12/14/05	12/20/05	12/21/05	17.5	1.0	1.2
694679	SB-5-23-23.3	12/14/05	12/20/05	12/21/05	18.9	1.0	ND
694680	SB-10A-9.2-10.7	12/14/05	12/20/05	12/21/05	14.8	1.0	ND
694681	Dup-2	12/13/05	12/20/05	12/21/05	19.4	1.0	0.96

Quantitation Limit for Total Cyanide is 0.5 mg/kg.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE (VOA)
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
694675	SOLID	12/13/05	12/14/05		12/20/05
694675MS	SOLID	12/13/05	12/14/05		12/21/05
694675SD	SOLID	12/13/05	12/14/05		12/21/05
694676	SOLID	12/13/05	12/14/05		12/20/05
694677	SOLID	12/14/05	12/14/05		12/21/05
694678	SOLID	12/14/05	12/14/05		12/22/05
694678MS	SOLID	12/14/05	12/14/05		12/21/05
694678SD	SOLID	12/14/05	12/14/05		12/21/05
694679	SOLID	12/14/05	12/14/05		12/21/05
694680	SOLID	12/14/05	12/14/05		12/22/05
694681	SOLID	12/13/05	12/14/05		12/20/05

10/95

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
SEMIVOLATILE (BNA)
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
694675	SOLID	12/13/05	12/14/05	12/27/05	12/28/05
694675MS	SOLID	12/13/05	12/14/05	12/27/05	12/28/05
694675SD	SOLID	12/13/05	12/14/05	12/27/05	12/28/05
694676	SOLID	12/13/05	12/14/05	12/27/05	12/28/05
694677	SOLID	12/14/05	12/14/05	12/27/05	12/28/05
694678	SOLID	12/14/05	12/14/05	12/27/05	12/28/05
694679	SOLID	12/14/05	12/14/05	12/27/05	12/29/05
694680	SOLID	12/14/05	12/14/05	12/27/05	12/28/05
694681	SOLID	12/13/05	12/14/05	12/27/05	12/28/05

10/95

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
SEMIVOLATILE (BNA)
ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
694675	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
694675MS	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
694675SD	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
694676	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
694677	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		20.00
694678	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
694679	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		50.00
694680	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
694681	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00

10/95

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Parameters	Date Rec'd at Lab	Date Analyzed
694675	SOLID	% SOLIDS	12/14/05	12/17/05
694675	SOLID	TOTAL CYANIDE	12/14/05	12/21/05
694676	SOLID	% SOLIDS	12/14/05	12/17/05
694676	SOLID	TOTAL CYANIDE	12/14/05	12/21/05
694677	SOLID	% SOLIDS	12/14/05	12/17/05
694677	SOLID	TOTAL CYANIDE	12/14/05	12/21/05
694678	SOLID	% SOLIDS	12/14/05	12/17/05
694678	SOLID	TOTAL CYANIDE	12/14/05	12/21/05
694679	SOLID	% SOLIDS	12/14/05	12/17/05
694679	SOLID	TOTAL CYANIDE	12/14/05	12/21/05
694680	SOLID	% SOLIDS	12/14/05	12/17/05
694680	SOLID	TOTAL CYANIDE	12/14/05	12/21/05
694681	SOLID	% SOLIDS	12/14/05	12/17/05
694681	SOLID	TOTAL CYANIDE	12/14/05	12/21/05

10/95

SDG NARRATIVE

STL EDISON

SDG No. K434

STL Edison Sample	Client ID
694675	SB-2-8-10
694675MS	SB-2-8-10MS
694675SD	SB-2-8-10MSD
694676	SB-9-6-6.8
694677	SB-5-16-16.8
694678	SB-5-17.8-19.4
694678MS	SB-5-17.8-19.4MS
694678SD	SB-5-17.8-19.4MSD
694679	SB-5-23-23.3
694680	SB-10A-9.2-10.7
694681	Dup-2

Sample Receipt:

Sample delivery conforms with requirements.

Volatile Organic Analysis (GC/MS):

All data conforms with method requirements.

Base/Neutral and/or Acid Extractable Organics (GC/MS):

Sample # 694679: Surrogate standard recoveries are diluted out.

Wet Chemistry \ Microbiology:

All data conforms with method requirements.

I certify that this data package is in compliance with the protocols in NYSDEC ASP B both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this package has been authorized by the Laboratory Manager or his designee

Michael J. Urban

Michael J.Urban
Laboratory Manager

DATA USABILITY SUMMARY REPORT

NYSEG

WADSWORTH ST. GENEVA

SDG #K008

VOLATILE, SEMIVOLATILE
AND MISCELLANEOUS ANALYSES

Analyses performed by:

Severn Trent Laboratories
Buffalo, New York

Review performed by:

Blasland, Bouck & Lee, Inc.
Syracuse, New York

REPORT #5492

Summary

The following is an assessment of the data package for sample delivery group (SDG) # K008 for sampling from the NYSEG Wadsworth St. Geneva Site. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Date	Analysis				
				VOC	SVOC	PCB	MET	MISC
SB-4-10-12	692410	Soil	12/5/2005	X	X			X
SB-4-18-20	692411	Soil	12/5/2005	X	X			X
SB-8-6-8	692412	Soil	12/5/2005	X	X			X
SB-8-14-16	692413	Soil	12/5/2005	X	X			X
SB-3-10.0-11.8	692414	Soil	12/6/2005	X	X			X
SB-1-4.0-6.5	692415	Soil	12/6/2005	X	X			X

1. The matrix spike/matrix (MS/MSD) spike duplicate performed on sample locations SB-4-18-20 and SB-3-10.0-11.8.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

Introduction

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260 as referenced in NYSDEC-ASP. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

E The compound was quantitated above the calibration range.

D Concentration is based on a diluted sample analysis.

C Identification confirmed by gas chromatograph/mass spectrometer (GC/MS).

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cooled @ 4 °C.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method, trip, and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure contamination of samples during shipment. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results associated with the following sample locations were qualified.

Compounds	Sample Locations	Sample Result	Qualification
Methylene Chloride	SB-4-10-12 SB-8-6-8 SB-3-10.0-11.8 SB-1-4.0-6.5	QA blank sample results >MDL, Sample results <RL	No Action
Acetone	SB-3-10.0-11.8 SB-1-4.0-6.5	QA blank sample results >MDL, Sample results <RL	No Action
	SB-4-10-12 SB-8-6-8	Detected sample results >RL and <BAL	U at detected sample concentration

RL = reporting limit

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less then the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Initial/Continuing	Sample Locations	Compound	Criteria
ICAL %RSD 12/11	SB-4-18-20 SB-8-14-16	1,1-Dichloroethane	15.8%
		2-Hexanone	29.9%
		Bromoform	16.3%
		Chlorobenzene	17.0%
		Dibromochloromethane	17.8%
		Methylene Chloride	19.2%
		Styrene	17.6%
		Xylene (Total)	17.6%
CCAL %D	SB-4-18-20 SB-8-14-16	Chloromethane	21.3%
ICAL %RSD 12/08	SB-4-10-12 SB-8-6-8 SB-3-10.0-11.8 SB-1-4.0-6.5	1,1,2,2-Tetrachloroethane	23.8%
		1,1-Dichloroethene	19.5%
		1,2-Dichloropropane	19.1%
		2-Butanone	21.1%
		2-Hexanone	20.6%
		4-methyl-2-pentanone	16.1%
		Acetone	19.8%
		Carbon Disulfide	18.2%
		MTBE	18.7%

Initial/Continuing	Sample Locations	Compound	Criteria
		Trichloroethene	19.8%
CCAL %D	SB-4-10-12 SB-8-6-8 SB-3-10.0-11.8 SB-1-4.0-6.5	1,1,2,2-Tetrachloroethane	-28.6%
		2-Hexanone	20.6%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15%	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J

1. RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e. ketones, 1,4-Dioxane, etc.)

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

The internal standard responses and retention times were within acceptable limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

> Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations were the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis exhibited recoveries and RPD results within the control limits.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method.

Field duplicates were not performed within this SDG.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist

Volatile Organics Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are surrogate recovery forms present?	X		
Are all samples listed on the surrogate recovery form?	X		
Was one or more surrogate recovery outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a MS recovery form present?	X		
Were matrix spikes analyzed at the required frequency?	X		
How many spike recoveries were outside of QC limits?			
0 out of 5			
How many RPDs for MS/MSD were outside of QC limits?			
0 out of 5			
Blanks			
Is a method blank summary form present?	X		
Has a method blank been analyzed for each day or for each 20 samples, whichever is more frequent?	X		
Has a blank been analyzed at least once every 12 hours for each system used?	X		
Do any method/instrument blanks have positive results?	X		
Do any trip/field/rinse blanks have positive results?			X

	YES	NO	NA
Tuning and Mass Calibration			
Are the GC/MS tuning forms present for BFB?	X		
Are the bar graph spectrum and mass/charge listing provided for each BFB?	X		
Has a BFB been analyzed for each 12 hours of analysis per instrument?	X		
Have the ion abundance criteria been met for each instrument used?	X		
Target Analytes			
Is an organics analysis data sheet present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Are the reconstructed ion chromatograms present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Is the chromatographic performance acceptable?	X		
Are the mass spectra of the identified compounds present?	X		
Are all ions present in the standard mass spectrum at a relative intensity of 10% or greater also present in the sample spectrum?	X		
Do the samples and standard relative ion intensities agree within 20%?	X		
Tentatively Identified Compounds			
Are all the TIC summary forms present?		X	
Are the mass spectra for the tentatively identified compounds and their associated "best match" spectra present?			X
Are any target compounds listed as TICs?			X
Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?			X
Do the TIC and "best match" spectrum agree within 20%?			X
Quantitation and Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	
Are the reporting limits adjusted to reflect sample dilutions and, for soils, sample moisture?	X		

	YES	NO	NA
Standard Data			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	X		
Initial Calibration			
Are the initial calibration forms present for each instrument used?	X		
Are the response factor RSDs within acceptable limits?		X	
Are the average RRFs ≥ minimum requirements?	X		
Are there any transcription/calculation errors in reporting the RRFs or RSDs?		X	
Continuing Calibration			
Are the continuing calibration forms present for each day and each instrument?	X		
Has a continuing calibration standard been analyzed for each 12 hours of analysis per instrument?	X		
All %D within acceptable limits?		X	
Are all RF ≥ minimum requirements?	X		
Are there any transcription/calculation errors in reporting of RF or %D?		X	
Internal Standards			
Are internal standard areas of every sample within the upper and lower limits for each continuing calibration?	X		
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
Field Duplicates			
Were field duplicates submitted with the samples?		X	

SEMI-VOLATILE ORGANIC COMPOUND (SVOC) ANALYSES

Introduction

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8270 as referenced in NYSDEC-ASP. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

E The compound was quantitated above the calibration range.

D Concentration is based on a diluted sample analysis.

C Identification confirmed by gas chromatograph/mass spectrometer (GC/MS).

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8270	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cooled @ 4 °C
	Soil	14 days from collection to extraction and 40 days from extraction to analysis	Cooled @ 4 °C

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed

No compounds were detected in the associated blanks.

3. Mass Spectrometer Tuning

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) and RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less then the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
SB-4-10-12 SB-4-18-20 SB-8-6-8 SB-8-14-16 SB-3-10.0-11.8 SB-1-4.0-6.5	ICV %RSD	Bis(2-Chloroethyl) ether	17.3%
		Hexachlorocyclopentadiene	51.9%
		Nitrobenzene	16.6%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15%	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J

1. RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e. ketones, 1,4-Dioxane, etc.)

5. Surrogates / System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the SVOC to exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) the area counts of the associated continuing calibration standard.

All internal standard response and retention times were acceptable.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

> Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations were the compounds concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LSC analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

Sample locations associated with LCS analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	Recovery
SB-4-10-12 SB-4-18-20 SB-8-6-8 SB-8-14-16 SB-3-10.0-11.8 SB-1-4.0-6.5	4-Chloroaniline	<LL but >10%

The criteria used to evaluate the LCS recoveries are presented in the following table. In the case of an LCS deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	J
	Detect	J
< 10%	Non-detect	R
	Detect	J

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method.

Field duplicates were not performed within this SDG.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist

Semivolatile Organics Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Have any missing deliverables been received and added to the data package?		X	
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Holding Times			
Have any holding times been exceeded?		X	
Surrogate Recovery			
Are the surrogate recovery forms present?	X		
Are all samples listed on the surrogate recovery form?	X		
Were two or more base-neutral or acid surrogate recoveries outside control limits for any sample or blank?		X	
If yes, were the samples reanalyzed?			X
Are there any transcription/calculation errors between the raw data and the summary form?		X	
Matrix Spikes			
Is there a MS recovery form present?	X		
Were MS analyzed at the required frequency	X		
How many spike recoveries were outside of QC limits?			
0 out of 11			
How many RPDs for MS/MSD were outside of QC limits?			
0 out of 11			
Blanks			
Is the method blank summary form present?	X		
Has a method blank been analyzed for each set of samples or for each 20 samples, whichever is more frequent?	X		
Has a blank been analyzed for each system used?	X		
Do any method blanks have positive results?		X	
Are field/rinse blanks associated with every sample?			X

	YES	NO	NA
Tuning and Mass Calibration			
Are the GC/MS tuning forms present for DFTPP?	X		
Are the bar graph spectrum and mass/charge listing provided for each DFTPP?	X		
Has a DFTPP been analyzed for each 12 hours of analysis per instrument?	X		
Have the ion abundance criteria been met for each instrument used?	X		
Target Analytes			
Is an organics analysis data sheet present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Are the reconstructed ion chromatograms present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Is the chromatographic performance acceptable?	X		
Are the mass spectra of the identified compounds present?	X		
Are all ions present in the standard mass spectrum at a relative intensity of 10% or greater also present in the sample spectrum?	X		
Do the samples and standard relative ion intensities agree within 20%?	X		
Tentatively Identified Compounds			
Are all the TIC summary forms present?		X	
Are the mass spectra for the tentatively identified compounds and their associated "best match" spectra present?			X
Are any target compounds listed as TICs?			X
Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?			X
Do the TIC and "best match" spectrum agree within 20%?			X
Quantitation and Detection Limits			
Are there any transcription/calculation errors in the Form 1 results?		X	
Are the reporting limits adjusted to reflect sample dilutions, and for soils, sample moisture?	X		

	YES	NO	NA
Standard Data			
Are the quantitation reports and reconstructed ion chromatograms present for the initial and continuing calibration standards?	X		
Initial Calibration			
Are the initial calibration forms present for each instrument used?	X		
Are the response factor RSDs within acceptable limits?		X	
Are the average RRF ≥ minimum requirements?	X		
Are there any transcription/calculation error in reporting the RRF or RSD?		X	
Continuing Calibration			
Are the continuing calibration forms present for each day and each instrument?	X		
Has a continuing calibration standard been analyzed for each 12 hours of analysis per instrument?	X		
All %D within acceptable limits?	X		
Are all RF ≥ minimum requirements?	X		
Are there any transcription/calculation errors in reporting of RF or %D?		X	
Internal Standards			
Are internal standard areas of every sample within the upper and lower limits for each continuing calibration?	X		
Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
Field Duplicates			
Were field duplicates submitted with the samples?		X	

MISCELLANEOUS ANALYSES

Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 9012 as referenced in NYSDEC-ASP. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1994.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

B The reported value was obtained from a reading less than the RL but greater than or equal to the IDL.

M Duplicate injection precision not met.

N Spiked sample recovery not within control limits.

* Duplicate analysis not within control limits.

E The reported value is estimated due to the presence of interference.

UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Total Cyanide	Water/Soil	14 Days	Cooled @ 4 °C; preserved to a pH of greater than 12.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

No analytes were detected above the reporting limit in the associated blanks.

3. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995.

All continuing calibration verification standard recoveries were within the control limit.

4. MS/MSD Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit a RPD within the laboratory established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations were the compound's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited recoveries and RPD results within the control limit.

5. LCS Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LSC analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

The laboratory duplicate sample results exhibited RPD within the control limit.

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method.

Field duplicates were not performed within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist

Data Validation Checklist

	YES	NO	NA
Data Completeness and Deliverables			
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?		X	
Raw Data			
Are the preparation logs present?	X		
Are preparation dates present on sample preparation logs/bench sheets?	X		
Are the measurement read out records present?	X		
Is the data legible?	X		
Is the data properly labeled?	X		
Are pH values listed?	X		
Percent solids calculation present for soils/sediments?			X
Holding Times			
Were all analyses performed within the specified holding times?	X		
Sample Data			
Are all forms complete?	X		
Are correct units indicated the results sheets?	X		
Are soil sample results for each parameter corrected for percent solids?	X		
Initial Calibration			
Is a record of an initial calibration present?:	X		
Is correlation coefficient less than .995?:	X		
Initial and Continuing Calibration Verification			
Present and complete for all analytes?	X		
Are all calibration standards (initial and continuing) within control limits?:	X		
Was continuing calibration performed every 10 samples or every 2 hours?	X		
Was the ICV for cyanides distilled?			X
Initial and Continuing Calibration Blanks			
Present and complete?	X		
Was an initial calibration blank analyzed?	X		
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	X		
Are all calibration blanks less than or equal to the RL?	X		
Preparation Blank			
Was one prep. blank analyzed for:			
each batch of digested samples?	X		

	YES	NO	NA
each matrix type?	X		
Are all preparation blanks less than the RL?	X		
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?			X
Matrix Spike			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Was field blank used for spiked sample?		X	
Are all recoveries for analytes with sample concentrations less than four times the spike concentration within control limits?	X		
Are results outside the control limits (75-125%) flagged with "N"?			X
Laboratory Duplicates			
Present and complete for:			
each batch?	X		
each matrix type?	X		
Was field blank used for duplicate analysis?		X	
Are all values within control limits?	X		
If no, are all results outside the control limits flagged with an * ?			X
Field Duplicates			
Were field duplicates analyzed?		X	
Aqueous			
is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5 times RL?			X
Is any difference between sample and duplicate greater than RL where sample and/or duplicate is less than 5 times RL?			X
Soil/Sediment			
Is any RPD (where sample and duplicate are both greater than 5 times RL) > 100%?			X
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5x RL) >2xRL?			X
Laboratory Control Sample			
Was one LCS prepared and analyzed for:			
each matrix?	X		
each batch?	X		
Are all recoveries within control limits?	X		
Field Blank			
Is the field blank concentration less than RL for all analytes?			X
If no, was field blank value already rejected due to other QC criteria?			X

	YES	NO	NA
Percent Solids			
Are the percent solids in soil/sediment(s):			
< 50%?	____	X	____
< 10%?	____	X	____

Corrected Sample Analysis Data Sheets

Laboratory Narrative

NYSDEC Sample Identification and Analysis Summary Sheets

Sample Compliance Report

SAMPLE COMPLIANCE REPORT

Sample Delivery Group	Sampling Date	ASP Protocol	Sample ID	Matrix	Compliancy[1]					Noncompliance
					VOC	SVOC	PCB	MET	MISC	
K008	12/5/2005	2000	SB-4-10-12	Soil	no	no	--	--	yes	VOC – Associated Blank, ICAL %RSD, CCAL %D SVOC – ICAL %RSD, LCS %R
K008	12/5/2005	2000	SB-4-18-20	Soil	no	no	--	--	yes	VOC – ICAL %RSD SVOC – ICAL %RSD, LCS %R
K008	12/5/2005	2000	SB-8-6-8	Soil	no	no	--	--	yes	VOC – Associated Blank, ICAL %RSD, CCAL %D SVOC – ICAL %RSD, LCS %R
K008	12/5/2005	2000	SB-8-14-16	Soil	no	no	--	--	yes	VOC – ICAL %RSD SVOC – ICAL %RSD, LCS %R
K008	12/6/2005	2000	SB-3-10.0-11.8	Soil	no	no	--	--	yes	VOC – ICAL %RSD, CCAL %D SVOC – ICAL %RSD, LCS %R
K008	12/6/2005	2000	SB-1-4.0-6.5	Soil	no	no	--	--	yes	VOC – ICAL %RSD, CCAL %D SVOC – ICAL %RSD, LCS %R

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

Client ID: SB-4-10-12
Site: NYSEG-GENEVA

Lab Sample No: 692410
Lab Job No: K008

Date Sampled: 12/05/05
Date Received: 12/07/05
Date Analyzed: 12/10/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51063.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.3 g
Purge Volume: 5.0 ml
% Moisture: 23

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	6.2
Bromomethane	ND	6.2
Vinyl Chloride	ND	6.2
Chloroethane	ND	6.2
Methylene Chloride	ND	3.7
Acetone	ND(26)~~B~~ J	~~6.2~~ 26.0
Carbon Disulfide	ND J	6.2
1,1-Dichloroethene	ND J	2.5
1,1-Dichloroethane	ND	6.2
trans-1,2-Dichloroethene	ND	6.2
cis-1,2-Dichloroethene	ND	6.2
Chloroform	ND	6.2
1,2-Dichloroethane	ND	2.5
2-Butanone	ND J	6.2
1,1,1-Trichloroethane	ND	6.2
Carbon Tetrachloride	ND	2.5
Bromodichloromethane	ND	1.2
1,2-Dichloropropane	ND J	1.2
cis-1,3-Dichloropropene	ND	6.2
Trichloroethene	ND J	1.2
Dibromochloromethane	ND	6.2
1,1,2-Trichloroethane	ND	3.7
Benzene	2.0	1.2
trans-1,3-Dichloropropene	ND	6.2
Bromoform	ND	4.9
4-Methyl-2-Pentanone	ND J	6.2
2-Hexanone	ND J	6.2
Tetrachloroethene	ND	1.2
1,1,2,2-Tetrachloroethane	ND J	1.2
Toluene	1.2J	6.2
Chlorobenzene	ND	6.2
Ethylbenzene	ND	4.9
Styrene	ND	6.2
Xylene (Total)	ND	6.2

Client ID: **SB-4-10-12**
Site: NYSEG-GENEVA

Lab Sample No: **692410**
Lab Job No: K008

Date Sampled: 12/05/05
Date Received: 12/07/05
Date Analyzed: 12/10/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51063.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.3 g
Purge Volume: 5.0 ml
% Moisture: 23

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND U	6.2

Client ID: SB-4-18-20
Site: NYSEG-GENEVA

Lab Sample No: 692411
Lab Job No: K008

Date Sampled: 12/05/05
Date Received: 12/07/05
Date Analyzed: 12/16/05
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d50891.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.1 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 21

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	620
Bromomethane	ND	620
Vinyl Chloride	ND	620
Chloroethane	ND	620
Methylene Chloride	ND J	370
Acetone	ND	620
Carbon Disulfide	ND	620
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND J	620
trans-1,2-Dichloroethene	ND	620
cis-1,2-Dichloroethene	ND	620
Chloroform	ND	620
1,2-Dichloroethane	ND	250
2-Butanone	ND	620
1,1,1-Trichloroethane	ND	620
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	620
Trichloroethene	ND	120
Dibromochloromethane	ND J	620
1,1,2-Trichloroethane	ND	370
Benzene	4500	120
trans-1,3-Dichloropropene	ND	620
Bromoform	ND J	500
4-Methyl-2-Pentanone	ND	620
2-Hexanone	ND J	620
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	620
Chlorobenzene	ND J	620
Ethylbenzene	330 J	500
Styrene	ND J	620
Xylene (Total)	190 J	620

Client ID: **SB-4-18-20**
Site: NYSEG-GENEVA

Lab Sample No: **692411**
Lab Job No: K008

Date Sampled: 12/05/05
Date Received: 12/07/05
Date Analyzed: 12/16/05
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d50891.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.1 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 21

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND	620

Client ID: SB-8-6-8
Site: NYSEG-GENEVA

Lab Sample No: 692412
Lab Job No: K008

Date Sampled: 12/05/05
Date Received: 12/07/05
Date Analyzed: 12/10/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51064.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 18

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	6.1
Bromomethane	ND	6.1
Vinyl Chloride	ND	6.1
Chloroethane	ND	6.1
Methylene Chloride	ND	3.6
Acetone	ND(61) J	~~6.1~~ 61.0
Carbon Disulfide	ND J	6.1
1,1-Dichloroethene	ND J	2.4
1,1-Dichloroethane	ND	6.1
trans-1,2-Dichloroethene	ND	6.1
cis-1,2-Dichloroethene	ND	6.1
Chloroform	ND	6.1
1,2-Dichloroethane	ND	2.4
2-Butanone	ND J	6.1
1,1,1-Trichloroethane	ND	6.1
Carbon Tetrachloride	ND	2.4
Bromodichloromethane	ND	1.2
1,2-Dichloropropane	ND J	1.2
cis-1,3-Dichloropropene	ND	6.1
Trichloroethene	ND J	1.2
Dibromochloromethane	ND	6.1
1,1,2-Trichloroethane	ND	3.6
Benzene	ND	1.2
trans-1,3-Dichloropropene	ND	6.1
Bromoform	ND	4.8
4-Methyl-2-Pentanone	ND J	6.1
2-Hexanone	ND J	6.1
Tetrachloroethene	ND	1.2
1,1,2,2-Tetrachloroethane	ND J	1.2
Toluene	ND	6.1
Chlorobenzene	ND	6.1
Ethylbenzene	ND	4.8
Styrene	ND	6.1
Xylene (Total)	ND	6.1

Client ID: **SB-8-6-8**
Site: NYSEG-GENEVA

Lab Sample No: **692412**
Lab Job No: K008

Date Sampled: 12/05/05
Date Received: 12/07/05
Date Analyzed: 12/10/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51064.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 18

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND J	6.1

Client ID: **SB-8-14-16**
Site: NYSEG-GENEVA

Lab Sample No: **692413**
Lab Job No: K008

Date Sampled: 12/05/05
Date Received: 12/07/05
Date Analyzed: 12/16/05
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d50892.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.1 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 24

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	640
Bromomethane	ND	640
Vinyl Chloride	ND	640
Chloroethane	ND	640
Methylene Chloride	ND J	380
Acetone	ND	640
Carbon Disulfide	ND	640
1,1-Dichloroethene	ND	260
1,1-Dichloroethane	ND J	640
trans-1,2-Dichloroethene	ND	640
cis-1,2-Dichloroethene	ND	640
Chloroform	ND	640
1,2-Dichloroethane	ND	260
2-Butanone	ND	640
1,1,1-Trichloroethane	ND	640
Carbon Tetrachloride	ND	260
Bromodichloromethane	ND	130
1,2-Dichloropropane	ND	130
cis-1,3-Dichloropropene	ND	640
Trichloroethene	ND	130
Dibromochloromethane	ND J	640
1,1,2-Trichloroethane	ND	380
Benzene	600	130
trans-1,3-Dichloropropene	ND	640
Bromoform	ND J	510
4-Methyl-2-Pentanone	ND	640
2-Hexanone	ND J	640
Tetrachloroethene	ND	130
1,1,2,2-Tetrachloroethane	ND	130
Toluene	ND	640
Chlorobenzene	ND J	640
Ethylbenzene	3600	510
Styrene	ND J	640
Xylene (Total)	4800 J	640

Client ID: **SB-8-14-16**
Site: NYSEG-GENEVA

Lab Sample No: **692413**
Lab Job No: K008

Date Sampled: 12/05/05
Date Received: 12/07/05
Date Analyzed: 12/16/05
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d50892.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.1 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 24

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND	640

Client ID: **SB-3-10-0-11-8**
Site: NYSEG-GENEVA

Lab Sample No: **692414**
Lab Job No: K008

Date Sampled: 12/06/05
Date Received: 12/07/05
Date Analyzed: 12/10/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51065.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 18

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	6.0
Bromomethane	ND	6.0
Vinyl Chloride	ND	6.0
Chloroethane	ND	6.0
Methylene Chloride	ND	3.6
Acetone	ND J	6.0
Carbon Disulfide	ND J	6.0
1,1-Dichloroethene	ND J	2.4
1,1-Dichloroethane	ND	6.0
trans-1,2-Dichloroethene	ND	6.0
cis-1,2-Dichloroethene	ND	6.0
Chloroform	ND	6.0
1,2-Dichloroethane	ND	2.4
2-Butanone	ND J	6.0
1,1,1-Trichloroethane	ND	6.0
Carbon Tetrachloride	ND	2.4
Bromodichloromethane	ND	1.2
1,2-Dichloropropane	ND J	1.2
cis-1,3-Dichloropropene	ND	6.0
Trichloroethene	ND J	1.2
Dibromochloromethane	ND	6.0
1,1,2-Trichloroethane	ND	3.6
Benzene	1.7	1.2
trans-1,3-Dichloropropene	ND	6.0
Bromoform	ND	4.8
4-Methyl-2-Pentanone	ND J	6.0
2-Hexanone	ND J	6.0
Tetrachloroethene	ND	1.2
1,1,2,2-Tetrachloroethane	ND J	1.2
Toluene	1.5J	6.0
Chlorobenzene	ND	6.0
Ethylbenzene	ND	4.8
Styrene	ND	6.0
Xylene (Total)	1.6J	6.0

Client ID: **SB-3-10-0-11-8**
Site: NYSEG-GENEVA

Lab Sample No: **692414**
Lab Job No: K008

Date Sampled: 12/06/05
Date Received: 12/07/05
Date Analyzed: 12/10/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51065.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 18

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND J	6.0

Client ID: **SB-1-4-0-6-5**
Site: NYSEG-GENEVA

Lab Sample No: **692415**
Lab Job No: K008

Date Sampled: 12/06/05
Date Received: 12/07/05
Date Analyzed: 12/10/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51066.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 17

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Chloromethane	ND	6.0
Bromomethane	ND	6.0
Vinyl Chloride	ND	6.0
Chloroethane	ND	6.0
Methylene Chloride	ND	3.6
Acetone	ND J	6.0
Carbon Disulfide	2.0J	6.0
1,1-Dichloroethene	ND J	2.4
1,1-Dichloroethane	ND	6.0
trans-1,2-Dichloroethene	ND	6.0
cis-1,2-Dichloroethene	ND	6.0
Chloroform	ND	6.0
1,2-Dichloroethane	ND	2.4
2-Butanone	ND J	6.0
1,1,1-Trichloroethane	ND	6.0
Carbon Tetrachloride	ND	2.4
Bromodichloromethane	ND	1.2
1,2-Dichloropropane	ND J	1.2
cis-1,3-Dichloropropene	ND	6.0
Trichloroethene	ND J	1.2
Dibromochloromethane	ND	6.0
1,1,2-Trichloroethane	ND	3.6
Benzene	2.2	1.2
trans-1,3-Dichloropropene	ND	6.0
Bromoform	ND	4.8
4-Methyl-2-Pentanone	ND J	6.0
2-Hexanone	ND J	6.0
Tetrachloroethene	ND	1.2
1,1,2,2-Tetrachloroethane	ND J	1.2
Toluene	3.4J	6.0
Chlorobenzene	ND	6.0
Ethylbenzene	ND	4.8
Styrene	ND	6.0
Xylene (Total)	3.1J	6.0

Client ID: **SB-1-4-0-6-5**
Site: NYSEG-GENEVA

Lab Sample No: **692415**
Lab Job No: K008

Date Sampled: 12/06/05
Date Received: 12/07/05
Date Analyzed: 12/10/05
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k51066.d

Matrix: SOIL
Level: LOW
Sample Weight: 5.0 g
Purge Volume: 5.0 ml
% Moisture: 17

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
MTBE	ND J	6.0

Client ID: SB-4-10-12
Site: NYSEG-GENEVA

Lab Sample No: 692410
Lab Job No: K008

Date Sampled: 12/05/05
Date Received: 12/07/05
Date Extracted: 12/10/05
Date Analyzed: 12/21/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r26022.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 23

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND J	43
1,3-Dichlorobenzene	ND	430
1,4-Dichlorobenzene	ND	430
1,2-Dichlorobenzene	ND	430
bis(2-chloroisopropyl)ether	ND	430
N-Nitroso-di-n-propylamine	ND	43
Hexachloroethane	ND	43
Nitrobenzene	ND J	43
Isophorone	ND	430
bis(2-Chloroethoxy)methane	ND	430
1,2,4-Trichlorobenzene	ND	43
Naphthalene	ND	430
4-Chloroaniline	ND J	430
Hexachlorobutadiene	ND	86
2-Methylnaphthalene	ND	430
Hexachlorocyclopentadiene	ND J	430
2-Chloronaphthalene	ND	430
2-Nitroaniline	ND	860
Dimethylphthalate	ND	430
Acenaphthylene	ND	430
2,6-Dinitrotoluene	ND	86
3-Nitroaniline	ND	860
Acenaphthene	ND	430
Dibenzofuran	ND	430
2,4-Dinitrotoluene	ND	86
Diethylphthalate	ND	430
4-Chlorophenyl-phenylether	ND	430
Fluorene	ND	430
4-Nitroaniline	ND	860
N-Nitrosodiphenylamine	ND	430
4-Bromophenyl-phenylether	ND	430
Hexachlorobenzene	ND	43
Phenanthrene	ND	430
Anthracene	ND	430

Client ID: SB-4-10-12
Site: NYSEG-GENEVA

Lab Sample No: 692410
Lab Job No: K008

Date Sampled: 12/05/05
Date Received: 12/07/05
Date Extracted: 12/10/05
Date Analyzed: 12/21/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r26022.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 23

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	430
Di-n-butylphthalate	ND	430
Fluoranthene	ND	430
Pyrene	ND	430
Butylbenzylphthalate	ND	430
3,3'-Dichlorobenzidine	ND	860
Benzo(a)anthracene	ND	43
Chrysene	ND	430
bis(2-Ethylhexyl)phthalate	ND	430
Di-n-octylphthalate	ND	430
Benzo(b)fluoranthene	ND	43
Benzo(k)fluoranthene	ND	43
Benzo(a)pyrene	ND	43
Indeno(1,2,3-cd)pyrene	ND	43
Dibenz(a,h)anthracene	ND	43
Benzo(g,h,i)perylene	ND	430

Client ID: SB-4-18-20
Site: NYSEG-GENEVA

Lab Sample No: 692411
Lab Job No: K008

Date Sampled: 12/05/05
Date Received: 12/07/05
Date Extracted: 12/10/05
Date Analyzed: 12/20/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r26011.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 21

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND UJ	42
1,3-Dichlorobenzene	ND	420
1,4-Dichlorobenzene	ND	420
1,2-Dichlorobenzene	ND	420
bis(2-chloroisopropyl)ether	ND	420
N-Nitroso-di-n-propylamine	ND	42
Hexachloroethane	ND	42
Nitrobenzene	ND UJ	42
Isophorone	ND	420
bis(2-Chloroethoxy)methane	ND	420
1,2,4-Trichlorobenzene	ND	42
Naphthalene	56 J	420
4-Chloroaniline	ND UJ	420
Hexachlorobutadiene	ND	85
2-Methylnaphthalene	ND	420
Hexachlorocyclopentadiene	ND UJ	420
2-Chloronaphthalene	ND	420
2-Nitroaniline	ND	850
Dimethylphthalate	ND	420
Acenaphthylene	ND	420
2,6-Dinitrotoluene	ND	85
3-Nitroaniline	ND	850
Acenaphthene	ND	420
Dibenzofuran	ND	420
2,4-Dinitrotoluene	ND	85
Diethylphthalate	ND	420
4-Chlorophenyl-phenylether	ND	420
Fluorene	ND	420
4-Nitroaniline	ND	850
N-Nitrosodiphenylamine	ND	420
4-Bromophenyl-phenylether	ND	420
Hexachlorobenzene	ND	42
Phenanthrene	ND	420
Anthracene	ND	420

Client ID: **SB-4-18-20**
Site: NYSEG-GENEVA

Lab Sample No: **692411**
Lab Job No: K008

Date Sampled: 12/05/05
Date Received: 12/07/05
Date Extracted: 12/10/05
Date Analyzed: 12/20/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r26011.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 21

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	420
Di-n-butylphthalate	ND	420
Fluoranthene	ND	420
Pyrene	ND	420
Butylbenzylphthalate	ND	420
3,3'-Dichlorobenzidine	ND	850
Benzo(a)anthracene	ND	42
Chrysene	ND	420
bis(2-Ethylhexyl)phthalate	100 J	420
Di-n-octylphthalate	ND	420
Benzo(b)fluoranthene	ND	42
Benzo(k)fluoranthene	ND	42
Benzo(a)pyrene	ND	42
Indeno(1,2,3-cd)pyrene	ND	42
Dibenz(a,h)anthracene	ND	42
Benzo(g,h,i)perylene	ND	420

Client ID: SB-8-6-8
Site: NYSEG-GENEVA

Lab Sample No: 692412
Lab Job No: K008

Date Sampled: 12/05/05
Date Received: 12/07/05
Date Extracted: 12/10/05
Date Analyzed: 12/21/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r26017.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 18

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND J	41
1,3-Dichlorobenzene	ND	410
1,4-Dichlorobenzene	ND	410
1,2-Dichlorobenzene	ND	410
bis(2-chloroisopropyl)ether	ND	410
N-Nitroso-di-n-propylamine	ND	41
Hexachloroethane	ND	41
Nitrobenzene	ND J	41
Isophorone	ND	410
bis(2-Chloroethoxy)methane	ND	410
1,2,4-Trichlorobenzene	ND	41
Naphthalene	13 J	410
4-Chloroaniline	ND J	410
Hexachlorobutadiene	ND	82
2-Methylnaphthalene	ND	410
Hexachlorocyclopentadiene	ND J	410
2-Chloronaphthalene	ND	410
2-Nitroaniline	ND	820
Dimethylphthalate	ND	410
Acenaphthylene	8.6J	410
2,6-Dinitrotoluene	ND	82
3-Nitroaniline	ND	820
Acenaphthene	14 J	410
Dibenzofuran	10 J	410
2,4-Dinitrotoluene	ND	82
Diethylphthalate	ND	410
4-Chlorophenyl-phenylether	ND	410
Fluorene	18 J	410
4-Nitroaniline	ND	820
N-Nitrosodiphenylamine	ND	410
4-Bromophenyl-phenylether	ND	410
Hexachlorobenzene	ND	41
Phenanthrene	120 J	410
Anthracene	32 J	410

Client ID: SB-8-6-8
Site: NYSEG-GENEVA

Lab Sample No: 692412
Lab Job No: K008

Date Sampled: 12/05/05
Date Received: 12/07/05
Date Extracted: 12/10/05
Date Analyzed: 12/21/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r26017.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 18

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	410
Di-n-butylphthalate	ND	410
Fluoranthene	150 J	410
Pyrene	150 J	410
Butylbenzylphthalate	ND	410
3,3'-Dichlorobenzidine	ND	820
Benzo(a)anthracene	76	41
Chrysene	95 J	410
bis(2-Ethylhexyl)phthalate	230 J	410
Di-n-octylphthalate	ND	410
Benzo(b)fluoranthene	60	41
Benzo(k)fluoranthene	72	41
Benzo(a)pyrene	79	41
Indeno(1,2,3-cd)pyrene	32 J	41
Dibenz(a,h)anthracene	ND	41
Benzo(g,h,i)perylene	37 J	410

Client ID: SB-8-14-16
Site: NYSEG-GENEVA

Lab Sample No: 692413
Lab Job No: K008

Date Sampled: 12/05/05
Date Received: 12/07/05
Date Extracted: 12/10/05
Date Analyzed: 12/21/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r26012.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 24

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND J	44
1,3-Dichlorobenzene	ND	440
1,4-Dichlorobenzene	ND	440
1,2-Dichlorobenzene	ND	440
bis(2-chloroisopropyl)ether	ND	440
N-Nitroso-di-n-propylamine	ND	44
Hexachloroethane	ND	44
Nitrobenzene	ND J	44
Isophorone	ND	440
bis(2-Chloroethoxy)methane	ND	440
1,2,4-Trichlorobenzene	ND	44
Naphthalene	7200	440
4-Chloroaniline	ND J	440
Hexachlorobutadiene	ND	87
2-Methylnaphthalene	120 J	440
Hexachlorocyclopentadiene	ND J	440
2-Chloronaphthalene	ND	440
2-Nitroaniline	ND	870
Dimethylphthalate	ND	440
Acenaphthylene	ND	440
2,6-Dinitrotoluene	ND	87
3-Nitroaniline	ND	870
Acenaphthene	36 J	440
Dibenzofuran	21 J	440
2,4-Dinitrotoluene	ND	87
Diethylphthalate	ND	440
4-Chlorophenyl-phenylether	ND	440
Fluorene	28 J	440
4-Nitroaniline	ND	870
N-Nitrosodiphenylamine	ND	440
4-Bromophenyl-phenylether	ND	440
Hexachlorobenzene	ND	44
Phenanthrene	32 J	440
Anthracene	8.8J	440

Client ID: SB-8-14-16
Site: NYSEG-GENEVA

Lab Sample No: 692413
Lab Job No: K008

Date Sampled: 12/05/05
Date Received: 12/07/05
Date Extracted: 12/10/05
Date Analyzed: 12/21/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r26012.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 24

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	16 J	440
Di-n-butylphthalate	ND	440
Fluoranthene	23 J	440
Pyrene	17 J	440
Butylbenzylphthalate	ND	440
3,3'-Dichlorobenzidine	ND	870
Benzo(a)anthracene	10 J	44
Chrysene	15 J	440
bis(2-Ethylhexyl)phthalate	ND	440
Di-n-octylphthalate	ND	440
Benzo(b)fluoranthene	ND	44
Benzo(k)fluoranthene	ND	44
Benzo(a)pyrene	ND	44
Indeno(1,2,3-cd)pyrene	ND	44
Dibenz(a,h)anthracene	ND	44
Benzo(g,h,i)perylene	ND	440

Client ID: SB-3-10-0-11-8
Site: NYSEG-GENEVA

Lab Sample No: 692414
Lab Job No: K008

Date Sampled: 12/06/05
Date Received: 12/07/05
Date Extracted: 12/10/05
Date Analyzed: 12/21/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r26013.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 18

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND UJ	40
1,3-Dichlorobenzene	ND	400
1,4-Dichlorobenzene	ND	400
1,2-Dichlorobenzene	ND	400
bis(2-chloroisopropyl)ether	ND	400
N-Nitroso-di-n-propylamine	ND	40
Hexachloroethane	ND	40
Nitrobenzene	ND UJ	40
Isophorone	ND	400
bis(2-Chloroethoxy)methane	ND	400
1,2,4-Trichlorobenzene	ND	40
Naphthalene	ND	400
4-Chloroaniline	ND UJ	400
Hexachlorobutadiene	ND	81
2-Methylnaphthalene	ND	400
Hexachlorocyclopentadiene	ND UJ	400
2-Chloronaphthalene	ND	400
2-Nitroaniline	ND	810
Dimethylphthalate	ND	400
Acenaphthylene	ND	400
2,6-Dinitrotoluene	ND	81
3-Nitroaniline	ND	810
Acenaphthene	ND	400
Dibenzofuran	ND	400
2,4-Dinitrotoluene	ND	81
Diethylphthalate	ND	400
4-Chlorophenyl-phenylether	ND	400
Fluorene	ND	400
4-Nitroaniline	ND	810
N-Nitrosodiphenylamine	ND	400
4-Bromophenyl-phenylether	ND	400
Hexachlorobenzene	ND	40
Phenanthrene	29 J	400
Anthracene	ND	400

Client ID: SB-3-10-0-11-8
Site: NYSEG-GENEVA

Lab Sample No: 692414
Lab Job No: K008

Date Sampled: 12/06/05
Date Received: 12/07/05
Date Extracted: 12/10/05
Date Analyzed: 12/21/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r26013.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 18

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	400
Di-n-butylphthalate	ND	400
Fluoranthene	42 J	400
Pyrene	32 J	400
Butylbenzylphthalate	ND	400
3,3'-Dichlorobenzidine	ND	810
Benzo(a)anthracene	18 J	40
Chrysene	18 J	400
bis(2-Ethylhexyl)phthalate	ND	400
Di-n-octylphthalate	ND	400
Benzo(b)fluoranthene	11 J	40
Benzo(k)fluoranthene	20 J	40
Benzo(a)pyrene	17 J	40
Indeno(1,2,3-cd)pyrene	ND	40
Dibenz(a,h)anthracene	ND	40
Benzo(g,h,i)perylene	ND	400

Client ID: SB-1-4-0-6-5
Site: NYSEG-GENEVA

Lab Sample No: 692415
Lab Job No: K008

Date Sampled: 12/06/05
Date Received: 12/07/05
Date Extracted: 12/10/05
Date Analyzed: 12/21/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r26016.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 17

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
bis(2-Chloroethyl)ether	ND J	40
1,3-Dichlorobenzene	ND	400
1,4-Dichlorobenzene	ND	400
1,2-Dichlorobenzene	ND	400
bis(2-chloroisopropyl)ether	ND	400
N-Nitroso-di-n-propylamine	ND	40
Hexachloroethane	ND	40
Nitrobenzene	ND J	40
Isophorone	ND	400
bis(2-Chloroethoxy)methane	ND	400
1,2,4-Trichlorobenzene	ND	40
Naphthalene	17 J	400
4-Chloroaniline	ND J	400
Hexachlorobutadiene	ND	80
2-Methylnaphthalene	ND	400
Hexachlorocyclopentadiene	ND J	400
2-Chloronaphthalene	ND	400
2-Nitroaniline	ND	800
Dimethylphthalate	ND	400
Acenaphthylene	30 J	400
2,6-Dinitrotoluene	ND	80
3-Nitroaniline	ND	800
Acenaphthene	ND	400
Dibenzofuran	ND	400
2,4-Dinitrotoluene	ND	80
Diethylphthalate	ND	400
4-Chlorophenyl-phenylether	ND	400
Fluorene	ND	400
4-Nitroaniline	ND	800
N-Nitrosodiphenylamine	ND	400
4-Bromophenyl-phenylether	ND	400
Hexachlorobenzene	ND	40
Phenanthrene	64 J	400
Anthracene	28 J	400

Client ID: SB-1-4-0-6-5
Site: NYSEG-GENEVA

Lab Sample No: 692415
Lab Job No: K008

Date Sampled: 12/06/05
Date Received: 12/07/05
Date Extracted: 12/10/05
Date Analyzed: 12/21/05
GC Column: DB-5
Instrument ID: BNAMS1.i
Lab File ID: r26016.d

Matrix: SOIL
Level: LOW
Sample Weight: 15.0 g
Extract Final Volume: 1.0 ml
Dilution Factor: 1.0
% Moisture: 17

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Carbazole	ND	400
Di-n-butylphthalate	ND	400
Fluoranthene	200 J	400
Pyrene	190 J	400
Butylbenzylphthalate	ND	400
3,3'-Dichlorobenzidine	ND	800
Benzo(a)anthracene	130	40
Chrysene	140 J	400
bis(2-Ethylhexyl)phthalate	ND	400
Di-n-octylphthalate	ND	400
Benzo(b)fluoranthene	98	40
Benzo(k)fluoranthene	150	40
Benzo(a)pyrene	140	40
Indeno(1,2,3-cd)pyrene	85	40
Dibenz(a,h)anthracene	30 J	40
Benzo(g,h,i)perylene	91 J	400

Site: NYSEG-GENEVA
Matrix: SOIL

Lab Job No: K008
QA Batch: 1943

Total Cyanide

STL Edison Sample #	Client ID	Date Sampled	Date Extracted	Date Analyzed	Percent Moisture	Dilution Factor	Analytical Result Units: mg/kg
692410	SB-4-10-12	12/05/05	12/12/05	12/13/05	22.8	1.0	ND
692411	SB-4-18-20	12/05/05	12/12/05	12/13/05	21.3	1.0	ND
692412	SB-8-6-8	12/05/05	12/12/05	12/13/05	18.4	1.0	ND
692413	SB-8-14-16	12/05/05	12/12/05	12/13/05	23.7	1.0	0.87
692414	SB-3-10-0-11-8	12/06/05	12/12/05	12/13/05	17.8	1.0	ND
692415	SB-1-4-0-6-5	12/06/05	12/12/05	12/13/05	16.8	1.0	1.4

Quantitation Limit for Total Cyanide is 0.5 mg/kg.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE (VOA)
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
692410	SOLID	12/5/05	12/7/05		12/10/05
692411	SOLID	12/5/05	12/7/05		12/16/05
692411MS	SOLID	12/5/05	12/7/05		12/16/05
692411SD	SOLID	12/5/05	12/7/05		12/16/05
692412	SOLID	12/5/05	12/7/05		12/10/05
692413	SOLID	12/5/05	12/7/05		12/16/05
692414	SOLID	12/6/05	12/7/05		12/10/05
692415	SOLID	12/6/05	12/7/05		12/10/05

10/95

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
SEMIVOLATILE (BNA)
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
692410	SOLID	12/5/05	12/7/05	12/10/05	12/21/05
692411	SOLID	12/5/05	12/7/05	12/10/05	12/20/05
692412	SOLID	12/5/05	12/7/05	12/10/05	12/21/05
692413	SOLID	12/5/05	12/7/05	12/10/05	12/21/05
692414	SOLID	12/6/05	12/7/05	12/10/05	12/21/05
692414MS	SOLID	12/6/05	12/7/05	12/10/05	12/21/05
692414SD	SOLID	12/6/05	12/7/05	12/10/05	12/21/05
692415	SOLID	12/6/05	12/7/05	12/10/05	12/21/05

10/95

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
SEMIVOLATILE (BNA)
ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
692410	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
692411	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
692412	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
692413	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
692414	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
692414MS	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
692414SD	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00
692415	SOLID	1989 NYSDEC ASP - Revision 10/95	Liquid-Liquid		1.00

10/95

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Parameters	Date Rec'd at Lab	Date Analyzed
692410	SOLID	% SOLIDS	12/7/05	12/8/05
692410	SOLID	TOTAL CYANIDE	12/7/05	12/13/05
692411	SOLID	% SOLIDS	12/7/05	12/8/05
692411	SOLID	TOTAL CYANIDE	12/7/05	12/13/05
692412	SOLID	% SOLIDS	12/7/05	12/8/05
692412	SOLID	TOTAL CYANIDE	12/7/05	12/13/05
692413	SOLID	% SOLIDS	12/7/05	12/8/05
692413	SOLID	TOTAL CYANIDE	12/7/05	12/13/05
692414	SOLID	% SOLIDS	12/7/05	12/8/05
692414	SOLID	TOTAL CYANIDE	12/7/05	12/13/05
692415	SOLID	% SOLIDS	12/7/05	12/8/05
692415	SOLID	TOTAL CYANIDE	12/7/05	12/13/05

10/95

SEVERN TRENT STL

SDG NARRATIVE

STL EDISON

SDG No. K008

STL Edison Sample	Client ID
692410	SB-4-10-12
692411	SB-4-18-20
692411MS	SB-4-18-20MS
692411SD	SB-4-18-20MSD
692412	SB-8-6-8
692413	SB-8-14-16
692414	SB-3-10-0-11-8
692414MS	SB-3-10-0-11-8MS
692414SD	SB-3-10-0-11-8MSD
692415	SB-1-4-0-6-5

Sample Receipt:

Sample delivery conforms with requirements.

Volatile Organic Analysis (GC/MS):

Soil blank KV344 contains 6.0 ppb of Acetone. Sample results are flagged with a B qualifier.

Base/Neutral and/or Acid Extractable Organics (GC/MS):

All data conforms with method requirements.

Wet Chemistry \ Microbiology:

All data conforms with method requirements.

I certify that this data package is in compliance with the protocols in NYSDEC ASP B both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this package has been authorized by the Laboratory Manager or his designee

Michael J. Urban

Michael J.Urban
Laboratory Manager