DATA REVIEW FOR

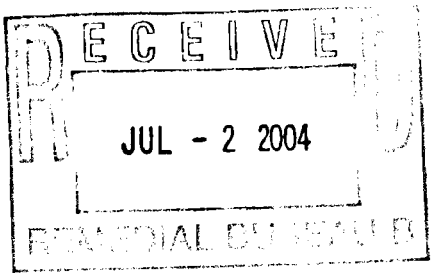
MCKESSON - BEAR STREET SITE

SDG# BEL0330

VOLATILE AND
SEMIVOLATILE ANALYSES

Analyses performed by:

Buck Environmental Laboratories, Inc.
Cortland, New York



Review performed by:

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

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

Summary

The following is an assessment of the data package for SDG # BEL0330 for sampling at the McKesson - Bear Street 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 Method		
				8260[1]	8015[2]	8270[3]
DUP-1	0310258-08A	water	10/28/03	x	x	x
MW-01	0310258-05A	water	10/28/03	x	x	x
MW-9S	0310258-06A	water	10/28/03	x	x	x
MW-3S	0310258-01A	water	10/28/03	x	x	x
MW-32	0310258-03A	water	10/28/03	x	x	x
MW-33	0310258-04A	water	10/28/03	x	x	x
MW-34	0310258-02A	water	10/29/03	x	x	
MW-35	0310271-01B	water	10/29/03	x	x	x
MW-36	0310271-03B	water	10/29/03	x	x	x
TB-1	0310258-07A	water	10/29/03	x	x	
TB-2	0310271-07A	water	10/28/03	x	x	
TW-01	0310258-02A	water	10/28/03	x	x	x
TW-02R	0310271-04B	water	10/29/03	x	x	x

1 compounds include: methylene chloride, acetone, trichloroethene, benzene, toluene, ethylbenzene, and xylenes
2 compounds include: methanol
3 compounds include: aniline and N,N'-dimethylaniline

VOLATILE ANALYSES

METHOD 8260

Introduction

Analyses were performed according to USEPA method 8260 as referenced in the NYSDEC ASP.

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 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.

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 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 test, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding time for volatile analyses under the Quality Assurance Project Plan (QAPP) is 7 days from sample receipt. The technical holding time is 14 days from sample collection to analysis.

All samples were analyzed within the technical holding time.

2. Blank Contamination

Quality assurance blanks (i.e., method, trip, field, or 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. Field and rinse blanks measure contamination of samples during field operations.

No compounds were detected in the method blanks or trip blanks.

3. Mass Spectrometer Tuning

Mass spectrometer performance was 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 various percent relative standard deviation (%RSD) limits for select compounds and allows two outliers. A technical review of the data applies a RSD limit of 30% to all compounds with no exceptions.

The %RSD were less than 30% and the response factors were greater than 0.05 for all compounds.

4.2 Continuing Calibration

All continuing calibration standards were within 25% difference (%D) of the initial calibration.

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.

Two surrogate recoveries for sample MW-3S were below control limits. The re-analysis of sample MW-3S yielded acceptable surrogate recoveries. The sample results from the re-analysis have been used to replace the original analysis of this sample. All other 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 experimental run.

All internal standard areas and retention times were within established limits.

7. Compound Identification

Target compounds are identified on the GC/MS by using the analyte's relative retention time and ion spectra.

The sample MW-36 contained acetone above the linear range. Sample results which were greater than the linear range have been replaced with the data from the dilution analysis. All other identified compounds met the specified criteria.

8. Matrix Spike/Matrix Spike Duplicate/Matrix Spike Blank

Matrix and matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method relative to the sample matrix. Matrix spike blank (MSB) data is used to assess the precision and accuracy of the analytical method independent of matrix interferences.

The MS recovery for toluene was below control limits and relative percent difference (RPD) between recoveries were outside control limits for benzene and toluene. Data for toluene have been qualified as estimated in associated sample TW-02R. All other MS/MSD and MSB recoveries and %RPD were within control limits.

9. Field Duplicates

Results for duplicate samples are summarized as follows:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-33/DUP-1	Acetone	22	31	34.0%
	Benzene	2 J	2 J	NA
	Ethylbenzene	ND	ND	NA
	Methylene Chloride	ND	ND	NA%
	Toluene	ND	ND	NA
	Trichloroethene	ND	ND	NA
	m,p-Xylene	ND	ND	NA
	o-Xylene	ND	ND	NA

ND Not detected.
NA Analyte not detected in sample and/or duplicate. RPD not applicable.

The field duplicate results are acceptable.

10. 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 listed in the analytical 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 the samples listed on the appropriate surrogate recovery form?	X		
Was one or more surrogate recoveries outside of specified limits for any sample or blank?	X		
If yes, were the samples reanalyzed?	X		
Matrix Spikes			
Is there a matrix spike recovery form present?	X		
Were matrix spikes analyzed at the required frequency?	X		
How many spike recoveries were outside of QC limits?			
1 out of 10			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
2 out of 5			
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 at least once every twelve hours for each system used?	X		
Do any method/reagent/instrument blanks have positive results?		X	
Are there trip/field/rinse/equipment blanks associated with every sample?	X		
Do any trip/field/rinse blanks have positive results?		X	

Volatile Organics Data Validation Checklist - Page 2

	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 twelve 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		
Is the RRT of each reported compound within 0.06 RRT units of the continuing calibration standard?	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 there associated "best match" spectra present?	X		
Are any target compounds listed as TICs?		X	
Are all ion present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?	X		

Volatile Organics Data Validation Checklist - Page 3

	YES	NO	NA
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		
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 specified limits?	X		
Are the average RRF equal to or greater than minimum requirements?	X		
Are there any transcription/calculation errors 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 twelve hours of analysis per instrument?	X		
All %D within acceptable limits?	X		
Are all RF equal to or greater than 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 and blank 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		

Volatile Qualifier Summary
Holding Time, Surrogates, Internal Standards

Sample ID	Holding Time*	Surrogates*				Internal Standards*		
		DCE	TOL	BFB	DBF	PFB	DFB	CBZ
DUP-1								
MW-01								
MW-9S								
MW-3S		↓	↓					
MW-32								
MW-33								
MW-34								
MW-35								
MW-36								
TB-1								
TB-2								
TW-1								

Surrogates:
TOL Toluene-d8
BFB Bromofluorobenzene
DBF Dibromofluoromethane
DCE 1,2-Dichloroethane-d4

Internal Standards:
PFB Pentafluorobenzene
DFB 1,4-Difluorobenzene
CBZ Chlorobenzene-d5

Qualifiers:
↑ Recovery high
↓ Recovery low

* Unless otherwise specified, all parameters are within acceptable limits.

Volatile Calibration Outliers

Instrument: MSD3
Matrix: water
Level: low

Date/Time	10/30/03		10/30/03 1825		10/31/03 1604		11/3/03 1030			
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
Methylene chloride										
Acetone										
Trichloroethene										
Benzene										
Toluene										
Ethylbenzene										
Xylene (total)										

Affected Samples:					

Corrected Sample Analysis Data Sheets

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-1

Lab Name: Buck Environmental Labs, Inc. Contract: BBL

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-08A

Sample wt/vol: 5 (g/mL) ML Lab File ID: \1701017.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: not dec. Date Analyzed: 10/31/03

GC Column: J&W,DB624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
67-64-1	Acetone	31	
71-43-2	Benzene	2	J
100-41-4	Ethylbenzene	5	U
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	U
79-01-6	Trichloroethene	5	U
1330-20-7	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-01

Lab Name: Buck Environmental Labs, Inc. Contract: BBL

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-05A

Sample wt/vol: 5 (g/mL) ML Lab File ID: \1401014.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: not dec. Date Analyzed: 10/31/03

GC Column: J&W,DB624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
67-64-1	Acetone	12	U
71-43-2	Benzene	5	U
100-41-4	Ethylbenzene	5	U
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	U
79-01-6	Trichloroethene	5	U
1330-20-7	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9S

Lab Name: Buck Environmental Labs, Inc. Contract: BBL

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-06A

Sample wt/vol: 5 (g/mL) ML Lab File ID: \1501015.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: not dec. Date Analyzed: 10/31/03

GC Column: J&W,DB624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
67-64-1	Acetone	12	U
71-43-2	Benzene	2	J
100-41-4	Ethylbenzene	5	
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	U
79-01-6	Trichloroethene	5	U
1330-20-7	m,p-Xylene	14	
95-47-6	o-Xylene	5	

1B A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-3S

Lab Name: Buck Environmental Labs, Inc. Contract: BBL

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-01A

Sample wt/vol: 5 (g/mL) ML Lab File ID: \1001010.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: not dec. Date Analyzed: 10/30/03

GC Column: J&W,DB624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
67-64-1	Acetone	12	U
71-43-2	Benzene	5	U
100-41-4	Ethylbenzene	5	U
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	U
79-01-6	Trichloroethene	5	U
1330-20-7	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-3S RA

Lab Name: Buck Environmental Labs, Inc. Contract: BBL

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-01A

Sample wt/vol: 5 (g/mL) ML Lab File ID: \1201012.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: not dec. Date Analyzed: 10/31/03

GC Column: J&W,DB624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
67-64-1	Acetone	12	U
71-43-2	Benzene	5	U
100-41-4	Ethylbenzene	5	U
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	U
79-01-6	Trichloroethene	5	U
1330-20-7	m,p-Xylene	10 ~~5~~	U
95-47-6	o-Xylene	5	U

BLA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-32

Lab Name: Buck Environmental Labs, Inc. Contract: BBL

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-03A

Sample wt/vol: 5 (g/mL) ML Lab File ID: \1201012.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: not dec. Date Analyzed: 10/30/03

GC Column: J&W,DB624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
67-64-1	Acetone	20	
71-43-2	Benzene	2	J
100-41-4	Ethylbenzene	5	U
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	U
79-01-6	Trichloroethene	5	U
1330-20-7	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-33

Lab Name: Buck Environmental Labs, Inc. Contract: BBL

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-04A

Sample wt/vol: 5 (g/mL) ML Lab File ID: \1301013.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: not dec. Date Analyzed: 10/31/03

GC Column: J&W,DB624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
67-64-1	Acetone	22	
71-43-2	Benzene	2	J
100-41-4	Ethylbenzene	5	U
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	U
79-01-6	Trichloroethene	5	U
1330-20-7	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-34

Lab Name: Buck Environmental Labs, Inc. Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310271-02B

Sample wt/vol: 5 (g/mL) ML Lab File ID: \0901009.D

Level: (low/med) LOW Date Received: 10/30/03

% Moisture: not dec. Date Analyzed: 10/31/03

GC Column: J&W,DB624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
67-64-1	Acetone	9	J
71-43-2	Benzene	5	U
100-41-4	Ethylbenzene	5	U
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	U
79-01-6	Trichloroethene	5	U
1330-20-7	m,p-Xylene	10 ~~5~~	U
95-47-6	o-Xylene	5	U

BLH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-35

Lab Name: Buck Environmental Labs, Inc. Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310271-01B

Sample wt/vol: 5 (g/mL) ML Lab File ID: \0801008.D

Level: (low/med) LOW Date Received: 10/30/03

% Moisture: not dec. Date Analyzed: 10/31/03

GC Column: J&W,DB624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
67-64-1	Acetone	5	J
71-43-2	Benzene	5	U
100-41-4	Ethylbenzene	5	U
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	U
79-01-6	Trichloroethene	5	U
1330-20-7	m,p-Xylene	10 ~~5~~	U
95-47-6	o-Xylene	5	U

BLH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-36

Lab Name: Buck Environmental Labs, Inc. Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310271-03B

Sample wt/vol: 5 (g/mL) ML Lab File ID: \1001010.D

Level: (low/med) LOW Date Received: 10/30/03

% Moisture: not dec. Date Analyzed: 10/31/03

GC Column: J&W,DB624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
67-64-1	Acetone	~~250~~ 580	D
71-43-2	Benzene	5	U
100-41-4	Ethylbenzene	5	U
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	U
79-01-6	Trichloroethene	5	U
1330-20-7	m,p-Xylene	10 ~~5~~	U
95-47-6	o-Xylene	5	U

BLH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-36DL

Lab Name: Buck Environmental Labs, Inc. Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310271-03B

Sample wt/vol: 5 (g/mL) ML Lab File ID: \0601006.D

Level: (low/med) LOW Date Received: 10/30/03

% Moisture: not dec. Date Analyzed: 11/03/03

GC Column: J&W,DB624 ID: .18 (mm) Dilution Factor: 10.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
67-64-1	Acetone	580	
71-43-2	Benzene	50	U
100-41-4	Ethylbenzene	50	U
75-09-2	Methylene chloride	50	U
108-88-3	Toluene	50	U
79-01-6	Trichloroethene	50	U
1330-20-7	m,p-Xylene	100	U
95-47-6	o-Xylene	50	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-1

Lab Name: Buck Environmental Labs, Inc. Contract: BBL

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-07A

Sample wt/vol: 5 (g/mL) ML Lab File ID: \1601016.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: not dec. Date Analyzed: 10/31/03

GC Column: J&W,DB624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
67-64-1	Acetone	12	U
71-43-2	Benzene	5	U
100-41-4	Ethylbenzene	5	U
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	U
79-01-6	Trichloroethene	5	U
1330-20-7	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-2

Lab Name: Buck Environmental Labs, Inc. Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310271-07A

Sample wt/vol: 5 (g/mL) ML Lab File ID: \1101011.D

Level: (low/med) LOW Date Received: 10/30/03

% Moisture: not dec. Date Analyzed: 10/31/03

GC Column: J&W,DB624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
67-64-1	Acetone	6	J
71-43-2	Benzene	5	U
100-41-4	Ethylbenzene	5	U
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	U
79-01-6	Trichloroethene	5	U
1330-20-7	m,p-Xylene	10 ~~5~~	U
95-47-6	o-Xylene	5	U

BLH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TW-01

Lab Name: Buck Environmental Labs, Inc. Contract: BBL

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-02A

Sample wt/vol: 5 (g/mL) ML Lab File ID: \1101011.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: not dec. Date Analyzed: 10/30/03

GC Column: J&W,DB624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
67-64-1	Acetone	12	U
71-43-2	Benzene	6	
100-41-4	Ethylbenzene	5	U
75-09-2	Methylene chloride	5	U
108-88-3	Toluene	5	U
79-01-6	Trichloroethene	5	U
1330-20-7	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TW-02R

Lab Name: Buck Environmental Labs, Inc. Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310271-04B

Sample wt/vol: 5 (g/mL) ML Lab File ID: \1901019.D

Level: (low/med) LOW Date Received: 10/30/03

% Moisture: not dec. Date Analyzed: 10/31/03

GC Column: J&W,DB624 ID: .18 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
67-64-1	Acetone	68	
71-43-2	Benzene	28	
100-41-4	Ethylbenzene	5	U
75-09-2	Methylene chloride	91	
108-88-3	Toluene	75	J
79-01-6	Trichloroethene	2	J
1330-20-7	m,p-Xylene	10	U
95-47-6	o-Xylene	5	U

VOLATILE ANALYSES

METHOD 8015

Introduction

Analyses were performed according to USEPA method 8015 as referenced in the NYSDEC ASP.

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 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.

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 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 test, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding time for volatile analyses under the Quality Assurance Project Plan (QAPP) is 7 days from sample receipt. The technical holding time is 14 days from sample collection to analysis.

All samples were analyzed within the technical holding time.

2. Blank Contamination

Quality assurance blanks (i.e., method, trip, field, or 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.

No compounds were detected in the method or trip 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.

3.1 Initial Calibration

The method specifies a percent relative standard deviation (%RSD) limit of 20% or, alternately, a correlation coefficient of 0.99 or greater.

The initial calibration was acceptable.

3.2 Continuing Calibration

All continuing calibration standards were within 15 percent difference (%D) of the initial calibration.

4. Compound Identification

Target compounds are identified by using the analyte's retention time.

All identified compounds met the specified criteria.

5. Matrix Spike/Matrix Spike Duplicate/Matrix Spike Blank

Matrix and matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method relative to the sample matrix. Matrix spike blank (MSB) data is used to assess the precision and accuracy of the analytical method independent of matrix interferences.

The MS/MSD recoveries and relative percent difference (RPD) between recoveries were within control limits. The MSB recovery was also within control limits.

6. Field Duplicates

Results for duplicate samples are summarized below:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-33 / DUP-1	methanol	0.49 J	ND	NA

ND Not detected.
NA Analyte not detected in sample and/or duplicate. RPD not applicable.

The duplicate results are acceptable.

8. System Performance and Overall Assessment

Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines listed in the analytical method.

Data Validation Checklist

Organic 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	
Matrix Spikes			
Is there a matrix spike 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 2			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
0 out of 1			
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 at least once every twelve hours for each system used?	X		
Do any method/reagent/instrument blanks have positive results?		X	
Are there trip/field/rinse/equipment blanks associated with every sample?	X		
Do any trip/field/rinse blanks have positive results?		X	
Target Analytes			
Is an organics analysis data sheet present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		

Organic Data Validation Checklist - Page 2

	YES	NO	NA
Are the chromatograms present for each of the following:			
Samples	X		
Matrix spikes	X		
Blanks	X		
Is the chromatographic performance acceptable?	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		
Standard Data			
Are the quantitation reports and 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 or correlation coefficients within acceptable limits?	X		
Are there any transcription/calculation errors 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 twelve hours of analysis per instrument?	X		
All %D within acceptable limits?	X		
Are there any transcription/calculation errors in reporting of RF or %D?		X	
Field Duplicates			
Were field duplicates submitted with the samples?	X		

Calibration Outliers

Instrument: GC-03
Matrix: water

Date	11/7/03	11/7/03	11/7/03			
Time		1151	1356			
	Initial Cal.	Cont. Cal.	Cont. Cal.	Cont. Cal.	Cont. Cal.	Cont. Cal.
	RSD	%D	%D	%D	%D	%D
methanol						
Affected Samples:						

Corrected Sample Analysis Data Sheets

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-1

Lab Name: Buck Environmental Labs, Inc. Contract: BLASLAND

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-08C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 1401014.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: not dec. Date Analyzed: 11/07/03

GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg)	MG/L	Q
67-56-1	Methanol		1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-01

Lab Name: Buck Environmental Labs, Inc. Contract: BLASLAND

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-05C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 1101011.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: not dec. Date Analyzed: 11/07/03

GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg)	MG/L	Q
67-56-1	Methanol		1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-3S

Lab Name: Buck Environmental Labs, Inc. Contract: BLASLAND

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-01C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 0701007.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: not dec. Date Analyzed: 11/07/03

GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg)	MG/L	Q
67-56-1	Methanol		1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9S

Lab Name: Buck Environmental Labs, Inc. Contract: BLASLAND

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-06C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 1201012.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: not dec. Date Analyzed: 11/07/03

GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg)	MG/L	Q
67-56-1	Methanol		1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TW-01

Lab Name: Buck Environmental Labs, Inc. Contract: BLASLAND

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-02C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 0801008.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: not dec. Date Analyzed: 11/07/03

GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg)	MG/L	Q
67-56-1	Methanol		1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-32

Lab Name: Buck Environmental Labs, Inc. Contract: BLASLAND

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-03C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 0901009.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: not dec. Date Analyzed: 11/07/03

GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg)	MG/L	Q
67-56-1	Methanol		1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-33

Lab Name: Buck Environmental Labs, Inc. Contract: BLASLAND

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-04C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 1001010.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: not dec. Date Analyzed: 11/07/03

GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg)	MG/L	Q
67-56-1	Methanol		0.49	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-34

Lab Name: Buck Environmental Labs, Inc. Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310271-02C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 2001020.D

Level: (low/med) LOW Date Received: 10/30/03

% Moisture: not dec. Date Analyzed: 11/07/03

GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg)	MG/L	Q
67-56-1	Methanol		1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-35

Lab Name: Buck Environmental Labs, Inc. Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310271-01C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 1901019.D

Level: (low/med) LOW Date Received: 10/30/03

% Moisture: not dec. Date Analyzed: 11/07/03

GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg)	MG/L	Q
67-56-1	Methanol		1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-36

Lab Name: Buck Environmental Labs, Inc. Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310271-03C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 2101021.D

Level: (low/med) LOW Date Received: 10/30/03

% Moisture: not dec. Date Analyzed: 11/07/03

GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg)	MG/L	Q
67-56-1	Methanol		1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-1

Lab Name: Buck Environmental Labs, Inc. Contract: BLASLAND

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-07B

Sample wt/vol: 5 (g/mL) uL Lab File ID: 1301013.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: not dec. Date Analyzed: 11/07/03

GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg)	MG/L	Q
67-56-1	Methanol		1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-2

Lab Name: Buck Environmental Labs, Inc. Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310271-07B

Sample wt/vol: 5 (g/mL) uL Lab File ID: 2301023.D

Level: (low/med) LOW Date Received: 10/30/03

% Moisture: not dec. Date Analyzed: 11/07/03

GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg)	MG/L	Q
67-56-1	Methanol		1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TW-02R

Lab Name: Buck Environmental Labs, Inc. Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310271-04C

Sample wt/vol: 5 (g/mL) uL Lab File ID: 2201022.D

Level: (low/med) LOW Date Received: 10/30/03

% Moisture: not dec. Date Analyzed: 11/07/03

GC Column: J&W, DB-VRX ID: .45 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg)	MG/L	Q
67-56-1	Methanol		1	U

SEMIVOLATILE ANALYSES

METHOD 8270

Introduction

Analyses were performed according to USEPA SW-846 Method 8270 as referenced in NYSDEC ASP.

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 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.

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 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 test, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding times for semi-volatile analyses under the Quality Assurance Project Plan (QAPP) are 5 days from sample receipt to extraction and 40 days to analysis. The technical holding times are 7 days from sample collection to extraction and 40 days to analysis.

All samples were extracted and analyzed within the specified holding times.

2. Blank Contamination

Quality assurance blanks (i.e., method, field, or 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. Field and rinse blanks measure contamination of samples during field operations.

No target compounds were detected in the method blanks.

3. Mass Spectrometer Tuning

Mass spectrometer performance was 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 various percent relative standard deviation (%RSD) limits for select compounds and allows two outliers. A technical review of the data applies a RSD limit of 30% to all compounds with no exceptions.

The %RSD was less than 30% for all compounds.

4.2 Continuing Calibration

All continuing calibration standards were within 25% difference (%D) of the initial calibration.

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.

Surrogates were diluted beyond the range of quantitation in several samples. One surrogate was outside of control limits for samples MW-1, MW-35, and MW-32. No data have been qualified based on diluted surrogates or one surrogate being out of control. All other 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 experimental run.

The internal standard response for Chrysene-d12 was above control limits in sample MW-32. Since no sample results were associated with the deviant internal standard, no data have been qualified. All other internal standard areas and retention times were within established limits.

7. Compound Identification

Target compounds are identified on the GC/MS by using the analyte's relative retention time and ion spectra.

Samples MW-33, DUP-1, and TW-02R contained aniline above the linear range. Data for aniline in these samples have been replaced with data from the dilution analyses. All other identified compounds met the specified criteria.

8. Matrix Spike/Matrix Spike Duplicate/Matrix Spike Blank

Matrix and matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method relative to the sample matrix. Matrix spike blank (MSB) data is used to assess the precision and accuracy of the analytical method independent of matrix interferences.

The MS/MSD recoveries and RPD between recoveries for aniline were outside control limits. The MSB was, however, within control limits for aniline. No data have been qualified based on the deviations.

9. Field Duplicates

Results for duplicate samples are summarized as follows:

Sample ID/ Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-33 / DUP-1	Aniline	1900	1800	5.0%
	N,N-Dimethylaniline	ND	ND	NA

The duplicate results are acceptable.

10. System Performance and Overall Assessment

The original sample aniline result for sample TW-02R was incorrectly calculated by the laboratory. The sample result has been corrected and are included in the corrected data sheets.

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines listed in the analytical 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 the samples listed on the appropriate surrogate recovery form?	X		
Were two or more surrogate recoveries outside of specified limits for any sample or blank?		X	
If yes, were the samples reanalyzed?		X	
Matrix Spikes			
Is there a matrix spike recovery form present?	X		
Were matrix spikes analyzed at the required frequency	X		
How many spike recoveries were outside of QC limits?			
2 out of 4			
How many RPDs for matrix spike and matrix spike duplicate were outside of QC limits?			
1 out of 2			
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 GC/MS system used?	X		
Do any method/reagent/instrument blanks have positive results?		X	
Are there field/rinse/equipment blanks associated with every sample?		X	

Semivolatile Organics Data Validation Checklist - Page 2

	YES	NO	NA
Do any field/rinse blanks have positive results?			X
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 twelve 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		
Has GPC cleanup been performed on all soil/sediment sample extracts?			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	

Semivolatile Organics Data Validation Checklist - Page 3

	YES	NO	NA
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		
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 equal to or greater than minimum requirements?	X		
Are there any transcription/calculation errors 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 twelve hours of analysis per instrument?	X		
All %D within acceptable limits?	X		
Are all RF equal to or greater than minimum requirements?	X		
Are there any transcription/calculation errors in reporting of RF or %D?		X	
Internal Standards			
Are internal standard areas of the samples and blanks 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 Qualifier Summary
Holding Time, Surrogates, Internal Standards

Sample ID	Holding Time*	Surrogates*			Internal Standards*					
		NBZ	FBP	TPH	DCB	NPT	ANT	PHN	CRY	PRY
DUP-1										
MW-01				↓						
MW-9S										
MW-3S				↓						
MW-32				↓					↓	
MW-33										
MW-34										
MW-35										
MW-36										
TB-1										
TB-2										
TW-1										
TW-2										

Surrogates:
Qualifiers:

NBZ	Nitrobenzene-d5
FBP	2-Fluorobiphenyl
TPH	Terphenyl-d14

Internal Standards:

DCB	1,4-Dichlorobenzene-d4
NPT	Naphthalene-d8
ANT	Acenaphthene-d10
PHN	Phenanthrene-d10
CRY	Chrysene-d12
PRY	Perylene-d12

D	Diluted
↓	Recovery low
↑	Recovery high

* Unless otherwise specified, all parameters are within acceptable limits.

Semivolatile Calibration Outliers

Instrument: MSD2
Level: low

Date/Time	11/06/03		11/6/03 1442		11/7/03 0920		11/11/03 0905		11/11/03 1629	
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
aniline										
n,n'-dimethylaniline										

Affected Samples:					

Semivolatile Calibration Outliers - Page 2

Instrument: MSD2
Level: low

Date/Time	11/06/03		11/12/03 1335							
	Initial Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
	RF	%RSD	RF	%D	RF	%D	RF	%D	RF	%D
aniline										
n,n'-dimethylaniline										

Affected Samples:

Corrected Sample Analysis Data Sheets

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-1

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-08B

Sample wt/vol: 885 (g/mL) ~~G~~ mL Lab File ID: 0801008.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: Decanted: (Y/N) N Date Extracted: 10/31/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/07/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	~~830~~ 1800	~~E~~ J
121-69-7	N,N-Dimethylaniline	6	U

1C

EPA SAMPLE NO.

DUP-1DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-08B

Sample wt/vol: 885 (g/mL) ~~G~~ mL Lab File ID: 0501005.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: Decanted: (Y/N) N Date Extracted: 10/31/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/11/03

Injection Volume: 1 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	1500	
121-69-7	N,N-Dimethylaniline	56	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-1DL

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-08B

Sample wt/vol: 885 (g/mL) ~~G~~ mL Lab File ID: 1201012.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: Decanted: (Y/N) N Date Extracted: 10/31/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/12/03

Injection Volume: 1 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	1800	
121-69-7	N,N-Dimethylaniline	110	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-01

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-05B

Sample wt/vol: 990 (g/mL) G Lab File ID: 0601006.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: Decanted: (Y/N) N Date Extracted: 10/31/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/07/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	2	J
121-69-7	N,N-Dimethylaniline	5	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-01 RA 9B

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-05B

Sample wt/vol: 990 (g/mL) G Lab File ID: 0301003.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: Decanted: (Y/N) N Date Extracted: 10/31/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/11/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	5	U
121-69-7	N,N-Dimethylaniline	5	U

1Ø C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-3S

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-01B

Sample wt/vol: 965 (g/mL) Q Lab File ID: 0201002.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: Decanted: (Y/N) N Date Extracted: 10/31/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/07/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	4	J
121-69-7	N,N-Dimethylaniline	5	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-3S RA

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-01B

Sample wt/vol: 965 (g/mL) G Lab File ID: 1601016.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: Decanted: (Y/N) N Date Extracted: 10/31/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/10/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	4	J
121-69-7	N,N-Dimethylaniline	5	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9S

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: SAS No.: SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-06B

Sample wt/vol: 910 (g/mL) G Lab File ID: 0401004.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: Decanted: (Y/N) N Date Extracted: 10/31/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/11/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Extraction: (Type)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	1	J
121-69-7	N,N-Dimethylaniline	5	U

1C

EPA SAMPLE NO.

MW-32

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-03B

Sample wt/vol: 960 (g/mL) G Lab File ID: 0401004.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: Decanted: (Y/N) N Date Extracted: 10/31/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/07/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	5	U
121-69-7	N,N-Dimethylaniline	5	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-32 RA

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-03B

Sample wt/vol: 960 (g/mL) G Lab File ID: 1101011.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: Decanted: (Y/N) N Date Extracted: 10/31/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/11/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	5	J
121-69-7	N,N-Dimethylaniline	5	U

1C

EPA SAMPLE NO.

MW-33

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-04B

Sample wt/vol: 880 (g/mL) G Lab File ID: 0501005.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: Decanted: (Y/N) N Date Extracted: 10/31/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/07/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	~~810~~ 190 D	~~E~~
121-69-7	N,N-Dimethylaniline	6	U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-33DL

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-04B

Sample wt/vol: 880 (g/mL) G Lab File ID: 1201012.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: Decanted: (Y/N) N Date Extracted: 10/31/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/11/03

Injection Volume: 1 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	1600	E
121-69-7	N,N-Dimethylaniline	57	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-33DL

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-04B

Sample wt/vol: 880 (g/mL) G Lab File ID: 0201002.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: Decanted: (Y/N) N Date Extracted: 10/31/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/11/03

Injection Volume: 1 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	1900	
121-69-7	N,N-Dimethylaniline	110	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-34

Lab Name: Buck Environmental Labs, In Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310271-02A

Sample wt/vol: 940 (g/mL) ~~G~~ µl Lab File ID: 1001010.D

Level: (low/med) LOW Date Received: 10/30/03

% Moisture: Decanted: (Y/N) N Date Extracted: 10/31/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/07/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	18	
121-69-7	N,N-Dimethylaniline	5	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-35

Lab Name: Buck Environmental Labs, In Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310271-01A

Sample wt/vol: 960 (g/mL) G Lab File ID: 0901009.D

Level: (low/med) LOW Date Received: 10/30/03

% Moisture: Decanted: (Y/N) N Date Extracted: 10/31/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/07/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	4	J
121-69-7	N,N-Dimethylaniline	5	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-36

Lab Name: Buck Environmental Labs, In Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310271-03A

Sample wt/vol: 970 (g/mL) Lab File ID: 1101011.D

Level: (low/med) LOW Date Received: 10/30/03

% Moisture: Decanted: (Y/N) N Date Extracted: 10/31/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/07/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	100	
121-69-7	N,N-Dimethylaniline	5	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TW-01

Lab Name: Buck Environmental Labs, In Contract: BBL

Lab Code: 10795 Case No.: SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310258-02B

Sample wt/vol: 945 (g/mL) G Lab File ID: 0301003.D

Level: (low/med) LOW Date Received: 10/29/03

% Moisture: Decanted: (Y/N) N Date Extracted: 10/31/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/07/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	0.6	J
121-69-7	N,N-Dimethylaniline	5	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TW-02R

Lab Name: Buck Environmental Labs, In Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310271-04A

Sample wt/vol: 970 (g/mL) G Lab File ID: 1201012.D

Level: (low/med) LOW Date Received: 10/30/03

% Moisture: Decanted: (Y/N) N Date Extracted: 10/31/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/07/03

Injection Volume: 1 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	5	U
121-69-7	N,N-Dimethylaniline	5	U

Invalid Run - Shut instrument down - see dilution -

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TW-02RDL

Lab Name: Buck Environmental Labs, In Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310271-04A

Sample wt/vol: 970 (g/mL) G Lab File ID: 0601006.D

Level: (low/med) LOW Date Received: 10/30/03

% Moisture: Decanted: (Y/N) N Date Extracted: 10/31/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/11/03

Injection Volume: 1 (µL) Dilution Factor: 50.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	~~1000~~ 41000	E D
121-69-7	N,N-Dimethylaniline	260	U

354 correction

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TW-02RDL

Lab Name: Buck Environmental Labs, In Contract: _____

Lab Code: 10795 Case No.: C SAS No.: _____ SDG No.: BEL0330

Matrix: (soil/water) WATER Lab Sample ID: 0310271-04A

Sample wt/vol: 970 (g/mL) G Lab File ID: 0201002.D

Level: (low/med) LOW Date Received: 10/30/03

% Moisture: Decanted: (Y/N) N Date Extracted: 10/31/03

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 11/12/03

Injection Volume: 1 (µL) Dilution Factor: 1,000.00

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
62-53-3	Aniline	92000	
121-69-7	N,N-Dimethylaniline	5200	U

Chain of Custody

BEL0330

0310258
0310259

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

6723 Towpath Road, P.O. Box 66
Syracuse, New York 13214-0066
TEL: (315) 446-9120

CHAIN OF CUSTODY RECORD

0310254

PROJ. NO. 26003 | PROJECT NAME McKesson

SAMPLERS: (Signature) Kathleen Murphy

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	Number of Containers	SVOCs (2)	VOCs (3)	Alcohols (3)	Sulfide (1)	Diss Metals (1)	Total Metals (1)	NO3/SO4 (1)	Total Ortho Phosphate (1)	Total metals + K (1)	Ammonia (1)	REMARKS
	10/28/03	845		X	MW-35	12	X	X	X	X	X	X	X				
	10/28/03	1035			TW-01	14	X	X	X	X	X		X	X	X	X	
		1150			MW-32	14	X	X	X	X	X		X	X	X	X	
		1258			MW-33	14	X	X	X	X	X		X	X	X	X	
		1425			MW-01	12	X	X	X	X	X	X	X				
		1550			MW-95	14	X	X	X	X	X		X	X	X	X	
					Temp Blank	3											
		—			TB-1	6		X	X								
	↓	—		↓	Dup-1	14	X	X	X	X	X		X	X	X	X	

MW-01 & MW-3s do not get potassium or total metals

Be sure to call duplicate: Dup-1

Contact: Christie Sobol 315-446-9120

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	Relinquished by: (Signature)	DATE	TIME	Relinquished by: (Signature)
Kathleen Murphy	10/28/03	1800					
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	Relinquished by: (Signature)	DATE	TIME	Relinquished by: (Signature)
Relinquished by: (Signature)	DATE	TIME	Received for Laboratory by: (Signature) Pamela Davis	DATE 10/29/03	TIME 10:20	Remarks: Custody seals intact; temps OK: 4.3°, 2.3°, 3.4°	

10/23/95

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

BEL0330

0310270

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

6723 Towpath Road, P.O. Box 66
Syracuse, New York 13214-0066
TEL: (315) 446-9120

CHAIN OF CUSTODY RECORD

PROJ. NO. 26003 | PROJECT NAME Mekesson

SAMPLERS: (Signature) Keith Perry

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	Number of Containers	SVOCs	VOCs	Alcohols			REMARKS
	10/25/03	1545		X	Trench B	8	X	X	X			
		1625			Collection Sump	8	X	X	X			Keep results separate
												Contact: Christie Sobol 315-446-9120

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	Relinquished by: (Signature)	DATE	TIME	Relinquished by: (Signature)
Keith Perry	10/25/03	1800					
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	Relinquished by: (Signature)	DATE	TIME	Relinquished by: (Signature)

Relinquished by: (Signature)	DATE	TIME	Received for Laboratory by: (Signature)	DATE	TIME	Remarks:
			Pamela Davis	10/30/03	10:25	seals intact temp 2.1

10/23/95
5951188L.CDR

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

BEL0330

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists
6723 Towpath Road, P.O. Box 66
Syracuse, New York 13214-0066
TEL: (315) 446-9120

CHAIN OF CUSTODY RECORD

C310271 0310272

PROJ. NO. 26003 | PROJECT NAME McKesson

SAMPLERS: (Signature) Kath Perry

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	Number of Containers	5 VOCs (2)	VOCs (3)	Alcohols (3)	Sulfide (1)	Diss. Metals (1)	Total Metals + K (1)	NO3/SO4 (1)	TOC (or Phosphate) (1)	Ammonia (NH3) (1)	REMARKS
	10/29/03	910		X	MW-35	14	X	X	X	X	X	X	X	X	X	
		1130			MW-34	14	X	X	X	X	X	X	X	X	X	
		1140			MW-36	14	X	X	X	X	X	X	X	X	X	
		1405			TW-02R	14	X	X	X	X	X	X	X	X	X	
		1405			TW-02R MS/MSD	28	X	X	X	X	X	X	X	X	X	
																Contact: Christi Sobol 315-446-9120
					Temp Blanks	4										
	↓			↓	TB-2	6		X								

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	Relinquished by: (Signature)	DATE	TIME	Relinquished by: (Signature)
Kath Perry	10/29/03	800					
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	Relinquished by: (Signature)	DATE	TIME	Relinquished by: (Signature)
Relinquished by: (Signature)	DATE	TIME	Received for Laboratory by: (Signature) Pamela Davis	DATE 10/30/03	TIME 10.25	Remarks: seals intact cooler temps 2.1°, 1.4°, 2.3°, 1.7°	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

Buck Environmental Labs, Inc.

Sample Receipt Checklist

Client Name BLASLAND | Date and Time Receive 10/29/03

Work Order Numbe 0310258 | Received by: PB

Checklist completed by Pamela Davis 10/29/03 (Signature / Date) | Reviewed by SAS 10/29/03 (Initials / Date)

Matrix: | Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	Yes ☑	No ☐	
	No VOA vials submitted ☐		
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section be

Sample Custodies Tracked on the Following Internal Chains:

Dept:	Area	By	On
MSSEMI	Ref 02	SAS	10/29/03
MSVOA	Ref 07	SAS	10/29/03

SampID	ClientSampID	TagNo
01A	MW-3S	
01B	MW-3S	
01C	MW-3S	
02A	TW-01	
02B	TW-01	
02C	TW-01	
03A	MW-32	
03B	MW-32	
03C	MW-32	
04A	MW-33	
04B	MW-33	
04C	MW-33	
05A	MW-01	
05B	MW-01	
05C	MW-01	
06A	MW-9S	
06B	MW-9S	
06C	MW-9S	
07A	TB-1	
07B	TB-1	
08A	DUP-1	
08B	DUP-1	
08C	DUP-1	
09A	STORAGE BLANK	

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Page 1 of 2

Buck Environmental Lab, Inc.

Internal Chain of Custody

Ref # Ref07

BEL Job # 0310258

Dept: MSVOA

ClientID: BLASLAND

Relinquished By: Pamela Bloom Date: 10/29/03

Testing: 8260ASPL, MMEOHL

Received By: Unassigned M. Pierce Date: 10/30/03

Testing:

BEL Sample ID		Sample Removal And Return Tracking																	
		Removed				Returned		Removed				Returned		Removed				Returned	
		Date	Time	By	*	Date	Time	Date	Time	By	*	Date	Time	Date	Time	By	*	Date	Time
-01A	1	10/30/03	16:00	ump	A	10/31/03	11:30												
-01A	2	10/31/03	15:00	ump	A	11/03/03	9:00												
-01A	3																		
-01C	1	11/7/03	10:58	[illegible]	A	11/7/03	1655												
-01C	2																		
-01C	3																		
-02A	1	10/30/03	16:00	ump	A	10/31/03	11:30												
-02A	2																		
-02A	3																		
-02C	1	11/7/03	10:58	[illegible]	A	11/7/03	1655												
-02C	2																		
-02C	3																		
-03A	1	10/30/03	16:00	ump	A	10/31/03	11:30												
-03A	2																		
-03A	3																		
-03C	1	11/7/03	10:58	[illegible]	A	11/7/03	1655												
-03C	2																		
-03C	3																		
-04A	1	10/30/03	16:00	ump	A	10/31/03	11:30												
-04A	2																		
-04A	3																		
-04C	1	11/7/03	~~10:58~~ 10:00	[illegible]	A	11/7/03	1655												
-04C	2																		
-04C	3																		
-05A	1	10/30/03	16:00	ump	A	10/31/03	11:30												
-05A	2																		
-05A	3																		
-05C	1	11/7/03	10:58	[illegible]	A	11/7/03	1655												
-05C	2																		
-05C	3																		
-06A	1	10/30/03	16:00	ump	A	10/31/03	11:30												
-06A	2																		
-06A	3																		
-06C	1	11/7/03	10:58	[illegible]	A	11/7/03	1655												
-06C	2																		
-06C	3																		
-07A	1	10/30/03	16:00	ump	A	10/31/03	11:30												
-07A	2																		

* Reasons for Removal: A = Analysis DW = Dry Weight SS = Sub-sample D = Depleted Sample

Page 2 of 2

Buck Environmental Lab, Inc.

Ref # Ref07

BEL Job # 0310258

Internal Chain of Custody

Dept: MSVOA

ClientID: BLASLAND

Relinquished By Pamela Glover Date: 10/30/03 Testing: 8260A-SDL, MMEOH-L

Received By: Chassidy M. Rice Date: 10/30/03 Testing:

BEL Sample ID		Sample Removal And Return Tracking																	
		Removed				Returned		Removed				Returned		Removed				Returned	
		Date	Time	By	*	Date	Time	Date	Time	By	*	Date	Time	Date	Time	By	*	Date	Time
-07A	3	10/30/03	16:00	CMP	A	10/31/03	11:30												
-07B	1	11/7/03	1058	DW	A	11/7/03	1255												
-07B	2																		
-07B	3																		
-08A	1	10/30/03	16:00	CMP	A	10/31/03	11:30												
-08A	2																		
-08A	3																		
-08C	1	11/7/03	1058	DW	A	11/7/03	1255												
-08C	2																		
-08C	3																		

* Reasons for Removal: A = Analysis DW = Dry Weight SS = Sub-sample D = Depleted Sample

Page 1 Of _____

BUCK ENVIRONMENTAL LABORATORIES
GC/MS ASP SEMI-VOLATILE INTERNAL CHAIN OF CUSTODY

Storage: Refrigerator #_____

BEL Job # 031025B

Relinquished By: _____ Date/Time 10-24-03 1200

Client Blasland

Testing: 8270 95-2 625 TCLP 525 Other:_____ Received By:_____ Date/Time_____

BEL Sample ID	Client Sample ID	Bottle #	Extract Removal & Return Tracking										COMMENTS
			Removal Date/Time	Removed By *	Returned Date/Time	Removal Date/Time	Removed By *	Returned Date/Time	Removal Date/Time	Removed By *	Returned Date/Time		
01B	MW-35	1	11/7/03 8:52AM		11/19/03 1:26 PM								
02B	TW-01	1	11/7/03 8:52AM		11/19/03 1:26 PM								
03B	MW-32	1	11/7/03 8:52AM		11/19/03 1:26 PM								
04B	MW-33	1	11/7/03 8:52AM		11/19/03 1:26 PM								
05B	MW-01	1	11/7/03 8:52AM		11/19/03 1:26 PM								
06B	MW-31	1	11/7/03 8:52AM		11/19/03 1:26 PM								
07B	Dup-1	1	11/7/03 8:52AM		11/19/03 1:26 PM								
-	SBLK 032511	1	11/7/03 8:52AM		11/19/03 1:26 PM								
-	MBS032511	1	11/7/03 8:52AM		11/19/03 1:26 PM								

*-Reasons For Removal
A:Analysis IS:Standardizing
C:Cleanup D:Diluting B:Debulking
O:Other (Specify In comments)

Extract Debulking
Relinquished By_____ Date/Time_____/_____
Received By_____ Date/Time_____/_____

Extract Disposal
By_____ Date/Time_____/_____

Page 1 of 2

Buck Environmental Lab, Inc.

Internal Chain of Custody

Ref # Ref 07

BEL Job # 0310271

Dept: MSVOA

ClientID: BLASLAND

Relinquished By: Pamela Brown Date: 10/30/03

Testing: 8260CASPL, MMEOHL

Received By: Chrisdicky M. Ewing Date: 10/30/03

Testing:

BEL Sample ID		Sample Removal And Return Tracking																	
		Removed				Returned		Removed				Returned		Removed				Returned	
		Date	Time	By	*	Date	Time	Date	Time	By	*	Date	Time	Date	Time	By	*	Date	Time
-01B	1	10/31/03	15:00	cmp	A	11/03/03	9:00												
-01B	2																		
-01C	1	11/7/03	1255	[illegible]	A	11/7/03	1354												
-01C	2																		
-01C	3																		
-02B	1	10/31/03	15:00	cmp	A	11/03/03	9:00												
-02B	2																		
-02B	3																		
-02C	1	11/7/03	1255	[illegible]	A	11/7/03	1354												
-02C	2																		
-02C	3																		
-03B	1	10/31/03	15:00	cmp	A	11/03/03	9:00												
-03B	2	11/03/03	9:00	cmp	A	11/03/03	14:00												
-03B	3																		
-03C	1	11/7/03	1255	[illegible]	A	11/7/03	1354												
-03C	2																		
-03C	3																		
-04B	1	10/30/03	16:00	cmp	A	10/31/03	11:30												
-04B	2																		
-04B	3																		
-04C	1	11/7/03	1255	[illegible]	A	11/7/03	1354												
-04C	2																		
-04C	3																		
-05B	1	10/30/03	16:00	cmp	A	10/31/03	11:30												
-05B	2																		
-05B	3																		
-05C	1	11/7/03	1255	[illegible]	A	11/7/03	1354												
-05C	2																		
-05C	3																		
-06B	1	10/30/03	16:00	cmp	A	10/31/03	11:30												
-06B	2																		
-06B	3																		
-06C	1	11/7/03	1255	[illegible]	A	11/7/03	1354												
-06C	2																		
-06C	3																		
-07A	1	10/31/03	15:00	cmp	A	11/03/03	9:00												
-07A	2																		
-07A	3																		

* Reasons for Removal: A = Analysis DW = Dry Weight SS = Sub-sample D = Depleted Sample

Page 2 of 2

Buck Environmental Lab, Inc.

Internal Chain of Custody

Ref # Ref 07

BEL Job # 0310271

Dept: MSVOA

ClientID: BLASLAND

Relinquished By: Pamela Brown Date: 10/30/03

Testing: 8260ASPL, MNEOHL

Received By: _____ Date: _____

Testing: _____

BEL Sample ID		Sample Removal And Return Tracking																	
		Removed				Returned		Removed				Returned		Removed				Returned	
		Date	Time	By	*	Date	Time	Date	Time	By	*	Date	Time	Date	Time	By	*	Date	Time
-07B	1	11/7/03	1255	[illegible]	A	11/7/03	1554												
-07B	2																		
-07B	3																		

* Reasons for Removal: A = Analysis DW = Dry Weight SS = Sub-sample D = Depleted Sample

BUCK ENVIRONMENTAL LABORATORIES

Page 1 Of ____ GC/MS ASP SEMI-VOLATILE INTERNAL CHAIN OF CUSTODY Storage: Refrigerator #____

BEL Job # 0310271 Relinquished By: [signature] Date/Time 10-31-03 1700

Client Blasland Testing: ~~8270~~ 95-2 625 TCLP 525 Other:____ Received By:____ Date/Time____

BEL Sample ID	Client Sample ID	Bottle #	Extract Removal & Return Tracking										COMMENTS
			Removal Date/Time	Removed By *	Returned Date/Time	Removal Date/Time	Removed By *	Returned Date/Time	Removal Date/Time	Removed By *	Returned Date/Time		
014	MW-35	1	11/7/03 8:54 AM	a a	11/19/03 1:25 PM								
02A	MW-34	1	11/7/03 8:54 AM	a a	11/19/03 1:25 PM								
03A	MW-36	1	11/7/03 8:54 AM	a a	11/19/03 1:25 PM								
04A	TW-02R	1	11/7/03 8:54 AM	a a	11/19/03 1:25 PM								
05A	TW-02R MS	1	11/7/03 8:54 AM	a a	11/19/03 1:25 PM								
06A	TW-02R ~~MSD~~	1	11/7/03 8:54 AM	a a	11/19/03 1:25 PM								

*-Reasons For Removal
A:Analysis IS:Standardizing
C:Cleanup D:Diluting B:Debulking
O:Other (Specify In comments)

Extract Debulking
Relinquished By____ Date/Time____/____
Received By____ Date/Time____/____

Extract Disposal
By____ Date/Time____/____

Buck Environmental Labs, Inc.

Sample Receipt Checklist

Client Name BLASLAND — Date and Time Receive 10/30/03

Work Order Numbe 0310271 — Received by: PB

Checklist completed by Pamela Davis 10/30/03 (Signature / Date) — Reviewed by SAS 10/30/03 (Initials / Date)

Matrix: — Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐		
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐		
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑		
Chain of custody present?	Yes ☑	No ☐			
Chain of custody signed when relinquished and received	Yes ☑	No ☐			
Chain of custody agrees with sample labels?	Yes ☑	No ☐			
Samples in proper container/bottle?	Yes ☑	No ☐			
Sample containers intact?	Yes ☐	No ☑			
Sufficient sample volume for indicated test?	Yes ☑	No ☐			
All samples received within holding time?	Yes ☑	No ☐			
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐			
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐		
Water - pH acceptable upon receipt?	Yes ☑	No ☐			

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section be

Sample Custodies Tracked on the Following Internal Chains:

Dept:	Area	By	On
MSSEMI	Ref 02	SAS	10/30/03
MSVOA	Ref 07	SAS	10/30/03

SampID	ClientSampID	TagNo
01A	MW-35	
01B	MW-35	
01C	MW-35	
02A	MW-34	
02B	MW-34	
02C	MW-34	
03A	MW-36	
03B	MW-36	
03C	MW-36	
04A	TW-02R	
04B	TW-02R	
04C	TW-02R	
05A	TW-02R MS	
05B	TW-02R MS	
05C	TW-02R MS	
06A	TW-02R MSD	
06B	TW-02R MSD	
06C	TW-02R MSD	
07A	TB-2	
07B	TB-2	

Client contacted BBL — Date contacted: 10/30/03 — Person contacted C. Sobol

Contacted by: B. Houskamp — Regarding: Vial rec'd broken for VOC's on MW-35

Comments:

Corrective Action

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY
Contract Lab Sample Information Sheet (CLSIS)

		Analytical Requirements					
Customer Sample Code	Laboratory Sample Code	VOA GC/MS Method	BNA GC/MS Method	VOA GC Method	Pesticide PCB's Method	Metals	Other
		EPA 8260B					
DUP-1	0310258-08	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL
MW-01	0310258-05	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL
MW-3S	0310258-01	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL
MW-9S	0310258-06	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL
MW-32	0310258-03	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL
MW-33	0310258-04	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL
MW-34	0310271-02	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL
MW-35	0310271-01	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL
MW-36	0310271-03	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL
TB-1	0310258-07	EPA 8260B	N/A	N/A	N/A	N/A	METHANOL
TB-2	0310271-07	EPA 8260B	N/A	N/A	N/A	N/A	METHANOL
TW-01	0310258-02	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY
Contract Lab Sample Information Sheet (CLSIS)

		Analytical Requirements					
Customer Sample Code	Laboratory Sample Code	VOA GC/MS Method	BNA GC/MS Method	VOA GC Method	Pesticide PCB's Method	Metals	Other
TW-02R	0310271-04	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL
TW-02R MS	0310271-05	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL
TW-02R MSD	0310271-06	EPA 8260B	EPA 8270C	N/A	N/A	N/A	METHANOL

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY
GC/MS VOLATILE (VOA) ANALYSIS
Contract Lab Sample Information Sheet (CLSIS)

Laboratory Sample Code	Matrix	Date Collected	Date Received at Lab	Date Extracted	Date Analyzed
0310258-01	WATER	10/28/03	10/29/03	NA	10/30/03
0310258-02	WATER	10/28/03	10/29/03	NA	10/30/03
0310258-03	WATER	10/28/03	10/29/03	NA	10/30/03
0310258-04	WATER	10/28/03	10/29/03	NA	10/31/03
0310258-05	WATER	10/28/03	10/29/03	NA	10/31/03
0310258-06	WATER	10/28/03	10/29/03	NA	10/31/03
0310258-07	WATER	10/28/03	10/29/03	NA	10/31/03
0310258-08	WATER	10/28/03	10/29/03	NA	10/31/03
0310270-01	WATER	10/29/03	10/30/03	NA	10/31/03
0310270-02	WATER	10/29/03	10/30/03	NA	10/31/03
0310271-01	WATER	10/29/03	10/30/03	NA	10/31/03
0310271-02	WATER	10/29/03	10/30/03	NA	10/31/03
0310271-03	WATER	10/29/03	10/30/03	NA	10/31/03, 11/03/03

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY
GC/MS VOLATILE (VOA) ANALYSIS
Contract Lab Sample Information Sheet (CLSIS)

Laboratory Sample Code	Matrix	Date Collected	Date Received at Lab	Date Extracted	Date Analyzed
0310271-04	WATER	10/29/03	10/30/03	NA	10/31/03
0310271-05	WATER	10/29/03	10/30/03	NA	10/31/03
0310271-06	WATER	10/29/03	10/30/03	NA	10/31/03
0310271-07	WATER	10/29/03	10/30/03	NA	10/31/03

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY
GC/MS VOLATILE (METHANOL) ANALYSIS
Contract Lab Sample Information Sheet (CLSIS)

Laboratory Sample Code	Matrix	Date Collected	Date Received at Lab	Date Extracted	Date Analyzed
0310258-01	WATER	10/28/03	10/29/03	NA	11/07/03
0310258-02	WATER	10/28/03	10/29/03	NA	11/07/03
0310258-03	WATER	10/28/03	10/29/03	NA	11/07/03
0310258-04	WATER	10/28/03	10/29/03	NA	11/07/03
0310258-05	WATER	10/28/03	10/29/03	NA	11/07/03
0310258-06	WATER	10/28/03	10/29/03	NA	11/07/03
0310258-07	WATER	10/28/03	10/29/03	NA	11/07/03
0310258-08	WATER	10/28/03	10/29/03	NA	11/07/03
0310270-01	WATER	10/29/03	10/30/03	NA	11/07/03
0310270-02	WATER	10/29/03	10/30/03	NA	11/07/03
0310271-01	WATER	10/29/03	10/30/03	NA	11/07/03
0310271-02	WATER	10/29/03	10/30/03	NA	11/07/03
0310271-03	WATER	10/29/03	10/30/03	NA	11/07/03

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY
GC/MS VOLATILE (METHANOL) ANALYSIS
Contract Lab Sample Information Sheet (CLSIS)

Laboratory Sample Code	Matrix	Date Collected	Date Received at Lab	Date Extracted	Date Analyzed
0310271-04	WATER	10/29/03	10/30/03	NA	11/07/03
0310271-05	WATER	10/29/03	10/30/03	NA	11/07/03
0310271-06	WATER	10/29/03	10/30/03	NA	11/07/03
0310271-07	WATER	10/29/03	10/30/03	NA	11/07/03

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY
GC/MS SEMIVOLATILE (SVOA) ANALYSIS
Contract Lab Sample Information Sheet (CLSIS)

Laboratory Sample Code	Matrix	Date Collected	Date Received at Lab	Date Extracted	Date Analyzed
0310258-01	WATER	10/28/03	10/29/03	10/31/03	11/07/03 11/10/03
0310258-02	WATER	10/28/03	10/29/03	10/31/03	11/07/03
0310258-03	WATER	10/28/03	10/29/03	10/31/03	11/07/03 11/11/03
0310258-04	WATER	10/28/03	10/29/03	10/31/03	11/07/03 11/11/03
0310258-05	WATER	10/28/03	10/29/03	10/31/03	11/07/03 11/11/03
0310258-06	WATER	10/28/03	10/29/03	10/31/03	11/11/03
0310258-08	WATER	10/28/03	10/29/03	10/31/03	11/07, 11/11, 11/12/03
0310270-01	WATER	10/28/03	10/29/03	10/31/03	11/11/03
0310270-02	WATER	10/29/03	10/30/03	10/31/03	11/11/03
0310271-01	WATER	10/29/03	10/30/03	10/31/03	11/07/03
0310271-02	WATER	10/29/03	10/30/03	10/31/03	11/07/02
0310271-03	WATER	10/29/03	10/30/03	10/31/03	11/07/03
0310271-04	WATER	10/29/03	10/30/03	10/31/03	11/07,11/11, 11/12/03

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE PREPARATION AND ANALYSIS SUMMARY
GC/MS VOLATILE (VOA) ANALYSIS
Contract Lab Sample Information Sheet (CLSIS)

Laboratory Sample Code	Matrix	Date Collected	Date Received at Lab	Date Extracted	Date Analyzed
0310271-05	WATER	10/29/03	10/30/03	10/31/03	11/11/03 11/12/03
0310271-06	WATER	10/29/03	10/30/03	10/31/03	11/11/03 11/12/03