Final Report

New York State Department of Health

September 2006 Quarterly Ground Water Monitoring Report

David Axelrod Institute Site
(Site No.:401031)
Albany, New York

October 2006

Environmental Resources Management
5788 Widewaters Parkway
Dewitt, New York 13214

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APPENDICES

1.0 *INTRODUCTION*

This report presents the data from the September 2006 ground water sampling activities at the Axelrod Institute Site located at 120 New Scotland Avenue in Albany, New York (the "Site"). A site location map is included as Figure 1, Attachment A. The Site has been identified by the New York State Department of Environmental Conservation (NYSDEC) as an inactive hazardous waste site (Site Identification No. 401031).

The Site was previously part of a quarterly ground water monitoring program pursuant to an Order on Consent, Index No. A4-0304-93-07, entered into between the New York State Department of Health (NYSDOH) and the NYSDEC effective 27 August 1993 (the "Consent Order"). In a letter dated 8 October 2003, Environmental Resources Management (ERM) proposed modifications to the Consent Order and presented a redefined scope of work for the Site. The NYSDOH and the NYSDEC agreed to the proposal, which includes monitoring and sampling the wells every fifth quarter and the submission of follow-up letter reports to the NYSDOH. The most recent ground water sampling event and follow-up report preparation were conducted pursuant to the agreed upon modifications to the Consent Order.

2.0 *GROUND WATER SAMPLING*

Pursuant to the NYSDEC-approved monitoring plan, ERM is collecting groundwater samples at the Site every fifth quarter. The first round of ground water sampling at the Site was conducted in December 2003, followed by the second round of sample collection in March 2005. This report presents the results of the third round of sampling. The final round of sampling will be in December 2007.

On 7 September 2006, ERM collected the quarterly ground water samples from three shallow ground water monitoring wells, MW-8S, MW-9S, and MW-11S, located at the Site. In September 2004, ERM visited the Site in an attempt to locate monitoring well MW-10S, which was previously buried beneath a large snowbank and could not be located during the December 2003 sampling event. ERM could not locate MW-10S during the September 2004 visit to the Site. Based on the well's location in the facility parking lot, ERM concluded that the well was destroyed as a result of plowing operations at the Site. A site layout map showing the locations of the three sampled shallow ground water monitoring wells is included as Figure 2, Attachment A.

An ERM geologist collected static water level measurements and well depth measurements from the shallow monitoring wells using an electronic water level indicator, which was washed with a Liquinox solution and rinsed with distilled water between measurement locations. The reference point used for all water level measurements was the top of the well casing.

Prior to sampling, a minimum of three well volumes was purged from each well and various field parameters, including temperature, pH, turbidity, specific conductivity, oxidation-reduction potential, and dissolved oxygen, were collected from each well using a YSI multi-meter.

Monitoring wells MW-8S, MW-9S and MW-11S were sampled using dedicated disposable bailers. A blind field duplicate was collected at MW-9S. All samples were transferred into clean, laboratory-supplied containers and placed into a chilled, thermally insulated cooler immediately after collection. Samples were delivered to the project laboratory by ERM personnel within 3-

hours of sample collection and chain of custody procedures were followed during all sample handling and transport.

Ground water samples collected on 7 September 2006 were analyzed by Adirondack Environmental Laboratories, Inc. (Adirondack) in Albany, New York. Adirondack is a New York State Department of Health-approved environmental laboratory.

3.0 *ANALYTICAL RESULTS*

Ground water samples collected from the monitoring wells were analyzed for Target Compound List Volatile Organic Compounds (TCL VOCs) by USEPA Method 8260B in accordance with the 1995 NYSDEC Analytical Services Protocol (ASP) Category B deliverable guidelines. A sample summary table is included as Table 1, Attachment B. Ground water sampling records are included in Attachment C. Validated analytical sample results along with the Data Validation Review performed by ERM's in-house chemist are included as Attachment D. A copy of the laboratory analytical report is included as Attachment E.

VOC's were not detected in the ground water samples collected from shallow monitoring wells MW-8S and MW-9S on 7 September 2006. One VOC, methyl tert-butyl ether (MTBE), was detected in the ground water sample collected from shallow ground water monitoring well MW-11S at a concentration of 19J micrograms per liter (µg/L). The J denotes the value is estimated; however, this concentration is above the NYSDEC Ambient Water Quality Guidance Value for MTBE, which is 10 µg/L.

4.0 *GROUND WATER ELEVATIONS*

ERM previously collected well elevations for MW-8S, MW-9S, and MW-11S during the 22 December 2003 sampling event. These well elevations, along with the 7 September 2006 depth-to-water measurements for each well, were used to calculate relative ground water elevations for the Site (Table 2, Attachment B). A ground water contour map (Figure 2, Attachment A) was compiled using the water level data for the three sampled shallow monitoring wells.

The ground water contour map indicates that the flow direction of shallow ground water on 7 September 2006 was generally South from MW-9S, North from MW-11S, and West from MW-8S. This direction of water flow is towards the location of the original contaminant disposal location, which is acting as a type of sink for the surrounding upgradient areas. Therefore, it is unlikely that there will be migration of the contaminants since the contaminated area has the lowest localized elevation.

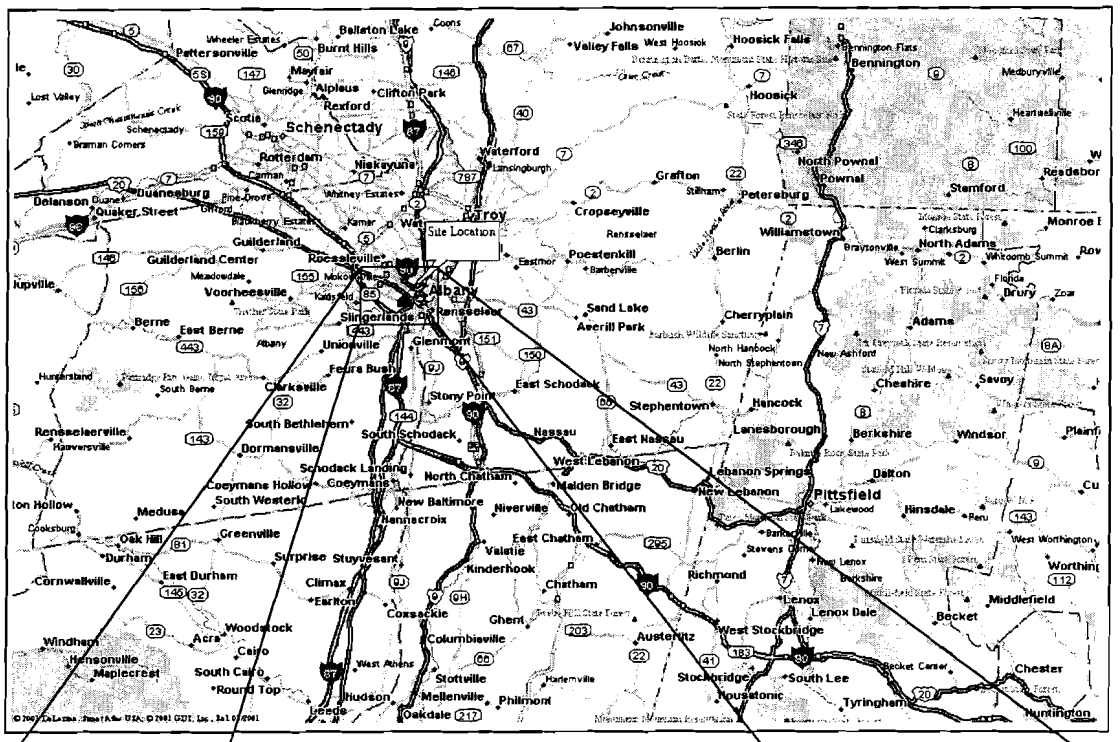
5.0 *CONCLUSIONS*

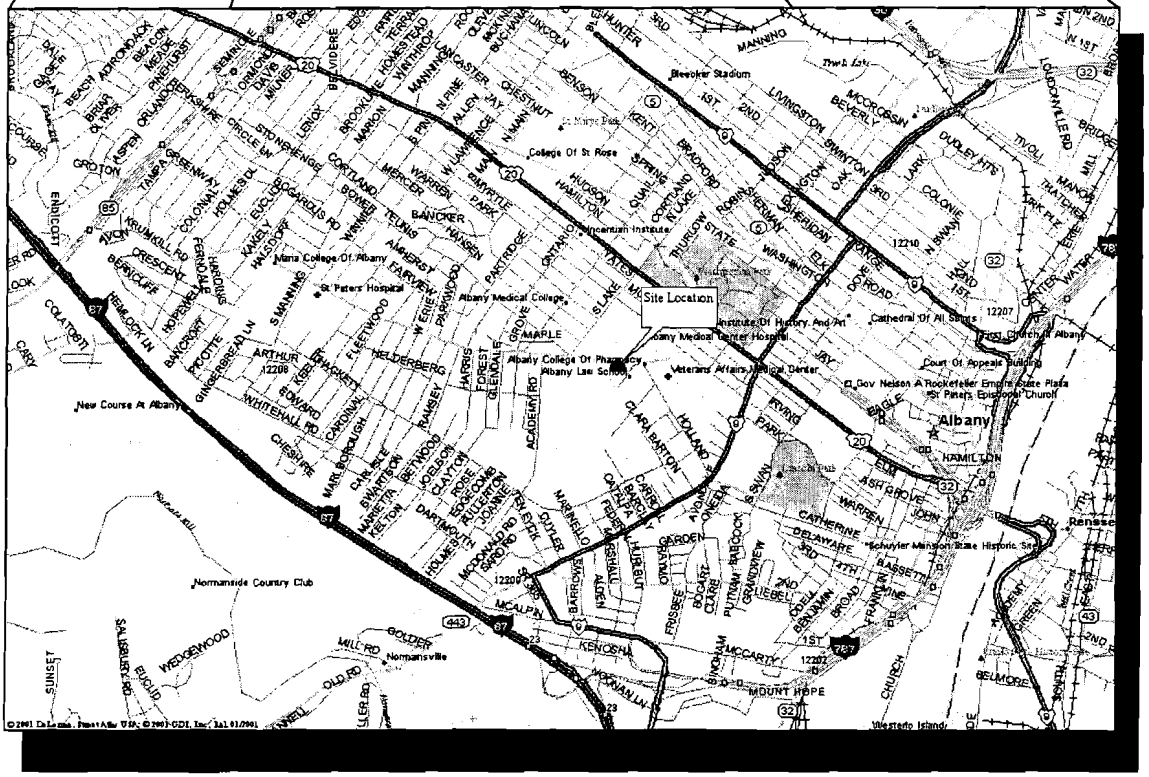
Pursuant to a modified Consent Order agreed upon by the NYSDOH and the NYSDEC, ERM collected ground water samples from shallow monitoring wells MW-8S, MW-9S, and MW-11S on 7 September 2006. ERM has also prepared this letter report to the NYSDOH in accordance with the agreed upon provisions of the redefined scope of work.

Laboratory analytical data from the 7 September 2006 sampling event indicate that MTBE was detected in the ground water sample collected from shallow ground water monitoring well MW-11S at a concentration below the NYSDEC Ambient Water Quality Guidance Value. VOCs were not detected in the other sampled shallow monitoring wells located at the Site.

ERM repaired the well cover and associated road box for monitoring well MW-8 on 6 September 2006. In addition, ERM repaired the concrete base associated with monitoring well MW-11S and replaced the lock for monitoring well MW-11S on 6 September 2006.

ATTACHMENT A
FIGURES





SITE LOCATION MAP
DAVID AXELROD FACILITY
ALBANY, NEW YORK

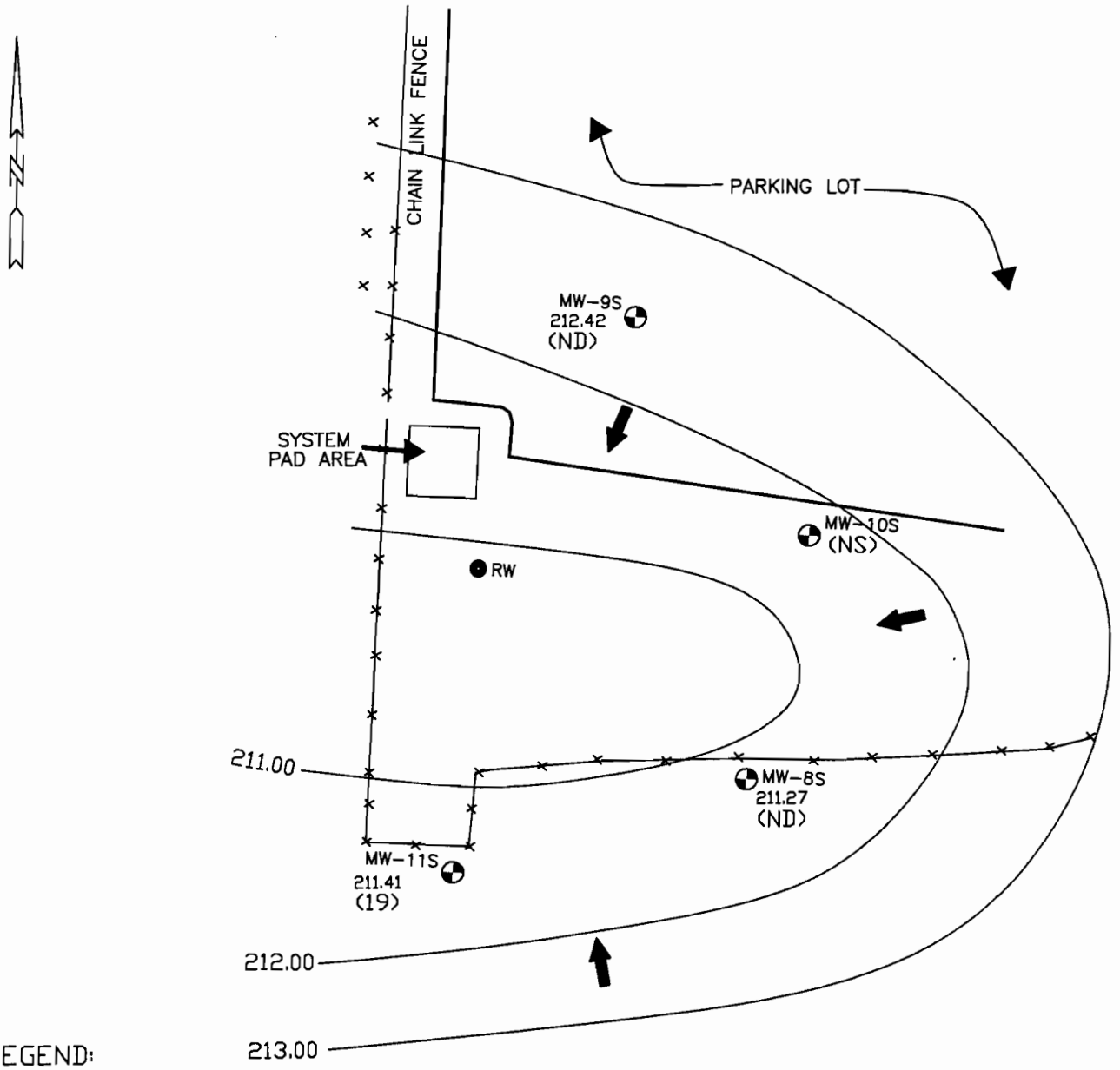
PREPARED FOR

NYS DEPARTMENT OF HEALTH

ERM-Northeast

SCALE	FIGURE
AS SHOWN	1
DATE 10/06	

PROJECT 0025525



LEGEND:

MW-8S	MONITORING WELL LOCATION AND DESIGNATION
MW-8S 211.27	GROUND WATER ELEVATION
211.00	GROUND WATER CONTOUR
	GROUND WATER FLOW DIRECTION
(19)	SUM OF VOC'S DETECTED (ug/l)
(ND)	NO COMPOUNDS DETECTED
(NS)	WELL NOT SAMPLED (Destroyed)

GRAPHIC SCALE

30 0 15 30 60

(IN FEET)

NOTES: Locations are Estimated and Approximate.
7 September 2006 Monitoring & Sampling Event

GROUND WATER DATA PLOT
DAVID AXELROD FACILITY
ALBANY, NEW YORK

PREPARED FOR
NYS DEPARTMENT OF HEALTH

ERM-Northeast

SCALE: AS SHOWN
DATE: 09/06
FIGURE: 2

PROJECT 0018595

ATTACHMENT B
TABLES

TABLE 1
SUMMARY OF DETECTED VOC's
AXELROD FACILITY
ALBANY, NEW YORK
ERM PROJECT NUMBER 0028595

Sample Location Date Sampled	NYSDEC Standard	MW-8S 12/22/2003	MW-9S 12/22/2003	MW-10S 12/22/2003	MW-11S 12/22/2003	MW-8S 3/2/2005	MW-9S 3/2/2005	MW-10S 3/2/2005	MW-11S 3/2/2005
TCL VOCs (ug/L)									
Methyl tery-butyl ether	10	0.0	0.0	NS	0.0	0.0	0.0	NS	2.1
Total VOCs	10	0.0	0.0	NS	0.0	0.0	0.0	NS	2.1

Sample Location Date Sampled	NYSDEC Standard	MW-8S 9/7/2006	MW-9S 9/7/2006	MW-10S 9/7/2006	MW-11S 9/7/2006
TCL VOCs (ug/L)					
Methyl tery-butyl ether	10	0.0	0.0	NS	**19J**
Total VOCs	10	0.0	0.0	NS	**19J**

NOTES :

NYSDEC Standards - NYSDEC Ambient Water Quality Standards - TOGS 1.1.1
TCL VOCs = Target Compound List Volatile Organic Compounds.
ug/L = micrograms per liter.
Bold Text - Above NYSDEC Standard
J = estimated value
- Only those analytes that were detected in at least one sample are presented.
- All samples analyzed for TCL VOCs by EPA Method 8260B.
- MW-10S was not sampled (NS) since the well was destroyed.

TABLE 2
SUMMARY OF GROUND WATER ELEVATION DATA
AXELROD FACILITY
ALBANY, NEW YORK
ERM PROJECT NUMBER 0028595

Well Location	MW-8S	MW-9S	MW-10S	MW-11S
Elevation at Top of Casing	216.42	219.64	218.59	219.39
Total Depth of Well	17.92	19.75	NM	16.22
Screen Length	10	15	10	10
Date				
12/22/2003	211.74	213.24	NM	212.17
3/2/2005	211.40	213.00	NM	211.54
9/7/2006	211.27	212.42	NM	211.41

NOTES:

- All measurements reported in feet.

NM = Not measured (well was destroyed).

ATTACHMENT C
GROUND WATER SAMPLING RECORDS

GROUND WATER SAMPLING RECORD

SITE Axelrod Facility DATE 9/7/06

PROJECT NUMBER: 0055131

SAMPLE ID: AX-MW-8S(090706)

WELL ID: MW-8S Time Onsite: Time Offsite:

SAMPLERS: David W. Myers 8:50 13:00

Depth of well (from top of casing) ..... 17.95 Time: 9:00

Static water level (from top of casing) ..... 5.15 Time: 9:00

Water level after purging (from top of casing) ..... 6.77 Time: 11:45

Water level before sampling (from top of casing) ..... 5.26 Time: 11:55

Purging Method:

___ Airlift ___ Low-Flow Pump

X Bailer Dedicated ___ Peristaltic Pump

___ Submersible ___ Ded. Pump

Volume of water removed: ~8 gal.

Well Volume Calculation:

		1 volume	3 volumes
2 in. well:	12.80 ft. of water x 0.16 =	2.1 gal.	x 3 = 6.3 gal.
3 in. well:	___ ft. of water x 0.36 =	___ gal.	x 3 = ___ gal.
4 in. well:	___ ft. of water x 0.65 =	___ gal.	x 3 = ___ gal.
6 in. well:	___ ft. of water x 1.47 =	___ gal.	x 3 = ___ gal.

>3 volumes: yes ✓ no ___ purged dry? yes ___ no ✓

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	~~%~~ mg/L	C F	-	-	g/L	mV
Initial									
1 Volume									
2 Volumes									
3 Volumes	6.8	2.318	—	37.1	19.4°C	—	—	—	14.7

Sampling

Time of Sample Collection: 11:55

Collection Method:

X ~~Disposable~~ Dedicated bailer

___ Teflon bailer

___ Dedicated pump

___ Submersible Pump

___ Low-Flow Sampling

___ Other: ___

Analyses:

X VOCs -

___ SVOCs

___ Metals

___ PCB/Pest

___ MNA

___ Other

Analytical Method:

8260 X 503.1 ___ Other ___

ASP Level B

Observations

Weather/Temperature: Partly cloudy, light + variable wind - 70°-75°F

Sample Description: light brown, cloudy

Free Product? yes ___ no ✓ describe ___

Sheen? yes ___ no ✓ describe ___

Odor? yes ✓ no ___ describe Sweet smell

Comments:

Road Box repaired 9/6/06

Replace bailer cord next visit.

GROUND WATER SAMPLING RECORD

SITE Axelrod Facility DATE 9/7/06

ROJECT NUMBER: 0055131

SAMPLE ID : AX-MW-9S (090706)

WELL ID : MW-9S

SAMPLERS : David W. Myers

		Time Onsite:	Time Offsite:
		8:50	13:00

Depth of well (from top of casing)	19.76	Time: 9:05
Static water level (from top of casing)	7.22	Time: 9:05
Water level after purging (from top of casing)	18.85	Time: 10:00
Water level before sampling (from top of casing)	15.80	Time: 10:30

Purging Method:

- ___ Airlift
- ___ Low-Flow Pump
- X Bailer (dedicated)
- ___ Peristaltic Pump
- ___ Submersible
- ___ Ded. Pump

Well Volume Calculation:

			1 volume	3 volumes
2 in. well:	12.54	ft. of water x 0.16 =	2.0 gal.	x 3 = 6.0 gal.
3 in. well:	___	ft. of water x 0.36 =	___ gal.	x 3 = ___ gal.
4 in. well:	___	ft. of water x 0.65 =	___ gal.	x 3 = ___ gal.
6 in. well:	___	ft. of water x 1.47 =	___ gal.	x 3 = ___ gal.

Volume of water removed: ~7 gal.

>3 volumes: yes ✓ no ___ purged dry? yes ___ no ✓

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	~~%~~ g/L	C F	-	-	g/L	mV
Initial									
1 Volume									
2 Volumes									
3 Volumes	6.52	2.617		30.3	15.9°C	—	—	—	28.8

Sampling

Time of Sample Collection: 10:30

Collection Method:

- X ~~Disposable~~ Dedicated bailer
- ___ Teflon bailer
- ___ Dedicated pump
- ___ Submersible Pump
- ___ Low-Flow Sampling
- ___ Other: ___

Analyses:

- ✓ VOCs -
- ___ SVOCs
- ___ Metals
- ___ PCB/Pest
- ___ MNA
- ___ Other

Analytical Method: 8260 X 503.1 ___ Other ___

ASP Level B

Observations

Weather/Temperature: Partly cloudy, light + variable wind, 70°-75°F

Sample Description: light brown, cloudy

Free Product? yes ___ no ✓ describe ___

Sheen? yes ___ no ✓ describe ___

Odor? yes ___ no ✓ describe ___

Comments:

Duplicate obtained at this location.
Well cover replaced "tightly".

GROUND WATER SAMPLING RECORD

SITE Axelrod Facility DATE 9/7/06

PROJECT NUMBER: 0055131

SAMPLE ID: AX-MW-11S (090706)

WELL ID: MW-11S Time Onsite: Time Offsite:

SAMPLERS: David W. Myers 8:50 13:00

Depth of well (from top of casing) ..... 16.16 Time: 8:55

Static water level (from top of casing) ..... 7.98 Time: 8:55

Water level after purging (from top of casing) ..... 15.20 Time: 11:00

Water level before sampling (from top of casing) ..... 12.55 Time: 11:25

Purging Method:

___ Airlift ___ Low-Flow Pump

X Bailer (dedicated) ___ Peristaltic Pump

___ Submersible ___ Ded. Pump

Well Volume Calculation:

		1 volume	3 volumes
2 in. well:	8.18 ft. of water x 0.16 =	1.3 gal.	x 3 = 3.9 gal.
3 in. well:	___ ft. of water x 0.36 =	___ gal.	x 3 = ___ gal.
4 in. well:	___ ft. of water x 0.65 =	___ gal.	x 3 = ___ gal.
6 in. well:	___ ft. of water x 1.47 =	___ gal.	x 3 = ___ gal.

Volume of water removed: 7.5 gal. >3 volumes: yes ✓ no ___ purged dry? yes ___ no ✓

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	~~mg/L~~	C F	-	-	g/L	mV
Initial									
1 Volume									
2 Volumes									
3 Volumes	~~6.52~~ 7.04	~~2.617~~ 0.788	—	~~30.3~~ 48.0	16.5°C	—	—	-	~~28.8~~ 99.6

Sampling

Time of Sample Collection: 11:25

Collection Method:		Analyses:		Analytical Method:			
X	~~Disposable~~ Dedicated bailer	✓	VOCs -	8260 X	503.1 ___	Other ___	
___	Teflon bailer	___	SVOCs				
___	Dedicated pump	___	Metals	ASP Level B			
___	Submersible Pump	___	PCB/Pest				
___	Low-Flow Sampling	___	MNA				
___	Other: ___	___	Other				

Observations

Weather/Temperature: Partly cloudy, light + variable winds, 70°-75°F

Sample Description: ___

Free Product? yes ___ no ✓ describe ___

Sheen? yes ___ no ✓ describe ___

Odor? yes ___ no ✓ describe ___

Comments:

Replace bailer cord next visit.

Concrete replaced 9/6/06 - New Lock installed.

ATTACHMENT D
DATA VALIDATION REPORT

DATA VALIDATION REPORT
AXELROD FACILITY
ALBANY, NEW YORK
GROUND WATER SAMPLE ANALYSES
ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)
PROJECT NUMBER 0055131
ADIRONDACK ENVIRONMENTAL SERVICES, INC.
JOB NUMBER 060907030

Deliverables:

The above referenced data package for three (3) ground water samples, one (1) blind field duplicate sample, and one (1) trip blank contains all required deliverables as stipulated under the 2000 New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) for Category B deliverables. The sample specific analysis included Target Compound List (TCL) Volatile Organic Compounds (VOC) analyzed by United States Environmental Protection Agency (USEPA) SW-846 Method 8260B. The samples were analyzed following *"Test Methods for Evaluation Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions"*. The data have been validated according to the protocols and quality control (QC) requirements of the ASP, the National Functional Guidelines for Organic Data Review (October 1999), the USEPA Region II Data Review Standard Operating Procedure (SOP) Number HW-24, Revision 1, June 1999: Validating Volatile Organic Compounds by SW-846 Method 8260B, and the reviewer's professional judgment.

The validation report pertains to the following samples:

Samples	*QC Samples*
AX-MW-8S (090706)	AX-DUPE (090706) – Blind Field Duplicate of sample AX-MW-9S (090706)
AX-MW-9S (090706)	AX-TB (090706) - Trip Blank
AX-MW-11S (090706)	AX-MW-9S (090706) MS/MSD (selected by laboratory)

Volatiles

The following items/criteria were reviewed for this report:

- Case narrative and deliverables compliance
- Holding times and sample preservation (including pH and temperature)

- Surrogate Compound recoveries, summary and data
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) results, recoveries, summary and data
- Laboratory Check Sample (LCS), recoveries, summary and data
- Method blank summary and data
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning and performance
- Initial and continuing calibration summaries and data
- Internal standard areas, retention times, summary and data
- Trip Blank results
- Blind Field Duplicate sample results
- Organic analysis data sheets (Form I)
- GC/MS chromatograms, mass spectra and quantitation reports
- Quantitation/detection limits
- Qualitative and quantitative compound identification

The items listed above were technically and contractually in compliance with SW-846 protocols with the exceptions discussed in the text below. The data have been validated according to the procedures outlined above and qualified accordingly.

- Typically a Matrix Spike/Matrix Spike Duplicate (MS/MSD) set is collected and submitted to the laboratory per twenty field samples collected. In this case, no MS/MSD was collected or submitted to the laboratory. The laboratory analyzed the MS/MSD on sample MW-9S (090706) from this deliverable. No qualification of the sample data is required.

- The following table lists compounds that exceeded 30 percent relative standard deviation (%RSD) for relative response factors (RRF) in the initial calibration (ICAL). Associated field samples are also listed. Positive results for these compounds in associated samples are considered estimated and flagged "J". All non-detect results for the compound of interest in the appropriate samples are flagged "UJ".

Calibration	Compound	Deficiency	Associated Samples
ICAL 09/08/06 12:24-13:29	2-Hexanone	%RSD=31.1	All samples
	Methyl t-butyl ether	%RSD=34.6	All samples
	1,2-Dibromo-3-chloropropane	%RSD=31.8	All samples

Calibration	Compound	Deficiency	Associated Samples
	1,2,4-Trichlorobenzene	%RSD=35.7	All samples

Package Summary:

All data are valid and usable with qualifications as noted in this review.

Signed: _____ Dated: 13 October 2006

Melissa A. McGinnis
Project Scientist

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-8S

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S

Matrix: (soil/water) WATER Lab Sample ID: AX-MW-8S

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: E2589

Level: (low/med) LOW Date Received: 09/07/06

% Moisture: not dec._____ Date Analyzed: 09/08/06

GC Column: DB-624 ID: .18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U J
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	m,p-Xylene	10.	U
95-47-6	o-Xylene	10.	U
1634-04-4	Methyl t-butyl ether	7.	& UJ
75-71-8	Dichlorodifluoromethane	10.	U
79-20-9	Methyl Acetate	10.	U
76-13-1	Freon 113	10.	U
75-69-4	Trichlorofluoromethane	10.	U
110-82-7	Cyclohexane	10.	U
108-87-2	Methylcyclohexane	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
98-82-8	Isopropylbenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
96-12-8	1,2-Dibromo-3-chloropropane	10.	U J
120-82-1	1,2,4-Trichlorobenzene	10.	U J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-9S

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S

Matrix: (soil/water) WATER Lab Sample ID: AX-MW-9S

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: E2587

Level: (low/med) LOW Date Received: 09/07/06

% Moisture: not dec._____ Date Analyzed: 09/08/06

GC Column: DB-624 ID: .18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U J
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	m,p-Xylene	10.	U
95-47-6	o-Xylene	10.	U
1634-04-4	Methyl t-butyl ether	10.	U J
75-71-8	Dichlorodifluoromethane	10.	U
79-20-9	Methyl Acetate	10.	U
76-13-1	Freon 113	10.	U
75-69-4	Trichlorofluoromethane	10.	U
110-82-7	Cyclohexane	10.	U
108-87-2	Methylcyclohexane	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
98-82-8	Isopropylbenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
96-12-8	1,2-Dibromo-3-chloropropane	10.	U J
120-82-1	1,2,4-Trichlorobenzene	10.	U J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-11S

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S

Matrix: (soil/water) WATER Lab Sample ID: AX-MW-11S

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: E2588

Level: (low/med) LOW Date Received: 09/07/06

% Moisture: not dec._____ Date Analyzed: 09/08/06

GC Column: DB-624 ID: .18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	UJ
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	m,p-Xylene	10.	U
95-47-6	o-Xylene	10.	U
1634-04-4	Methyl t-butyl ether	19.	J
75-71-8	Dichlorodifluoromethane	10.	U
79-20-9	Methyl Acetate	10.	U
76-13-1	Freon 113	10.	U
75-69-4	Trichlorofluoromethane	10.	U
110-82-7	Cyclohexane	10.	U
108-87-2	Methylcyclohexane	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
98-82-8	Isopropylbenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
96-12-8	1,2-Dibromo-3-chloropropane	10.	UJ
120-82-1	1,2,4-Trichlorobenzene	10.	UJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-DUPE

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S

Matrix: (soil/water) WATER Lab Sample ID: AX-DUPE

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: E2590

Level: (low/med) LOW Date Received: 09/07/06

% Moisture: not dec._____ Date Analyzed: 09/08/06

GC Column: DB-624 ID: .18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U J
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	m,p-Xylene	10.	U
95-47-6	o-Xylene	10.	U
1634-04-4	Methyl t-butyl ether	10.	U J
75-71-8	Dichlorodifluoromethane	10.	U
79-20-9	Methyl Acetate	10.	U
76-13-1	Freon 113	10.	U
75-69-4	Trichlorofluoromethane	10.	U
110-82-7	Cyclohexane	10.	U
108-87-2	Methylcyclohexane	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
98-82-8	Isopropylbenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
96-12-8	1,2-Dibromo-3-chloropropane	10.	U J
120-82-1	1,2,4-Trichlorobenzene	10.	U J

ATTACHMENT E
LABORATORY ANALYTICAL REPORT

Adirondack
Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • (518) 434-4546 • Fax (518) 434-0891

ERM - Northeast, Inc.
5788 Widewaters Parkway
Dewitt, New York 13214

Attention: David W. Myers

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • (518) 434-4546 • Fax (518) 434-0891

TITLE PAGE

On September 7, 2006 five water samples were received by Adirondack Environmental Services, Inc. from ERM at the Axelrod Institute site. These samples were analyzed for Volatile Organics in accordance with methodology as detailed by the contract. The project was completed on September 26, 2006.

Laboratory Manager

Date: 9/26/06

Adirondack
Environmental Services, Inc.
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SAMPLE DATA

SUMMARY PACKAGE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

Customer Sample Code	Laboratory Sample Code	*VOA GC/MS Method	*BNA GC/MS Method	*PCB GC Method	*Pest GC Method	*Metals	*Other CN
AX-MW-9S	060907030-001	X					
AX-MW-11S	060907030-002	X					
AX-MW-8S	060907030-003	X					
AX-DUPE	060907030-004	X					
AX-TB	060907030-005	X					

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
060907030-001	WATER	9/7/06	9/7/06	N/A	9/8/06
060907030-002	WATER	9/7/06	9/7/06	N/A	9/8/06
060907030-003	WATER	9/7/06	9/7/06	N/A	9/8/06
060907030-004	WATER	9/7/06	9/7/06	N/A	9/8/06
060907030-005	WATER	9/7/06	9/7/06	N/A	9/8/06

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Case Narrative

Client: ERM – Axelrod Institute

Case: ERM 0603

SDG: AX-MW-8S

Sample ID	Laboratory Sample ID	Date Received	VTSR	Matrix
AX-MW-9S	060907030-001	09/07/06	12:22	Water
AX-MW-11S	060907030-002	09/07/06	12:22	Water
AX-MW-8S	060907030-003	09/07/06	12:22	Water
AX-DUPE	060907030-004	09/07/06	12:22	Water
AX-TB	060907030-005	09/07/06	12:22	Water

Volatile Organics

1) The samples were analyzed using EPA Method 8260 following the criteria for EPA CLP.

2) The samples received on 9/7/06 had a temperature of 6 °C.

3) The water samples were preserved with HCl to a pH of less than 2. All samples were analyzed within the required holding times.

4) The %RSD's for the compounds Carbon Tetrachloride and 1,2,4-Trichlorobenzene in the initial calibration analyzed on 9/8/06 were outside the criteria established by the method. The %RSD's for these compounds were 24.7 % and 35.7 %, respectively. According to the protocol, two volatile organic compounds may exceed the %RSD limit of 20.5 % as long as the %RSD is less than 40 % and the RRF is above 0.010. The %RSD was below 40 % and the RRF was greater than 0.010 for these compounds.

5) Sample AX-MW-9S (AES sample number 060907030-001) was used for the matrix spike and matrix spike duplicate analysis. All recoveries were within acceptable limits.

6) The column used in Instrument E for analysis was an RTX-624, 20 meters long with an internal diameter of 0.18 mm. The trap used for this instrument is a VOCARB 4000 with Carbopack C&B / Carboxen 1000 & 1001.

Adirondack Environmental Services, Inc.
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"I certify that this data package is in compliance with the terms and conditions of the protocol, both technically and for completeness, to the best of my knowledge, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Laboratory Manager

Date: 9/26/06

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-8S

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S

Matrix: (soil/water) WATER Lab Sample ID: AX-MW-8S

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: E2589

Level: (low/med) LOW Date Received: 09/07/06

% Moisture: not dec._____ Date Analyzed: 09/08/06

GC Column: DB-624 ID: .18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	m,p-Xylene	10.	U
95-47-6	o-Xylene	10.	U
1634-04-4	Methyl t-butyl ether	7.	J
75-71-8	Dichlorodifluoromethane	10.	U
79-20-9	Methyl Acetate	10.	U
76-13-1	Freon 113	10.	U
75-69-4	Trichlorofluoromethane	10.	U
110-82-7	Cyclohexane	10.	U
108-87-2	Methylcyclohexane	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
98-82-8	Isopropylbenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
96-12-8	1,2-Dibromo-3-chloropropane	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-9S

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S

Matrix: (soil/water) WATER Lab Sample ID: AX-MW-9S

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: E2587

Level: (low/med) LOW Date Received: 09/07/06

% Moisture: not dec._____ Date Analyzed: 09/08/06

GC Column: DB-624 ID: .18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	m,p-Xylene	10.	U
95-47-6	o-Xylene	10.	U
1634-04-4	Methyl t-butyl ether	10.	U
75-71-8	Dichlorodifluoromethane	10.	U
79-20-9	Methyl Acetate	10.	U
76-13-1	Freon 113	10.	U
75-69-4	Trichlorofluoromethane	10.	U
110-82-7	Cyclohexane	10.	U
108-87-2	Methylcyclohexane	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
98-82-8	Isopropylbenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
96-12-8	1,2-Dibromo-3-chloropropane	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

AX-MW-11S

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S

Matrix: (soil/water) WATER Lab Sample ID: AX-MW-11S

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: E2588

Level: (low/med) LOW Date Received: 09/07/06

% Moisture: not dec._____ Date Analyzed: 09/08/06

GC Column: DB-624 ID: .18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	m,p-Xylene	10.	U
95-47-6	o-Xylene	10.	U
1634-04-4	Methyl t-butyl ether	19.	
75-71-8	Dichlorodifluoromethane	10.	U
79-20-9	Methyl Acetate	10.	U
76-13-1	Freon 113	10.	U
75-69-4	Trichlorofluoromethane	10.	U
110-82-7	Cyclohexane	10.	U
108-87-2	Methylcyclohexane	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
98-82-8	Isopropylbenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
96-12-8	1,2-Dibromo-3-chloropropane	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

AX-DUPE

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S

Matrix: (soil/water) WATER Lab Sample ID: AX-DUPE

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: E2590

Level: (low/med) LOW Date Received: 09/07/06

% Moisture: not dec._____ Date Analyzed: 09/08/06

GC Column: DB-624 ID: .18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	m,p-Xylene	10.	U
95-47-6	o-Xylene	10.	U
1634-04-4	Methyl t-butyl ether	10.	U
75-71-8	Dichlorodifluoromethane	10.	U
79-20-9	Methyl Acetate	10.	U
76-13-1	Freon 113	10.	U
75-69-4	Trichlorofluoromethane	10.	U
110-82-7	Cyclohexane	10.	U
108-87-2	Methylcyclohexane	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
98-82-8	Isopropylbenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
96-12-8	1,2-Dibromo-3-chloropropane	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-TB

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S

Matrix: (soil/water) WATER Lab Sample ID: AX-TB

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: E2591

Level: (low/med) LOW Date Received: 09/07/06

% Moisture: not dec._____ Date Analyzed: 09/08/06

GC Column: DB-624 ID: .18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	m,p-Xylene	10.	U
95-47-6	o-Xylene	10.	U
1634-04-4	Methyl t-butyl ether	10.	U
75-71-8	Dichlorodifluoromethane	10.	U
79-20-9	Methyl Acetate	10.	U
76-13-1	Freon 113	10.	U
75-69-4	Trichlorofluoromethane	10.	U
110-82-7	Cyclohexane	10.	U
108-87-2	Methylcyclohexane	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
98-82-8	Isopropylbenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
96-12-8	1,2-Dibromo-3-chloropropane	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
1	VBLK01	91	88	103		0
2	AX-MW-9S	94	92	105		0
3	AX-MW-11S	100	94	100		0
4	AX-MW-8S	103	92	108		0
5	AX-DUPE	105	97	106		0
6	AX-TB	98	91	103		0
7	AX-MW-9S MS	102	96	107		0
8	AX-MW-9S MSD	95	88	109		0
9	VMSB	94	90	111		0
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	QC LIMITS
SMC1 (TOL) = Toluene-d8	(88-110)
SMC2 (BFB) = Bromofluorobenzene	(86-115)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S

Matrix Spike - EPA Sample No.: AX-MW-9S

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.	0.	39.	78	61-145
Trichloroethene	50.	0.	48.	96	71-120
Benzene	50.	0.	48.	96	76-127
Toluene	50.	0.	53.	106	76-125
Chlorobenzene	50.	0.	52.	104	75-130

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.	39.	78	0	14	61-145
Trichloroethene	50.	48.	96	0	14	71-120
Benzene	50.	48.	96	0	11	76-127
Toluene	50.	48.	96	10	13	76-125
Chlorobenzene	50.	49.	98	6	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

3A

WATER VOLATILE MATRIX SPIKE BLANK RECOVERY

LAB NAME Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: ERM 0603 SAS No.: SDG No.: AX-MW-8S

Matrix Spike - EPA Sample No.: Blank Level:(Low/Med) Low

Compound	Spike Added ug/L	Sample Conc. ug/L	MS Conc. ug/L	MS % REC. #	QC Limits REC.
1,1 Dichloroethene	50	0	39	79	61-145
Trichloroethene	50	0	49	99	71-120
Benzene	50	0	49	98	76-127
Toluene	50	0	51	102	76-125
Chlorobenzene	50	0	51	102	75-130

Column used to flag recovery values

* Values outside of required QC limits

Spike Recovery 0 out of 5 outside limits

Comments: _____

_____

_____

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S

Lab File ID: EB414 Lab Sample ID: VBLK01

Date Analyzed: 09/08/06 Time Analyzed: 13:54

GC Column: DB-624 ID: .18 (mm) Heated Purge: (Y/N) N

Instrument ID: H5973 E

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	AX-MW-9S	AX-MW-9S	E2587	14:42
2	AX-MW-11S	AX-MW-11S	E2588	15:06
3	AX-MW-8S	AX-MW-8S	E2589	15:30
4	AX-DUPE	AX-DUPE	E2590	15:54
5	AX-TB	AX-TB	E2591	16:18
6	AX-MW-9S MS	AX-MW-9S MS	E2592	16:44
7	AX-MW-9S MSD	AX-MW-9S MSD	E2593	17:08
8	VMSB	VMSB	E2594	17:32
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COMMENTS:

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S
Matrix: (soil/water) WATER Lab Sample ID: VBLK01
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EB414
Level: (low/med) LOW Date Received:
% Moisture: not dec._____ Date Analyzed: 09/08/06
GC Column: DB-624 ID: .18 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	m,p-Xylene	10.	U
95-47-6	o-Xylene	10.	U
1634-04-4	Methyl t-butyl ether	10.	U
75-71-8	Dichlorodifluoromethane	10.	U
79-20-9	Methyl Acetate	10.	U
76-13-1	Freon 113	10.	U
75-69-4	Trichlorofluoromethane	10.	U
110-82-7	Cyclohexane	10.	U
108-87-2	Methylcyclohexane	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
98-82-8	Isopropylbenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
96-12-8	1,2-Dibromo-3-chloropropane	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S
Lab File ID (Standard): ES411 Date Analyzed: 09/08/06
Instrument ID: H5973 E Time Analyzed: 11:37
GC Column: DB-624 ID: .18 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	25530.	4.21	142998.	5.45	66948.	8.39
	UPPER LIMIT	51060.	4.71	285996.	5.95	133896.	8.89
	LOWER LIMIT	12765.	3.71	71499.	4.95	33474.	7.89
	EPA SAMPLE NO.						
1	VBLK01	29697.	4.22	166491.	5.46	81098.	8.40
2	AX-MW-9S	27947.	4.21	153373.	5.45	74918.	8.40
3	AX-MW-11S	26705.	4.21	148785.	5.46	68883.	8.40
4	AX-MW-8S	26254.	4.21	151168.	5.45	71074.	8.40
5	AX-DUPE	24998.	4.22	142924.	5.45	66050.	8.40
6	AX-TB	24789.	4.21	142520.	5.46	67687.	8.40
7	AX-MW-9S MS	26596.	4.21	150256.	5.45	67965.	8.40
8	AX-MW-9S MSD	26818.	4.21	152697.	5.45	73273.	8.40
9	VMSB	25444.	4.21	151433.	5.45	72674.	8.40
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22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + .50 minutes of internal standard RT
RT LOWER LIMIT = - .50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

SAMPLE DATA

PACKAGE

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • (518) 434-4546 • Fax (518) 434-0891

Case Narrative

Client: ERM – Axelrod Institute

Case: ERM 0603

SDG: AX-MW-8S

Sample ID	Laboratory Sample ID	Date Received	VTSR	Matrix
AX-MW-9S	060907030-001	09/07/06	12:22	Water
AX-MW-11S	060907030-002	09/07/06	12:22	Water
AX-MW-8S	060907030-003	09/07/06	12:22	Water
AX-DUPE	060907030-004	09/07/06	12:22	Water
AX-TB	060907030-005	09/07/06	12:22	Water

Volatile Organics

1) The samples were analyzed using EPA Method 8260 following the criteria for EPA CLP.

2) The samples received on 9/7/06 had a temperature of 6 °C.

3) The water samples were preserved with HCl to a pH of less than 2. All samples were analyzed within the required holding times.

4) The %RSD's for the compounds Carbon Tetrachloride and 1,2,4-Trichlorobenzene in the initial calibration analyzed on 9/8/06 were outside the criteria established by the method. The %RSD's for these compounds were 24.7 % and 35.7 %, respectively. According to the protocol, two volatile organic compounds may exceed the %RSD limit of 20.5 % as long as the %RSD is less than 40 % and the RRF is above 0.010. The %RSD was below 40 % and the RRF was greater than 0.010 for these compounds.

5) Sample AX-MW-9S (AES sample number 060907030-001) was used for the matrix spike and matrix spike duplicate analysis. All recoveries were within acceptable limits.

6) The column used in Instrument E for analysis was an RTX-624, 20 meters long with an internal diameter of 0.18 mm. The trap used for this instrument is a VOCARB 4000 with Carbopack C&B / Carboxen 1000 & 1001.

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"I certify that this data package is in compliance with the terms and conditions of the protocol, both technically and for completeness, to the best of my knowledge, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Laboratory Manager

Date: 9/26/06

Adirondack Environmental Services, Inc.
314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

CHAIN OF CUSTODY RECORD

Experience is the solution

A full service analytical research laboratory offering solutions to environmental concerns

Client Name:	Address:		
ERM - Northeast	5788 Widewaters Parkway - Dewitt, N.Y. 13214		
Send Report To:	Project Name (Location)	Samplers: (Names)	
David W. Myers	Axelrod Institute	David W. Myers	
Client Phone No:	Client Fax No:	PO Number:	Samplers: (Signature) David W. Myers

AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=a.m. P=p.m.	Sample Type: Matrix	Comp	Grab	Number of Cont's	Analysis Required
001	AX-MW-95 (090706)	9/7/06	10:30 (A) P	L		X	2	VOCs 8260
002	AX-MW-115 (090706)	9/7/06	11:25 (A) P	L		X	2	VOCs 8260
003	AX-MW-85 (090706)	9/7/06	11:55 (A) P	L		X	2	VOCs 8260
004	AX-Dupe (090706)	9/7/06	11:00 A P	L		X	2	VOCs 8260
005	AX-TB (090706)	9/7/06	— A P				V	Trip Blank
			A P					
			A P					
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AES Work Order #:	CC Report To / Special Instructions/Remarks:
060907030	* ASP Level B Deliverables
Turnaround Time Request: ☐ 1 Day ☐ 3 Day ☒ Normal ☐ 2 Day ☐ 5 Day	Client

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
David W. Myers		
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received for Laboratory by: J. Myers	Date/Time 9/7/06 12:22p

Temperature	Properly Preserved	Received Within Holding Times
Ambient or (Chilled)	(Y) N	(Y) N
Notes: 6	Notes:	Notes:

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

Adirondack Environmental Services, Inc
314 N. Pearl St.
Albany, NY 12207
(518) 434-4546

CHAIN-OF-CUSTODY RECORD

WorkOrder: 060907030

Client:

ERM
5788 Widewaters Parkway
Dewitt, NY 13214

TEL: (315) 445-2554
FAX: (315) 445-2543
ProjectNo: Axelrod Institute
PO:

07-Sep-06

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	Requested Tests						
					A_8260_WATI						
060907030-005	AX-TB (090706)	Water	9/7/2006		A						
060907030-004	AX-DUPE (090706)	Water	9/7/2006		A						
060907030-003	AX-MW-8S (090706)	Water	9/7/2006		A						
060907030-002	AX-MW-11S (090706)	Water	9/7/2006		A						
060907030-001	AX-MW-9S (090706)	Water	9/7/2006		A						

Comments:

		Date/Time			Date/Time
Relinquished by:	J. Ay	9/8/06 10.00am	**Received by:**	Michelle Price	9/8/06 4:00pm
Relinquished by:			**Received by:**		
Relinquished by:			**Received by:**		

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

020000

VOLATILE ORGANICS

ANALYSIS

QC

SUMMARY

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
1	VBLK01	91	88	103		0
2	AX-MW-9S	94	92	105		0
3	AX-MW-11S	100	94	100		0
4	AX-MW-8S	103	92	108		0
5	AX-DUPE	105	97	106		0
6	AX-TB	98	91	103		0
7	AX-MW-9S MS	102	96	107		0
8	AX-MW-9S MSD	95	88	109		0
9	VMSB	94	90	111		0
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30						

	QC LIMITS
SMC1 (TOL) = Toluene-d8	(88-110)
SMC2 (BFB) = Bromofluorobenzene	(86-115)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S

Matrix Spike - EPA Sample No.: AX-MW-9S

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.	0.	39.	78	61-145
Trichloroethene	50.	0.	48.	96	71-120
Benzene	50.	0.	48.	96	76-127
Toluene	50.	0.	53.	106	76-125
Chlorobenzene	50.	0.	52.	104	75-130

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.	39.	78	0	14	61-145
Trichloroethene	50.	48.	96	0	14	71-120
Benzene	50.	48.	96	0	11	76-127
Toluene	50.	48.	96	10	13	76-125
Chlorobenzene	50.	49.	98	6	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

3A

WATER VOLATILE MATRIX SPIKE BLANK RECOVERY

LAB NAME Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: ERM 0603 SAS No.: SDG No.: AX-MW-8S

Matrix Spike - EPA Sample No.: Blank Level:(Low/Med) Low

Compound	Spike Added ug/L	Sample Conc. ug/L	MS Conc. ug/L	MS % REC. #	QC Limits REC.
1,1 Dichloroethene	50	0	39	79	61-145
Trichloroethene	50	0	49	99	71-120
Benzene	50	0	49	98	76-127
Toluene	50	0	51	102	76-125
Chlorobenzene	50	0	51	102	75-130

Column used to flag recovery values

* Values outside of required QC limits

Spike Recovery 0 out of 5 outside limits

Comments: _____

_____

_____

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S

Lab File ID: EB414 Lab Sample ID: VBLK01

Date Analyzed: 09/08/06 Time Analyzed: 13:54

GC Column: DB-624 ID: .18 (mm) Heated Purge: (Y/N) N

Instrument ID: H5973 E

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	AX-MW-9S	AX-MW-9S	E2587	14:42
2	AX-MW-11S	AX-MW-11S	E2588	15:06
3	AX-MW-8S	AX-MW-8S	E2589	15:30
4	AX-DUPE	AX-DUPE	E2590	15:54
5	AX-TB	AX-TB	E2591	16:18
6	AX-MW-9S MS	AX-MW-9S MS	E2592	16:44
7	AX-MW-9S MSD	AX-MW-9S MSD	E2593	17:08
8	VMSB	VMSB	E2594	17:32
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S

Lab File ID: ET409 BFB Injection Date: 09/08/06

Instrument ID.: H5973 E BFB Injection Time: 10:29

GC Column: DB-624 ID: .18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	34.8
75	30.0 - 60.0% of mass 95	58.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	1.3 (1.4)1
174	50.0 - 120.0% of mass 95	96.0
175	5.0 - 9.0 % of mass 174	7.8 (8.1)1
176	95.0 - 101.0% of mass 174	92.7 (96.6)1
177	5.0 - 9.0% of mass 176	6.9 (7.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD020	VSTD020	ES410	09/08/06	11:14
2	VSTD050	VSTD050	ES411	09/08/06	11:37
3	VSTD100	VSTD100	ES412	09/08/06	12:01
4	VSTD200	VSTD200	ES413	09/08/06	12:24
5	VSTD010	VSTD010	ES415	09/08/06	13:29
6	VBLK01	VBLK01	EB414	09/08/06	13:54
7	AX-MW-9S	AX-MW-9S	E2587	09/08/06	14:42
8	AX-MW-11S	AX-MW-11S	E2588	09/08/06	15:06
9	AX-MW-8S	AX-MW-8S	E2589	09/08/06	15:30
10	AX-DUPE	AX-DUPE	E2590	09/08/06	15:54
11	AX-TB	AX-TB	E2591	09/08/06	16:18
12	AX-MW-9S MS	AX-MW-9S MS	E2592	09/08/06	16:44
13	AX-MW-9S MSD	AX-MW-9S MSD	E2593	09/08/06	17:08
14	VMSB	VMSB	E2594	09/08/06	17:32
15					
17					
18					
19					
20					
21					
22					

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S
Lab File ID (Standard): ES411 Date Analyzed: 09/08/06
Instrument ID: H5973 E Time Analyzed: 11:37
GC Column: DB-624 ID: .18 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	IS1(BCM) RT #	IS2(DFB) AREA #	IS2(DFB) RT #	IS3(CBZ) AREA #	IS3(CBZ) RT #
	12 HOUR STD	25530.	4.21	142998.	5.45	66948.	8.39
	UPPER LIMIT	51060.	4.71	285996.	5.95	133896.	8.89
	LOWER LIMIT	12765.	3.71	71499.	4.95	33474.	7.89
	EPA SAMPLE NO.						
1	VBLK01	29697.	4.22	166491.	5.46	81098.	8.40
2	AX-MW-9S	27947.	4.21	153373.	5.45	74918.	8.40
3	AX-MW-11S	26705.	4.21	148785.	5.46	68883.	8.40
4	AX-MW-8S	26254.	4.21	151168.	5.45	71074.	8.40
5	AX-DUPE	24998.	4.22	142924.	5.45	66050.	8.40
6	AX-TB	24789.	4.21	142520.	5.46	67687.	8.40
7	AX-MW-9S MS	26596.	4.21	150256.	5.45	67965.	8.40
8	AX-MW-9S MSD	26818.	4.21	152697.	5.45	73273.	8.40
9	VMSB	25444.	4.21	151433.	5.45	72674.	8.40
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + .50 minutes of internal standard RT
RT LOWER LIMIT = - .50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

Volatile Organics Instrument Detection Limits - Instrument E

Date Performed: 8/19/05

Analyte	E IDL01	E IDL02	E IDL03	E IDL04	E IDL05	E IDL06	E IDL07	STD DEV	IDL
1,1,1-Trichloroethane	21.11	21.32	19.83	19.59	18.86	19.57	22.62	1.3114	4.122
1,1,2,2-Tetrachloroethane	22.32	20.53	20.39	19.98	20.18	20.99	22.77	1.0937	3.438
1,1,2-Trichloroethane	23.23	22.05	21.46	22.76	20.24	20.59	23.54	1.2806	4.025
1,1-Dichloroethane	19.80	19.64	19.65	19.06	18.01	18.94	21.89	1.1928	3.749
1,1-Dichloroethene	20.80	18.60	18.62	21.20	17.85	19.19	20.63	1.3063	4.106
1,2,4-Trichlorobenzene	16.34	17.46	15.38	15.77	17.20	17.79	18.83	1.2104	3.804
1,2-Dibromoethane	22.38	22.08	20.46	21.23	21.23	22.68	24.69	1.3739	4.318
1,2-Dichlorobenzene	19.34	19.70	18.44	18.66	19.54	19.91	21.42	0.9759	3.067
1,2-Dichloroethane	20.38	20.82	19.73	20.32	18.37	18.82	22.60	1.3933	4.379
1,2-Dichloropropane	21.82	22.30	20.13	21.22	20.32	19.92	23.17	1.2248	3.849
1,3-Dichlorobenzene	19.38	19.70	18.80	18.59	19.61	20.43	21.70	1.0545	3.314
1,4-Dichlorobenzene	18.39	18.83	17.89	17.98	18.99	19.45	20.94	1.0488	3.296
2-Butanone	17.87	18.66	18.95	19.18	16.78	18.34	20.27	1.0925	3.434
2-Hexanone	17.75	15.27	15.20	16.63	15.17	16.07	18.73	1.3930	4.378
4-Methyl-2-pentanone	17.16	15.69	15.76	15.63	15.38	16.03	17.33	0.7803	2.452
Acetone	18.56	17.68	20.29	21.38	20.75	21.42	21.71	1.5540	4.884
Benzene	22.10	20.99	20.45	19.70	19.22	19.75	22.70	1.3038	4.098
Bromodichloromethane	21.22	20.86	20.22	19.17	18.95	18.83	22.30	1.3155	4.135
Bromoform	21.59	20.23	20.78	19.30	18.10	19.48	18.22	1.2892	4.052
Bromomethane	43.88	37.69	38.61	39.62	36.67	40.03	44.35	2.9545	9.286
Carbon disulfide	21.39	20.28	20.80	20.85	18.79	18.88	22.60	1.3546	4.258
Carbon tetrachloride	20.29	20.59	18.35	18.68	17.99	18.48	16.24	1.4615	4.594
hlorobenzene	21.95	21.51	21.20	19.76	20.05	20.24	21.89	0.9119	2.866
Chloroethane	25.14	28.88	25.83	25.19	25.86	24.37	30.37	2.2211	6.981
Chloroform	20.54	20.13	19.55	19.92	18.76	19.54	22.73	1.2599	3.960
Chloromethane	22.31	22.59	21.82	21.42	20.11	21.59	24.14	1.2337	3.878
cis-1,2-Dichloroethene	19.89	18.76	17.36	18.13	16.83	17.38	18.69	1.0529	3.309
cis-1,3-Dichloropropene	21.62	21.46	21.14	20.08	18.93	20.53	23.26	1.3586	4.270
Cyclohexane	16.75	18.29	18.24	18.88	18.42	18.75	20.37	1.0707	3.365
Dibromochloromethane	21.36	21.01	20.48	20.10	18.99	20.37	22.60	1.1242	3.533
Dichlorodifluoromethane	20.73	21.62	20.90	21.62	21.42	22.24	23.36	0.8869	2.787
Ethylbenzene	20.94	20.71	20.15	19.51	19.40	21.01	21.75	0.8537	2.683
Isopropylbenzene	19.16	19.85	18.56	19.39	19.56	20.29	21.75	1.0180	3.200
m,p-Xylene	43.31	41.90	42.04	39.70	40.24	40.44	39.95	1.3456	4.229
Methyl Acetate	22.19	20.57	18.23	19.31	19.86	21.20	22.05	1.4566	4.578
Methyl Cyclohexane	19.22	21.45	19.08	18.77	19.75	20.54	22.87	1.4865	4.672
Methyl tert-butyl ether	19.44	19.37	18.97	19.14	19.62	19.29	22.98	1.4046	4.415
Methylene chloride	18.08	21.08	21.12	18.71	20.66	18.40		1.4236	4.790
o-Xylene	21.11	20.68	20.79	19.96	19.86	20.85	22.64	0.9198	2.891
Styrene	22.59	21.05	21.52	21.02	20.44	21.32	23.01	0.9155	2.877
Tetrachloroethene	21.16	20.76	20.62	19.33	19.60	20.79	22.34	0.9994	3.141
Toluene	21.42	20.16	20.03	19.04	19.54	19.93	21.22	0.8576	2.695
trans-1,2-Dichloroethene	17.95	20.57	21.01	19.42	17.88	20.88	21.33	1.4600	4.589
trans-1,3-Dichloropropene	23.96	22.53	22.07	22.17	20.99	21.84	25.57	1.5377	4.833
Trichloroethene	22.31	21.53	20.87	19.55	19.21	20.84	22.84	1.3372	4.203
Trichlorofluoromethane	20.76	21.05	21.54	20.84	19.83	20.98	24.44	1.4566	4.578
Vinyl chloride	20.09	20.40	20.03	20.21	18.93	19.09	23.37	1.4663	4.609

Reviewed by QA Manager: _____

Date: 9/2/05

SAMPLE

DATA

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-8S

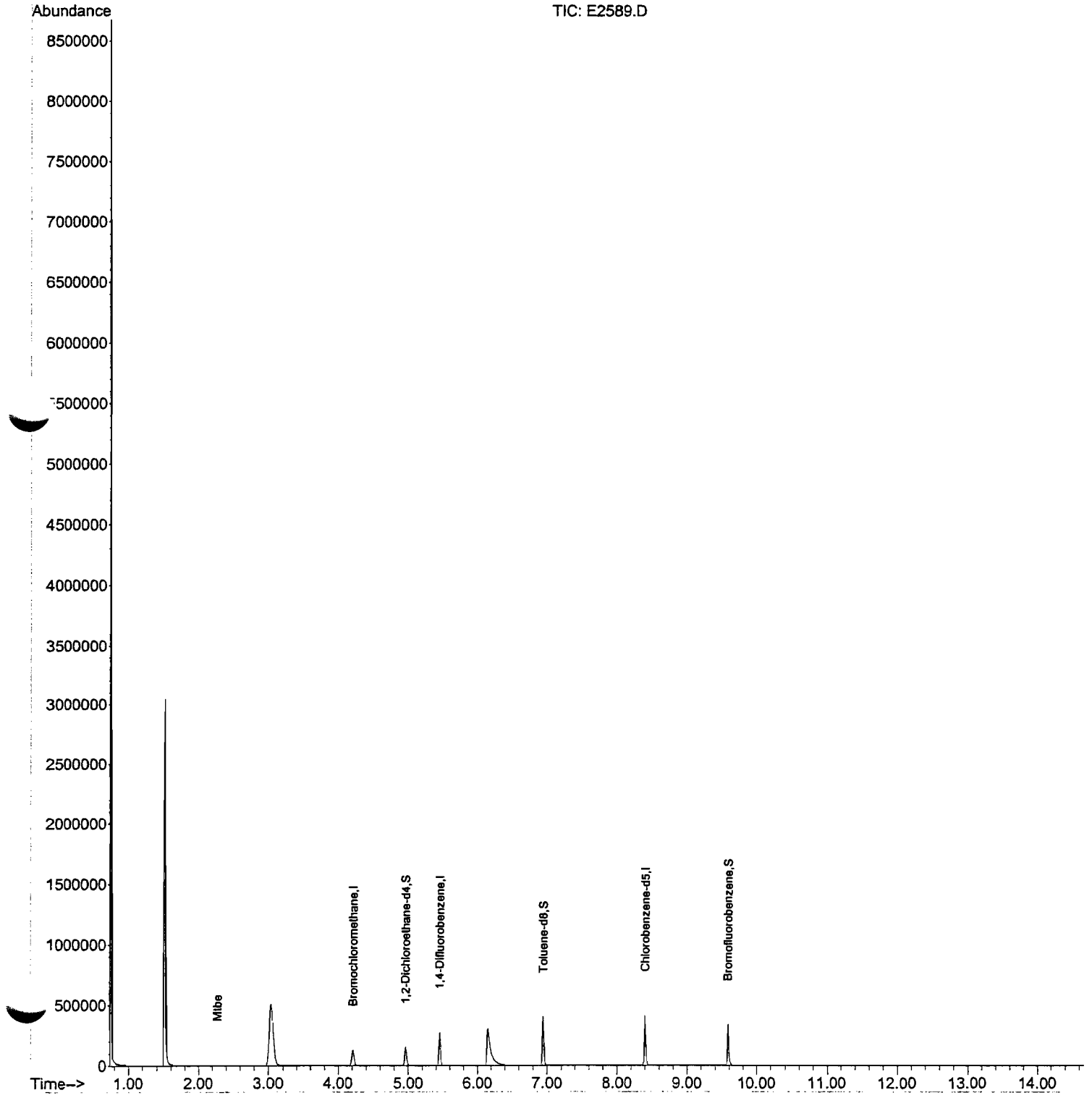
Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S
Matrix: (soil/water) WATER Lab Sample ID: AX-MW-8S
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: E2589
Level: (low/med) LOW Date Received: 09/07/06
% Moisture: not dec._____ Date Analyzed: 09/08/06
GC Column: DB-624 ID: .18 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	m,p-Xylene	10.	U
95-47-6	o-Xylene	10.	U
1634-04-4	Methyl t-butyl ether	7.	J
75-71-8	Dichlorodifluoromethane	10.	U
79-20-9	Methyl Acetate	10.	U
76-13-1	Freon 113	10.	U
75-69-4	Trichlorofluoromethane	10.	U
110-82-7	Cyclohexane	10.	U
108-87-2	Methylcyclohexane	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
98-82-8	Isopropylbenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
96-12-8	1,2-Dibromo-3-chloropropane	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\060908\
Data File : E2589.D
Acq On : 8 Sep 2006 3:30 pm
Operator :
Sample : 060907030-003A
Misc : SAMP EPA_8260_WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 08 15:46:54 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 14:11:29 2006
Response via : Continuing Cal File: C:\MSDChem\1\DATA\060908\ES411.D



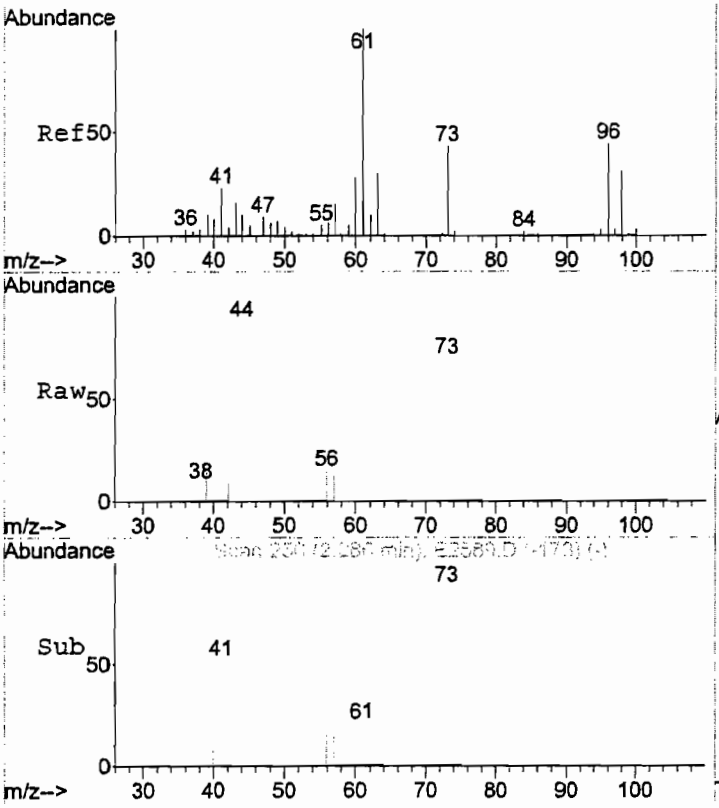
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\060908\
Data File : E2589.D
Acq On : 8 Sep 2006 3:30 pm
Operator :
ple : 060907030-003A
: SAMP EPA_8260_WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 08 15:46:54 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 14:11:29 2006
Response via : Continuing Cal File: C:\MSDChem\1\DATA\060908\ES411.D

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.21	128	26254	50.00 ug	0.00
26) 1,4-Difluorobenzene	5.45	114	151168	50.00 ug	0.00
44) Chlorobenzene-d5	8.40	117	71074	50.00 ug	0.00
System Monitoring Compounds					
24) 1,2-Dichloroethane-d4	4.96	65	135072	53.97 ug	0.00
45) Toluene-d8	6.94	98	198339	51.33 ug	0.00
56) Bromofluorobenzene	9.58	95	88952	46.24 ug	0.00
Target Compounds					Qvalue
16) Mtbe	2.29	73	4184	6.73 ug	# 75

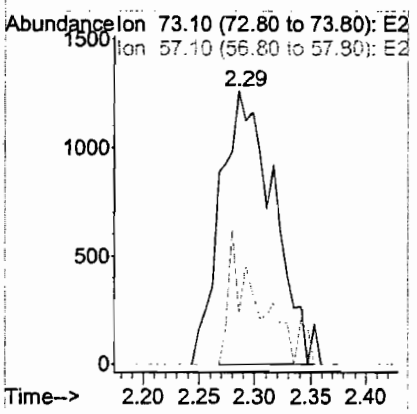
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#16
Mtbe
Concen: 6.73 ug
RT: 2.29 min Scan# 256
Delta R.T. 0.01 min
Lab File: E2589.D
Acq: 8 Sep 2006 3:30 pm

Tgt Ion: 73 Resp: 4184

Ion	Ratio	Lower	Upper
73	100		
57	19.6	27.3	40.9#



1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-9S

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S

Matrix: (soil/water) WATER Lab Sample ID: AX-MW-9S

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: E2587

Level: (low/med) LOW Date Received: 09/07/06

% Moisture: not dec._____ Date Analyzed: 09/08/06

GC Column: DB-624 ID: .18 (mm) Dilution Factor: 1.0

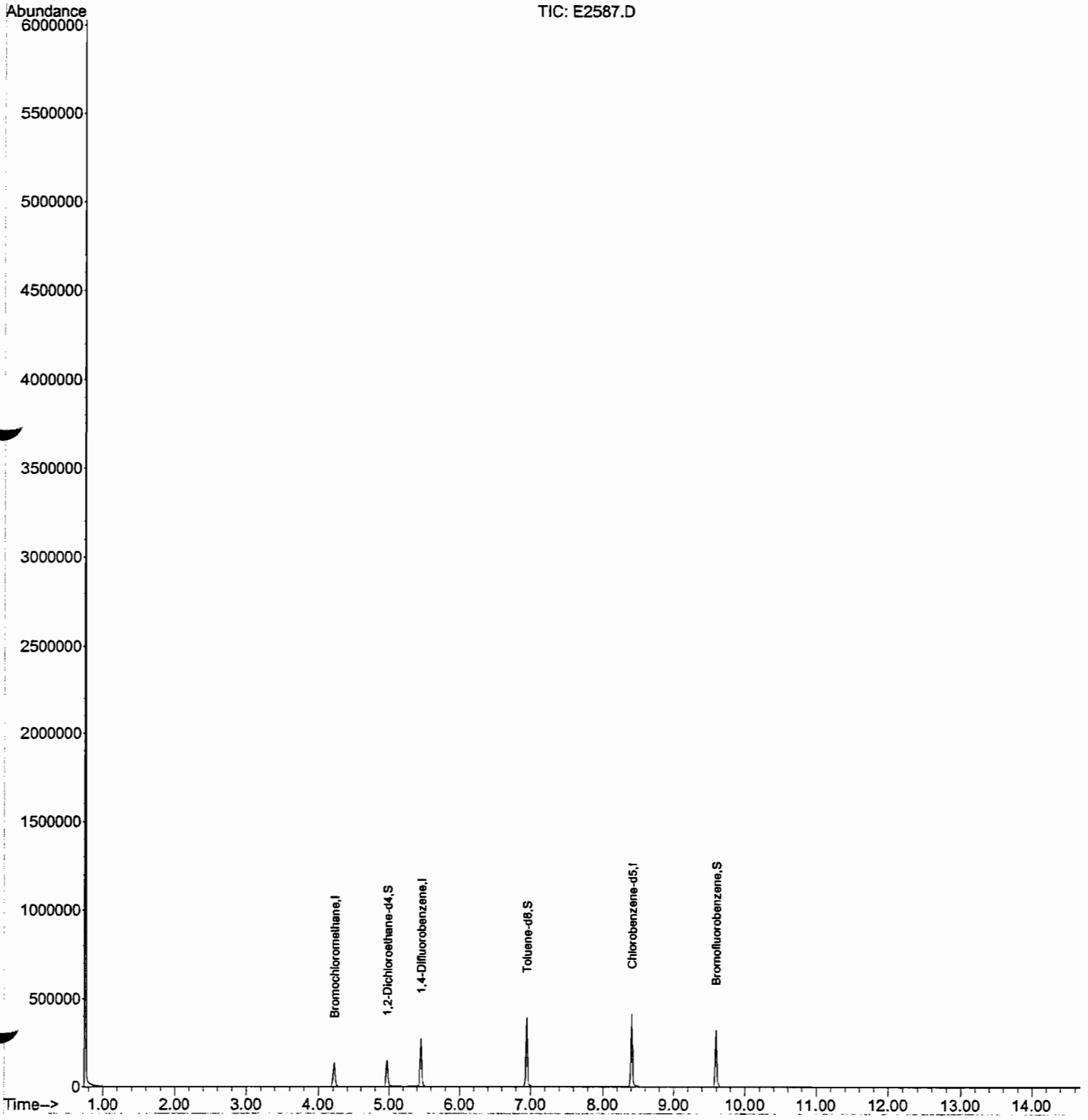
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	m,p-Xylene	10.	U
95-47-6	o-Xylene	10.	U
1634-04-4	Methyl t-butyl ether	10.	U
75-71-8	Dichlorodifluoromethane	10.	U
79-20-9	Methyl Acetate	10.	U
76-13-1	Freon 113	10.	U
75-69-4	Trichlorofluoromethane	10.	U
110-82-7	Cyclohexane	10.	U
108-87-2	Methylcyclohexane	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
98-82-8	Isopropylbenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
96-12-8	1,2-Dibromo-3-chloropropane	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\060908\
Data File : E2587.D
Acq On : 8 Sep 2006 2:42 pm
Operator :
Sample : 060907030-001A
Misc : SAMP EPA_8260_WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 11 08:37:53 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 14:11:29 2006
Response via : Continuing Cal File: C:\MSDChem\1\DATA\060908\ES411.D



000036

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\060908\
Data File : E2587.D
Acq On : 8 Sep 2006 2:42 pm
Operator :
[illegible]ple : 060907030-001A
[illegible] : SAMP EPA_8260_WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 11 08:37:53 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 14:11:29 2006
Response via : Continuing Cal File: C:\MSDChem\1\DATA\060908\ES411.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.21	128	27947	50.00	ug	0.00
26) 1,4-Difluorobenzene	5.45	114	153373	50.00	ug	0.00
44) Chlorobenzene-d5	8.40	117	74918	50.00	ug	0.00
System Monitoring Compounds						
24) 1,2-Dichloroethane-d4	4.97	65	139571	52.39	ug	0.00
45) Toluene-d8	6.94	98	191670	47.06	ug	0.00
56) Bromofluorobenzene	9.58	95	93298	46.01	ug	0.00
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

000037

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-11S

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S

Matrix: (soil/water) WATER Lab Sample ID: AX-MW-11S

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: E2588

Level: (low/med) LOW Date Received: 09/07/06

% Moisture: not dec._____ Date Analyzed: 09/08/06

GC Column: DB-624 ID: .18 (mm) Dilution Factor: 1.0

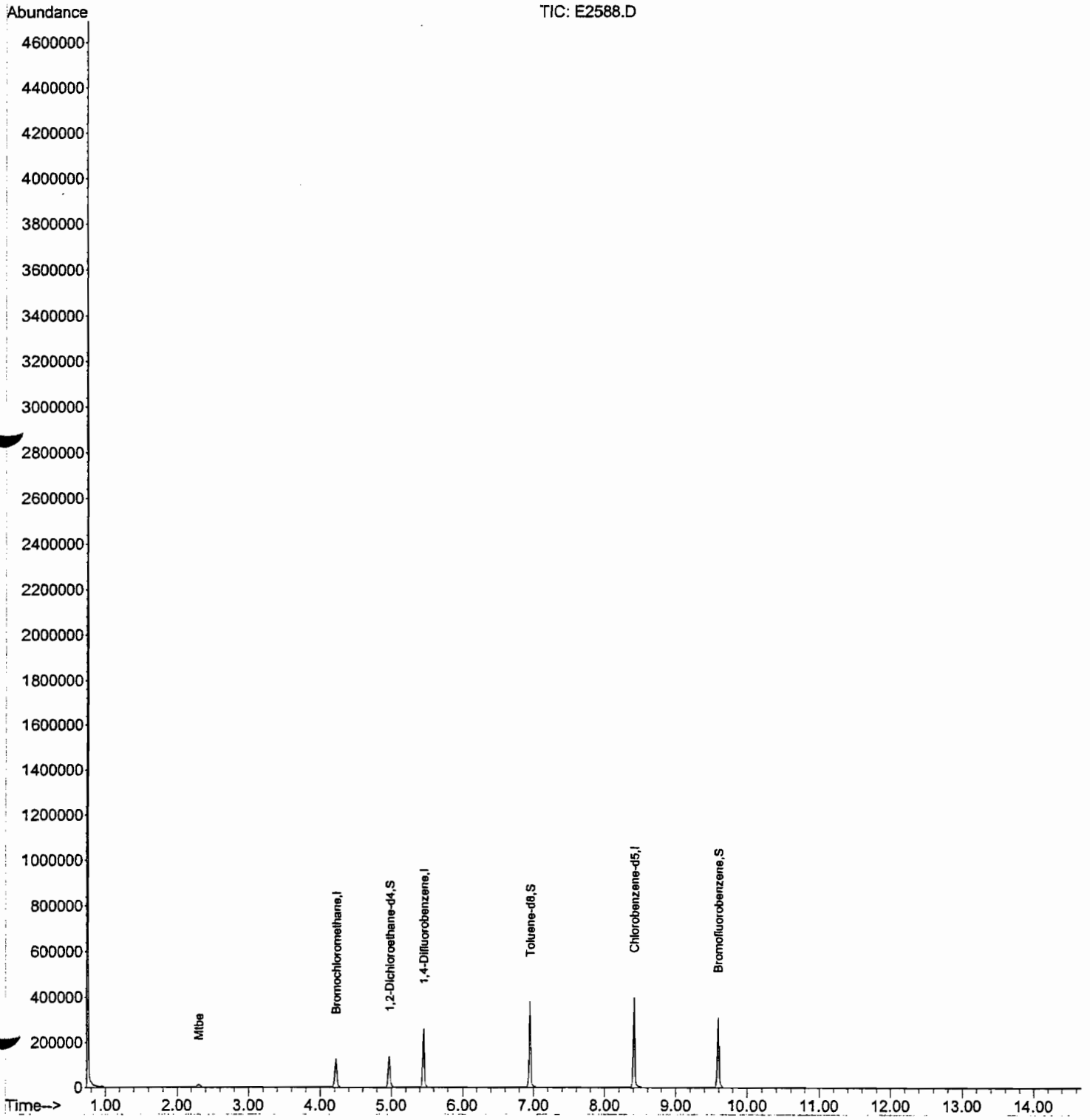
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	m,p-Xylene	10.	U
95-47-6	o-Xylene	10.	U
1634-04-4	Methyl t-butyl ether	19.	
75-71-8	Dichlorodifluoromethane	10.	U
79-20-9	Methyl Acetate	10.	U
76-13-1	Freon 113	10.	U
75-69-4	Trichlorofluoromethane	10.	U
110-82-7	Cyclohexane	10.	U
108-87-2	Methylcyclohexane	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
98-82-8	Isopropylbenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
96-12-8	1,2-Dibromo-3-chloropropane	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\060908\
Data File : E2588.D
Acq On : 8 Sep 2006 3:06 pm
Operator :
Sample : 060907030-002A
Misc : SAMP EPA_8260_WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 11 08:38:11 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 14:11:29 2006
Response via : Continuing Cal File: C:\MSDChem\1\DATA\060908\ES411.D



000039

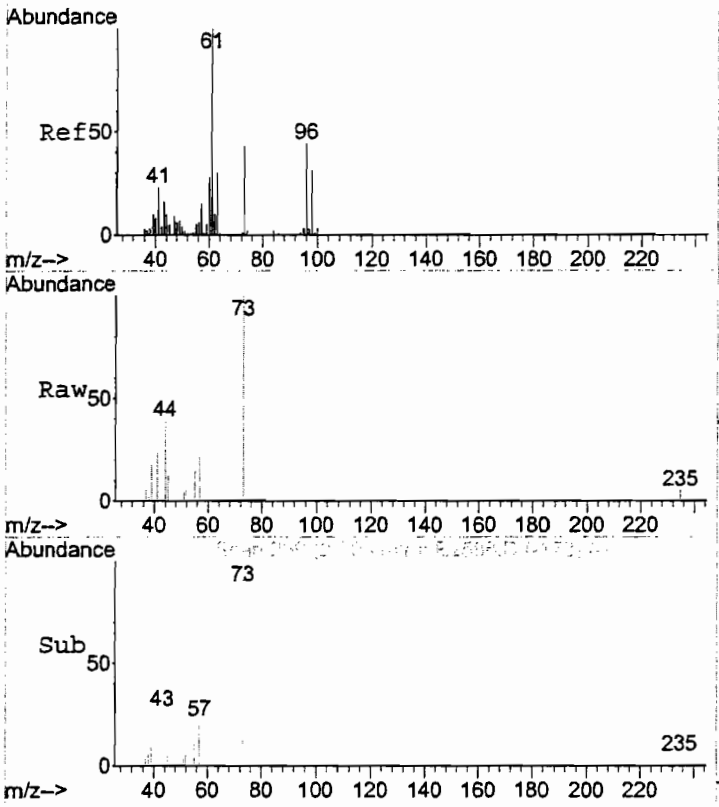
Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\060908\
Data File : E2588.D
Acq On : 8 Sep 2006 3:06 pm
Operator :
Sample : 060907030-002A
: SAMP EPA_8260_WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 11 08:38:11 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 14:11:29 2006
Response via : Continuing Cal File: C:\MSDChem\1\DATA\060908\ES411.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.21	128	26705	50.00	ug	0.00
26) 1,4-Difluorobenzene	5.46	114	148785	50.00	ug	0.00
44) Chlorobenzene-d5	8.40	117	68883	50.00	ug	0.00
System Monitoring Compounds						
24) 1,2-Dichloroethane-d4	4.96	65	126962	49.87	ug	0.00
45) Toluene-d8	6.94	98	186890	49.91	ug	0.00
56) Bromofluorobenzene	9.58	95	87759	47.07	ug	0.00
Target Compounds						Qvalue
16) Mtbe	2.30	73	11888	18.79	ug	95

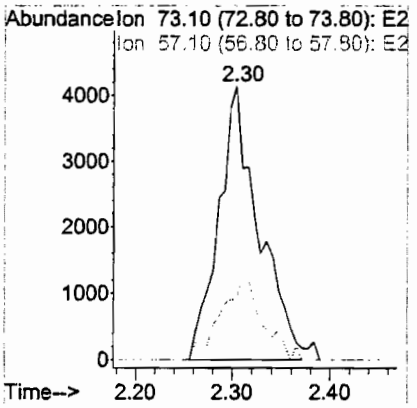
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#16
Mtbe
Concen: 18.79 ug
RT: 2.30 min Scan# 259
Delta R.T. 0.02 min
Lab File: E2588.D
Acq: 8 Sep 2006 3:06 pm

Tgt Ion: 73 Resp: 11888

Ion	Ratio	Lower	Upper
73	100		
57	31.0	27.3	40.9



1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-DUPE

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S

Matrix: (soil/water) WATER Lab Sample ID: AX-DUPE

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: E2590

Level: (low/med) LOW Date Received: 09/07/06

% Moisture: not dec._____ Date Analyzed: 09/08/06

GC Column: DB-624 ID: .18 (mm) Dilution Factor: 1.0

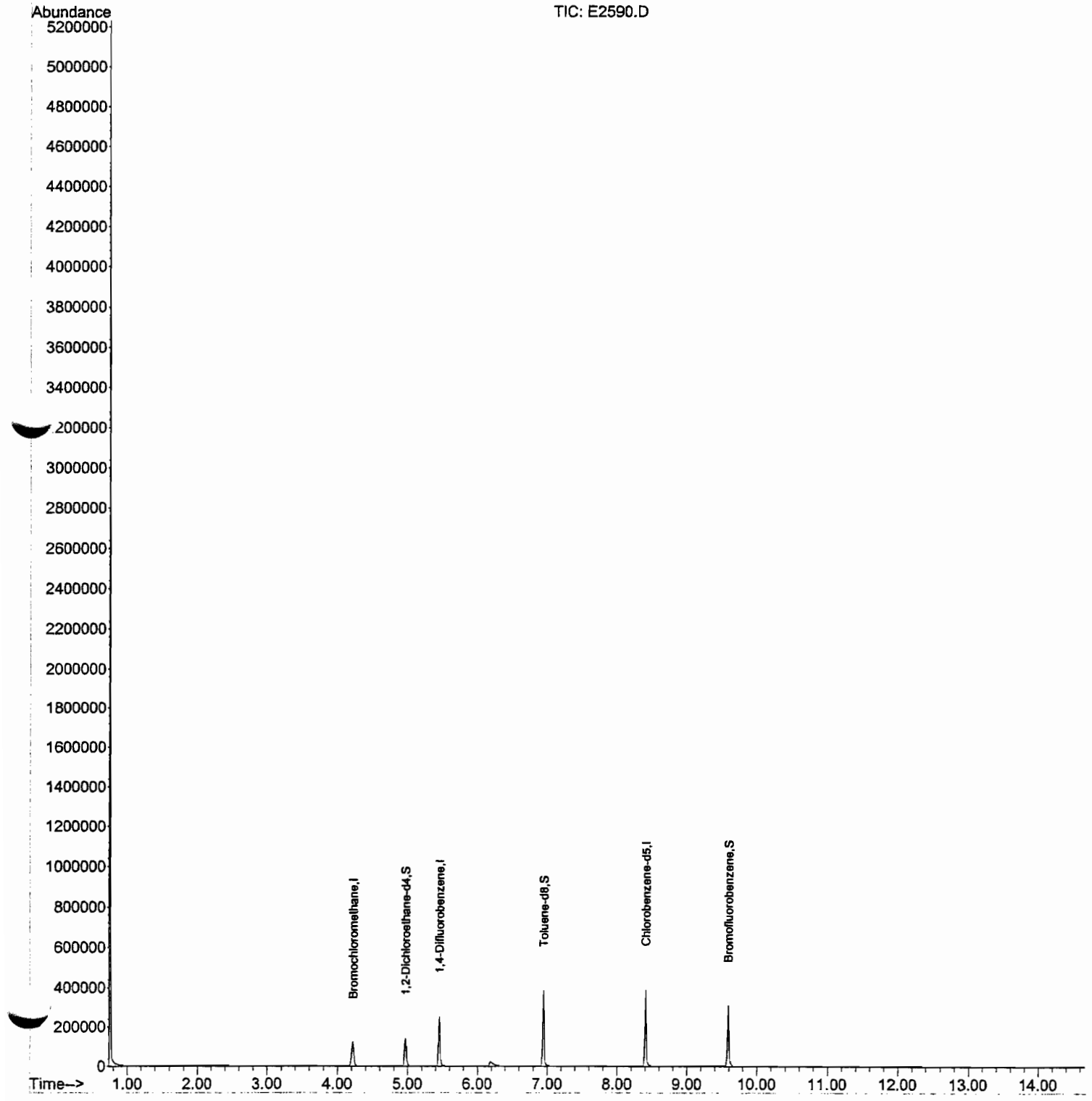
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	m,p-Xylene	10.	U
95-47-6	o-Xylene	10.	U
1634-04-4	Methyl t-butyl ether	10.	U
75-71-8	Dichlorodifluoromethane	10.	U
79-20-9	Methyl Acetate	10.	U
76-13-1	Freon 113	10.	U
75-69-4	Trichlorofluoromethane	10.	U
110-82-7	Cyclohexane	10.	U
108-87-2	Methylcyclohexane	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
98-82-8	Isopropylbenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
96-12-8	1,2-Dibromo-3-chloropropane	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\060908\
Data File : E2590.D
Acq On : 8 Sep 2006 3:54 pm
Operator :
Sample : 060907030-004A
Misc : SAMP EPA_8260_WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 11 08:38:54 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 14:11:29 2006
Response via : Continuing Cal File: C:\MSDChem\1\DATA\060908\ES411.D



Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\060908\
Data File : E2590.D
Acq On : 8 Sep 2006 3:54 pm
Operator :
Sample : 060907030-004A
[illegible] : SAMP EPA_8260_WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 11 08:38:54 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 14:11:29 2006
Response via : Continuing Cal File: C:\MSDChem\1\DATA\060908\ES411.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.22	128	24998	50.00	ug	0.00
26) 1,4-Difluorobenzene	5.45	114	142924	50.00	ug	0.00
44) Chlorobenzene-d5	8.40	117	66050	50.00	ug	0.00
System Monitoring Compounds						
24) 1,2-Dichloroethane-d4	4.96	65	126305	53.00	ug	0.00
45) Toluene-d8	6.94	98	187742	52.29	ug	0.00
56) Bromofluorobenzene	9.58	95	86340	48.30	ug	0.00
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

AX-TB

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S

Matrix: (soil/water) WATER Lab Sample ID: AX-TB

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: E2591

Level: (low/med) LOW Date Received: 09/07/06

% Moisture: not dec._____ Date Analyzed: 09/08/06

GC Column: DB-624 ID: .18 (mm) Dilution Factor: 1.0

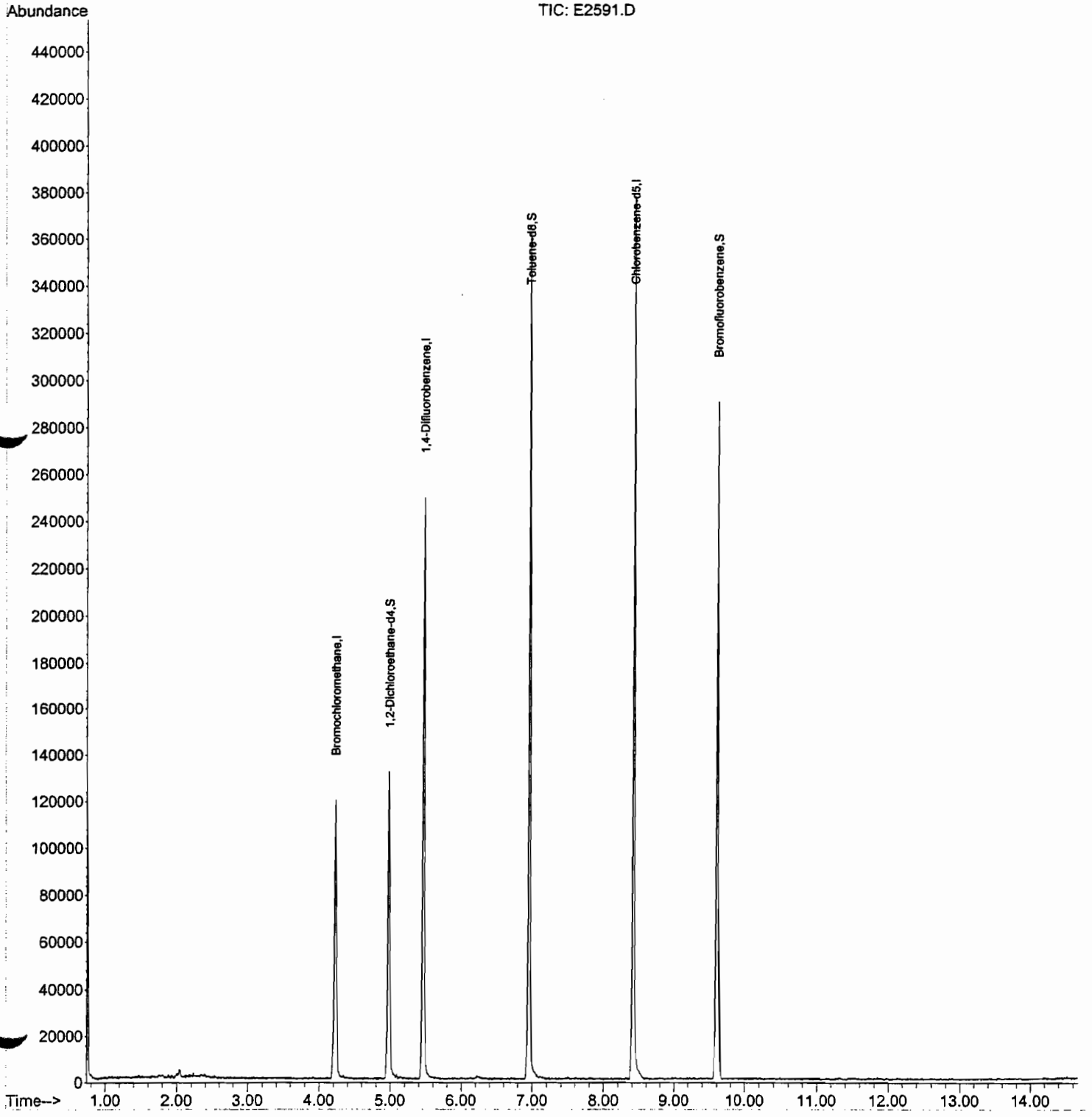
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	m,p-Xylene	10.	U
95-47-6	o-Xylene	10.	U
1634-04-4	Methyl t-butyl ether	10.	U
75-71-8	Dichlorodifluoromethane	10.	U
79-20-9	Methyl Acetate	10.	U
76-13-1	Freon 113	10.	U
75-69-4	Trichlorofluoromethane	10.	U
110-82-7	Cyclohexane	10.	U
108-87-2	Methylcyclohexane	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
98-82-8	Isopropylbenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
96-12-8	1,2-Dibromo-3-chloropropane	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\060908\
Data File : E2591.D
Acq On : 8 Sep 2006 4:18 pm
Operator :
Sample : 060907030-005A
Misc : SAMP EPA_8260_WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 11 08:39:28 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 14:11:29 2006
Response via : Continuing Cal File: C:\MSDChem\1\DATA\060908\ES411.D



000046

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\060908\
Data File : E2591.D
Acq On : 8 Sep 2006 4:18 pm
Operator :
Sample : 060907030-005A
: SAMP EPA_8260_WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 11 08:39:28 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 14:11:29 2006
Response via : Continuing Cal File: C:\MSDChem\1\DATA\060908\ES411.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.21	128	24789	50.00	ug	0.00
26) 1,4-Difluorobenzene	5.46	114	142520	50.00	ug	0.00
44) Chlorobenzene-d5	8.40	117	67687	50.00	ug	0.00
System Monitoring Compounds						
24) 1,2-Dichloroethane-d4	4.97	65	121783	51.53	ug	0.00
45) Toluene-d8	6.94	98	180307	49.00	ug	0.00
56) Bromofluorobenzene	9.58	95	83267	45.45	ug	0.00
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

STANDARDS

DATA

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S
Instrument ID: H5973 E Calibration Date(s): 09/08/06 09/08/06
Heated Purge: (Y/N) N Calibration Times: 13:29 12:24
GC Column: DB-624 ID: .18 (mm)

LAB FILE ID: RRF010= ES415 RRF020= ES410
RRF050= ES411 RRF100= ES412 RRF200= ES413

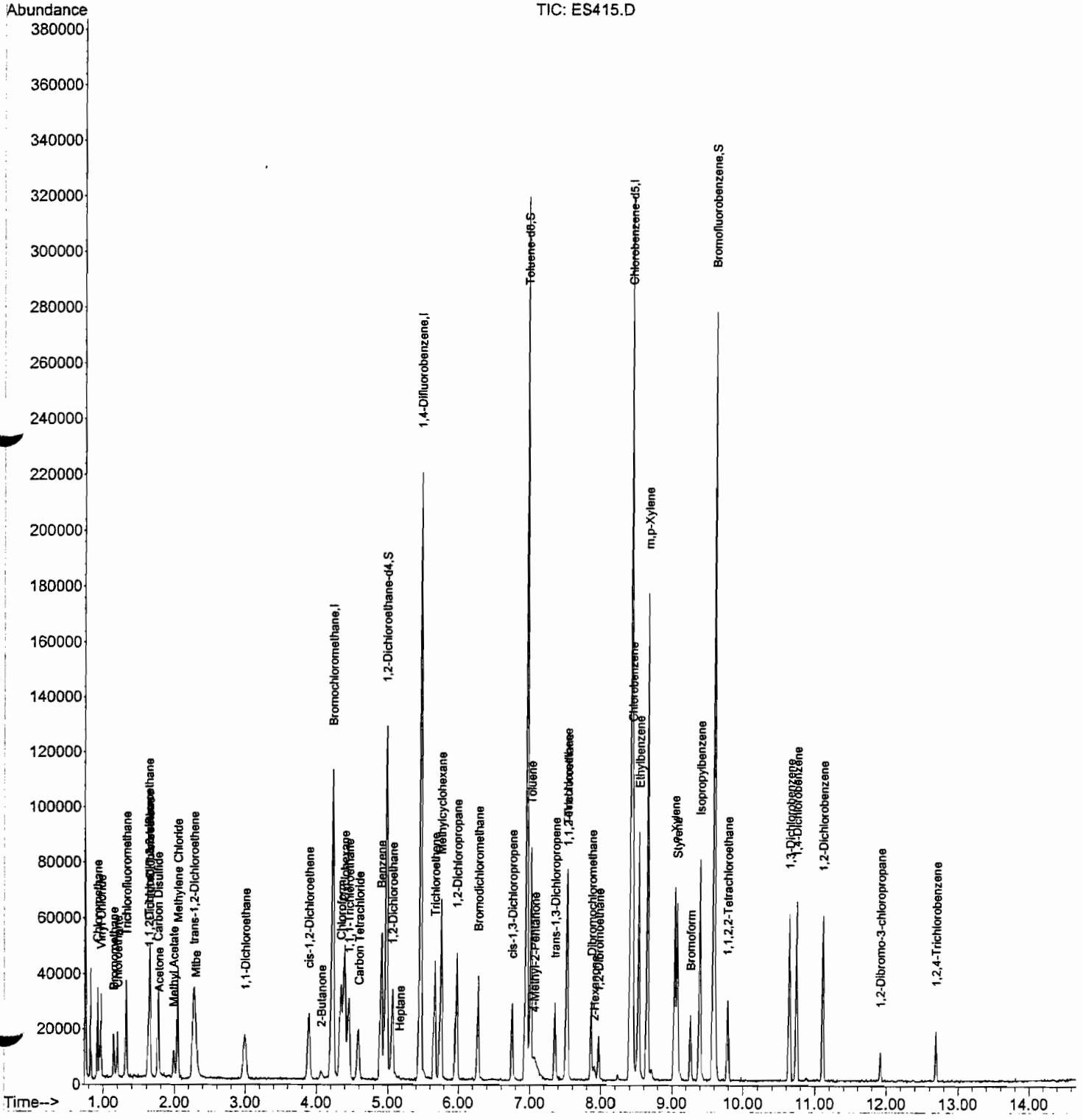
COMPOUND	RRF010	RRF020	RRF050	RRF100	RRF200	$\overline{RRF}$	% RSD
Chloromethane	4.069	4.191	4.250	4.231	4.998	4.348	8.5
Bromomethane *	1.183	1.096	1.054	1.149	1.325	1.161	9.0*
Vinyl Chloride *	3.300	3.647	3.683	3.585	4.138	3.671	8.2*
Chloroethane	1.628	1.692	1.779	1.218	1.158	1.495	19.1
Methylene Chloride	2.207	2.348	2.035	2.052	2.404	2.209	7.6
Acetone	.863	.740	.705	.718	.769	.759	8.3
Carbon Disulfide	5.974	6.735	6.645	6.742	7.806	6.780	9.7
1,1-Dichloroethene *	1.872	2.170	2.199	2.136	2.447	2.165	9.4*
1,1-Dichloroethane *	5.172	6.609	6.325	6.627	7.922	6.531	15.0*
trans-1,2-Dichloroethene	2.236	2.369	2.381	2.428	2.833	2.449	9.2
cis-1,2-Dichloroethene	4.673	5.404	5.581	5.944	6.924	5.705	14.4
Chloroform *	6.152	7.144	6.867	6.969	7.934	7.013	9.1*
1,2-Dichloroethane *	6.906	7.767	7.816	7.906	9.191	7.917	10.3*
2-Butanone	1.700	1.525	1.652	1.750	2.213	1.768	14.8
1,1,1-Trichloroethane *	.847	1.001	.883	1.050	1.191	.995	13.8*
Carbon Tetrachloride *	.472	.469	.500	.722	.761	.585	24.7*
Bromodichloromethane *	.732	.863	.847	.925	1.037	.881	12.7*
1,2-Dichloropropane	.427	.498	.492	.531	.586	.507	11.5
cis-1,3-Dichloropropene *	.438	.429	.386	.550	.593	.479	18.3*
Trichloroethene *	.390	.461	.489	.517	.553	.482	12.8*
Dibromochloromethane *	.498	.562	.552	.604	.652	.573	10.1*
1,1,2-Trichloroethane *	.268	.339	.332	.347	.369	.331	11.5*
Benzene *	1.274	1.557	1.545	1.646	1.807	1.566	12.4*
trans-1,3-Dichloropropene *	.445	.401	.399	.489	.559	.459	14.7*
Bromoform *	.407	.481	.465	.526	.598	.495	14.4*
4-Methyl-2-Pentanone	1.421	1.311	1.555	1.528	1.933	1.550	15.2
2-Hexanone	.599	.458	.683	1.000	.940	.736	31.1
Tetrachloroethene *	.900	1.105	.983	1.112	1.231	1.066	12.0*
1,1,2,2-Tetrachloroethane *	.970	1.070	1.041	1.083	1.262	1.085	9.9*
Toluene *	2.031	2.544	2.297	2.481	2.879	2.446	12.8*
Chlorobenzene *	2.330	2.856	2.551	2.693	3.124	2.711	11.1*
Ethylbenzene *	1.134	1.411	1.344	1.430	1.657	1.395	13.5*
Styrene *	2.002	2.592	2.407	2.717	3.202	2.584	17.0*
m,p-Xylene	3.806	4.654	4.295	4.829	5.695	4.656	15.0
o-Xylene *	1.092	1.523	1.498	1.515	1.720	1.469	15.6*
Methyl t-butyl ether	3.073	2.755	1.185	1.980	3.186	2.436	34.6
Dichlorodifluoromethane	.922	1.123	.964	1.037	1.225	1.054	11.6
Methyl Acetate	2.578	2.653	2.607	2.370	2.502	2.542	4.3
Freon 113	1.892	2.256	2.051	2.124	2.491	2.163	10.4
Trichlorofluoromethane	4.128	4.693	4.612	4.469	4.989	4.578	6.9
Cyclohexane	.487	.629	.664	.722	.767	.654	16.4
Methylcyclohexane	.588	.744	.712	.770	.825	.728	12.2
1,3-Dichlorobenzene *	1.754	2.010	2.100	2.442	2.827	2.227	18.7*
Isopropylbenzene	3.404	4.569	4.719	5.247	5.012	4.590	15.5
1,4-Dichlorobenzene *	1.846	2.182	2.229	2.545	2.909	2.342	17.2*
1,2-Dichlorobenzene *	1.667	1.949	2.035	2.240	2.620	2.102	16.9*
1,2-Dibromo-3-chloropropane	.169	.111	.123	.172	.243	.164	31.8
1,2,4-Trichlorobenzene *	.410	.230	.522	.488	.687	.467	35.7*
Toluene-d8	2.656	2.856	2.718	2.758	2.889	2.775	3.5
Bromofluorobenzene *	1.268	1.407	1.353	1.386	1.459	1.375	5.2*
1,2-Dichloroethane-d4	4.711	4.919	4.767	4.466	4.519	4.676	4.0

* Compounds with required minimum RRF and maximum %RSD values.

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\060908\
Data File : ES415.D
Acq On : 8 Sep 2006 1:29 pm
Operator :
Sample : VSTD010
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 25 10:25:56 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 13:12:57 2006
Response via : Initial Calibration



000050

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\060908\
Data File : ES415.D
Acq On : 8 Sep 2006 1:29 pm
Operator :
Sample : VSTD010
:
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 25 10:25:56 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 13:12:57 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	4.21	128	22969	50.00	ug		0.00
26) 1,4-Difluorobenzene	5.45	114	130140	50.00	ug		0.00
44) Chlorobenzene-d5	8.40	117	59386	50.00	ug		0.00
System Monitoring Compounds							
24) 1,2-Dichloroethane-d4	4.96	65	108196	50.30	ug		0.00
45) Toluene-d8	6.94	98	157739	47.31	ug		0.00
56) Bromofluorobenzene	9.58	95	75295	45.11	ug		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.62	85	4234	8.78	ug	#	1
3) Chloromethane	0.92	50	18691	9.46	ug	#	87
4) Vinyl Chloride	0.97	62	15159	9.00	ug		92
5) Bromomethane	1.14	96	5434	10.63	ug		95
6) Chloroethane	1.20	64	7480	10.92	ug		98
7) Trichlorofluoromethane	1.32	101	18963	9.15	ug	#	82
9) 1,1-Dichloroethene	1.64	96	8601	8.74	ug		91
10) 1,1,2-Trichloro-1,2,2-trif	1.62	101	8693	9.19	ug		98
11) Carbon Disulfide	1.76	76	27444	8.83	ug		100
12) Acetone	1.78	43	3964m	11.94	ug		
13) Methyl Acetate	1.98	43	11843	9.92	ug		98
14) Methylene Chloride	2.04	84	10138	9.98	ug		96
15) trans-1,2-Dichloroethene	2.26	96	10270	9.29	ug	#	89
16) Mtbe	2.30	73	14118m	13.48	ug		
18) 1,1-Dichloroethane	2.99	63	23759	7.88	ug		98
20) cis-1,2-Dichloroethene	3.89	61	21465	8.28	ug		87
22) Chloroform	4.34	83	28260	8.79	ug		95
23) Cyclohexane	4.39	84	12664	7.74	ug	#	67
25) 1,2-Dichloroethane	5.05	62	31725	8.73	ug		87
27) 2-Butanone	4.07	43	7811m	10.17	ug		
28) 1,1,1-Trichloroethane	4.45	97	22048	8.47	ug		98
29) Carbon Tetrachloride	4.59	117	12294	8.22	ug		85
30) Benzene	4.90	78	33171	8.14	ug		100
31) Heptane	5.16	43	272	52.55	ug	#	39
32) Trichloroethene	5.66	130	10158	7.99	ug		97
33) Methylcyclohexane	5.75	83	15307	8.41	ug		85
34) 1,2-Dichloropropane	5.97	63	11112	8.39	ug		92
35) Bromodichloromethane	6.27	83	19048	8.27	ug		88
36) cis-1,3-Dichloropropene	6.74	75	11398	9.43	ug		98
38) trans-1,3-Dichloropropene	7.35	75	11593	10.70	ug		98
40) 1,1,2-Trichloroethane	7.52	83	6969	8.04	ug		92
41) Dibromochloromethane	7.87	129	12953	8.68	ug		85
42) 1,2-Dibromoethane	7.97	107	8837	8.03	ug		94
43) Bromoform	9.26	173	10599	8.26	ug		97
46) 4-Methyl-2-Pentanone	7.06	43	16878m	9.84	ug		
47) Toluene	7.01	92	24118	8.22	ug		87
48) Tetrachloroethene	7.51	164	10692	8.36	ug		95
49) 2-Hexanone	7.91	43	7117m	8.67	ug		
50) Chlorobenzene	8.42	112	27670	8.51	ug		91
51) Ethylbenzene	8.52	106	13468	8.12	ug		100
52) m,p-Xylene	8.64	91	90421	16.39	ug		89

Data Path : C:\MSDChem\1\DATA\060908\
Data File : ES415.D
Acq On : 8 Sep 2006 1:29 pm
Operator :
Sample : VSTD010
:
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 25 10:25:56 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 13:12:57 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) o-Xylene	9.03	106	12964	6.98	ug	#	79
54) Styrene	9.06	104	23779	7.74	ug		78
55) Isopropylbenzene	9.39	105	40435	7.06	ug		97
57) 1,1,2,2-Tetrachloroethane	9.78	83	11526	8.97	ug		96
58) 1,3-Dichlorobenzene	10.64	146	20827	7.98	ug	#	91
59) 1,4-Dichlorobenzene	10.74	146	21923	8.04	ug		92
60) 1,2-Dichlorobenzene	11.11	146	19797	8.09	ug		96
61) 1,2-Dibromo-3-chloropropan	11.92	157	2009m	11.89	ug		
62) 1,2,4-Trichlorobenzene	12.68	180	4871m	5.76	ug		

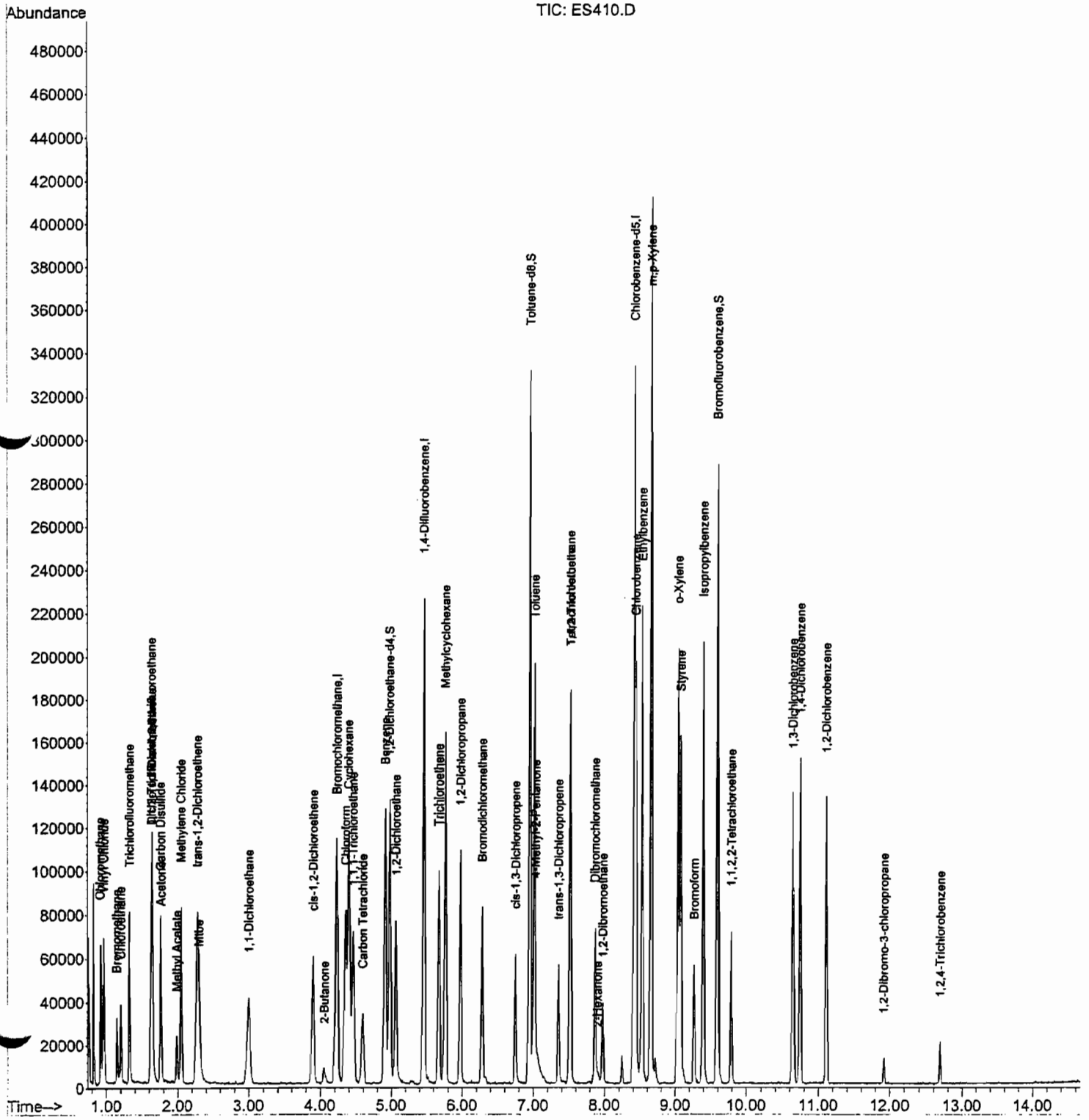
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\060908\
Data File : ES410.D
Acq On : 8 Sep 2006 11:14 am
Operator :
Sample : VSTD020
[illegible] :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 13:50:03 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 11:01:04 2006
Response via : Initial Calibration

TIC: ES410.D



000053

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\060908\
Data File : ES410.D
Acq On : 8 Sep 2006 11:14 am
Operator :
Sample : VSTD020
:
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 13:50:03 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 11:01:04 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	4.21	128	23103	50.00	ug		0.00
26) 1,4-Difluorobenzene	5.45	114	128948	50.00	ug		0.00
44) Chlorobenzene-d5	8.40	117	55927	50.00	ug		0.00
System Monitoring Compounds							
24) 1,2-Dichloroethane-d4	4.96	65	113642	53.49	ug		0.00
45) Toluene-d8	6.94	98	159727	52.23	ug		0.00
56) Bromofluorobenzene	9.57	95	78671	52.62	ug		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.62	85	10375	26.40	ug	#	1
3) Chloromethane	0.92	50	38728	22.71	ug		90
4) Vinyl Chloride	0.97	62	33706	23.94	ug		93
5) Bromomethane	1.14	96	10132	24.76	ug		92
6) Chloroethane	1.20	64	15638	26.05	ug		91
7) Trichlorofluoromethane	1.32	101	43371	23.50	ug	#	84
9) 1,1-Dichloroethene	1.64	96	20055	25.27	ug		99
0) 1,1,2-Trichloro-1,2,2-trif	1.62	101	20850	25.83	ug		96
1) Carbon Disulfide	1.76	76	62242	24.93	ug		100
12) Acetone	1.77	43	6838	20.23	ug		90
13) Methyl Acetate	1.98	43	24515	17.44	ug		96
14) Methylene Chloride	2.04	84	21702	27.47	ug		97
15) trans-1,2-Dichloroethene	2.26	96	21891	23.17	ug	#	78
16) Mtbe	2.30	73	25455	16.40	ug		96
18) 1,1-Dichloroethane	2.99	63	61071	24.26	ug		97
20) cis-1,2-Dichloroethene	3.89	61	49944	22.53	ug		85
22) Chloroform	4.33	83	66018	24.79	ug		98
23) Cyclohexane	4.39	84	32458	22.50	ug	#	63
25) 1,2-Dichloroethane	5.05	62	71772	23.81	ug		91
27) 2-Butanone	4.04	43	14096	19.22	ug		82
28) 1,1,1-Trichloroethane	4.44	97	51638	22.84	ug		100
29) Carbon Tetrachloride	4.59	117	24167	18.04	ug		97
30) Benzene	4.90	78	80296	24.25	ug		100
32) Trichloroethene	5.66	130	23795	23.19	ug		97
33) Methylcyclohexane	5.75	83	38367	24.71	ug		84
34) 1,2-Dichloropropane	5.97	63	25682	23.38	ug		99
35) Bromodichloromethane	6.27	83	44529	23.81	ug		89
36) cis-1,3-Dichloropropene	6.75	75	22138	20.10	ug		92
38) trans-1,3-Dichloropropene	7.35	75	20658	18.02	ug		97
40) 1,1,2-Trichloroethane	7.52	83	17510	24.75	ug		94
41) Dibromochloromethane	7.86	129	28969	23.67	ug		92
42) 1,2-Dibromoethane	7.97	107	21674	23.18	ug		95
43) Bromoform	9.26	173	24813	22.30	ug		99
46) 4-Methyl-2-Pentanone	7.03	43	29324	19.32	ug		89
47) Toluene	7.01	92	56910	24.71	ug		89
48) Tetrachloroethene	7.51	164	24723	24.45	ug		97
9) 2-Hexanone	7.90	43	10238m	11.54	ug		
50) Chlorobenzene	8.42	112	63901	25.19	ug		90
51) Ethylbenzene	8.51	106	31571	24.38	ug		92
52) m,p-Xylene	8.64	91	208236	48.06	ug		90
53) o-Xylene	9.03	106	34064	22.53	ug	#	72

Data Path : C:\MSDCHEM\1\DATA\060908\
Data File : ES410.D
Acq On : 8 Sep 2006 11:14 am
Operator :
S ple : VSTD020
:
ALS Vial : 3 Sample Multiplier: 1

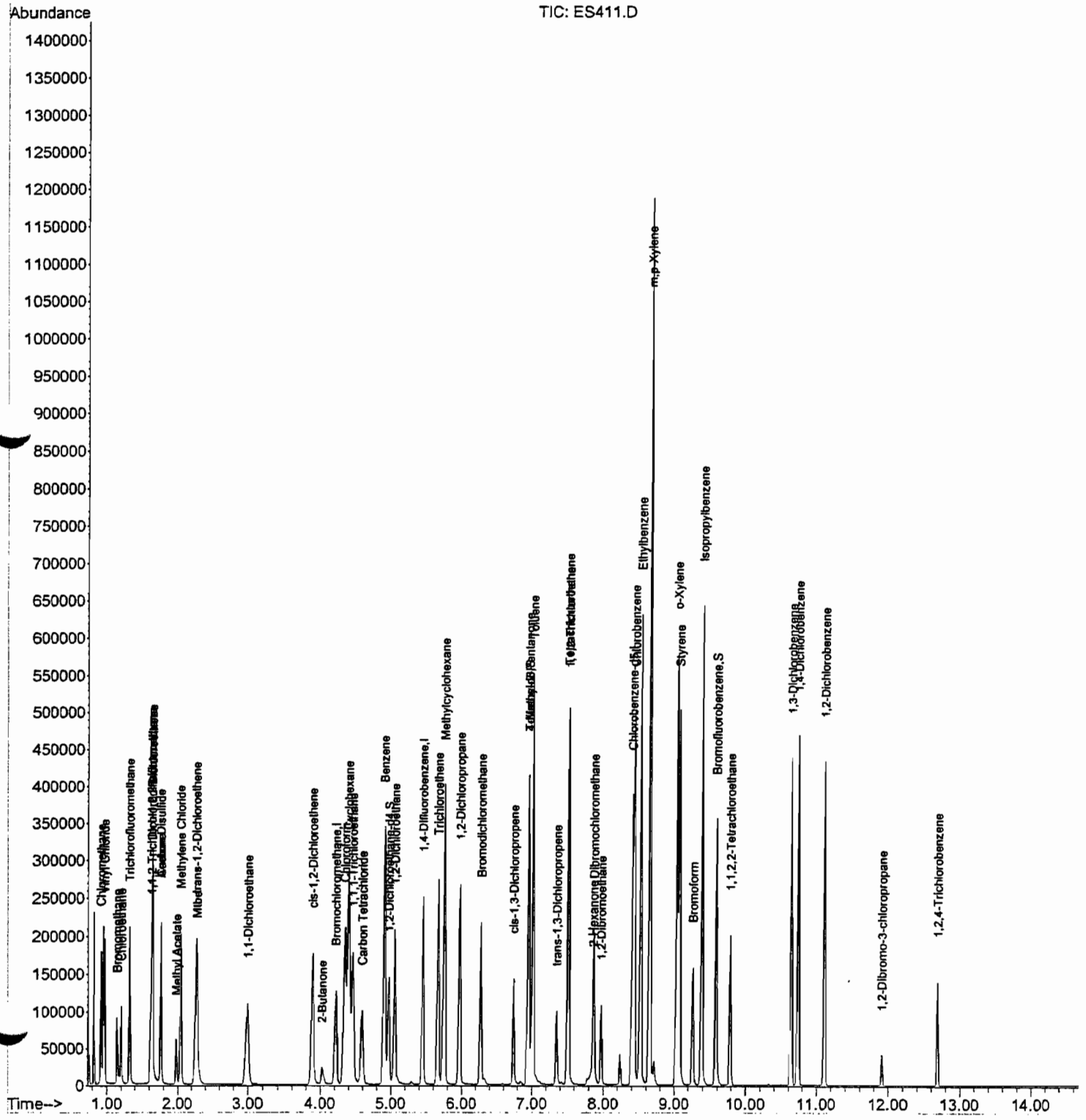
Quant Time: Sep 08 13:50:03 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 11:01:04 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) Styrene	9.06	104	57979	22.75	ug		94
55) Isopropylbenzene	9.39	105	102202	22.39	ug		98
57) 1,1,2,2-Tetrachloroethane	9.78	83	23935	22.96	ug		99
58) 1,3-Dichlorobenzene	10.63	146	44973	20.60	ug	#	90
59) 1,4-Dichlorobenzene	10.74	146	48822	21.04	ug		94
60) 1,2-Dichlorobenzene	11.11	146	43595	20.84	ug		96
61) 1,2-Dibromo-3-chloropropan	11.92	157	2484	16.99	ug	#	79
62) 1,2,4-Trichlorobenzene	12.68	180	5150m	9.71	ug		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\060908\
Data File : ES411.D
Acq On : 8 Sep 2006 11:37 am
Operator :
Sample : VSTD050
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 08 13:51:44 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 11:38:43 2006
Response via : Initial Calibration



000056

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\060908\
Data File : ES411.D
Acq On : 8 Sep 2006 11:37 am
Operator :
Sample : VSTD050
:
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 08 13:51:44 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 11:38:43 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	4.21	128	25530	50.00	ug		0.00
26) 1,4-Difluorobenzene	5.45	114	142998	50.00	ug		0.00
44) Chlorobenzene-d5	8.39	117	66948	50.00	ug		0.00
System Monitoring Compounds							
24) 1,2-Dichloroethane-d4	4.96	65	121690	51.84	ug		0.00
45) Toluene-d8	6.94	98	181970	49.71	ug		0.00
56) Bromofluorobenzene	9.57	95	90594	50.62	ug		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.62	85	24615	56.68	ug	#	1
3) Chloromethane	0.92	50	108496	57.57	ug		90
4) Vinyl Chloride	0.97	62	94025	60.42	ug		97
5) Bromomethane	1.14	96	26898	59.48	ug		99
6) Chloroethane	1.20	64	45408	68.45	ug		94
7) Trichlorofluoromethane	1.31	101	117734	57.74	ug	#	83
9) 1,1-Dichloroethene	1.64	96	56139	64.00	ug		94
10) 1,1,2-Trichloro-1,2,2-trif	1.62	101	52356	58.69	ug		98
11) Carbon Disulfide	1.76	76	169653	61.50	ug		100
12) Acetone	1.76	43	18008	48.20	ug		98
13) Methyl Acetate	1.97	43	66561	42.85	ug		94
14) Methylene Chloride	2.04	84	51958	59.52	ug		91
15) trans-1,2-Dichloroethene	2.27	96	60776	58.21	ug	#	85
16) Mtbe	2.28	73	30247m	17.64	ug		
18) 1,1-Dichloroethane	2.99	63	161472	58.05	ug		100
20) cis-1,2-Dichloroethene	3.89	61	142488	58.15	ug		87
22) Chloroform	4.34	83	175318	59.57	ug		99
23) Cyclohexane	4.39	84	94924	59.55	ug	#	72
25) 1,2-Dichloroethane	5.05	62	199545	59.89	ug		90
27) 2-Butanone	4.02	43	42166	51.84	ug		82
28) 1,1,1-Trichloroethane	4.45	97	126319	50.39	ug		98
29) Carbon Tetrachloride	4.59	117	71476	48.11	ug		96
30) Benzene	4.90	78	220929	60.15	ug		100
32) Trichloroethene	5.66	130	69913	61.44	ug		97
33) Methylcyclohexane	5.75	83	101746	59.09	ug		87
34) 1,2-Dichloropropane	5.96	63	70310	57.72	ug		99
35) Bromodichloromethane	6.27	83	121153	58.43	ug		88
36) cis-1,3-Dichloropropene	6.75	75	55222m	45.22	ug		
38) trans-1,3-Dichloropropene	7.35	75	57116m	44.92	ug		
40) 1,1,2-Trichloroethane	7.52	83	47542	60.59	ug		91
41) Dibromochloromethane	7.86	129	78923	58.15	ug		95
42) 1,2-Dibromoethane	7.96	107	60851	58.68	ug		99
43) Bromoform	9.26	173	66464	53.87	ug		98
46) 4-Methyl-2-Pentanone	6.95	43	104075	57.28	ug		70
47) Toluene	7.00	92	153784	55.78	ug		87
48) Tetrachloroethene	7.51	164	65813	54.38	ug		98
9) 2-Hexanone	7.84	43	45702	43.04	ug		68
50) Chlorobenzene	8.42	112	170800	56.24	ug		90
51) Ethylbenzene	8.51	106	89956	58.04	ug	#	91
52) m,p-Xylene	8.63	91	575093	110.87	ug		90
53) o-Xylene	9.03	106	100289	55.40	ug	#	74

Data Path : C:\MSDCHEM\1\DATA\060908\
Data File : ES411.D
Acq On : 8 Sep 2006 11:37 am
Operator :
Sample : VSTD050
:
Vial : 4 Sample Multiplier: 1

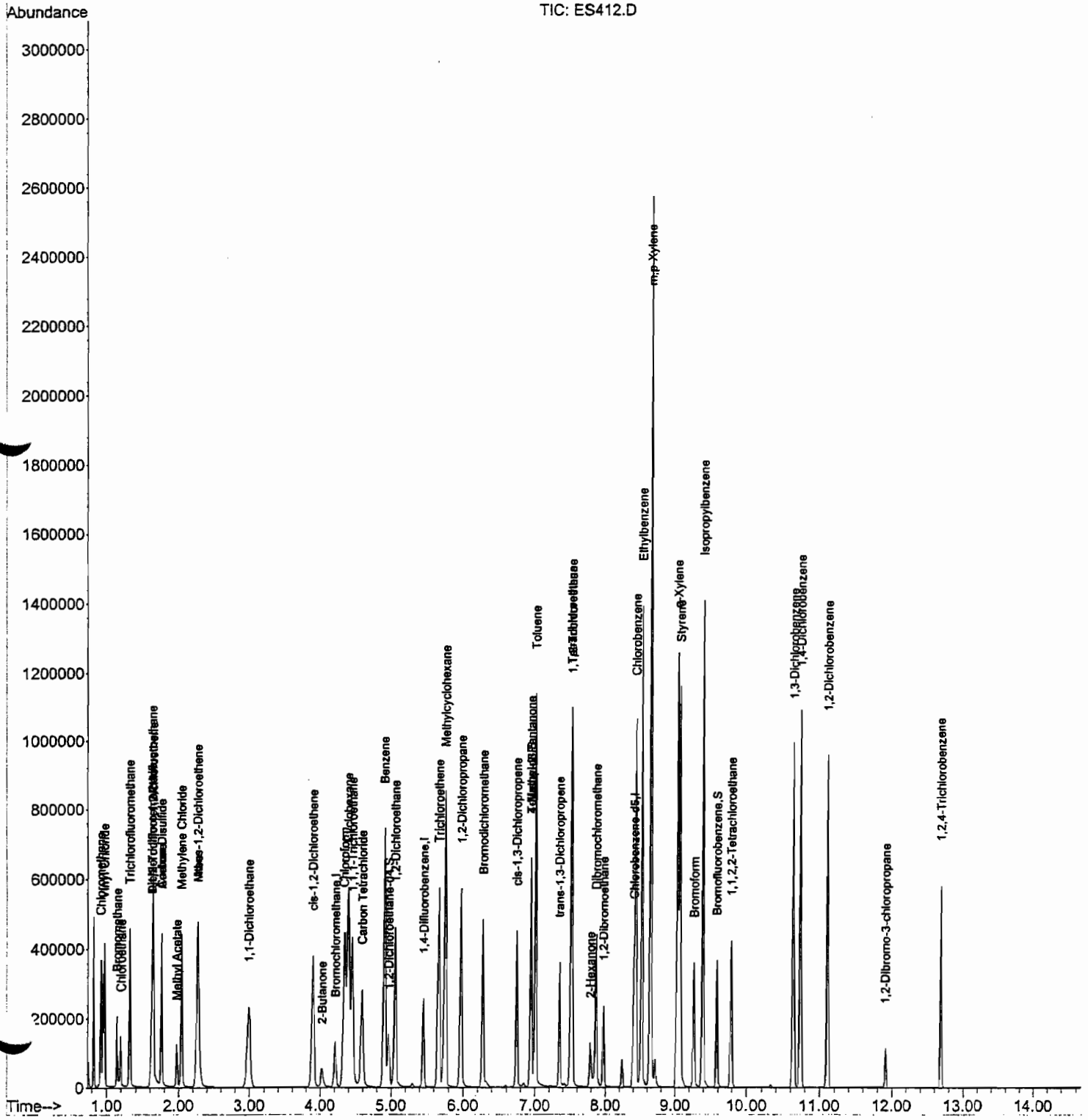
Quant Time: Sep 08 13:51:44 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 11:38:43 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) Styrene	9.06	104	161156	52.83	ug	#	72
55) Isopropylbenzene	9.38	105	315921	57.83	ug		99
57) 1,1,2,2-Tetrachloroethane	9.78	83	69677	55.83	ug		98
58) 1,3-Dichlorobenzene	10.63	146	140605	53.81	ug	#	90
59) 1,4-Dichlorobenzene	10.73	146	149212	53.73	ug		96
60) 1,2-Dichlorobenzene	11.10	146	136255	54.41	ug		97
61) 1,2-Dibromo-3-chloropropan	11.92	157	8231	47.04	ug		83
62) 1,2,4-Trichlorobenzene	12.69	180	34941	55.01	ug	#	77

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\060908\
Data File : ES412.D
Acq On : 8 Sep 2006 12:01 pm
Operator :
Sample : VSTD100
: :
Vial : 5 Sample Multiplier: 1

Quant Time: Sep 08 13:53:03 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 11:38:43 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\060908\
Data File : ES412.D
Acq On : 8 Sep 2006 12:01 pm
Operator :
Sample : VSTD100
:
Vial : 5 Sample Multiplier: 1

Quant Time: Sep 08 13:53:03 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 11:38:43 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	4.21	128	26991	50.00	ug		0.00
26) 1,4-Difluorobenzene	5.45	114	143892	50.00	ug		0.00
44) Chlorobenzene-d5	8.39	117	66338	50.00	ug		0.00
System Monitoring Compounds							
24) 1,2-Dichloroethane-d4	4.96	65	120532	48.56	ug		0.00
45) Toluene-d8	6.93	98	182946	50.44	ug		0.00
56) Bromofluorobenzene	9.57	95	91926	51.84	ug		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.62	85	56000	121.96	ug	#	1
3) Chloromethane	0.92	50	228380	114.62	ug		90
4) Vinyl Chloride	0.97	62	193536	117.64	ug		92
5) Bromomethane	1.14	96	62024	129.72	ug		93
6) Chloroethane	1.20	64	65731	93.72	ug		93
7) Trichlorofluoromethane	1.31	101	241249	111.90	ug	#	84
9) 1,1-Dichloroethene	1.64	96	115305	124.34	ug		95
0) 1,1,2-Trichloro-1,2,2-trif	1.62	101	114650	121.56	ug		100
1) Carbon Disulfide	1.76	76	363924	124.77	ug		100
12) Acetone	1.76	43	38773	98.16	ug		96
13) Methyl Acetate	1.97	43	127963	77.92	ug		95
14) Methylene Chloride	2.04	84	110773	120.03	ug		91
15) trans-1,2-Dichloroethene	2.26	96	131043	118.71	ug	#	84
16) Mtbe	2.27	73	106882	58.95	ug		98
18) 1,1-Dichloroethane	2.99	63	357753	121.64	ug		99
20) cis-1,2-Dichloroethene	3.89	61	320868	123.87	ug	#	84
22) Chloroform	4.33	83	376179	120.91	ug		99
23) Cyclohexane	4.39	84	207920	123.37	ug	#	70
25) 1,2-Dichloroethane	5.05	62	426757	121.16	ug		90
27) 2-Butanone	4.03	43	94492	115.45	ug		85
28) 1,1,1-Trichloroethane	4.45	97	302275	119.84	ug		99
29) Carbon Tetrachloride	4.59	117	207910	139.08	ug		94
30) Benzene	4.90	78	473566	128.14	ug		100
32) Trichloroethene	5.66	130	148858	130.01	ug		97
33) Methylcyclohexane	5.75	83	221613	127.90	ug		89
34) 1,2-Dichloropropane	5.97	63	152891	124.74	ug		99
35) Bromodichloromethane	6.27	83	266161	127.56	ug		85
36) cis-1,3-Dichloropropene	6.74	75	158243	128.78	ug		97
38) trans-1,3-Dichloropropene	7.35	75	140732	109.98	ug		99
40) 1,1,2-Trichloroethane	7.52	83	99910	126.53	ug		95
41) Dibromochloromethane	7.86	129	173891	127.33	ug		93
42) 1,2-Dibromoethane	7.97	107	133772	128.20	ug		98
43) Bromoform	9.26	173	151460	121.99	ug		95
46) 4-Methyl-2-Pentanone	6.93	43	202686	112.57	ug		64
47) Toluene	7.00	92	329175	120.49	ug		88
48) Tetrachloroethene	7.51	164	147585	123.07	ug		99
9) 2-Hexanone	7.78	43	132653	126.07	ug		87
0) Chlorobenzene	8.42	112	357267	118.72	ug		90
51) Ethylbenzene	8.51	106	189777	123.57	ug	#	85
52) m,p-Xylene	8.63	91	1281345	249.29	ug		89
53) o-Xylene	9.03	106	200950m	112.04	ug		

Data Path : C:\MSDCHEM\1\DATA\060908\
Data File : ES412.D
Acq On : 8 Sep 2006 12:01 pm
Operator :
Sample : VSTD100
:
Vial : 5 Sample Multiplier: 1

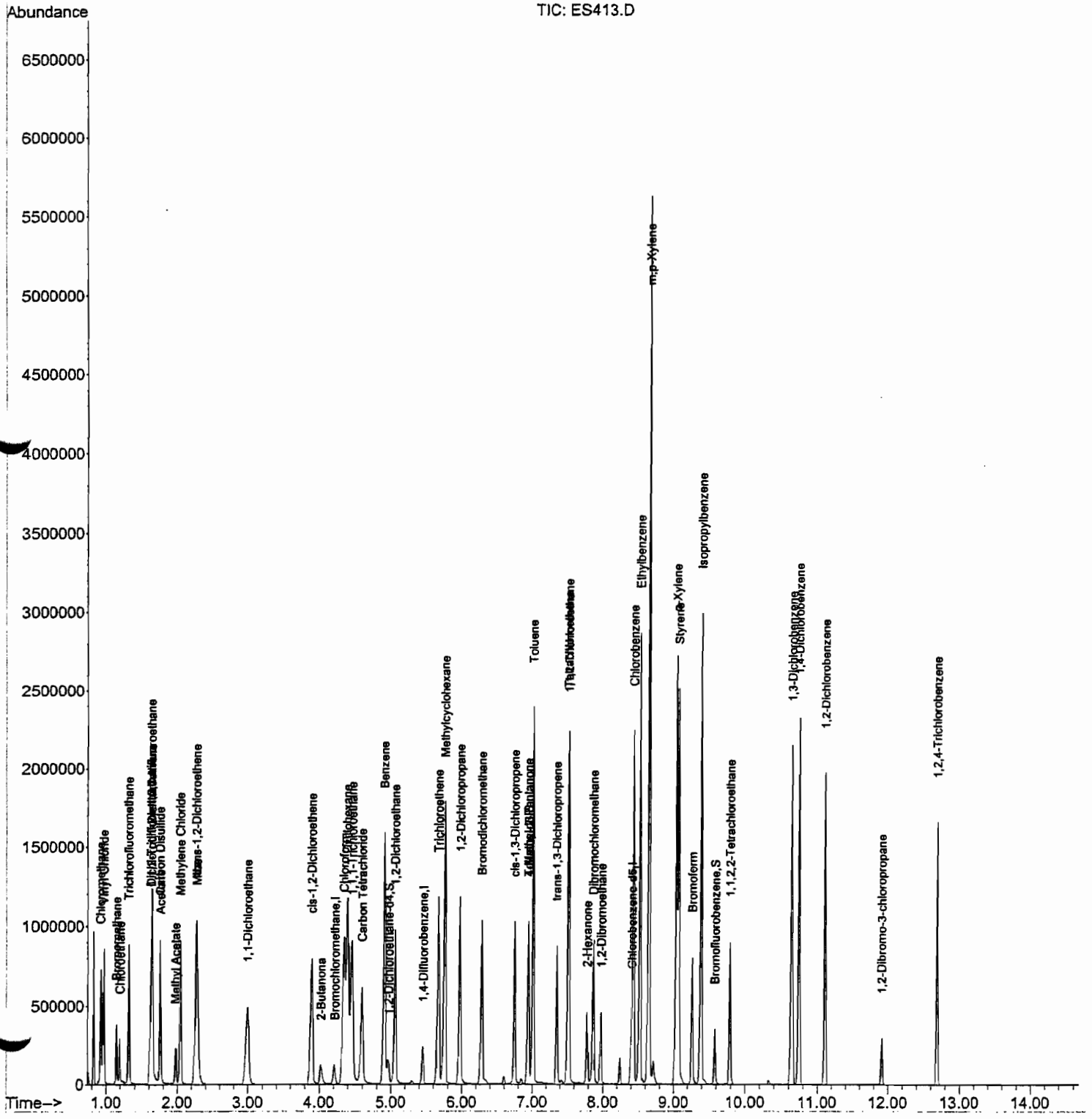
Quant Time: Sep 08 13:53:03 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 11:38:43 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) Styrene	9.06	104	360440	119.24	ug		89
55) Isopropylbenzene	9.38	105	696103	128.59	ug		98
57) 1,1,2,2-Tetrachloroethane	9.78	83	143696	116.19	ug		98
58) 1,3-Dichlorobenzene	10.63	146	324044	125.15	ug	#	89
59) 1,4-Dichlorobenzene	10.73	146	337673	122.70	ug		94
60) 1,2-Dichlorobenzene	11.10	146	297145	119.75	ug		95
61) 1,2-Dibromo-3-chloropropan	11.92	157	22776	131.37	ug		89
62) 1,2,4-Trichlorobenzene	12.68	180	64735m	102.86	ug		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDCHEM\1\DATA\060908\
Data File : ES413.D
Acq On : 8 Sep 2006 12:24 pm
Operator :
Sample : VSTD200
[illegible]c :
[illegible]s Vial : 6 Sample Multiplier: 1

Quant Time: Sep 08 13:55:11 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 11:38:43 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\060908\
Data File : ES413.D
Acq On : 8 Sep 2006 12:24 pm
Operator :
Sample : VSTD200
:
[redacted] Vial : 6 Sample Multiplier: 1

Quant Time: Sep 08 13:55:11 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 11:38:43 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	4.21	128	24310	50.00	ug		0.00
26) 1,4-Difluorobenzene	5.45	114	138922	50.00	ug		0.00
44) Chlorobenzene-d5	8.39	117	60137	50.00	ug		0.00
System Monitoring Compounds							
24) 1,2-Dichloroethane-d4	4.96	65	109846	49.14	ug		0.00
45) Toluene-d8	6.93	98	173735	52.84	ug		0.00
56) Bromofluorobenzene	9.57	95	87761	54.59	ug		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.62	85	119112	288.03	ug	#	1
3) Chloromethane	0.92	50	486018	270.83	ug		90
4) Vinyl Chloride	0.97	62	402422	271.59	ug		92
5) Bromomethane	1.14	96	128858	299.22	ug		96
6) Chloroethane	1.19	64	112622	178.29	ug		93
7) Trichlorofluoromethane	1.31	101	485100	249.83	ug	#	85
9) 1,1-Dichloroethene	1.64	96	237968	284.92	ug		94
10) 1,1,2-Trichloro-1,2,2-trif	1.62	101	242270	285.20	ug		98
11) Carbon Disulfide	1.75	76	759030	288.94	ug		100
12) Acetone	1.76	43	74781	210.21	ug		99
13) Methyl Acetate	1.97	43	243250	164.45	ug		98
14) Methylene Chloride	2.04	84	233727	281.19	ug		95
15) trans-1,2-Dichloroethene	2.26	96	275527	277.12	ug	#	83
16) Mtbe	2.27	73	309777	189.70	ug		95
18) 1,1-Dichloroethane	2.99	63	770298	290.80	ug		99
20) cis-1,2-Dichloroethene	3.89	61	673256	288.57	ug	#	83
22) Chloroform	4.33	83	771466	275.31	ug		99
23) Cyclohexane	4.39	84	426132	280.74	ug	#	68
25) 1,2-Dichloroethane	5.05	62	893757	281.73	ug		90
27) 2-Butanone	4.01	43	215192	272.33	ug		85
28) 1,1,1-Trichloroethane	4.45	97	661667	271.70	ug		99
29) Carbon Tetrachloride	4.59	117	422848m	292.97	ug		
30) Benzene	4.90	78	1004191	281.44	ug		100
32) Trichloroethene	5.66	130	307271	277.96	ug		99
33) Methylcyclohexane	5.75	83	458632	274.16	ug		90
34) 1,2-Dichloropropane	5.97	63	325744	275.26	ug		99
35) Bromodichloromethane	6.27	83	576248	286.05	ug		87
36) cis-1,3-Dichloropropene	6.74	75	329253m	277.54	ug		
38) trans-1,3-Dichloropropene	7.35	75	310732m	251.53	ug		
40) 1,1,2-Trichloroethane	7.52	83	205325	269.34	ug		92
41) Dibromochloromethane	7.86	129	362208	274.71	ug		93
42) 1,2-Dibromoethane	7.97	107	254356	252.47	ug		99
43) Bromoform	9.26	173	332081	277.05	ug		96
46) 4-Methyl-2-Pentanone	6.93	43	465098	284.96	ug		65
47) Toluene	7.00	92	692527	279.62	ug		86
48) Tetrachloroethene	7.51	164	296106	272.39	ug		98
9) 2-Hexanone	7.77	43	226221m	237.17	ug		
50) Chlorobenzene	8.42	112	751530	275.49	ug		92
51) Ethylbenzene	8.51	106	398678	286.36	ug	#	81
52) m,p-Xylene	8.64	91	2739977	588.04	ug		88
53) o-Xylene	9.03	106	413840m	254.52	ug		

Data Path : C:\MSDCHEM\1\DATA\060908\
Data File : ES413.D
Acq On : 8 Sep 2006 12:24 pm
Operator :
Sample : VSTD200
:
Vial : 6 Sample Multiplier: 1

Quant Time: Sep 08 13:55:11 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 11:38:43 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) Styrene	9.06	104	770241	281.09	ug	#	71
55) Isopropylbenzene	9.38	105	1205516m	245.65	ug		
57) 1,1,2,2-Tetrachloroethane	9.78	83	303480	270.70	ug		99
58) 1,3-Dichlorobenzene	10.63	146	680089	289.75	ug	#	87
59) 1,4-Dichlorobenzene	10.73	146	699642	280.45	ug		94
60) 1,2-Dichlorobenzene	11.10	146	630243	280.19	ug		94
61) 1,2-Dibromo-3-chloropropan	11.91	157	58425	371.74	ug		87
62) 1,2,4-Trichlorobenzene	12.68	180	165152m	289.46	ug		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

000064

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S
Lab File ID (Standard): ES411 Date Analyzed: 09/08/06
Instrument ID: H5973 E Time Analyzed: 11:37
GC Column: DB-624 ID: .18 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	25530.	4.21	142998.	5.45	66948.	8.39
	UPPER LIMIT	51060.	4.71	285996.	5.95	133896.	8.89
	LOWER LIMIT	12765.	3.71	71499.	4.95	33474.	7.89
	EPA SAMPLE NO.						
1	VBLK01	29697.	4.22	166491.	5.46	81098.	8.40
2	AX-MW-9S	27947.	4.21	153373.	5.45	74918.	8.40
3	AX-MW-11S	26705.	4.21	148785.	5.46	68883.	8.40
4	AX-MW-8S	26254.	4.21	151168.	5.45	71074.	8.40
5	AX-DUPE	24998.	4.22	142924.	5.45	66050.	8.40
6	AX-TB	24789.	4.21	142520.	5.46	67687.	8.40
7	AX-MW-9S MS	26596.	4.21	150256.	5.45	67965.	8.40
8	AX-MW-9S MSD	26818.	4.21	152697.	5.45	73273.	8.40
9	VMSB	25444.	4.21	151433.	5.45	72674.	8.40
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + .50 minutes of internal standard RT
RT LOWER LIMIT = - .50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

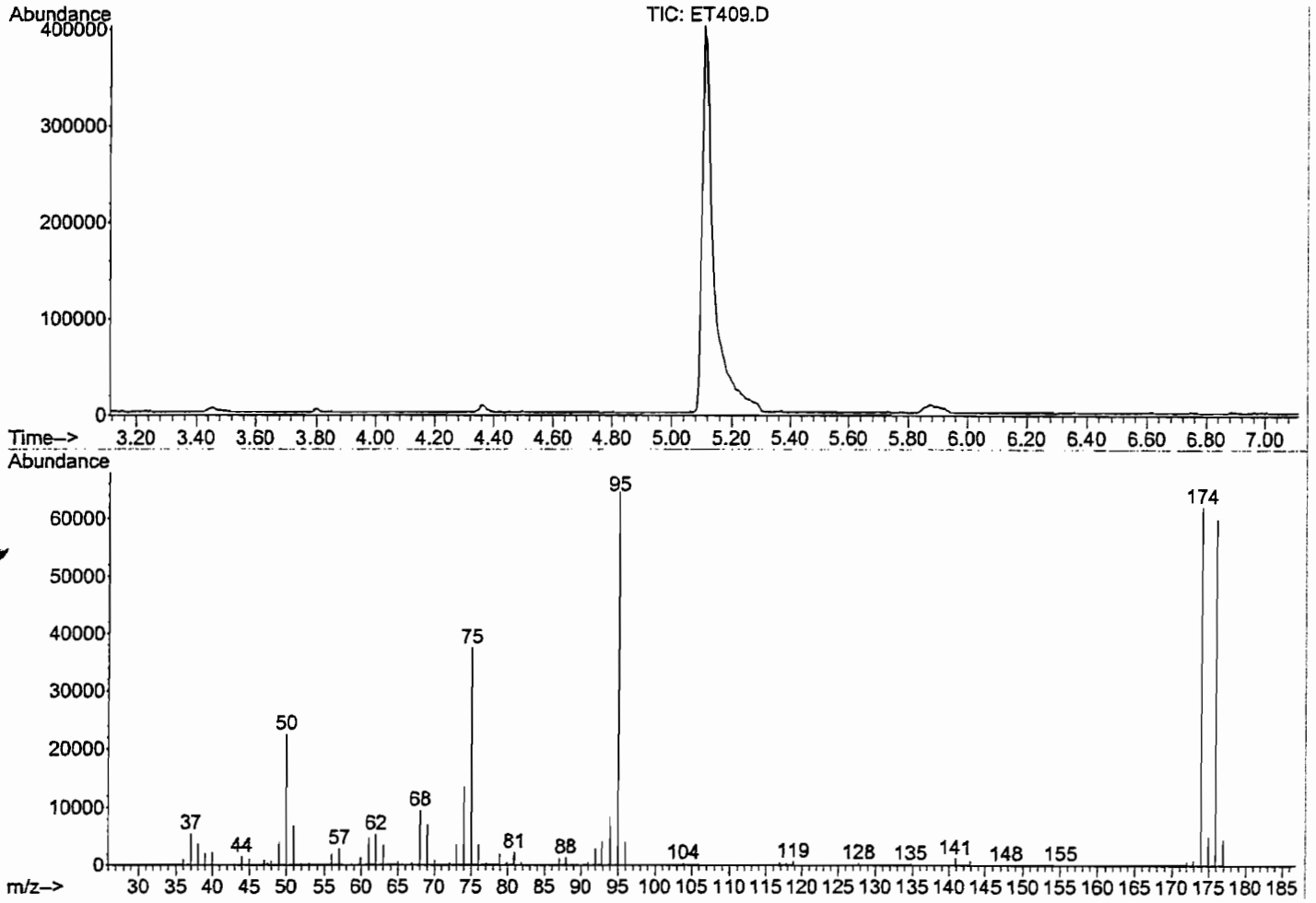
RAW QC

DATA

Data Path : C:\MSDChem\1\DATA\060908\
Data File : ET409.D
Acq On : 8 Sep 2006 10:29 am
Operator :
Sample : BFB-PURGED
c :
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Title : VOA TCL list OLM4.1
Last Update : Wed Aug 30 09:40:59 2006



Spectrum Information: Scan 499

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	34.8	22536	PASS
75	95	30	60	58.0	37536	PASS
95	95	100	100	100.0	64680	PASS
96	95	5	9	6.2	4032	PASS
173	174	0.00	2	1.3	822	PASS
174	95	50	100	96.0	62080	PASS
175	174	5	9	8.1	5059	PASS
176	174	95	101	96.5	59936	PASS
177	176	5	9	7.5	4479	PASS

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

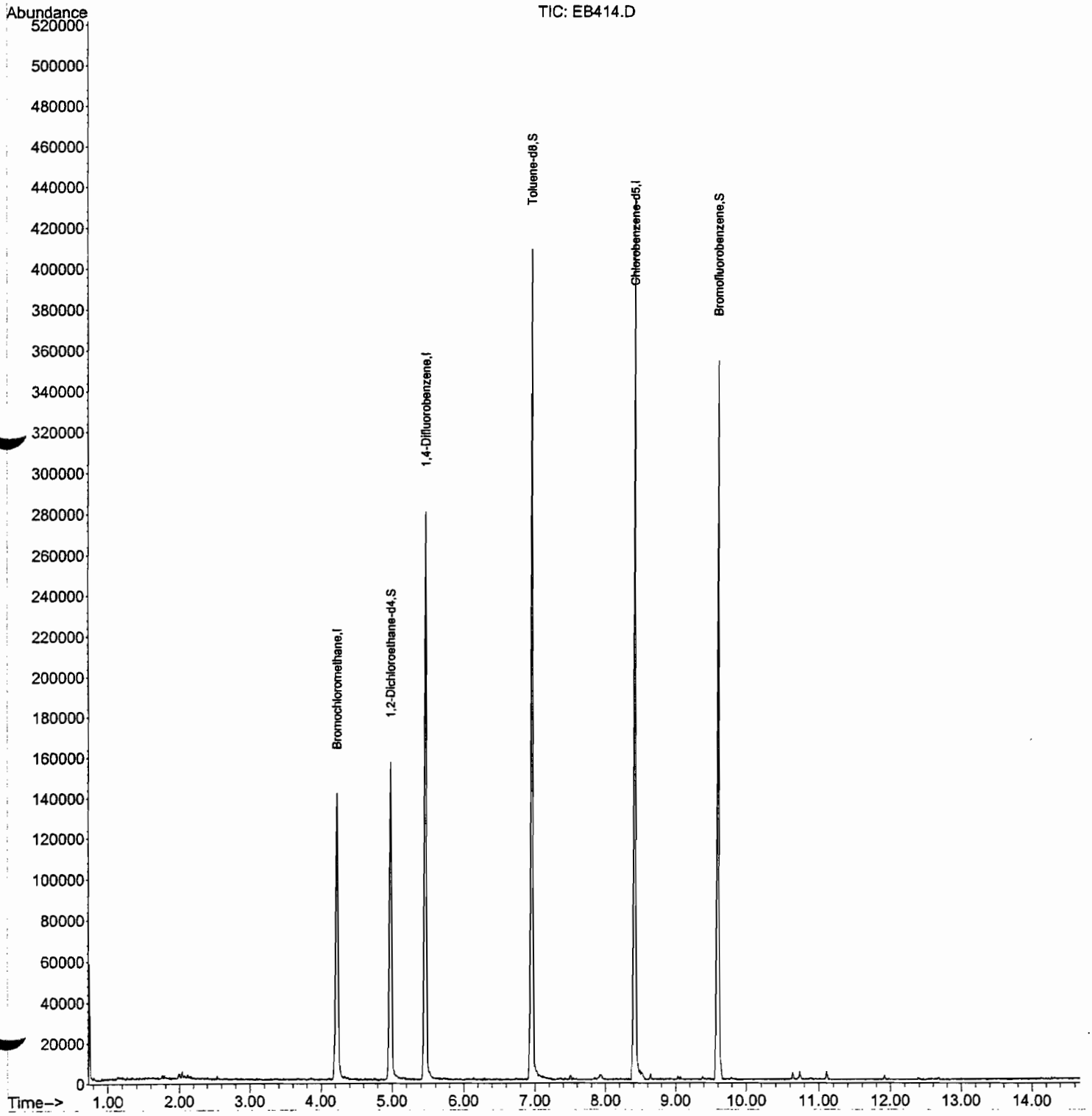
VBLK01

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S
Matrix: (soil/water) WATER Lab Sample ID: VBLK01
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: EB414
Level: (low/med) LOW Date Received:
% Moisture: not dec._____ Date Analyzed: 09/08/06
GC Column: DB-624 ID: .18 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	m,p-Xylene	10.	U
95-47-6	o-Xylene	10.	U
1634-04-4	Methyl t-butyl ether	10.	U
75-71-8	Dichlorodifluoromethane	10.	U
79-20-9	Methyl Acetate	10.	U
76-13-1	Freon 113	10.	U
75-69-4	Trichlorofluoromethane	10.	U
110-82-7	Cyclohexane	10.	U
108-87-2	Methylcyclohexane	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
98-82-8	Isopropylbenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
96-12-8	1,2-Dibromo-3-chloropropane	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U

Data Path : C:\MSDChem\1\DATA\060908\
Data File : EB414.D
Acq On : 8 Sep 2006 1:54 pm
Operator :
Sample : VBLK
Misc : MBLK EPA_8260_WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 11 08:37:29 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 14:11:29 2006
Response via : Continuing Cal File: C:\MSDChem\1\DATA\060908\ES411.D



000069

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\060908\
Data File : EB414.D
Acq On : 8 Sep 2006 1:54 pm
Operator :
Sample : VBLK
: MBLK EPA_8260_WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 11 08:37:29 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 14:11:29 2006
Response via : Continuing Cal File: C:\MSDChem\1\DATA\060908\ES411.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.21	128	29697	50.00	ug	0.00
26) 1,4-Difluorobenzene	5.46	114	166491	50.00	ug	0.00
44) Chlorobenzene-d5	8.40	117	81098	50.00	ug	0.00
System Monitoring Compounds						
24) 1,2-Dichloroethane-d4	4.97	65	146342	51.69	ug	0.00
45) Toluene-d8	6.94	98	200349	45.44	ug	0.00
56) Bromofluorobenzene	9.58	95	96595	44.01	ug	0.00
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VMSB

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S

Matrix: (soil/water) WATER Lab Sample ID: VMSB

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: E2594

Level: (low/med) LOW Date Received: 09/07/06

% Moisture: not dec._____ Date Analyzed: 09/08/06

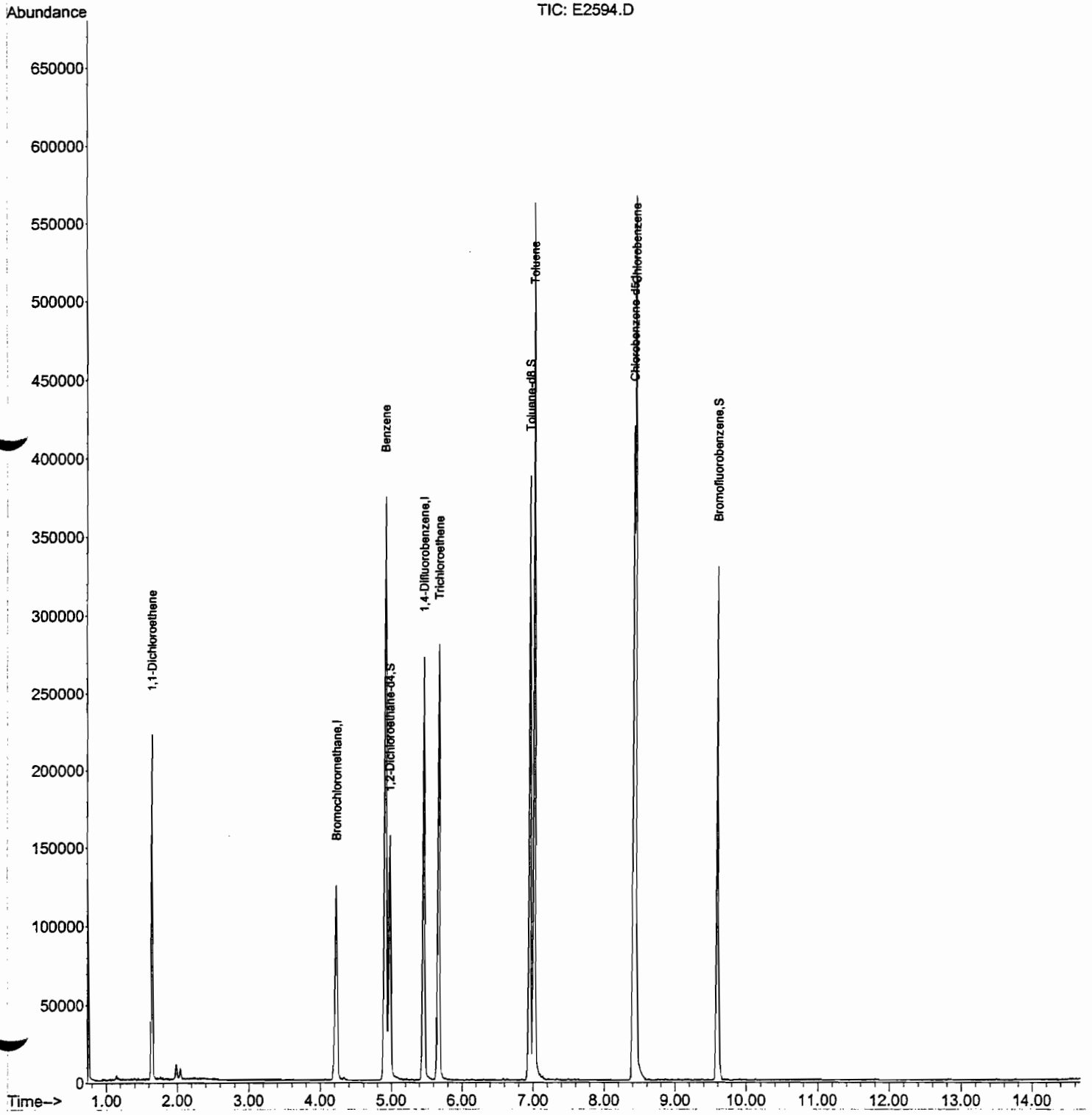
GC Column: DB-624 ID: .18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	39.	
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	49.	
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	49.	
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	51.	
108-90-7	Chlorobenzene	51.	
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	m,p-Xylene	10.	U
95-47-6	o-Xylene	10.	U
1634-04-4	Methyl t-butyl ether	10.	U
75-71-8	Dichlorodifluoromethane	10.	U
79-20-9	Methyl Acetate	10.	U
76-13-1	Freon 113	10.	U
75-69-4	Trichlorofluoromethane	10.	U
110-82-7	Cyclohexane	10.	U
108-87-2	Methylcyclohexane	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
98-82-8	Isopropylbenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
96-12-8	1,2-Dibromo-3-chloropropane	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U

Data Path : C:\MSDCHEM\1\DATA\060908\
Data File : E2594.D
Acq On : 8 Sep 2006 5:32 pm
Operator :
Sample : VMSB
Misc : LCS EPA_8260_WATER
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 11 08:40:59 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 17:00:32 2006
Response via : Continuing Cal File: C:\MSDChem\1\DATA\060908\ES411.D



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\060908\
Data File : E2594.D
Acq On : 8 Sep 2006 5:32 pm
Operator :
Sample : VMSB
: LCS EPA_8260_WATER
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 11 08:40:59 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 17:00:32 2006
Response via : Continuing Cal File: C:\MSDChem\1\DATA\060908\ES411.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.21	128	25444	50.00	ug	0.00
26) 1,4-Difluorobenzene	5.45	114	151433	50.00	ug	0.00
44) Chlorobenzene-d5	8.40	117	72674	50.00	ug	0.00
System Monitoring Compounds						
24) 1,2-Dichloroethane-d4	4.96	65	134618	55.50	ug	0.00
45) Toluene-d8	6.94	98	186477	47.20	ug	0.00
56) Bromofluorobenzene	9.58	95	88656	45.08	ug	0.00
Target Compounds						Qvalue
9) 1,1-Dichloroethene	1.64	96	44175	39.48	ug	99
30) Benzene	4.90	78	230069	49.17	ug	100
32) Trichloroethene	5.66	130	73153	49.40	ug	97
47) Toluene	7.00	92	169468	50.76	ug	87
50) Chlorobenzene	8.42	112	189605	51.13	ug	91

') = qualifier out of range (m) = manual integration (+) = signals summed

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-9S MS

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S

Matrix: (soil/water) WATER Lab Sample ID: AX-MW-9S MS

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: E2592

Level: (low/med) LOW Date Received: 09/07/06

% Moisture: not dec._____ Date Analyzed: 09/08/06

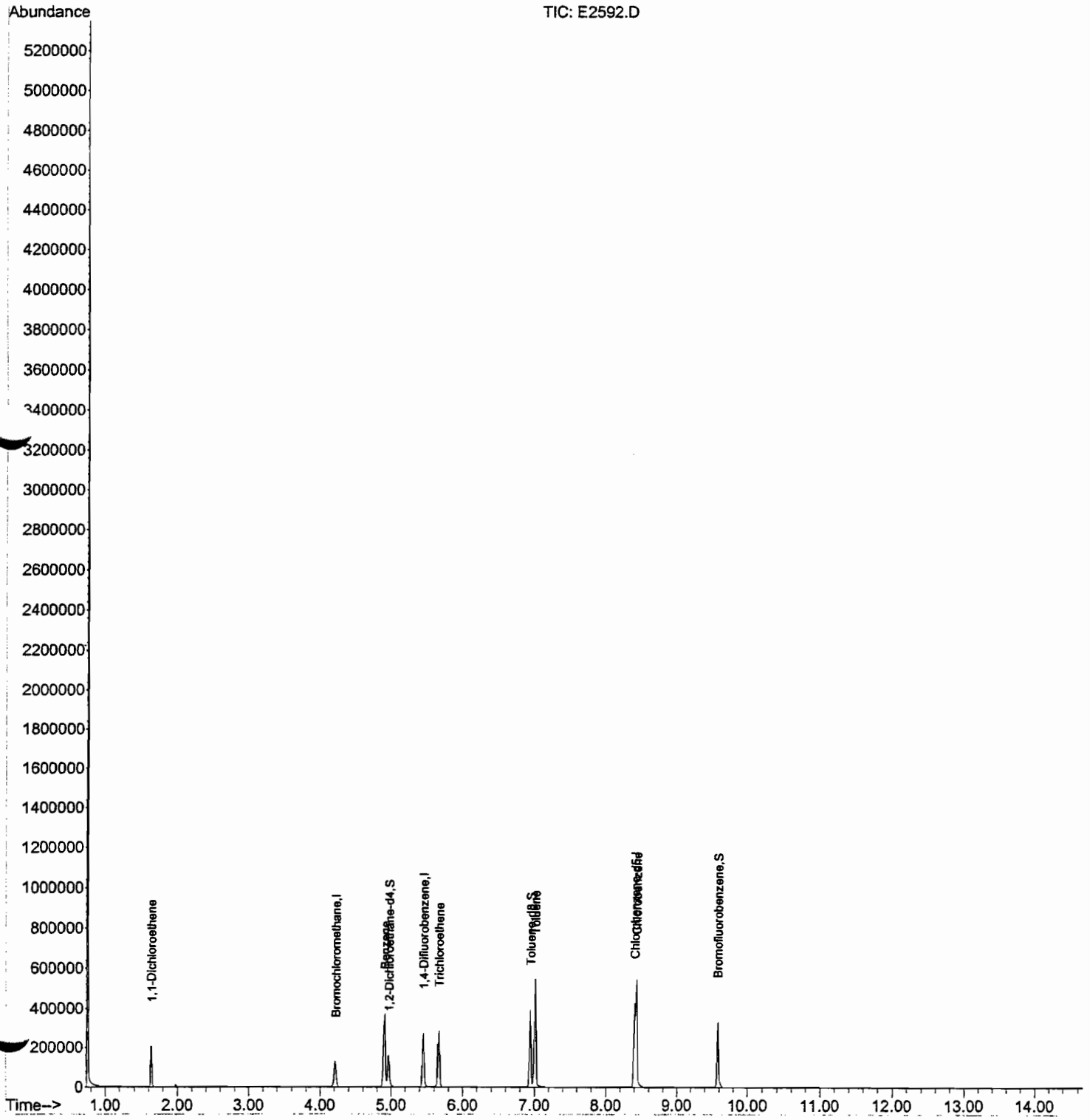
GC Column: DB-624 ID: .18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	39.	
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	48.	
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	48.	
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	53.	
108-90-7	Chlorobenzene	52.	
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	m,p-Xylene	10.	U
95-47-6	o-Xylene	10.	U
1634-04-4	Methyl t-butyl ether	10.	U
75-71-8	Dichlorodifluoromethane	10.	U
79-20-9	Methyl Acetate	10.	U
76-13-1	Freon 113	10.	U
75-69-4	Trichlorofluoromethane	10.	U
110-82-7	Cyclohexane	10.	U
108-87-2	Methylcyclohexane	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
98-82-8	Isopropylbenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
96-12-8	1,2-Dibromo-3-chloropropane	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U

Data Path : C:\MSDCHEM\1\DATA\060908\
Data File : E2592.D
Acq On : 8 Sep 2006 4:44 pm
Operator :
~ mple : 060907030-001A MS
c : MS EPA_8260_WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 11 08:40:03 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 17:00:32 2006
Response via : Continuing Cal File: C:\MSDChem\1\DATA\060908\ES411.D



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\060908\
Data File : E2592.D
Acq On : 8 Sep 2006 4:44 pm
Operator :
Sample : 060907030-001A MS
: MS EPA_8260_WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 11 08:40:03 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 17:00:32 2006
Response via : Continuing Cal File: C:\MSDChem\1\DATA\060908\ES411.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.21	128	26596	50.00	ug	0.00
26) 1,4-Difluorobenzene	5.45	114	150256	50.00	ug	0.00
44) Chlorobenzene-d5	8.40	117	67965	50.00	ug	0.00
System Monitoring Compounds						
24) 1,2-Dichloroethane-d4	4.96	65	135564	53.47	ug	0.00
45) Toluene-d8	6.94	98	188844	51.11	ug	0.00
56) Bromofluorobenzene	9.58	95	88248	47.98	ug	0.00
Target Compounds						Qvalue
9) 1,1-Dichloroethene	1.64	96	45855	39.20	ug	91
30) Benzene	4.90	78	224478	48.35	ug	100
32) Trichloroethene	5.66	130	70355	47.89	ug	97
47) Toluene	7.00	92	163928	52.50	ug	86
50) Chlorobenzene	8.42	112	181140	52.23	ug	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-9S MSD

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: ERM0603 SAS No.: SDG No.: AX-MW-8S

Matrix: (soil/water) WATER Lab Sample ID: AX-MW-9S MSD

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: E2593

Level: (low/med) LOW Date Received: 09/07/06

% Moisture: not dec._____ Date Analyzed: 09/08/06

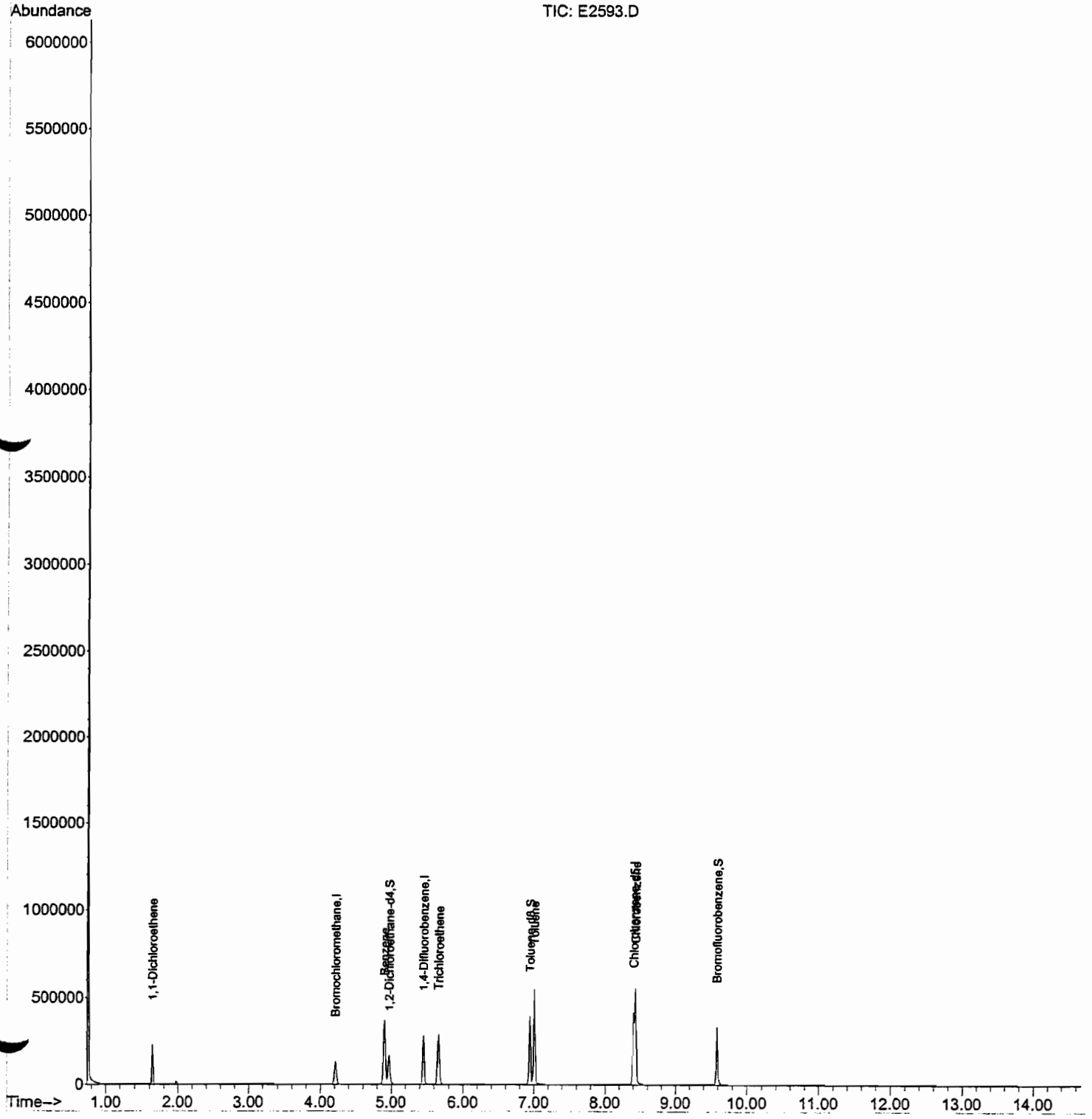
GC Column: DB-624 ID: .18 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	39.	
75-34-3	1,1-Dichloroethane	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	48.	
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	48.	
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	48.	
108-90-7	Chlorobenzene	49.	
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	m,p-Xylene	10.	U
95-47-6	o-Xylene	10.	U
1634-04-4	Methyl t-butyl ether	10.	U
75-71-8	Dichlorodifluoromethane	10.	U
79-20-9	Methyl Acetate	10.	U
76-13-1	Freon 113	10.	U
75-69-4	Trichlorofluoromethane	10.	U
110-82-7	Cyclohexane	10.	U
108-87-2	Methylcyclohexane	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
98-82-8	Isopropylbenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
96-12-8	1,2-Dibromo-3-chloropropane	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U

Data Path : C:\MSDCHEM\1\DATA\060908\
Data File : E2593.D
Acq On : 8 Sep 2006 5:08 pm
Operator :
Sample : 060907030-001A MSD
Misc : MSD EPA_8260_WATER
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 11 08:40:29 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 17:00:32 2006
Response via : Continuing Cal File: C:\MSDChem\1\DATA\060908\ES411.D



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\060908\
Data File : E2593.D
Acq On : 8 Sep 2006 5:08 pm
Operator :
Sample : 060907030-001A MSD
: MSD EPA_8260_WATER
Vial : 17 Sample Multiplier: 1

Quant Time: Sep 11 08:40:29 2006
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Sep 08 17:00:32 2006
Response via : Continuing Cal File: C:\MSDChem\1\DATA\060908\ES411.D

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	4.21	128	26818	50.00	ug		0.00
26) 1,4-Difluorobenzene	5.45	114	152697	50.00	ug		0.00
44) Chlorobenzene-d5	8.40	117	73273	50.00	ug		0.00
System Monitoring Compounds							
24) 1,2-Dichloroethane-d4	4.96	65	139228	54.46	ug		0.00
45) Toluene-d8	6.94	98	189236	47.51	ug		0.00
56) Bromofluorobenzene	9.58	95	87464	44.11	ug		0.00
Target Compounds							Qvalue
9) 1,1-Dichloroethene	1.64	96	45795	38.83	ug		97
30) Benzene	4.90	78	225643	47.82	ug		100
32) Trichloroethene	5.66	130	71982	48.21	ug		97
47) Toluene	7.00	92	161707	48.04	ug	#	84
50) Chlorobenzene	8.42	112	184367	49.31	ug		90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

CLP

SAMPLE CALCULATIONS FOR VOLATILE ORGANICS:

1) RRF of Trichloroethene from the VSTD050 analyzed on 9/8/06:

$$= \frac{\text{area of Trichloroethene in std.}}{\text{area of internal std}} \times \frac{\text{concentration of internal standard.}}{\text{concentration of standard}}$$

$$= \frac{69913}{142998} \times \frac{50}{50} = 0.489$$

2) Amount of Trichloroethene in sample AX-MW-9S MS (AES sample number 060907030-001 MS):

$$\text{ug/L} = \frac{\text{area of Trichloroethene in sample}}{\text{area of internal standard in sample}} \times \frac{\text{amount of internal std. (ng)}}{\text{(ml of sample purged)(RRF)}}$$

$$= \frac{70355}{150256} \times \frac{(250)}{(5.0)(0.489)} = 47.9 \text{ ug/L}$$

which is reported as 48 ug/L on the Form I for Volatile Organics

3) Calculation of spike recovery for Trichloroethene in sample AX-MW-9S Matrix Spike:

$$\text{Percent spike recovery} = \frac{\text{quantity determined by analysis}}{\text{quantity added to sample}} \times 100$$

$$\text{\% recovery of Trichloroethene} = \frac{(47.9 - 0.0)}{50.0} \times 100 = 95.8\ \%$$

Analyst	Date	Time	File ID	Sample ID	DF	pH	QA/QC Checks		Comments
							Surrogate Check	Internal Std Check	
JNL	9/8/06		ET409	BFB purged - ok saved					
			ES409	VSTD00D					
BFB=100A	8-22D		ES410	VSTD020 ✓					
I/S=	-22F		ES411	VSTD050 ✓ - cc updated					
G=	-23C		ES412	VSTD100 ✓					
MM=	-23D		ES413	VSTD200 ✓			saved, TCL01M4		
MS=	-23E		ES414	VSTD005 ✓			saved, TCL6PT		
25530			ES415	VSTD010 ✓					
142998		D ✓	EB414	VBLK			ok	ok	
66948			EB415	VBLK			ok	ok	
		D ✓1	E2587	0907030-1A		1	ok	ok	
		D ✓2	E2588	-2A		1	ok	ok	MTBE=19
		D ✓3	E2589	-3A		1	ok	ok	MTBE=6
		D ✓4	E2590	-4A		1	ok	ok	
		D ✓5	E2591	-5A		1	ok	ok	
		D ✓6	E2592	-1AMS			ok	ok	
		D ✓6	E2593	-1AMSD			ok	ok	
		D ✓7	E2594	VMSB			ok	ok	
		D ✓8	E2595	0908064-1A		1	ok	ok	MEK=19

REVIEW _____ DATE