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November 16, 2011

Mr. Lawrence J. Alden, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
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**Subject: Results of May & August 2011 Water Quality Monitoring Program
Ward Products Site, 61 Edson Street, Amsterdam, NY
NYSDEC Site ID #429004**

Dear Mr. Alden,

This letter provides a summary of the results from the groundwater quality samples collected from the Ward Products Site (the Site) in May and August 2011.

Semiannual groundwater monitoring follows the requirements of the New York State Department of Environmental Conservation (NYSDEC)-approved "Site Management Plan, Ward Products Site, Site # 4-29-004, Amsterdam, New York" (SMP) (AECOM, February 2011). The SMP requires semiannual measurement of groundwater levels in 22 monitoring wells plus the groundwater recovery well, and collection of groundwater quality samples for VOCs, total chromium and hexavalent chromium analyses from 13 of the 22 monitoring wells, as listed below:

MW-1R	MW-4	MW-4R	MW-10	MW-11
MW-13	MW-14	MW-15	MW-16	MW-17
MW-18	MW-19	MW-20		

On May 25-26 and August 30-31, 2011, groundwater quality samples were collected by AECOM Environment from the 13 monitoring wells, as specified under the SMP. Results for the primary constituents of interest (trichloroethylene (TCE), total chromium, and hexavalent chromium) are summarized on Table 1. The methods used to collect the samples and the sampling results are discussed in the following sections. Copies of the field sheets for the May and August sampling events are provided in Attachments A and B, respectively.

1.0 Measurement of Groundwater Levels

Prior to sampling the wells, depth to groundwater was measured using a water level indicator. The depth to groundwater and the elevation of groundwater in each of the wells for the May and August sampling events are summarized in Tables 2 and 3, respectively. Elevation contours of the bedrock aquifer based on May and August measurements are shown in Figures 1 and 2, respectively.

Both the May and August groundwater elevation contours show a zone of depression around the recovery well (RW-01) approximately 100 feet in diameter with approximately 30 feet of drawdown in the immediate vicinity of the recovery well.

2.0 Water Quality Sampling

All wells were purged and sampled with a submersible pump using methods specified by the United States Environmental Protection Agency (USEPA) for low flow/low stress sampling [USEPA, 1996]. For each well, the intake of the pump was lowered to the middle of the screened interval and water was then pumped at a low flow rate to match the well infiltration rate, with a maximum flow rate of 0.5 liters per minute. Purge water was pumped through an in-line water quality meter to establish that stabilization of the groundwater had occurred prior to sample collection. Water quality readings were documented approximately every five minutes. Stabilization parameters included pH, conductivity, temperature, dissolved oxygen (DO), and oxidation reduction potential (ORP). The conductivity recorded on the field sheets is in milliohms/cm and was converted to uohms/cm for Tables 2 and 3.

Samples from the May and August sampling events were analyzed for volatile organic compounds (VOCs) by EPA Method 8260B, total chromium by Method E200.7, and hexavalent chromium by method SM3500-CR.

During the May sampling event, a duplicate sample (DUP) was collected from monitoring well MW-20 for quality assurance/quality control (QA/QC). In the August sampling event, a duplicate sample was collected from monitoring well MW-19. Trip blanks were also submitted during both sampling events for analysis of VOCs.

3.0 Water Quality Results

A summary of the May and August concentrations of TCE and total and hexavalent chromium (the primary constituents of concern) are provided in Table 1. Field water quality data are summarized in Tables 2 and 3. The results of laboratory analyses (over time) for select constituents in the 13 wells sampled under the SMP are summarized in Table 4. The Form 1 laboratory data sheets for the August event are included as Attachment C (the May lab reports were submitted to NYSDEC on July 21, 2011). TCE isoconcentration contours of the bedrock aquifer based on May and August measurements are shown in Figures 3 and 4, respectively.

Please note, due to a miscount of sample bottles during in the May 2011 event, a sample was not collected from monitoring well MW-15 for analysis of hexavalent chromium. However, Table 1 shows that total chromium was not detected in MW-15 in May 2011, and therefore, it can be inferred that hexavalent chromium would not have been detected either.

3.1 Volatile Organic Compounds

In the May 2011 event, VOCs were detected above the reporting limit in 10 of the 13 wells sampled. In the August 2011 event, VOCs were detected above the reporting limit in 6 of the 13 wells sampled. TCE continues to be the predominant VOC detected in the groundwater both on- and off-site. Chloroform and cis-1,2-DCE were detected infrequently at low concentrations in the May event. Acetone and methylene chloride were also detected in samples from the May and August events; however, these are common laboratory contaminants.

On-site Monitoring Wells

The highest TCE concentrations continue to be detected in the on-site monitoring wells. The highest concentrations of TCE during the 2011 sampling events were detected in the samples collected from monitoring well MW-4R (23,000 µg/L in May 2011, and 47,000 µg/L in August 2011). These concentrations are an increase from the 2010 TCE results for this well (18,000 µg/L in May 2010 and 7,000 µg/L in October 2010); however, they are within the range of historically observed concentrations for this well (see Table 4). MW-4R was used for injection in the May 2010 in-situ chemical oxidation (ISCO) injection event (the May 2010 samples were collected prior to the ISCO event). The increased TCE concentrations observed in MW-4R in 2011 could indicate rebound from the May 2010 ISCO event.

TCE concentrations at the other on-site, bedrock wells (MW-1R and MW-10) decreased from the 2010 results (see Table 4). The results for MW-1R (120 µg/L in May and 93 µg/L in August) are within the range of historically observed TCE results for this well. The results for MW-10 for May (1,300 µg/L) and August (940 µg/L) are two of the three lowest concentrations observed in this well since monitoring began in 1998 (MW-10 was used for injection in the May 2010 ISCO event).

Well MW-4, which is mostly screened in overburden (5 feet into bedrock), had TCE concentrations of 460 µg/L (May 2011) and 160 µg/L (August 2011) which are similar to TCE concentrations historically observed in this well (see Table 4).

Off-site Monitoring Wells

In the May event, TCE was detected in six of the off-site downgradient monitoring wells (MW-13, MW-15, MW-17, MW-18, MW-19, and MW-20) at concentrations greater than the NYSDEC Groundwater Quality Standard (GQS) of 5 µg/L. In the August event, TCE was detected in only two of the off-site downgradient monitoring wells (MW-13 and MW-17) at concentrations greater than the NYSDEC GQS.

TCE concentrations at downgradient wells MW-13 and MW-17 fluctuated during the 2011 sampling events. For MW-13, the May TCE concentration (1,000 µg/L) increased from the previous event but then decreased in August (440 µg/L). For MW-17, the May TCE concentration (2,600 µg/L)

increased from the previous event but then decreased in August (280 µg/L). As shown in Table 4, both of these wells have exhibited similar fluctuations in TCE concentrations in the past.

Off-site well MW-18, which is located cross-gradient from the source area, exhibits occasional low TCE detections above the NYSDEC GQS of 5 µg/L. TCE was detected in the May event at 9.1 µg/L but was not detected in the August event. As shown in Table 4, this pattern is similar to historic TCE results for this well.

In the 2011 monitoring events, TCE was not detected in downgradient wells MW-14 and MW-16, consistent with historical results (MW-14 had one detection of TCE in May 2007; MW-16 has had only two detections of TCE below the NYSDEC GQS of 5 µg/L since June 2008).

In downgradient wells MW-15, MW-19 and MW-20, TCE was detected in the May event at concentrations slightly above the NYSDEC GQS of 5 µg/L; however, in the August event, TCE was not detected in these three wells. The May detections at wells MW-15 (11 µg/L) and MW-20 (21 µg/L) are the first times TCE has been detected in either of these wells. For MW-19, TCE was detected in one other event (May 2009 at 14 µg/L). These wells will continue to be monitored.

The upgradient well (MW-11) continues to be non-detect for TCE.

3.2 Chromium

Groundwater samples were analyzed for hexavalent and total chromium in 2011 (Table 1). In both events, hexavalent chromium was only detected in on-site well MW-1R (0.05 mg/L in May; 0.11 mg/L in August). The NYSDEC GQS is 0.05 mg/L. These results are consistent with the historical hexavalent chromium results for well MW-1R, as shown on Table 4.

Please note, due to a miscount of sample bottles during in the May 2011 event, a sample was not collected from monitoring well MW-15 for analysis of hexavalent chromium. However, Table 1 shows that total chromium was not detected in MW-15 in May 2011, and therefore, it can be inferred that hexavalent chromium would not have been detected either.

Total chromium was detected in three wells in May (MW-1R at 0.0698 mg/L; MW-4 at 0.0143 mg/L; and MW-11 at 0.0267 mg/L) and one well in August (MW-1R at 0.127 mg/L). These detections are consistent with the historical results for these wells.

Chromium (hexavalent and total) was not detected in any of the off-site wells at concentrations above the NYSDEC GQS.

4.0 Sediment Basin Inspection

As part of the remedy for the site, two sediment settling basins were constructed along the eastern branch of the tributary draining from the former Ward Products site to the Mohawk River. Construction of these basins was completed in 2009. A third sediment basin already existed along the tributary. The three sediment basins associated with the Site are:

- Route 5 Area basin - immediately north of the CSX railroad tracks;

- Chapman Road Area basin - immediately north of the rail spur (north of Chapman Road); and
- Sam Stratton Road Area basin - immediately south of Sam Stratton Road

The site Record of Decision (ROD) requires that these sediment basins be inspected annually for sediment accumulation and sampled to determine if the sediments need to be removed for off-site disposal. Based on the amount of sediment accumulated, samples of the sediment may be required to be analyzed for select metals (total cadmium, chromium, lead, nickel and zinc). The SMP specifies the criteria for determining if sediment sample analysis is required.

AECOM field technicians inspected all 3 sediment basins on August 30, September 1, and September 8, 2011, after the passage of Hurricane Irene and Tropical Storm Lee. All 3 basins were intact and did not sustain any damage due to the heavy rains. The overall sediment depth in the basins ranged from 4 to 6 inches, which is approximately the same depth as observed in August 2010. Therefore, per the SMP guidelines, sediment samples were not collected for metals analyses this year.

The results of the inspection indicate that the sediment basins are meeting their intended purpose of collecting potentially impacted sediments before they enter the Mohawk River.

5.0 Conclusions

The groundwater extraction system shows a zone of depression around the recovery well approximately 100 feet in diameter with approximately 30 feet of draw down in the immediate vicinity of the recovery well, as shown on Figures 1 and 2.

TCE continues to be detected in the monitoring wells located both on- and off-site at concentrations that exceed the NYSDEC GQS. Based on the 2011 TCE concentration contours in Figures 3 and 4 and the historic data in Table 4, the TCE plume appears to have expanded anomalously during the May sampling round, but returned to previous size during the August sampling round. In the May and August 2011 sampling events, concentrations of TCE in groundwater wells on-site remain elevated. The May and August 2011 TCE results indicate that the downgradient limits of the TCE plume continue to be delineated at wells MW-14, MW-15, MW-16, MW-19 and MW-20, where TCE results are typically non-detect, although detections of TCE above the NYSDEC GQS of 5 µg/L were observed at wells MW-15, MW-19 and MW-20 in the May 2011 event (they were all non-detect in the August 2011 event).

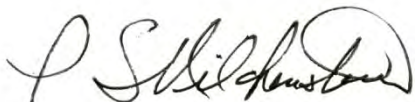
Detections of hexavalent and total chromium in the May and August 2011 events were similar to those previously observed.

6.0 Recommendations

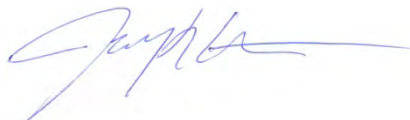
AECOM and New Water Realty are currently evaluating the appropriateness of another ISCO injection event; the results of this evaluation will likely be filed with the Department before the end of 2011. In the mean time, AECOM recommends that groundwater monitoring continue per the approved SMP program in 2012.

If you have any questions regarding this letter, please feel free to contact Paul Kilchenstein at 603.224-3917 or by e-mail.

Yours sincerely,



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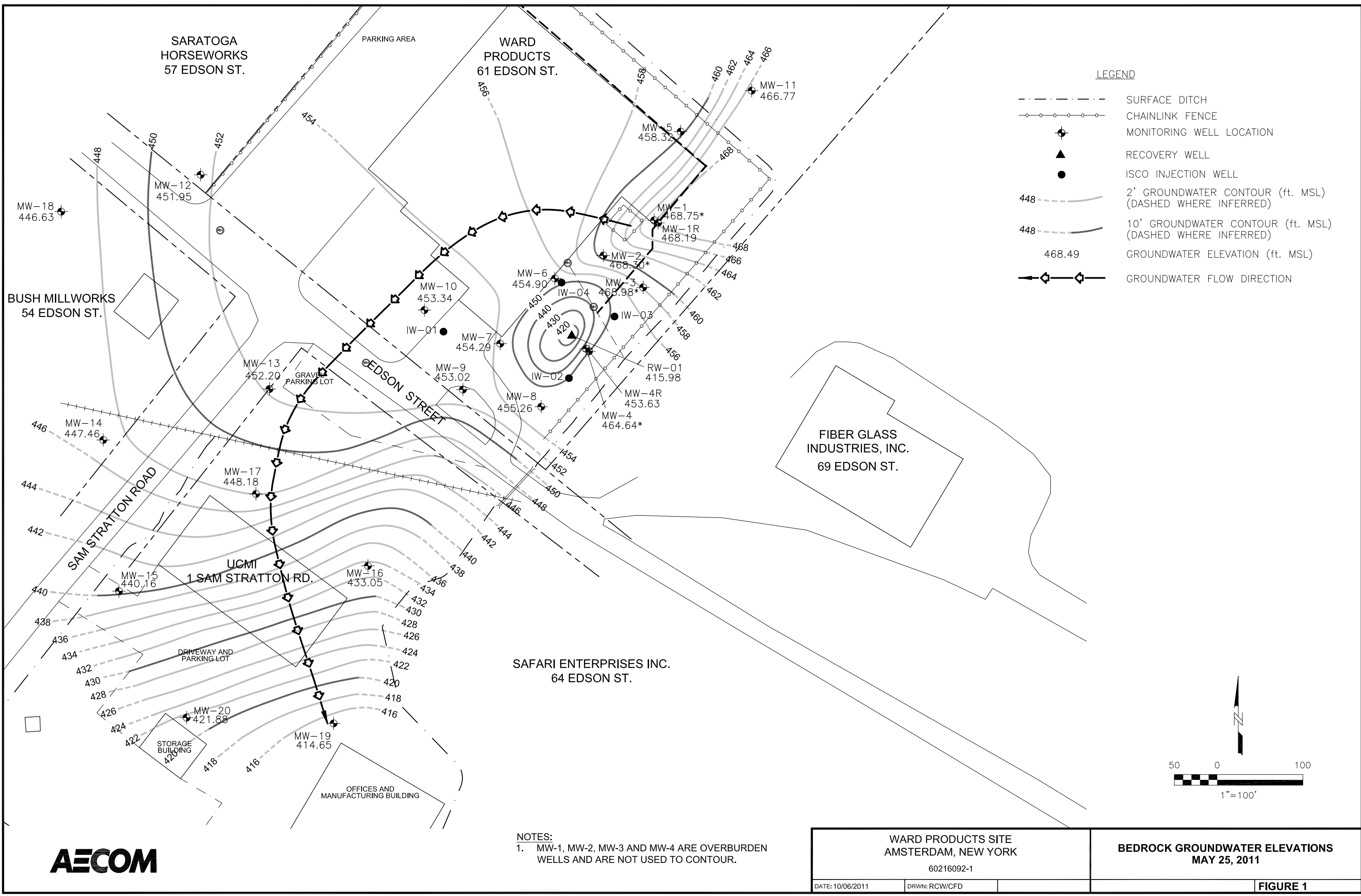
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Attachments: Figure 1 – Bedrock Groundwater Elevations May 2011
Figure 2 – Bedrock Groundwater Elevations August 2011
Figure 3 – Bedrock TCE Concentrations May 2011
Figure 4 – Bedrock TCE Concentrations August 2011
Table 1 – Summary of Primary Constituents
Table 2 – Summary of Field Measurements May 2011
Table 3 – Summary of Field Measurements August 2011
Table 4 – Summary of Relevant Analytical Results
Attachment A – May 2011 Groundwater Monitoring Field Notes
Attachment B – August 2011 Groundwater Monitoring Field Notes
Attachment C – August 2011 Laboratory Results *(only included with the original)*

cc: S. Bates – NYSDOH
B. Conlon – NYSDEC
B. Bush - Bush Millworks
S. Chapman – UCM
R. Conway, Jr., Esq. - Schenck, Price, Smith & King
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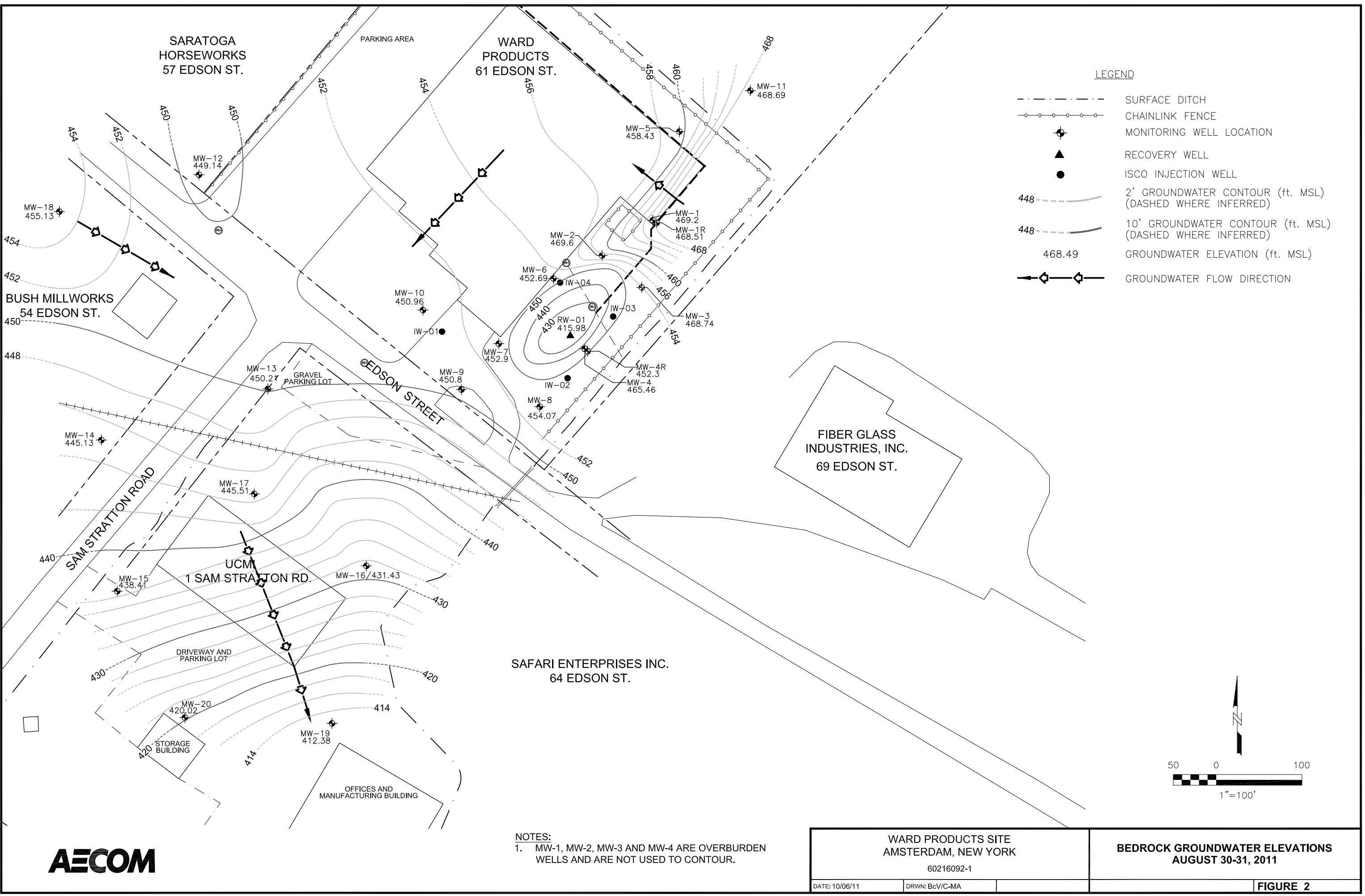
Figures

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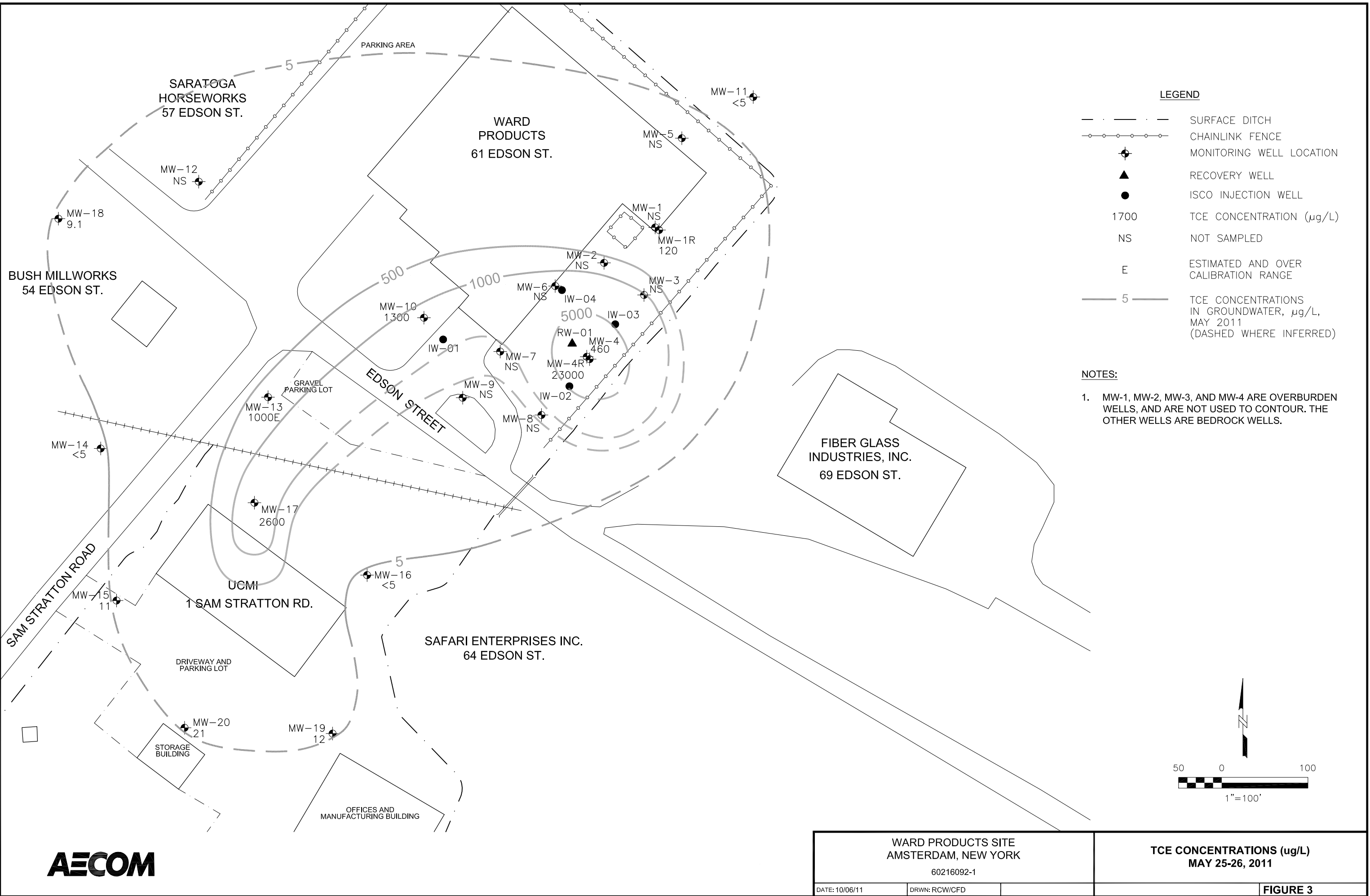


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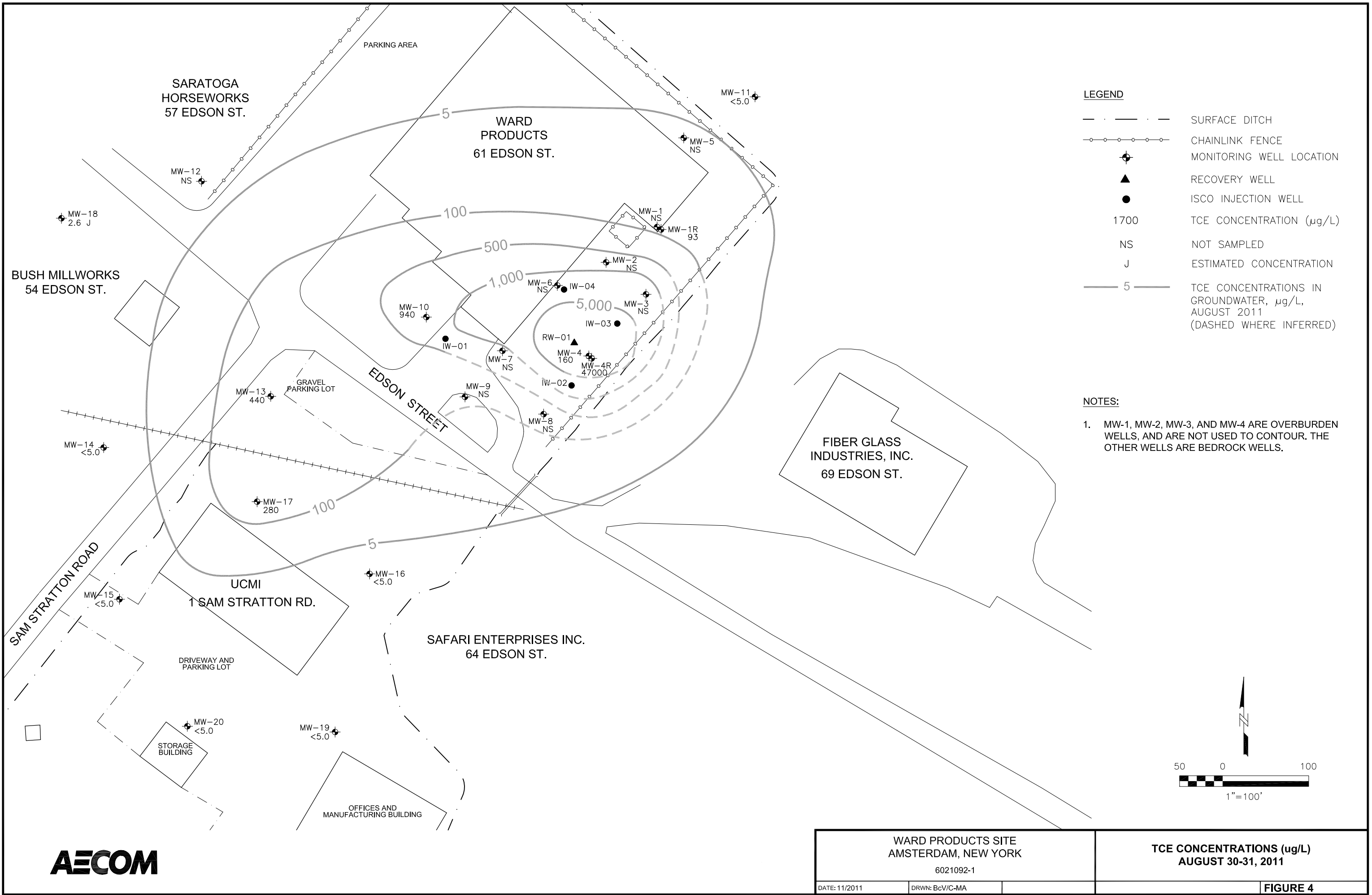
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Tables

Table 1
Summary of Primary Constituents of Interest
61 Edson Street, Amsterdam, NY
NYSDEC Site #4-029-004

Sampling Date: **May 25-26, 2011**

Well Number	Trichloroethene ug/L	Total Chromium mg/L	Hexavalent Chromium mg/L
NYSDEC GQS	5	0.05	0.05
MW-1R ^[b]	120	0.0698	0.050
MW-4	460	0.0143	<0.020
MW-4R	23000	<0.0047	<0.020
MW-10	1300	<0.0047	<0.020
MW-11	<5.0	0.0267	<0.020
MW-13	1000 E	<0.0047	<0.020
MW-14	<5.0	<0.0047	<0.020
MW-15	11	<0.0047	NA
MW-16	<5.0	<0.0047	<0.020
MW-17	2600	<0.0047	<0.020
MW-18	9.1	<0.0047	<0.020
MW-19	12	<0.0047	<0.020
MW-20*	21	<0.0047	<0.020

Sampling Date: **August 30-31, 2011**

Well Number	Trichloroethene ug/L	Total Chromium mg/L	Hexavalent Chromium mg/L
NYSDEC GQS	5	0.05	0.05
MW-1R	93	0.127	0.11
MW-4	160	<0.0047	<0.02
MW-4R	47000	<0.0047	<0.02
MW-10	940	<0.0047	<0.02
MW-11	<5.0	<0.0047	<0.02
MW-13	440	<0.0047	<0.02
MW-14	<5.0	<0.0047	<0.02
MW-15	<5.0	<0.0047	<0.02
MW-16	<5.0	<0.0047	<0.02
MW-17	280	<0.0047	<0.02
MW-18	2.6 J	<0.0047	<0.02
MW-19*	<5.0	<0.0047	<0.02
MW-20	<5.0	<0.0047	<0.02

Notes:

NS - Not Sampled

BOLD values are greater than NYSDEC Groundwater Quality Standards

NYSDEC GQS - New York State Department of Environmental Conservation Groundwater Quality Standard

* Average of primary and duplicate sample results (reporting limit used for non-detect results)

E - Estimated value outside the calibration range.

J - Estimated value below the Reporting Limit

^[a] Beginning in May 2011, semiannual groundwater monitoring followed the requirements of the "Site Management Plan, Ward Products Site, Site # 4-29-004, Amsterdam, New York" (AECOM, February 2011).

^[b] On Table 1 of the May 2011 groundwater results report (AECOM, July 21, 2011), the TCE and total and hexavalent chromium results were inadvertently mis-reported for well MW-1R. The correct results are reported on this table.

Table 2
Summary of Field Measurements
61 Edson Street, Amsterdam, NY
NYSDEC Site #4-029-004

Sampling Date: May 25-26, 2011

Monitoring Well	Top of Casing Elevation (Ft)	Depth to Water (Ft)	Water Elevation (Ft)	pH (SU)	Conductivity (uohms/cm)	Temperature (°C)	D.O. (mg/L)	Turbidity (NTU)	ORP (mV)
MW-1	471.55	2.80	468.75	--	--	--	--	--	--
MW-1R	471.46	3.27	468.19	7.13	0.398	11.68	4.90	20.0	85.0
MW-2	471.20	2.90	468.30	--	--	--	--	--	--
MW-3	473.03	4.05	468.98	--	--	--	--	--	--
MW-4	470.17	5.53	464.64	7.07	0.348	10.60	7.83	5.63	58.5
MW-4R	470.29	16.66	453.63	7.36	1.43	11.70	1.07	8.40	32.5
MW-5	475.62	17.30	458.32	--	--	--	--	--	--
MW-6	470.97	16.07	454.90	--	--	--	--	--	--
MW-7	469.14	14.85	454.29	--	--	--	--	--	--
MW-8	467.38	12.12	455.26	--	--	--	--	--	--
MW-9	465.43	12.41	453.02	--	--	--	--	--	--
MW-10	466.77	13.43	453.34	7.34	0.760	14.50	0.630	35.4	222.3
MW-11	485.37	18.60	466.77	7.33	0.436	11.02	3.57	48.4	115.2
MW-12	468.18	16.23	451.95	--	--	--	--	--	--
MW-13	462.12	9.92	452.20	7.29	0.615	12.52	0.410	268	60.2
MW-14	453.66	6.20	447.46	7.81	0.677	17.57	3.26	5.73	23.8
MW-15	445.20	5.04	440.16	7.21	0.761	15.90	0.360	334	-27.1
MW-16	449.50	16.45	433.05	7.54	0.314	14.65	0.980	17.6	-25.8
MW-17	450.84	2.66	448.18	7.30	0.711	11.96	1.25	3.10	-5.80
MW-18	463.76	17.13	446.63	7.41	0.523	12.01	1.13	19.8	-3.70
MW-19	441.64	26.99	414.65	7.15	0.854	13.45	0.710	6.58	72.8
MW-20	442.38	20.50	421.88	7.46	0.831	13.12	2.22	457	42.3
RW-01	472.08	56.10	415.98	--	--	--	--	--	--

Notes:

-- Not Sampled

Depth to water levels measured on May 25, 2011.

Table 3
Summary of Field Measurements
61 Edson Street, Amsterdam, NY
NYSDEC Site #4-029-004

Sampling Date: August 30-31, 2011

Monitoring Well	Top of Casing Elevation (Ft)	Depth to Water (Ft)	Water Elevation (Ft)	pH (SU)	Conductivity (uohms/cm)	Temperature (°C)	D.O. (mg/L)	Turbidity (NTU)	ORP (mV)
MW-1	471.55	2.35	469.20	--	--	--	--	--	--
MW-1R	471.46	2.95	468.51	7.11	0.556	19.06	1.96	17.4	24.5
MW-2	471.20	1.60	469.60	--	--	--	--	--	--
MW-3	473.03	4.29	468.74	--	--	--	--	--	--
MW-4	470.17	4.71	465.46	7.00	0.323	16.47	4.96	7.77	46.8
MW-4R	470.29	17.99	452.30	7.03	1.246	13.02	2.73	0.80	80.0
MW-5	475.62	17.19	458.43	--	--	--	--	--	--
MW-6	470.97	18.28	452.69	--	--	--	--	--	--
MW-7	469.14	16.24	452.90	--	--	--	--	--	--
MW-8	467.38	13.31	454.07	--	--	--	--	--	--
MW-9	465.43	14.63	450.80	--	--	--	--	--	--
MW-10	466.77	15.81	450.96	7.16	0.741	15.83	0.950	13.7	31.3
MW-11	485.37	16.68	468.69	7.13	0.445	12.09	2.39	54.3	72.7
MW-12	468.18	19.04	449.14	--	--	--	--	--	--
MW-13	462.12	11.91	450.21	7.00	0.361	12.13	1.10	39.1	58.7
MW-14	453.66	8.53	445.13	7.30	0.618	14.67	0.190	5.26	-69.7
MW-15	445.20	6.79	438.41	7.11	0.783	17.16	0.270	70.6	-42.1
MW-16	449.50	18.07	431.43	7.19	0.502	11.77	1.42	8.44	-48.3
MW-17	450.84	5.33	445.51	6.89	0.444	12.96	4.34	13.1	79.5
MW-18	463.76	8.63	455.13	7.11	0.369	12.76	2.66	13.8	37.2
MW-19	441.64	29.26	412.38	6.98	0.873	13.38	2.03	6.66	25.3
MW-20	442.38	22.36	420.02	7.50	0.423	12.52	3.22	1000+	53.2
RW-01	472.08	56.10	415.98	--	--	--	--	--	--

Notes:

-- Not Sampled

Depth to water levels measured on 8/31/2011 (except MW-13 was measured on 8/31/2011)

Table 4
Relevant Groundwater Analytical Results
61 Edson Street, Amsterdam, NY
NYSDEC Site #4-029-004

	MW-1R											
	METALS (mg/L)		VOCs (µg/L)									
	Hexavalent Chromium	Total Chromium	Carbon Tetrachloride	Chloro-benzene	Chloroform	Dichloro-difluoromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloro-ethene	Trichloro-ethene	Vinyl Chloride
NYSDEC STANDARD	0.05	0.05	5	5	7	5	5	5	5	5	5	2
9/5/97	6.77	7.16J	14	<1	4J	NA	<2	36	<2	3J	410	<2
11/3/97	12	11.5	33	<1	6	NA	<2	34	<2	4J	690	<2
5/8/98	0.89	1.48	<5	<5	<5	<10	<5	NA	NA	<5	180	<10
8/26/98	1.2	0.99	11	<5	<5	<10	<5	NA	NA	<5	280	<10
11/17/98	6.4	5.71	65	<25	30	<50	<25	NA	NA	<25	550	<50
5/24/99	0.55	0.451	<5	<5	<5	<10	<5	NA	NA	<5	100	<10
8/24/99	1.99	1.87	48	<10	<10	<20	<10	NA	NA	<10	420	<20
11/15/99	0.68	0.5	36	<5	<5	<10	<5	NA	NA	<5	280	<10
5/23/00	0.3	0.323	<10	<10	<10	<20	<10	NA	NA	<10	160	<20
8/23/00	0.41	0.349	10	<5	<5	<10	<5	NA	NA	<5	170	<10
5/22/01	0.26	0.26	10	<10	<10	<20	<10	NA	NA	<10	140	<20
8/29/01	0.43	0.365	11	<10	<10	<20	<10	NA	NA	<10	170	<20
6/17/02	0.16	0.216	<5	<5	<5	<10	<5	NA	NA	<5	62	<10
9/16/02	0.16	0.16	<10	<10	<10	<20	<10	NA	NA	<10	110	<20
9/10/03	0.25	0.22	17	<10	<10	<20	<10	14	<10	<10	180	<20
5/19/04	0.14	0.139	<5	<5	<5	NA	<5	<5	<5	<5	96	<10
8/18/04	0.2	0.214	<10	<10	<10	NA	<10	<10	<10	<10	180	<10
5/11/05	0.12	0.124	4J	<10	<10	<10	<10	2J	<10	<10	94	<10
9/22/05	0.03	0.319	10J	<10	2J	<10	<10	14	<10	2J	200E	<10
5/23/06	0.13	0.132	5J	<10	6J	<10	<10	4J	<10	<10	110	<10
9/22/05	0.26	0.241	9J	<10	<10	<10	<10	7J	<10	<10	150	<10
5/30/07	0.119	0.117	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	68	<10.0
8/6/07	<0.02	0.019	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
6/25/08	0.083	0.08	<10	<10	<10	<10	<10	<10	<10	<10	59	<10
8/25/08	0.09	0.135	<5	<5	<5	<10	<5	<5	<5	<5	95	<10
5/19/09	0.06	0.0557	<5	<5	<5	<10	<5	<5	<5	<5	68	<10
8/12/09	0.11	0.122	5.3	<5	<5	<10	<5	<5	<5	<5	100	<10
5/5/10	0.06	0.0682	2.3 J	<5	<5	<10	<5	<5	<5	<5	63	<10
8/31/10	0.29	0.311	5.3	<5	<5	<10	<5	6	<5	<5	140	<10
5/26/11	0.05	0.0698	<5	<5	4.4J	<10	<5	<5	<5	<5	120	<10
8/30/11	0.11	0.127	<5	<5	<5	<10	<5	<5	<5	<5	93	<10

Notes:

NA - not analyzed

NS - not sampled

J - estimated value below the detection limit

E - estimated value outside of the calibration range

BOLD = detection

BOLD & shaded = value exceeds the NYSDEC Standard

Table 4
Relevant Groundwater Analytical Results
61 Edson Street, Amsterdam, NY
NYSDEC Site #4-029-004

MW-4												
	METALS (mg/L)		VOCs (µg/L)									
	Hexavalent Chromium	Total Chromium	Carbon Tetrachloride	Chloro-benzene	Chloroform	Dichloro-difluoromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloro-ethene	Trichloro-ethene	Vinyl Chloride
NYSDEC STANDARD	0.05	0.05	5	5	7	5	5	5	5	5	5	2
8/22/96	0.07	0.09	<5	<5	<5	NA	<5	<5	<5	<5	540	<5
5/22/97	0.086	NA	<5	<5	<5	NA	<5	<5	<5	<5	330	<5
9/5/97	0.0817	0.078J	<1	<1	1J	NA	<1	<2	<2	<1	330	<2
11/3/97	0.027J	NA	<1	<1	1J	NA	<1	<2	<2	<1	540	<2
5/8/98	0.1	0.11	<5	<5	<5	<10	<5	NA	NA	<5	300	<10
8/26/98	0.1	0.07	<12	<12	<12	<25	<12	NA	NA	<12	400	<25
11/17/98	0.06	0.068	<100	<100	<100	<200	<100	NA	NA	<100	3200	<200
5/24/99	0.08	0.08	<25	<25	<25	<50	<25	NA	NA	<25	800	<50
8/24/99	0.08	0.064	<25	<25	<25	<50	<25	NA	NA	<25	760	<50
11/15/99	0.1	0.066	<25	<25	<25	<50	<25	NA	NA	<25	920	<50
5/23/00	0.08	0.079	<25	<25	<25	<50	<25	NA	NA	<25	460	<50
8/23/00	0.07	0.068	<25	<25	<25	<50	<25	NA	NA	<25	470	<50
5/22/01	0.04	0.037	<10	<10	<10	<20	<10	NA	NA	<10	240	<20
8/30/01	0.04	0.043	<125	<25	<25	<20	<25	NA	NA	<25	300	<50
6/18/02	0.05	0.052	<13	<13	<13	<25	<13	NA	NA	<13	300	<25
9/17/02	0.04	0.039	<250	<250	<250	<500	<250	NA	NA	<250	6000	<500
9/11/03	0.05	<0.005	<12	<12	<12	<25	<12	<12	<12	<12	430	<25
5/19/04	0.06	0.045	<10	<10	<10	NA	<10	<10	<10	<10	330	<20
8/18/04	0.04	0.0569	<20	<20	<20	NA	<20	<20	<20	<20	390	<20
5/11/05	0.05	0.0441	<20	<20	<20	<20	<20	<20	<20	<20	340	<20
9/22/05	0.03	0.0288	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	20000E	<1000
5/22/06	0.03	0.029	<20	<20	<20	<20	<20	<20	<20	<20	300	<20
8/23/06	0.04	0.0289	<50	<50	<50	<50	<50	<50	<50	<50	690	<50
5/30/07	<0.020	0.016	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	190	<10.0
8/6/07	<0.020	0.022	<250	<250	<250	<500	<250	<250	<250	<250	6600	<500
6/25/08	<0.02	0.018	<20	<20	<20	<20	<20	<20	<20	<20	250	<20
8/26/08	<0.02	0.018	<10	<10	<10	<20	<10	<10	<10	<10	360	<20
5/19/09	0.03	0.029	<10	<10	<10	<20	<10	<10	<10	<10	260	<20
8/11/09	0.03	0.0296	<10	<10	<10	<20	<10	<10	<10	<10	290	<20
5/6/10	0.03	0.0403	<5	<5	<5	<10	<5	<5	<5	<5	140	<10
8/31/10	0.05	0.0401	<250	<250	<250	<500	<250	<250	<250	<250	5500	<500
5/25/11	<0.02	0.0143	<25	<25	20 J	<50	<25	<25	<25	<25	460	<50
8/30/11	<0.02	<0.0047	<5	<5	<5	<10	<5	2.2 J	<5	<5	160	<10

Notes:

NA - not analyzed

NS - not sampled

J - estimated value below the detection limit

E - estimated value outside of the calibration range

BOLD = detection

BOLD & shaded = value exceeds the NYSDEC Standard

Table 4
Relevant Groundwater Analytical Results
61 Edson Street, Amsterdam, NY
NYSDEC Site #4-029-004

	MW-4R											
	METALS (mg/L)		VOCs (µg/L)									
	Hexavalent Chromium	Total Chromium	Carbon Tetrachloride	Chloro-benzene	Chloroform	Dichloro-difluoromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloro-ethene	Trichloro-ethene	Vinyl Chloride
NYSDEC STANDARD	0.05	0.05	5	5	7	5	5	5	5	5	5	2
9/4/97	0.0155	<0.030	<500	<500	<500	NA	<500	<500	<500	1000	140000	<500
11/3/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1/22/98	0.0052	0.0092J	<20	<20	<20	NA	<20	80J	<40	210	28000	ND
5/8/98	0.03	0.03	<500	<500	<500	<1000	<500	NA	NA	<500	22000	<1000
8/26/98	0.03	0.005	<500	<500	<500	<1000	<500	NA	NA	<500	17000	<1000
11/16/98	0.03	0.015	<1200	<1200	<1200	<2500	<1200	NA	NA	<1200	28000	<2500
5/24/99	0.04	0.006	<1200	<1200	<1200	<2500	<1200	NA	NA	<1200	52000	<2500
8/24/99	0.02	0.008	<500	<500	<500	<1000	<500	NA	NA	<500	14000	<1000
11/15/99	<0.02	<0.005	<1250	<1250	<1250	<2500	<1250	NA	NA	<1250	25000	<2500
5/23/00	<0.02	0.017	<500	<500	<500	<1000	<500	NA	NA	<500	20000	<2500
8/23/00	<0.02	0.006	<500	<500	<500	<1000	<500	NA	NA	<500	19000	<2500
5/22/01	<0.02	0.012	<2500	<2500	<2500	<2500	<2500	NA	NA	<2500	45000	<5000
8/30/01	<0.02	0.009	<1250	<1250	<1250	<2500	<1250	NA	NA	<1250	13000	<2500
6/18/02	<0.02	0.008	<500	<500	<500	<1000	<500	NA	NA	<500	14000	<1000
9/17/02	<0.02	0.005	<250	<250	<250	<500	<250	NA	NA	<250	7500	<500
9/11/03	<0.02	0.006	<500	<500	<500	<1000	<250	<500	<500	<500	19000	<1000
5/19/04	<0.02	<0.005	<1000	<1000	<1000	NA	<1000	<1000	<1000	<1000	49000	<2000
8/18/04	<0.020	0.0071B	<2000	<2000	<2000	NA	<2000	<2000	<2000	<2000	28000	<2000
5/11/05	<0.020	0.0076B	<20000	<20000	<20000	<20000	<20000	<20000	<20000	<20000	180000	<20000
9/22/05	<0.020	0.0047B	<5000	<5000	<5000	<5000	<5000	<5000	<5000	<5000	70000	<5000
5/22/06	<0.020	0.0071B	<2000	<2000	<2000	<2000	<2000	<2000	<2000	<2000	24000	<2000
8/23/06	<0.020	0.0138	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	21000E	<1000
5/30/07	<0.020	0.022	<5000	<5000	<5000	<5000	<5000	<5000	<5000	<5000	59000	<5000
8/6/07	<.02	<.005	<250	<250	<250	<500	<250	<250	<250	<250	7400	<500
6/25/08	0.03	0.036	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	47000	<2500
8/25/08	0.03	0.026	<1200	<1200	<1200	<2500	<1200	<1200	<1200	<1200	28000	<2500
5/19/09	0.05	0.0276	<1200	<1200	<1200	<2500	<1200	<1200	<1200	<1200	45000	<2500
8/11/09	0.02	0.0347	<500	<500	<500	<1000	<500	<500	<500	<500	10000	<1000
5/5/10	<0.020	0.0254	<500	<500	<500	<1000	<500	<500	<500	330 J	18000	<1000
8/31/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/28/10	NA	NA	<250	<250	<250	<500	<250	<250	<250	<250	7000	<500
5/25/11	<0.02	<0.005	<1000	<1000	970 J	<2000	<1000	<1000	<1000	<1000	23000	<2000
8/30/11	<0.02	<0.0047	<2500	<2500	<2500	<5000	<2500	<2500	<2500	1200 J	47000	<5000

Notes:

NA - not analyzed

NS - not sampled

J - estimated value below the detection limit

E - estimated value outside of the calibration range

BOLD = detection

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Table 4
Relevant Groundwater Analytical Results
61 Edson Street, Amsterdam, NY
NYSDEC Site #4-029-004

MW-10												
	METALS (mg/L)		VOCs (µg/L)									
	Hexavalent Chromium	Total Chromium	Carbon Tetrachloride	Chloro-benzene	Chloroform	Dichloro-difluoromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloro-ethene	Trichloro-ethene	Vinyl Chloride
NYSDEC STANDARD	0.05	0.05	5	5	7	5	5	5	5	5	5	2
1/22/98	0.0071	0.0146J	<2	<2	5J	NA	7J	39	6J	8J	2900	<4
5/8/98	0.09	0.094	<50	<50	<50	<100	<50	NA	NA	<50	1800	<100
8/26/98	0.05	0.021	<125	<125	<125	<250	<125	NA	NA	<125	5500	<250
11/17/98	0.05	0.023	<250	<250	<250	<500	<250	NA	NA	<250	5000	<500
5/25/99	0.02	<0.005	<120	<120	<120	<250	<120	NA	NA	<120	6000	<250
8/24/99	<0.02	0.016	<250	<250	<250	<500	<250	NA	NA	<250	7800	<500
11/16/99	<0.02	0.008	<250	<250	<250	<500	<250	NA	NA	<250	8000	<500
5/23/00	<0.02	0.021	<250	<250	<250	<500	<250	NA	NA	<250	12000	<500
8/23/00	<0.02	0.012	<250	<250	<250	<500	<250	NA	NA	<250	7000	<500
5/22/01	<0.02	0.012	<250	<250	<250	<500	<250	NA	NA	<250	6000	<500
8/30/01	<0.02	0.012	<250	<250	<250	<500	<250	NA	NA	<250	5700	<500
6/18/02	<0.02	0.008	<500	<500	<500	<1000	<500	NA	NA	<500	7200	<1000
9/18/02	<0.02	0.012	<125	<125	<125	<250	<125	NA	NA	<125	4500	<250
9/11/03	<0.02	<0.005	<120	<120	<120	<250	<120	<120	<120	<120	5000	<250
5/19/04	<0.02	0.045	<120	<120	<120	NA	<120	<120	<120	<120	3800	<250
8/18/04	<0.020	0.0229	<250	<250	<250	NA	<250	<250	<250	<250	3500	<250
5/12/05	<0.020	0.0269	<500	<500	<500	<500	<500	<500	<500	<500	3800	<500
9/22/05	<0.020	0.0232	<500	<500	<500	<500	<500	<500	<500	<500	4100	<500
5/23/06	<0.020	0.0213	<250	<250	<250	<250	<250	<250	<250	<250	4700	<250
8/24/06	<0.020	0.0332	<500	<500	<500	NA	<500	<500	<500	<500	5100	<500
5/29/07	<0.020	0.0064 J	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	6300	<1000
8/6/07	<.02	0.01	<250	<250	<250	<500	<250	<250	<250	<250	5400	<500
6/25/08	<0.02	0.008	<250	<250	<250	<250	<250	<250	<250	<250	3700	<250
8/26/08	<0.02	<0.005	<250	<250	<250	<500	<250	<250	<250	<250	3900	<500
5/20/09	<0.02	0.0095	<250	<250	<250	<500	<250	<250	<250	<250	5900	<500
8/12/09	<0.02	<0.0052	<100	<100	<100	<200	<100	<100	<100	<100	3400	<200
5/6/10	<0.020	<0.0047	<50	<50	<50	<100	<50	<50	<50	<50	1000	<100
9/1/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/28/10	NA	NA	<50	<50	<50	<100	<50	<50	<50	<50	2000 E	<100
5/26/11	<0.02	<0.005	<50	<50	<50	<100	<50	<50	<50	<50	1300	<100
8/30/11	<0.02	<0.0047	<50	<50	<50	<100	<50	<50	<50	<50	940	<100

Notes:

NA - not analyzed

NS - not sampled

J - estimated value below the detection limit

E - estimated value outside of the calibration range

BOLD = detection

BOLD & shaded = value exceeds the NYSDEC Standard

Table 4
Relevant Groundwater Analytical Results
61 Edson Street, Amsterdam, NY
NYSDEC Site #4-029-004

MW-11												
	METALS (mg/L)		VOCs (µg/L)									
	Hexavalent Chromium	Total Chromium	Carbon Tetrachloride	Chloro-benzene	Chloroform	Dichloro-difluoromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloro-ethene	Trichloro-ethene	Vinyl Chloride
NYSDEC STANDARD	0.05	0.05	5	5	7	5	5	5	5	5	5	2
1/22/98	<0.0005	<0.0066	<1	<1	<1	NA	<1	<2	<2	<1	<1	<2
5/8/98	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	<5	<10
8/25/98	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	<5	<10
11/17/98	<0.02	0.006	<5	<5	<5	<10	<5	NA	NA	<5	180	<10
5/24/99	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	<5	<10
8/23/99	<0.02	0.006	<5	<5	<5	<10	<5	NA	NA	<5	<5	<10
11/15/99	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	<5	<10
5/23/00	<0.02	0.008	<5	<5	<5	<10	<5	NA	NA	<5	<5	<10
8/22/00	<0.02	0.007	<5	<5	6	<10	<5	NA	NA	<5	<5	<10
5/21/01	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	<5	<10
8/29/01	<0.02	0.007	<5	<5	<5	<10	<5	NA	NA	<5	<5	<10
6/17/02	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	<5	<10
9/16/02	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	<5	<10
9/10/03	<0.02	<0.005	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/19/04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8/18/04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
5/12/05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9/22/05	<0.02	0.0050B	<10	<10	<10	<10	<10	<10	<10	<10	3J	<10
5/23/06	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8/24/06	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
5/30/07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8/6/07	<0.02	<.005	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
6/25/08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8/25/08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
5/20/09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8/12/09	<0.02	<0.0052	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/7/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9/1/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
5/26/11	<0.02	0.0267	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/31/11	<0.02	<0.0047	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10

Notes:

NA - not analyzed

NS - not sampled

J - estimated value below the detection limit

E - estimated value outside of the calibration range

BOLD = detection

BOLD & shaded = value exceeds the NYSDEC Standard

Table 4
Relevant Groundwater Analytical Results
61 Edson Street, Amsterdam, NY
NYSDEC Site #4-029-004

MW-13												
	METALS (mg/L)		VOCs (µg/L)									
	Hexavalent Chromium	Total Chromium	Carbon Tetrachloride	Chloro-benzene	Chloroform	Dichloro-difluoromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloro-ethene	Trichloro-ethene	Vinyl Chloride
NYSDEC STANDARD	0.05	0.05	5	5	7	5	5	5	5	5	5	2
8/23/99	<0.02	<0.005	<10	<10	<10	<20	<10	NA	NA	<10	290	<20
11/16/99	<0.02	<0.005	<50	<50	<50	<100	<50	NA	NA	<50	750	<100
5/24/00	<0.02	<0.005	<5	<5	<5	<10	14	NA	NA	<5	530	<10
8/23/00	<0.02	<0.005	<25	<25	<25	<50	<25	NA	NA	<25	650	<50
5/21/01	<0.02	0.005	<50	<50	<50	<100	<50	NA	NA	<50	840	<100
8/30/01	<0.02	0.006	<50	<50	<50	<100	<50	NA	NA	<50	940	<100
6/18/02	<0.02	<0.005	<25	<25	<25	<50	<25	NA	NA	<25	600	<50
9/18/02	<0.02	<0.005	<50	<50	<50	<100	<50	NA	NA	<50	700	<100
9/11/03	<0.02	<0.005	<25	<25	<25	<50	<25	59	<25	<25	800	<50
5/19/04	<0.02	<0.005	<25	<25	<25	NA	<25	46	<25	<25	740	<50
8/18/04	<0.020	0.0027B	<50	<50	<50	NA	<50	44J	<50	<50	740	<50
5/12/05	<0.020	0.0084B	<100	<100	<100	<100	<100	<100	<100	<100	950	<100
9/22/05	<0.020	<0.0023	<50	<50	<50	<50	<50	26J	<50	<50	540	<50
5/23/06	<0.020	0.0048B	<50	<50	<50	<50	<50	48J	<50	<50	600	<50
8/24/06	<0.020	0.0138	<100	<100	<100	<100	<100	62J	<100	<100	1000	<100
5/30/07	<0.020	0.010 J	<100	<100	<100	<100	<100	48 J	<100	<100	1000	<100
8/7/07	<0.02	0.006	<50	<50	<50	<100	<50	66	<50	<50	1600	<100
6/25/08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8/25/08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
5/20/09	<0.02	0.0074	<50	<50	<50	<100	<50	81	<50	<50	1300	<100
8/12/09	<0.02	0.0199	<50	<50	<50	<100	<50	66	<50	<50	1000	<100
5/6/10	<0.020	<0.0047	<25	<25	<25	<50	<25	32	<25	<25	510	<50
9/1/10	<0.020	<0.0047	<10	<10	<10	<20	<10	17	<10	<10	270	<20
10/28/10	NA	NA	<25	<25	<25	<50	<25	31	<25	<25	410	<50
5/26/11	<0.02	<0.005	<25	<25	<25	<50	<25	38	<25	<25	1000 E	<50
8/31/11	<0.02	<0.0047	<25	<25	<25	<50	<25	18 J	<25	<25	440	<50

Notes:

NA - not analyzed

NS - not sampled

J - estimated value below the detection limit

E - estimated value outside of the calibration range

BOLD = detection

BOLD & shaded = value exceeds the NYSDEC Standard

Table 4
Relevant Groundwater Analytical Results
61 Edson Street, Amsterdam, NY
NYSDEC Site #4-029-004

MW-14												
	METALS (mg/L)		VOCs (µg/L)									
	Hexavalent Chromium	Total Chromium	Carbon Tetrachloride	Chloro-benzene	Chloroform	Dichloro-difluoromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloro-ethene	Trichloro-ethene	Vinyl Chloride
NYSDEC STANDARD	0.05	0.05	5	5	7	5	5	5	5	5	5	2
8/22/00	<0.02	0.011	<5	<5	<5	<10	<5	NA	NA	<5	<5	<10
5/21/01	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	<5	<10
8/30/01	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	<5	<10
6/19/02	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	<5	<10
9/17/02	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	<5	<10
9/12/03	<0.02	<0.005	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/18/04	NA	NA	<5	<5	<5	NA	<5	<5	<5	<5	<5	<10
8/16/04	NA	NA	<10	<10	<10	NA	<10	<10	<10	<10	<10	<10
5/12/05	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
9/23/05	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
5/23/06	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
8/24/06	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
5/30/07	NA	NA	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	17	<10.0
8/7/07	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
6/25/08	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
8/25/08	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/20/09	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/11/09	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/7/10	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/30/10	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/26/11	<0.02	<0.005	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/31/11	<0.02	<0.0047	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10

Notes:

NA - not analyzed

NS - not sampled

J - estimated value below the detection limit

E - estimated value outside of the calibration range

BOLD = detection

BOLD & shaded = value exceeds the NYSDEC Standard

Table 4
Relevant Groundwater Analytical Results
61 Edson Street, Amsterdam, NY
NYSDEC Site #4-029-004

MW-15												
	METALS (mg/L)		VOCs (µg/L)									
	Hexavalent Chromium	Total Chromium	Carbon Tetrachloride	Chloro-benzene	Chloroform	Dichloro-difluoromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloro-ethene	Trichloro-ethene	Vinyl Chloride
NYSDEC STANDARD	0.05	0.05	5	5	7	5	5	5	5	5	5	2
8/22/00	<0.02	0.009	<5	<5	<5	<10	<5	NA	NA	<5	<5	<10
5/21/01	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	<5	<10
8/30/01	<0.02	0.005	<5	<5	<5	<10	<5	NA	NA	<5	<5	<10
6/19/02	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	<5	<10
9/17/02	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	<5	<10
9/12/03	<0.02	<0.005	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/18/04	NA	NA	<5	<5	<5	NA	<5	<5	<5	<5	<5	<10
8/16/04	NA	NA	<10	<10	<10	NA	<10	<10	<10	<10	<10	<10
5/12/05	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
9/23/05	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
5/23/05	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
8/25/06	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/30/07	NA	NA	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
8/7/07	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
6/25/08	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
8/25/08	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/20/09	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/11/09	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/7/10	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/30/10	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/26/11	NA	<0.005	<5	<5	<5	<10	<5	<5	<5	<5	11	<10
8/31/11	<0.02	<0.0047	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10

Notes:

NA - not analyzed

NS - not sampled

J - estimated value below the detection limit

E - estimated value outside of the calibration range

BOLD = detection

BOLD & shaded = value exceeds the NYSDEC Standard

Table 4
Relevant Groundwater Analytical Results
61 Edson Street, Amsterdam, NY
NYSDEC Site #4-029-004

MW-16												
	METALS (mg/L)		VOCs (µg/L)									
	Hexavalent Chromium	Total Chromium	Carbon Tetrachloride	Chloro-benzene	Chloroform	Dichloro-difluoromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloro-ethene	Trichloro-ethene	Vinyl Chloride
NYSDEC STANDARD	0.05	0.05	5	5	7	5	5	5	5	5	5	2
6/19/02	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	<5	<10
9/17/02	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	33	<10
9/11/03	<0.02	<0.005	<10	<10	<10	<20	<10	26	<10	<10	400	<20
5/16/04	NA	NA	<5	<5	<5	NA	<5	<5	<5	<5	33	<10
8/18/04	NA	NA	<10	<10	<10	NA	<10	<10	<10	<10	43	<10
5/12/05	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	7J	<10
9/23/05	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	10	<10
5/23/06	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	6J	<10
8/24/06	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	14	<10
5/30/07	NA	NA	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	8 J	<10.0
8/7/07	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	12	<10
6/24/08	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
8/26/08	<0.02	<0.005	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/21/09	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	3.3 J	<10
8/12/09	<0.02	<0.0052	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/7/10	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/31/10	<0.020	<0.0047	<5	<5	<5	<10	<5	<5	<5	<5	4.3 J	<10
5/26/11	<0.02	<0.005	<5	<5	4.4 J	<10	<5	<5	<5	<5	<5	<10
8/31/11	<0.02	<0.0047	<5	<5	<5	<10	<5	2.4 J	<5	<5	<5	<10

Notes:

NA - not analyzed

NS - not sampled

J - estimated value below the detection limit

E - estimated value outside of the calibration range

BOLD = detection

BOLD & shaded = value exceeds the NYSDEC Standard

Table 4
Relevant Groundwater Analytical Results
61 Edson Street, Amsterdam, NY
NYSDEC Site #4-029-004

MW-17												
	METALS (mg/L)		VOCs (µg/L)									
	Hexavalent Chromium	Total Chromium	Carbon Tetrachloride	Chloro-benzene	Chloroform	Dichloro-difluoromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloro-ethene	Trichloro-ethene	Vinyl Chloride
NYSDEC STANDARD	0.05	0.05	5	5	7	5	5	5	5	5	5	2
6/19/02	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	67	<10
9/17/02	<0.02	<0.005	<50	<50	<50	<100	<50	NA	NA	<50	700	<100
9/11/03	<0.02	<0.005	<5	<5	<5	<10	9.9	35	<5	<5	1100	<10
5/18/04	NA	NA	<5	<5	<5	NA	<5	20	<5	<5	550	<10
8/17/04	NA	NA	<50	<50	<50	NA	<50	13J	<50	<50	590	<50
5/12/05	NA	NA	<50	<50	<50	<50	<50	<50	<50	<50	610	<50
9/23/05	NA	NA	<50	<50	<50	<50	<50	14J	<50	<50	610	<50
5/23/06	NA	NA	<50	<50	<50	<50	<50	26J	<50	<50	530	<50
8/25/06	NA	NA	<50	<50	<50	<50	<50	<50	<50	<50	920	<50
5/29/07	NA	NA	<200	<200	<200	<200	<200	<200	<200	<200	1400	<200
8/7/07	<0.02	<.005	<100	<100	<100	<200	<100	<100	<100	<100	2300	<200
6/24/08	NA	NA	<50	<50	<50	<50	<50	<50	<50	<50	530	<50
8/26/08	<0.02	<0.005	<10	<10	<10	<20	<10	11	<10	<10	320	<20
5/21/09	NA	NA	<10	<10	<10	<20	<10	<10	<10	<10	320	<20
8/12/09	<0.02	<0.0052	<25	<25	<25	<50	<25	48	<25	<25	600	<50
5/7/10	NA	NA	<50	<50	<50	<100	20 J	76	<50	<50	1900	<100
8/31/10	<0.020	<0.0047	<50	<50	<50	<100	<50	85	<50	<50	2100 E	<100
5/26/11	<0.02	<0.005	<100	<100	<100	<200	<100	49 J	<100	<100	2600	<200
8/31/11	<0.02	<0.0047	<10	<10	<10	<20	<10	8.5 J	<10	<10	280	<20

Notes:

NA - not analyzed

NS - not sampled

J - estimated value below the detection limit

E - estimated value outside of the calibration range

BOLD = detection

BOLD & shaded = value exceeds the NYSDEC Standard

Table 4
Relevant Groundwater Analytical Results
61 Edson Street, Amsterdam, NY
NYSDEC Site #4-029-004

MW-18												
	METALS (mg/L)		VOCs (µg/L)									
	Hexavalent Chromium	Total Chromium	Carbon Tetrachloride	Chloro-benzene	Chloroform	Dichloro-difluoromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloro-ethene	Trichloro-ethene	Vinyl Chloride
NYSDEC STANDARD	0.05	0.05	5	5	7	5	5	5	5	5	5	2
6/19/02	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	<5	<10
9/17/02	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	<5	<10
9/12/03	<0.02	<0.005	<5	<5	<5	<10	<5	<5	<5	<5	6.7	<10
5/18/04	NA	NA	<5	<5	<5	NA	<5	<5	<5	<5	6.7	<10
8/17/04	NA	NA	<10	<10	<10	NA	<10	<10	<10	<10	4J	<10
5/12/05	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	7J	<10
9/23/05	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	13	<10
5/23/06	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	7J	<10
8/25/06	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	13	<10
5/30/07	NA	NA	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	9 J	<10.0
8/7/07	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	11	<10
6/25/08	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
8/25/08	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	11	<10
5/20/09	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	9.4	<10
8/12/09	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	8	<10
5/7/10	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
9/1/10	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/26/11	<0.02	<0.005	<5	<5	<5	<10	<5	<5	<5	<5	9.1	<10
8/31/11	<0.02	<0.0047	<5	<5	<5	<10	<5	<5	<5	<5	2.6 J	<10

Notes:

NA - not analyzed

NS - not sampled

J - estimated value below the detection limit

E - estimated value outside of the calibration range

BOLD = detection

BOLD & shaded = value exceeds the NYSDEC Standard

Table 4
Relevant Groundwater Analytical Results
61 Edson Street, Amsterdam, NY
NYSDEC Site #4-029-004

MW-19												
	METALS (mg/L)		VOCs (µg/L)									
	Hexavalent Chromium	Total Chromium	Carbon Tetrachloride	Chloro-benzene	Chloroform	Dichloro-difluoromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloro-ethene	Trichloro-ethene	Vinyl Chloride
NYSDEC STANDARD	0.05	0.05	5	5	7	5	5	5	5	5	5	2
9/11/03	<0.02	<0.005	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
1/7/04	NA	NA	<5	<5	<5	NA	<5	<5	<5	<5	<5	<10
5/18/04	NA	NA	<5	<5	<5	NA	<5	<5	<5	<5	<5	<10
8/17/04	NA	NA	<10	<10	<10	NA	<10	<10	<10	<10	<10	<10
5/12/05	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
9/23/05	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
5/23/06	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
5/23/06	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
5/30/07	NA	NA	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
8/7/07	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
6/24/08	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
8/25/08	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/20/09	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	14	<10
8/11/09	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/7/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9/1/10	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/26/11	<0.02	<0.005	<5	<5	<5	<10	<5	<5	<5	<5	12	<10
8/31/11	<0.02	<0.0047	<5	<5	5 J	<10	<5	<5	<5	<5	<5	<10

Notes:

NA - not analyzed

NS - not sampled

J - estimated value below the detection limit

E - estimated value outside of the calibration range

BOLD = detection

BOLD & shaded = value exceeds the NYSDEC Standard

Table 4
Relevant Groundwater Analytical Results
61 Edson Street, Amsterdam, NY
NYSDEC Site #4-029-004

MW-20												
	METALS (mg/L)		VOCs (µg/L)									
	Hexavalent Chromium	Total Chromium	Carbon Tetrachloride	Chloro-benzene	Chloroform	Dichloro-difluoromethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloro-ethene	Trichloro-ethene	Vinyl Chloride
NYSDEC STANDARD	0.05	0.05	5	5	7	5	5	5	5	5	5	2
9/11/03	<0.02	<0.005	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
1/7/04	NA	NA	<5	<5	<5	NA	<5	<5	<5	<5	<5	<10
5/18/04	NA	NA	<5	<5	<5	NA	<5	<5	<5	<5	<5	<10
8/16/04	NA	NA	<10	<10	<10	NA	<10	<10	<10	<10	<10	<10
5/12/05	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
9/23/05	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
5/23/06	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
8/25/06	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/30/07	NA	NA	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
8/7/07	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
6/24/08	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
8/26/08	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/20/09	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/11/09	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/7/10	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/31/10	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/26/11	<0.02	<0.005	<5	<5	<5	<10	<5	<5	<5	<5	21	<10
8/31/11	<0.02	<0.0047	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10

Notes:

NA - not analyzed

NS - not sampled

J - estimated value below the detection limit

E - estimated value outside of the calibration range

BOLD = detection

BOLD & shaded = value exceeds the NYSDEC Standard

**Attachment A –
May 2011 Groundwater
Monitoring Field Notes**

WELL ID	Time	Groundwater Measurement (fbmp)
MW-1	1213	2.80
MW-1R	1215	3.27
MW-2	1223	2.90
MW-3	1229	4.05
MW-4	1233	5.53
MW-4R	1235	16.66
MW-5	1210	17.30
MW-6	1240	16.07
MW-7	1244	14.85
MW-8	1245	12.12
MW-9	1246	12.41
MW-10	1247	13.43
MW-11	1250	18.60
MW-12	1255	16.23
MW-13	1249	9.92
MW-14	1302	6.20
MW-15	1305	5.04
MW-16	1315	16.45
MW-17	1320	2.66
MW-18	1259	17.13
MW-19	1311	26.99
MW-20	1309	20.50
IW-1	NA	NM
IW-2	NA	NM
IW-3	NA	NM
IW-4	NA	NM
RW-1	1325	56.10

Note:

All water levels taken on 5/25/11
fbmp - feet below measuring point
Times are approximate

Monitoring Well Purging/Sampling Form

Project Name and Number: Former Ward Products 60216092.2

Monitoring Well Number: MW-1R Date: 5-26-11

Samplers: Mark Howard and Steve Gray

Sample Number: _____ QA/QC Collected? _____

Purging / Sampling Method: Typhoon Submersible Pump with Dedicated Tubing/Low-Flow

1. L = Total Well Depth: _____ feet
2. D = Riser Diameter (I.D.): _____ feet
3. W = Static Depth to Water (TOC): _____ feet
4. C = Column of Water in Casing: _____ feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ _____ gal
6. D2 = Pump Setting Depth (ft): _____ feet
7. C2 = Column of water in Pump/Tubing (ft): _____ feet
8. Tubing Volume = $C2(0.005737088)$ _____ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI-6820 with 650 MDS

Parameter	Units	Readings							
Time	24 hr	7:55	8:00	8:05	8:10	8:15	8:20	8:25	
Water Level (0.33)	feet	2.54	3.90	4.21	5.07	6.11	6.98	7.31	
Volume Purged	gal	—		.25		.50		.75	
Flow Rate	mL / min	100-150	"	"	"	"	"	"	
Turbidity (+/- 10%)	NTU	13.3	9.67	7.64	9.44	9.59	11.8	14.3	
Dissolved Oxygen (+/- 10%)	%	56.1	48.3	46.2	45.4	44.5	40.7	41.6	
Dissolved Oxygen (+/- 10%)	mg/L	6.09	5.17	4.88	4.83	4.81	4.40	4.44	
Eh / ORP (+/- 10)	MeV	111.7	154.8	145.9	129.7	130.7	131.7	105.3	
Specific Conductivity	mS/cm ^c	.560	.569	.596	.618	.617	.609	.605	
Conductivity (+/- 3%)	mS/cm	.419	.431	.460	.469	.462	.456	.459	
pH (+/- 0.1)	pH unit	7.25	6.44	6.48	6.71	6.65	6.63	6.89	
Temp (+/- 0.5)	C	11.91	12.23	13.00	12.56	11.82	11.80	12.37	
Color	Visual	Clear	Clear	Clear	Clear	Clear	Clear	Clear	
Odor	Olfactory	None	None	None	None	None	None	None	

Comments: started purge @ 7:55

pg 1 of 2

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number: Former Ward Products 60216092.2

Monitoring Well Number: MW-1R Date: 5-26-11

Samplers: Mark Howard and Steve Gray

Sample Number: _____ QA/QC Collected? _____

Purging / Sampling Method: Typhoon Submersible Pump with Dedicated Tubing/Low-Flow

1. L = Total Well Depth: _____ feet
2. D = Riser Diameter (I.D.): _____ feet
3. W = Static Depth to Water (TOC): _____ feet
4. C = Column of Water in Casing: _____ feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ _____ gal
6. D2 = Pump Setting Depth (ft): _____ feet
7. C2 = Column of water in Pump/Tubing (ft): _____ feet
8. Tubing Volume = $C2(0.005737088)$ _____ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI-6820 with 650 MDS

Parameter	Units	Readings						
Time	24 hr	8:30	8:35	8:40	8:45	8:50	8:55	9:00
Water Level (0.33)	feet	8.25	9.15	9.95	15.45			
Volume Purged	gal	~~16.31~~	1.25	1.50	Purged			
Flow Rate	mL / min	100-150	"	"				
Turbidity (+/- 10%)	NTU	18.3	21.6	20.0	Dry			
Dissolved Oxygen (+/- 10%)	%	42.5	44.6	45.3				
Dissolved Oxygen (+/- 10%)	mg/L	4.57	4.86	4.90				
Eh / ORP (+/- 10)	MeV	94.3	88.4	85.0				
Specific Conductivity	mS/cm ^c	.586	.563	.532				
Conductivity (+/- 3%)	mS/cm	.440	.419	.398				
pH (+/- 0.1)	pH unit	7.04	7.10	7.13				
Temp (+/- 0.5)	C	11.98	11.52	11.68				
Color	Visual	Clear	Clear	Clear				
Odor	Olfactory	None	None	None				

Comments:

purged dry 8:45
sample @ 9:00

py 20F2

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number: Former Ward Products 60216092.2

Monitoring Well Number: MW-4 Date: 5-25-11

Samplers: Mark Howard and Steve Gray

Sample Number: _____ QA/QC Collected? _____

Purging / Sampling Method: Typhoon Submersible Pump with Dedicated Tubing/Low-Flow

1. L = Total Well Depth: _____ feet
2. D = Riser Diameter (I.D.): _____ feet
3. W = Static Depth to Water (TOC): _____ feet
4. C = Column of Water in Casing: _____ feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ _____ gal
6. D2 = Pump Setting Depth (ft): _____ feet
7. C2 = Column of water in Pump/Tubing (ft): _____ feet
8. Tubing Volume = $C2(0.005737088)$ _____ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI-6820 with 650 MDS

Parameter	Units	Readings							
Time	24 hr	14							
Water Level (0.33)	feet	2:15	2:14:20	14:25	14:30	14:35	14:40	14:45	19
Volume Purged	gal	5.53	6.34	6.85	6.98	7.50	8.35	9.94	
Flow Rate	gal / min	—	.25	.35	.5	.75	1.0	1.0	
Turbidity (+/- 10%)	mL / min	100mL	100mL	100mL	150mL	150mL	150	150	
Dissolved Oxygen (+/- 10%)	NTU	8.13	13.1	11.8	15.3	11.7	5.47	6.14	
Dissolved Oxygen (+/- 10%)	%	71.1	69.5	68.0	71.8	72.3	70.3	73.0	
Dissolved Oxygen (+/- 10%)	mg/L	7.66	7.45	7.26	7.82	7.97	7.73	8.10	
Eh / ORP (+/- 10)	MeV	163.6	109.2	98.1	69.9	61.7	85.7	74.0	
Specific Conductivity	mS/cm ^c	1497	1488	1483	1470	1463	1455	1469	
Conductivity (+/- 3%)	mS/cm	1372	1368	1366	1349	1337	1335	1341	
pH (+/- 0.1)	pH unit	6.25	6.54	6.61	7.10	7.08	6.67	6.92	
Temp (+/- 0.5)	C	11.70	12.20	12.24	12.17	10.81	11.06	10.56	
Color	Visual	Clear	Clear	Clear	Clear	Clear	Clear	Clear	
Odor	Olfactory	None	None	None	None	None	None	None	

Comments: started purge @ 2:13 14:13
purged dry sampled @ 15:12

pg 10F2

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number: Former Ward Products 60216092.2

Monitoring Well Number: MW-4 Date: 5-25-11

Samplers: Mark Howard and Steve Gray

Sample Number: _____ QA/QC Collected? _____

Purging / Sampling Method: Typhoon Submersible Pump with Dedicated Tubing/Low-Flow

1. L = Total Well Depth: _____ feet
2. D = Riser Diameter (I.D.): _____ feet
3. W = Static Depth to Water (TOC): _____ feet
4. C = Column of Water in Casing: _____ feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ _____ gal
6. D2 = Pump Setting Depth (ft): _____ feet
7. C2 = Column of water in Pump/Tubing (ft): _____ feet
8. Tubing Volume = $C2(0.005737088)$ _____ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI-6820 with 650 MDS

Parameter	Units	Readings					
Time	24 hr	14:50	14:55				
Water Level (0.33)	feet	9.65	11.05				
Volume Purged	gal	1.5	DRY				
Flow Rate	mL / min	150 ml					
Turbidity (+/- 10%)	NTU	5.63					
Dissolved Oxygen (+/- 10%)	%	70.5					
Dissolved Oxygen (+/- 10%)	mg/L	7.83					
EH / ORP (+/- 10)	MeV	58.5					
Specific Conductivity	mS/cm ^c	480					
Conductivity (+/- 3%)	mS/cm	348					
pH (+/- 0.1)	pH unit	7.07					
Temp (+/- 0.5)	C	10.60					
Color	Visual	Clear					
Odor	Olfactory	None					

Comments:

purged DRY @ 14.55
11.05 Ft.

* Three consecutive readings within range indicates stabilization of that parameter.

pg 2 of 2

Monitoring Well Purging/Sampling Form

Project Name and Number: Former Ward Products 60216092.2

Monitoring Well Number: MW-4R Date: 5/25/11

Samplers: Mark Howard and Steve Gray

Sample Number: MW-4R QA/QC Collected? None

Purging / Sampling Method: Typhoon Submersible Pump with Dedicated Tubing/Low-Flow

1. L = Total Well Depth: _____ feet
2. D = Riser Diameter (I.D.): 0.17 feet
3. W = Static Depth to Water (TOC): 16.66 feet
4. C = Column of Water in Casing: _____ feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ _____ gal
6. D2 = Pump Setting Depth (ft): _____ feet
7. C2 = Column of water in Pump/Tubing (ft): _____ feet
8. Tubing Volume = $C2(0.005737088)$ _____ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI-6820 with 650 MDS

Parameter	Units	Readings							
Time	24 hr	1415	1420	1425	1430	1435	1440	1445	
Water Level (0.33)	feet	16.66	18.11	18.63	18.84	18.84	18.93	18.64	
Volume Purged	gal	0	2.25	0.50	1.00	21.25	1.75	22.25	
Flow Rate	mL / min	100	100	100	150	150	150	150	
Turbidity (+/- 10%)	NTU	111	154	123	54.2	26.7	12.9	9.84	
Dissolved Oxygen (+/- 10%)	%	42.4	19.2	13.0	10.6	10.1	9.7	10.98	
Dissolved Oxygen (+/- 10%)	mg/L	4.50	2.05	1.40	1.15	1.09	1.05	1.07	
Eh / ORP (+/- 10)	MeV	105.4	-4.7	38.1	14.1	24.3	26.1	32.5	
Specific Conductivity	mS/cm ^c	0.602	0.656	0.647	1.429	1.638	1.804	1.921	
Conductivity (+/- 3%)	mS/cm	0.454	0.485	0.629	1.060	1.225	1.342	1.430	
pH (+/- 0.1)	pH unit	8.16	7.84	7.71	7.51	7.43	7.38	7.36	
Temp (+/- 0.5)	C	12.44	11.29	11.40	11.44	11.73	11.52	11.70	
Color	Visual	Opaque/cloud	Br. Cl	Br. Cl	OS/Cl	Clear	Clear	Clear	
Odor	Olfactory	None	None	None	None	None	None	None	

Comments:

Started Purge @ 1415

Sampled @ 1445

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number: Former Ward Products 60216092.2

Monitoring Well Number: MW-10 Date: 5/26/11

Samplers: Mark Howard and Steve Gray

Sample Number: MW-10 QA/QC Collected? MS/msp

Purging / Sampling Method: Typhoon Submersible Pump with Dedicated Tubing/Low-Flow

1. L = Total Well Depth: _____ feet
2. D = Riser Diameter (I.D.): _____ feet
3. W = Static Depth to Water (TOC): 13.30 feet
4. C = Column of Water in Casing: _____ feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ gal
6. D2 = Pump Setting Depth (ft): _____ feet
7. C2 = Column of water in Pump/Tubing (ft): _____ feet
8. Tubing Volume = $C2(0.005737088)$ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI-556 and Turbidimeter

Parameter	Units	Readings							
Time	24 hr	912	917	922	927	932	937	942	
Water Level (0.33)	feet	13.30	13.60	13.56	13.49	13.60	13.63	13.56	
Volume Purged	gal	0	0.50	20.75	1.00	1.25	1.75	2.00	
Flow Rate	mL / min	150	100	100	100	100	125	100	
Turbidity (+/- 10%)	NTU	48.8	25.1	9.61	22.4	28.8	11.1	12.3	
Dissolved Oxygen (+/- 10%)	%	150.7	77.4	30.0	19.6	17.2	12.7	10.5	
Dissolved Oxygen (+/- 10%)	mg/L	15.38	7.96	3.06	2.02	1.78	1.28	1.07	
Eh / ORP (+/- 10)	McV	456.8	374.6	310.6	271.1	267.4	283.2	289.2	
Specific Conductivity	mS/cm°	0.432	0.691	0.878	0.849	0.909	0.921	0.931	
Conductivity (+/- 3%)	mS/cm	0.336	0.546	0.693	0.707	0.701	0.724	0.743	
pH (+/- 0.1)	pH unit	7.51	7.41	7.39	7.34	7.37	7.31	7.29	
Temp (+/- 0.5)	C	13.40	13.72	13.86	13.85	13.55	13.75	14.38	
Color	Visual	Clear	Clear	Clear	Clear	Clear	Clear	Clear	
Odor	Olfactory	None	None	None	None	None	None	None	

Comments: Started purge @ 912

* Three consecutive readings within range indicates stabilization of that parameter.

pg 1 of 2

Monitoring Well Purging/Sampling Form

Project Name and Number: Former Ward Products 60216092.2

Monitoring Well Number: MW-10 Date: 5/26/11

Samplers: Mark Howard and Steve Gray

Sample Number: MW-10 QA/QC Collected? MS/MSD

Purging / Sampling Method: Typhoon Submersible Pump with Dedicated Tubing/Low-Flow

1. L = Total Well Depth: _____ feet
2. D = Riser Diameter (I.D.): _____ feet
3. W = Static Depth to Water (TOC): 13.30 feet
4. C = Column of Water in Casing: _____ feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ gal
6. D2 = Pump Setting Depth (ft): _____ feet
7. C2 = Column of water in Pump/Tubing (ft): _____ feet
8. Tubing Volume = $C2(0.005737088)$ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI-556 and Turbidimeter

Parameter	Units	Readings							
Time	24 hr	945	952	957	1002	1007	1012	1017	
Water Level (0.33)	feet	13.51	13.53	13.58	13.53	13.56			
Volume Purged	gal	72.00	2.25	2.50	2.75	3.00			
Flow Rate	mL / min	100	100	100	100	100			
Turbidity (+/- 10%)	NTU	34.2	34.7	34.4	36.1	35.4			
Dissolved Oxygen (+/- 10%)	%	9.2	7.8	6.9	6.4	6.2			
Dissolved Oxygen (+/- 10%)	mg/L	0.94	0.79	0.71	0.64	0.63			
Eh / ORP (+/- 10)	MeV	249.5	260.5	243.1	238.7	222.3			
Specific Conductivity	mS/cm ^c	0.940	0.946	0.944	0.949	0.951			
Conductivity (+/- 3%)	mS/cm	0.748	0.759	0.749	0.769	0.760			
pH (+/- 0.1)	pH unit	7.34	7.27	7.30	7.32	7.34			
Temp (+/- 0.5)	C	14.33	14.76	14.20	15.02	14.50			
Color	Visual	Clear	Clear	Clear	Clear	Clear			
Odor	Olfactory	None	None	None	None	None			

Comments:

Sampled @ 1007



* Three consecutive readings within range indicates stabilization of that parameter.

pg 2 of 2

Monitoring Well Purging/Sampling Form

Project Name and Number:

Former Ward Products

60216092.2

Monitoring Well Number:

MW-11

Date:

5/26/11

Samplers:

Mark Howard and Steve Gray

Sample Number:

MW-11

QA/QC Collected?

None

Purging / Sampling Method:

Typhoon Submersible Pump with Dedicated Tubing/Low-Flow

1. L = Total Well Depth:

feet

2. D = Riser Diameter (I.D.):

feet

3. W = Static Depth to Water (TOC):

18.32 feet

4. C = Column of Water in Casing:

feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

gal

6. D2 = Pump Setting Depth (ft):

feet

7. C2 = Column of water in Pump/Tubing (ft):

feet

8. Tubing Volume = $C2(0.005737088)$

gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI-556 and Turbidimeter

Parameter	Units	Readings						
Time	24.hr	75.5	800	805	810	815	820	825
Water Level (0.33)	feet	18.32	21.24	22.41	23.60			
Volume Purged	gal	0	20.50	20.75	21.00			
Flow Rate	mL / min	100	150	200	200			
Turbidity (+/- 10%)	NTU	50.0	58.0	54.3	48.4			
Dissolved Oxygen (+/- 10%)	%	60.2	36.3	44.7	32.9			
Dissolved Oxygen (+/- 10%)	mg/L	6.52	4.01	4.89	3.57			
Eh / ORP (+/- 10)	MeV	123.8	118.0	106.4	115.2			
Specific Conductivity	mS/cm ^c	0.603	0.600	0.603	0.595			
Conductivity (+/- 3%)	mS/cm	0.448	0.437	0.440	0.436			
pH (+/- 0.1)	pH unit	7.31	7.31	7.31	7.33			
Temp (+/- 0.5)	C	11.49	10.84	10.88	11.02			
Color	Visual	5101	5101	5101	5101			
Odor	Olfactory	None	None	None	None			

Comments:

Can't get pump to pump @ Low Rate without shutting off
 Can't stabilize WL - Purged Dry
 Purged Dry @ 814, Purged ~ 225 gallons
 Sampled @ 830

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number: Former Ward Products 60216092.2

Monitoring Well Number: MW-13 Date: 5-26-11

Samplers: Mark Howard and Steve Gray

Sample Number: _____ QA/QC Collected? _____

Purging / Sampling Method: Typhoon Submersible Pump with Dedicated Tubing/Low-Flow

1. L = Total Well Depth: _____ feet
2. D = Riser Diameter (I.D.): _____ feet
3. W = Static Depth to Water (TOC): _____ feet
4. C = Column of Water in Casing: _____ feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ _____ gal
6. D2 = Pump Setting Depth (ft): _____ feet
7. C2 = Column of water in Pump/Tubing (ft): _____ feet
8. Tubing Volume = $C2(0.005737088)$ _____ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI-6820 with 650 MDS

Parameter	Units	Readings							
Time	24 hr	9:45	9:50	9:55	10:00	10:05	10:10	10:15	
Water Level (0.33)	feet	9.94	12.23	12.45	13.31	15.20	14.81	14.83	
Volume Purged	gal	—	.25	.50	.75	1.25	1.5	1.25	
Flow Rate	mL / min	150 ml	150	150	150	150	150	150	
Turbidity (+/- 10%)	NTU	40.6	63.6	35.9	47.3	292	301	272	
Dissolved Oxygen (+/- 10%)	%	68.5	68.3	35.4	13.4	5.4	7.0	7.4	
Dissolved Oxygen (+/- 10%)	mg/L	7.38	6.33	3.74	1.41	.59	.72	.77	
Eh / ORP (+/- 10)	MeV	191.7	195.4	169.3	120.0	124.3	80.6	88.6	
Specific Conductivity	mS/cm ^c	.419	.531	.637	.782	.797	.813	.810	
Conductivity (+/- 3%)	mS/cm	.313	.396	.485	.593	.591	.631	.619	
pH (+/- 0.1)	pH unit	7.09	7.01	7.07	7.23	7.20	7.29	7.29	
Temp (+/- 0.5)	C	12.65	12.04	12.57	12.21	11.36	13.26	13.10	
Color	Visual	Clear	Clear	Cloudy	Floaters	Bubbles	Bubbles	Bubbles	
Odor	Olfactory	None	None	None	None	None	None	None	

Comments: cloudy started @ 9:45
yellowish tint

pg 1 of 2

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number: Former Ward Products 60216092.2

Monitoring Well Number: MW-13 Date: 5-26-11

Samplers: Mark Howard and Steve Gray

Sample Number: _____ QA/QC Collected? _____

Purging / Sampling Method: Typhoon Submersible Pump with Dedicated Tubing/Low-Flow

1. L = Total Well Depth: _____ feet
2. D = Riser Diameter (I.D.): _____ feet
3. W = Static Depth to Water (TOC): _____ feet
4. C = Column of Water in Casing: _____ feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ _____ gal
6. D2 = Pump Setting Depth (ft): _____ feet
7. C2 = Column of water in Pump/Tubing (ft): _____ feet
8. Tubing Volume = $C2(0.005737088)$ _____ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI-6820 with 650 MDS

Parameter	Units	Readings						
Time	24 hr	10:20	10:25	10:30	10:35			
Water Level (0.33)	feet	~~1.75~~ 14.85	14.87	14.85	14.87			
Volume Purged	gal	1.75	2	2.25	2.5			
Flow Rate	mL / min	150	150	150	150			
Turbidity (+/- 10%)	NTU	269	271	272	268			
Dissolved Oxygen (+/- 10%)	%	5.5	4.2	4.0	3.9			
Dissolved Oxygen (+/- 10%)	mg/L	.60	.44	.43	.41			
Eh / ORP (+/- 10)	MeV	78.6	60.2	60.1	60.2			
Specific Conductivity	mS/cm ^c	.810	.802	.804	.805			
Conductivity (+/- 3%)	mS/cm	.611	.609	.611	.615			
pH (+/- 0.1)	pH unit	7.29	7.29	7.28	7.29			
Temp (+/- 0.5)	C	13.01	12.55	12.51	12.52			
Color	Visual	yellowish	yellowish	yellowish	yellowish			
Odor	Olfactory	None	None	None	None			

Comments:

Sampled @ 10:37

* Three consecutive readings within range indicates stabilization of that parameter.

pg 2002

Monitoring Well Purging/Sampling Form

Project Name and Number:

Former Ward Products

60216092.2

Monitoring Well Number:

MW-14

Date:

5/26/11

Samplers:

Mark Howard and Steve Gray

Sample Number:

MW-14

QA/QC Collected?

MS

Purging / Sampling Method:

Typhoon Submersible Pump with Dedicated Tubing/Low-Flow

1. L = Total Well Depth:

_____ feet

2. D = Riser Diameter (I.D.):

_____ feet

3. W = Static Depth to Water (TOC):

6.03 feet

4. C = Column of Water in Casing:

_____ feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

_____ gal

6. D2 = Pump Setting Depth (ft):

_____ feet

7. C2 = Column of water in Pump/Tubing (ft):

_____ feet

8. Tubing Volume = $C2(0.005737088)$

_____ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI-556 and Turbidimeter

Parameter	Units	Readings									
Time	24 hr	1518	1523	1528	1533	1538	1543	1548	1553		
Water Level (0.33)	feet	6.03	8.34	17.40	11.81	11.93	11.61	10.96	10.96		
Volume Purged	gal	0	0.25	1.25	1.50	1.75	2.17	2.00	2.25		
Flow Rate	mL / min	100	100	100	100	100	100	100	100		
Turbidity (+/- 10%)	NTU	17.8	14.7	10.3	9.25	7.05	5.51	5.67	5.23		
Dissolved Oxygen (+/- 10%)	%	100.8	45.1	46.2	42.6	39.9	36.9	34.7	34.3		
Dissolved Oxygen (+/- 10%)	mg/L	9.96	4.26	4.94	4.15	3.91	3.54	3.26	3.26		
Eh / ORP (+/- 10)	MeV	57.7	24.8	8.8	27.3	26.3	35.9	28.9	23.8		
Specific Conductivity	mS/cm ^c	0.776	0.776	0.777	0.777	0.777	0.783	0.781	0.788		
Conductivity (+/- 3%)	mS/cm	0.611	0.654	0.972	0.652	0.648	0.668	0.683	0.677		
pH (+/- 0.1)	pH unit	7.94	7.86	7.94	7.85	7.84	7.84	7.82	7.81		
Temp (+/- 0.5)	C	13.89	16.72	12.53	16.52	16.29	17.26	18.43	17.57		
Color	Visual	17.8	Clear	Clear	Clear	Clear	Clear	Clear	Clear		
Odor	Olfactory	None	None	None	None	None	None	None	None		

Comments:

1518 - Started to purge
 1525 - still drawing down, barely flowing
 increased flow, purged to 1 gallon down to 18'
 sampled @ 1553

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging / Sampling Form

Project Name and Number: Ward Products 60155287 200

Monitoring Well Number: MW-15 Date: 5-26-11

Samplers: ERG M.H.

Sample Number: QA/QC Collected?

Purging / Sampling Method:

1. L = Well Depth:
2. D = Riser Diameter (I.D.):
3. W = Depth to Water:
4. C = Column of Water in Well:
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$
6. 3(V) = Target Purge Volume

	feet	D (inches)	D (feet)
0.17	feet	1-inch	0.08
	feet	2-inch	0.17
	feet	3-inch	0.25
	gal	4-inch	0.33
	gal	6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI-556 and LaMotte 2020

Parameter	Units	Readings							
Time	24 hr	16:05	16:10	16:15	16:20	16:25	16:30	16:35	
Water Level (0.33)	feet	4.20	5.81	6.20	9.85	8.87	8.87	8.77	
Volume Purged	gal	—	—	1.25	1.75	1	71	71	
Flow Rate	mL/min	100	100	100	100	100	100	100	
Turbidity (+/- 10%)	NTU	27.9	26.5	27.9	26.0	35.2	34.0	33.9	
Dissolved Oxygen (+/- 10%)	%	61.4	55.4	34.2	5.1	4.2	4.7	4.7	
Dissolved Oxygen (+/- 10%)	mg/L	6.30	5.51	3.13	1.53	.43	.46	.47	
Eh / ORP (+/- 10)	MeV	201.4	181.4	111.4	7.2	-3.8	-5.7	-6.2	
Specific Conductivity (+/- 3%)	mS/cm ^c	.197	.278	.542	.952	.952	.948	.947	
Conductivity (+/- 3%)	mS/cm	.157	.195	.485	.743	.766	.776	.791	
pH (+/- 0.1)	pH unit	7.85	7.74	7.24	7.23	7.25	7.22	7.23	
Temp (+/- 0.5)	C°	14.24	15.48	16.58	13.36	14.72	15.47	16.39	
Color	Visual	Clear	Clear	Clear	Clear	Cloudy	cloudy	cloudy	
Odor	Olfactory	None	None	None	None	None	None	None	

Comments: started purge @ 16:05 16:20 pump down a couple feet to see if would recover.

Monitoring Well Purging / Sampling Form

Project Name and Number: Ward Products 60155287 200

Monitoring Well Number: MW-15 Date: 5-26-11

Samplers: SRG MH

Sample Number: _____ QA/QC Collected? _____

Purging / Sampling Method: _____

1. L = Well Depth: _____ feet
2. D = Riser Diameter (I.D.): _____ feet
3. W = Depth to Water: _____ feet
4. C = Column of Water in Well: _____ feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ gal
6. 3(V) = Target Purge Volume _____ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI-556 and LaMotte 2020

Parameter	Units	Readings						
Time	24 hr	16:40	16:45	16:50	16:55			
Water Level (0.33)	feet	8.69	8.79	8.79	8.78			
Volume Purged	gal	71	1.25	1.25	7			
Flow Rate	mL/min	100	100	100	100			
Turbidity (+/- 10%)	NTU	338	335	333	334			
Dissolved Oxygen (+/- 10%)	%	4.8	3.7	3.5	3.6			
Dissolved Oxygen (+/- 10%)	mg/L	.46	.36	.35	.36			
Eh / ORP (+/- 10)	MeV	-8.8	-27.0	-27.1	-27.1			
Specific Conductivity (+/- 3%)	mS/cm ^c	.951	.944	.942	.943			
Conductivity (+/- 3%)	mS/cm	.797	.760	.760	.761			
pH (+/- 0.1)	pH unit	7.22	7.21	7.21	7.21			
Temp (+/- 0.5)	C°	16.47	15.94	15.94	15.90			
Color	Visual	Cloudy	Cloudy	Cloudy	Cloudy			
Odor	Olfactory	None	None	None	None			

Comments:

sampled @ 16:55

Monitoring Well Purging/Sampling Form

Project Name and Number: Former Ward Products 60216092.2

Monitoring Well Number: MW-16 Date: 5/26/11

Samplers: Mark Howard and Steve Gray

Sample Number: MW-16 QA/QC Collected? No

Purging / Sampling Method: Typhoon Submersible Pump with Dedicated Tubing/Low-Flow

1. L = Total Well Depth: _____ feet
2. D = Riser Diameter (I.D.): _____ feet
3. W = Static Depth to Water (TOC): 15.70 feet
4. C = Column of Water in Casing: _____ feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ _____ gal
6. D2 = Pump Setting Depth (ft): _____ feet
7. C2 = Column of water in Pump/Tubing (ft): _____ feet
8. Tubing Volume = $C2(0.005737088)$ _____ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI-556 and Turbidimeter

Parameter	Units	Readings						
Time	24 hr	1413	1418	1423	1428	1433	1438	1443
Water Level (0.33)	feet	15.70	18.40	-26	25.60			
Volume Purged	gal	0	20.85	1.00	1.25			
Flow Rate	mL / min	100	100	100	100			
Turbidity (+/- 10%)	NTU	21.0	37.5	14.5	17.6			
Dissolved Oxygen (+/- 10%)	%	61.2	20.5	11.7	9.6			
Dissolved Oxygen (+/- 10%)	mg/L	6.21	2.1	1.29	0.98			
Eh / ORP (+/- 10)	MeV	43.7	-15.5	-28.5	-25.8			
Specific Conductivity	mS/cm ^c	0.389	0.392	0.390	0.392			
Conductivity (+/- 3%)	mS/cm	0.302	0.307	0.288	0.314			
pH (+/- 0.1)	pH unit	7.47	7.50	7.56	7.54			
Temp (+/- 0.5)	C	13.37	13.26	11.37	14.65			
Color	Visual	Clear	Clear	Clear	Clear			
Odor	Olfactory	None	None	None	None			

Comments: 1413 - 4 failed purge 1419 increased flow to draw down
1421 purged to 1 gallon, purged down to -26'
1429 well continues to drop @ very low rate, going to
purge dry, let recharge + sample
1435 purged ~ 3.75 gallons, well purged to end of tubing
not purged dry

* Three consecutive readings within range indicates stabilization of that parameter.

Monitoring Well Purging/Sampling Form

Project Name and Number:

Former Ward Products

60216092.2

Monitoring Well Number:

MW-17

Date:

5/26/11

Samplers:

Mark Howard and Steve Gray

Sample Number:

MW-17

QA/QC Collected?

No

Purging / Sampling Method:

Typhoon Submersible Pump with Dedicated Tubing/Low-Flow

1. L = Total Well Depth:

_____ feet

2. D = Riser Diameter (I.D.):

_____ feet

3. W = Static Depth to Water (TOC):

2.6' feet

4. C = Column of Water in Casing:

_____ feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

_____ gal

6. D2 = Pump Setting Depth (ft):

43.6' feet

7. C2 = Column of water in Pump/Tubing (ft):

_____ feet

8. Tubing Volume = $C2(0.005737088)$

_____ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Well Volume ~ 6.3

3 well volumes ~ 20 gallons

Water Quality Readings Collected Using

YSI-556 and Turbidimeter

Parameter	Units	Readings							
Time	24 hr	1650	1655	1700	1705	1710	1715	1720	~~1525~~
Water Level (0.33)	feet	11.12	11.12	14.66	14.62	14.71	17.75	27.60	
Volume Purged	gal	1.0	1.25	2.25	2.50	2.50	2.60	6.25	
Flow Rate	mL / min	100	100				100	100	
Turbidity (+/- 10%)	NTU	4.89	5.32	3.88	4.01	4.11	3.11	3.14	
Dissolved Oxygen (+/- 10%)	%	72.6	63.8	65.0	64.7	65.7	57.6	50.9	
Dissolved Oxygen (+/- 10%)	mg/L	7.83	6.73	7.07	6.48	7.13	6.36	5.51	
Eh / ORP (+/- 10)	MeV	30.7	28.5	30.7	21.7	21.9	20.7	14.1	
Specific Conductivity	mS/cm ^c	0.558	0.557	0.558	0.558	0.565	0.621	0.741	
Conductivity (+/- 3%)	mS/cm	0.417	0.428	0.415	0.418	0.422	0.458	0.552	
pH (+/- 0.1)	pH unit	7.36	7.34	7.41	7.40	7.41	7.35	7.33	
Temp (+/- 0.5)	C	11.79	12.91	11.66	11.40	11.63	11.78	11.55	
Color	Visual	Clear	Clear	Clear	Clear	Clear	Clear	Clear	
Odor	Olfactory	None	None	None	None	None	None	None	

Comments:

1450 purged down to ~9' right away because couldn't control flow
lowered flow to let recharge

Can't Control flow at All
Let Controller go and do its thing

* Three consecutive readings within range indicates stabilization of that parameter.

turns OFF then on again

1512 purged down to ~28' purged ~ 6 gallons
pg 1 of 2

Monitoring Well Purging/Sampling Form

Project Name and Number: Former Ward Products 60216092.2

Monitoring Well Number: MW-17 Date: 5/26/11

Samplers: Mark Howard and Steve Gray

Sample Number: MW-17 QA/QC Collected? N/D

Purging / Sampling Method: Typhoon Submersible Pump with Dedicated Tubing/Low-Flow

1. L = Total Well Depth: _____ feet
2. D = Riser Diameter (I.D.): _____ feet
3. W = Static Depth to Water (TOC): _____ feet
4. C = Column of Water in Casing: _____ feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ _____ gal
6. D2 = Pump Setting Depth (ft): _____ feet
7. C2 = Column of water in Pump/Tubing (ft): _____ feet
8. Tubing Volume = $C2(0.005737088)$ _____ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI-6820 with 650 MDS

Parameter	Units	Readings					
Time	24 hr	1725	1730	1735			
Water Level (0.33)	feet	27.60	27.58	27.83			
Volume Purged	gal	6.50	26.50	7.00			
Flow Rate	mL / min	100-150	200-150	—			
Turbidity (+/- 10%)	NTU	2.75	2.11	3.10			
Dissolved Oxygen (+/- 10%)	%	30.1	17.7	11.7			
Dissolved Oxygen (+/- 10%)	mg/L	3.20	1.90	1.25			
Eh / ORP (+/- 10)	MeV	4.6	0.0	-5.8			
Specific Conductivity	mS/cm°	0.881	0.420	0.446			
Conductivity (+/- 3%)	mS/cm	0.662	0.691	0.711			
pH (+/- 0.1)	pH unit	7.28	7.29	7.30			
Temp (+/- 0.5)	C	11.98	11.92	11.96			
Color	Visual	Clear	Clear	Clear			
Odor	Olfactory	None	None	None			

Comments:

Sampled @ 1735

* Three consecutive readings within range indicates stabilization of that parameter.

pg 2 of 2

Monitoring Well Purging/Sampling Form

Project Name and Number: Former Ward Products 60216092.2

Monitoring Well Number: MW-18 Date: 5/26/11

Samplers: Mark Howard and Steve Gray

Sample Number: MW-18 QA/QC Collected? No

Purging / Sampling Method: Typhoon Submersible Pump with Dedicated Tubing/Low-Flow

1. L = Total Well Depth: _____ feet
2. D = Riser Diameter (I.D.): 6.17 feet
3. W = Static Depth to Water (TOC): 16.80 feet
4. C = Column of Water in Casing: _____ feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ _____ gal
6. D2 = Pump Setting Depth (ft): _____ feet
7. C2 = Column of water in Pump/Tubing (ft): _____ feet
8. Tubing Volume = $C2(0.005737088)$ _____ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI-556 and Turbidimeter

Parameter	Units	Readings							
Time	24 hr	1110	1115	1120	1125	1130	1135	1140	
Water Level (0.33)	feet	16.80	17.83	17.80	17.80	17.91	19.90	18.80	
Volume Purged	gal	0	0.25	0.50	20.50	0.75	1.50	1.75	
Flow Rate	mL / min	150	150	150	100	100	100	125	
Turbidity (+/- 10%)	NTU	72.8	71.2	76.0	116	140	49.1	27.8	
Dissolved Oxygen (+/- 10%)	%	156.4	94.8	84.4	78.5	81.0	78.9	96.6	
Dissolved Oxygen (+/- 10%)	mg/L	16.55	10.17	8.97	8.29	8.64	8.63	6.86	
Eh / ORP (+/- 10)	McV	106.1	58.9	42.3	35.3	34.9	30.1	29.0	
Specific Conductivity	mS/cm ^c	0.321	0.319	0.319	0.319	0.322	0.329	0.478	
Conductivity (+/- 3%)	mS/cm	0.242	0.240	0.242	0.245	0.245	0.243	0.363	
pH (+/- 0.1)	pH unit	7.51	7.54	7.52	7.51	7.51	7.51	7.43	
Temp (+/- 0.5)	C	12.18	12.07	12.54	12.93	12.37	11.35	12.20	
Color	Visual	CLAY	SICI	SICI	Cloudy	Cloudy	Clear	Clear	
Odor	Olfactory	None	None	None	None	None	None	None	

Comments:

Started Purge @ 1110
 1133 increased flow - purged to 1.5 gallons
 Purged down to 14.90'

* Three consecutive readings within range indicates stabilization of that parameter.

pg 1 of 2

Monitoring Well Purging/Sampling Form

Project Name and Number: Former Ward Products 60216092.2

Monitoring Well Number: MW-18 Date: 5/28/11

Samplers: Mark Howard and Steve Gray

Sample Number: MW-18 QA/QC Collected? No

Purging / Sampling Method: Typhoon Submersible Pump with Dedicated Tubing/Low-Flow

1. L = Total Well Depth: _____ feet
2. D = Riser Diameter (I.D.): 0.17 feet
3. W = Static Depth to Water (TOC): 16.80 feet
4. C = Column of Water in Casing: _____ feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ _____ gal
6. D2 = Pump Setting Depth (ft): _____ feet
7. C2 = Column of water in Pump/Tubing (ft): _____ feet
8. Tubing Volume = $C2(0.005737088)$ _____ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI-556 and Turbidimeter

Parameter	Units	Readings							
Time	24 hr	1145	1150	1155	1200	1205	1210	1215	
Water Level (0.33)	feet	18.62	18.60	18.60	18.50	18.50	18.50	18.50	
Volume Purged	gal	71.75	200	2.25	2.25	2.50	72.50		
Flow Rate	mL / min	150	150	150	100	100	100		
Turbidity (+/- 10%)	NTU	32.3	21.9	22.9	22.4	20.2	19.5		
Dissolved Oxygen (+/- 10%)	%	40.4	20.1	13.6	11.4	10.6	10.5		
Dissolved Oxygen (+/- 10%)	mg/L	4.30	2.17	1.46	1.21	1.12	1.13		
Eh / ORP (+/- 10)	MeV	18.0	4.5	-1.3	-3.3	-3.1	-3.7		
Specific Conductivity	mS/cm ^c	0.673	0.690	0.693	0.691	0.693	0.696		
Conductivity (+/- 3%)	mS/cm	0.507	0.518	0.520	0.525	0.528	0.523		
pH (+/- 0.1)	pH unit	7.39	7.40	7.41	7.41	7.42	7.41		
Temp (+/- 0.5)	C	12.06	11.95	11.90	12.43	12.45	12.01		
Color	Visual	Clear	Clear	Clear	Clear	Clear	Clear		
Odor	Olfactory	None	None	None	None	None	None		

Comments:

Sampled @ 1210

* Three consecutive readings within range indicates stabilization of that parameter.

pg 2 of 2

Monitoring Well Purging / Sampling Form

Project Name and Number: Ward Products 60155287 200

Monitoring Well Number: MW-19 Date: 5-26-11

Samplers: ERG

Sample Number: _____ QA/QC Collected? _____

Purging / Sampling Method: _____

1. L = Well Depth: _____ feet
2. D = Riser Diameter (I.D.): _____ feet
3. W = Depth to Water: _____ feet
4. C = Column of Water in Well: _____ feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ _____ gal
6. 3(V) = Target Purge Volume _____ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI-556 and LaMotte 2020

Parameter	Units	Readings							
Time	24 hr	11:30	11:35	11:40	11:45	11:50	11:55	12:00	
Water Level (0.33)	feet	26.10	29.60	30.58	30.65	31.81	32.3	33.5	
Volume Purged	gal	—	.25	—	.50	—	.75	1	
Flow Rate	mL/min	150	150	150	150	150	150	—	
Turbidity (+/- 10%)	NTU	54.7	30.9	37.7	40.7	25.6	25.6	23.6	
Dissolved Oxygen (+/- 10%)	%	18.8	12.1	7.5	5.4	4.5	4.1	3.7	
Dissolved Oxygen (+/- 10%)	mg/L	1.92	1.23	.78	.57	.48	.43	.38	
Eh / ORP (+/- 10)	MeV	185.9	164.6	163.1	155.5	148.9	131.1	125.8	
Specific Conductivity (+/- 3%)	mS/cm ^c	1.077	1.110	1.107	1.117	1.117	1.114	1.113	
Conductivity (+/- 3%)	mS/cm	.855	.858	.863	.866	.856	.855	.856	
pH (+/- 0.1)	pH unit	7.26	7.23	7.21	7.17	7.17	7.19	7.18	
Temp (+/- 0.5)	C°	13.77	13.13	13.27	13.36	13.01	12.91	12.93	
Color	Visual	Clear	Clear	Clear	Clear	Clear	Clear	Clear	
Odor	Olfactory	None	None	None	None	None	None	None	

Comments:

started purge @ 11:30

Monitoring Well Purging / Sampling Form

Project Name and Number: Ward Products 60155287 200

Monitoring Well Number: MW-19 Date: 5-26-11

Samplers: RG MH

Sample Number: _____ QA/QC Collected? _____

Purging / Sampling Method: _____

1. L = Well Depth: _____	feet				
2. D = Riser Diameter (I.D.): _____	feet				
3. W = Depth to Water: _____	feet				
4. C = Column of Water in Well: _____	feet				
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$	gal				
6. 3(V) = Target Purge Volume	gal				

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI-556 and LaMotte 2020

Parameter	Units	Readings						
Time	24 hr	12:05	12:10	12:15	12:20	12:25	12:30	
Water Level (0.33)	feet	33.95	35.50	36.05	36.79	37.51	38.62	
Volume Purged	gal	1.5	1.5	1.5	1.75	2	2.25	
Flow Rate	mL/min	150	150	150	150	150	150	
Turbidity (+/- 10%)	NTU	15.2	24.4	10.8	11.9	6.46	6.58	
Dissolved Oxygen (+/- 10%)	%	3.8	4.9	4.8	5.1	6.1	6.8	
Dissolved Oxygen (+/- 10%)	mg/L	.39	.53	.50	.53	.63	.71	
Eh / ORP (+/- 10)	MeV	120.2	89.6	68.8	62.5	71.2	72.8	
Specific Conductivity (+/- 3%)	mS/cm ^c	1.111	1.113	1.103	1.105	1.097	1.096	
Conductivity (+/- 3%)	mS/cm	.865	.850	.854	.865	.857	.854	
pH (+/- 0.1)	pH unit	7.17	7.16	7.16	7.17	7.16	7.15	
Temp (+/- 0.5)	C°	13.41	12.59	13.41	13.63	13.60	13.45	
Color	Visual	Clear	Clear	Clear	Clear	Clear	Clear	
Odor	Olfactory	None	None	None	None	None	None	

Comments:

Sampled @ 12:30

Monitoring Well Purging / Sampling Form

Project Name and Number: Ward Products 60155287 200

Monitoring Well Number: MW-20 Date: 5-26-11

Samplers: SG-MH

Sample Number: _____ QA/QC Collected? _____

Purging / Sampling Method: _____

1. L = Well Depth: _____ feet
2. D = Riser Diameter (I.D.): _____ feet
3. W = Depth to Water: _____ feet
4. C = Column of Water in Well: _____ feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ _____ gal
6. 3(V) = Target Purge Volume _____ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI-556 and LaMotte 2020

Parameter	Units	Readings						
Time	24 hr	14:15	14:20	14:25	14:30	14:35	14:40	14:45
Water Level (0.33)	feet	23.90	25.15	25.51	26.10	27.00	27.89	27.90
Volume Purged	gal	.75	1	1.25		1.50	2	2.25
Flow Rate	mL/min	(150 mL)	150 mL	150	150	150	150	150
Turbidity (+/- 10%)	NTU	597	415	452	438	687	763	757
Dissolved Oxygen (+/- 10%)	%	45.6	42.5	42.2	45.3	38.4	37.4	36.8
Dissolved Oxygen (+/- 10%)	mg/L	4.86	4.46	4.43	4.82	4.06	3.95	3.84
Eh / ORP (+/- 10)	MeV	189.5	145.2	132.7	100.4	104.6	95.4	66.7
Specific Conductivity (+/- 3%)	mS/cm ^c	1.012	1.035	1.038	1.042	1.037	1.029	1.028
Conductivity (+/- 3%)	mS/cm	.791	.797	.799	.786	.793	.789	.800
pH (+/- 0.1)	pH unit	7.55	7.58	7.56	7.57	7.55	7.56	7.58
Temp (+/- 0.5)	C°	12.56	12.98	13.02	12.18	12.65	12.79	13.38
Color	Visual	cloudy	cloudy	cloudy	cloudy	cloudy		
Odor	Olfactory	None	None	None	None	None		

Comments: started purge @ 14:15

PS 10F2

Page 1 of 1

Monitoring Well Purging / Sampling Form

Project Name and Number: Ward Products 60155287 200

Monitoring Well Number: MW-20 Date: 5-26-11

Samplers: ERG - MH

Sample Number: _____ QA/QC Collected? _____

Purging / Sampling Method: _____

1. L = Well Depth: _____ feet
2. D = Riser Diameter (I.D.): 0.17 feet
3. W = Depth to Water: _____ feet
4. C = Column of Water in Well: _____ feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ gal
6. 3(V) = Target Purge Volume _____ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI-556 and LaMotte 2020

Parameter	Units	Readings					
Time	24 hr	14:50	14:55	15:00	15:05	15:10	15:15
Water Level (0.33)	feet	27.93	27.89	27.78	27.40	27.43	27.39
Volume Purged	gal	2.50	2.50	2.75	73	3	3.25
Flow Rate	mL/min	100	100	100	100	100	100
Turbidity (+/- 10%)	NTU	828	611	573	611	446	457
Dissolved Oxygen (+/- 10%)	%	35.5	31.8	24.4	23.0	22.0	21.9
Dissolved Oxygen (+/- 10%)	mg/L	3.71	3.35	2.52	2.37	2.27	2.22
Eh / ORP (+/- 10)	McV	50.7	47.4	45.3	35.9	43.5	42.3
Specific Conductivity (+/- 3%)	mS/cm ^c	1.035	1.057	1.053	1.066	1.072	1.074
Conductivity (+/- 3%)	mS/cm	0.800	0.810	.825	.838	.836	.831
pH (+/- 0.1)	pH unit	7.56	7.53	7.51	7.49	7.47	7.46
Temp (+/- 0.5)	C	13.11	12.79	13.64	13.76	13.74	13.12
Color	Visual	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy	Cloudy
Odor	Olfactory	None	None	None	None	None	None

Comments:

sampled @ 15:15
Dup 1 Taken
here

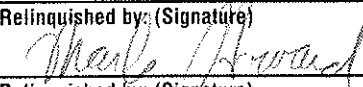
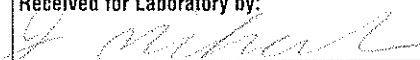
pg 2 of 2



CHAIN OF CUSTODY RECORD

AES Work Order #

A full service analytical research laboratory offering solutions to environmental concerns

Shipment Arrived Via: FedEx UPS <u>Client</u> AES Other: _____		CC Report To / Special Instructions/Remarks: Cat B Data Package EOD Format - Excel PDF Format	
Turnaround Time Request: ☐ 1 Day ☐ 3 Day ☒ Normal ☐ 2 Day ☐ 5 Day			
Relinquished by: (Signature) 		Received by: (Signature) Date/Time 5/25/10 1650	
Relinquished by: (Signature)		Received by: (Signature) Date/Time	
Relinquished by: (Signature)		Received for Laboratory by:  Date/Time 5/25/11 4:00	
TEMPERATURE Ambient or <u>Chilled</u> Notes: _____		PROPERLY PRESERVED ☒ Y ☐ N Notes: _____	
		RECEIVED WITHIN HOLDING TIMES ☒ Y ☐ N Notes: _____	

PINK - Generator Copy

Adirondack Environmental Services, Inc.



314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

CHAIN OF CUSTODY RECORD

AES Work Order #

Experience is the solution

A full service analytical research laboratory offering solutions to environmental concerns

Client Name: AECOM		Address: 2 Technology Park Drive Westford MA 01886	
Send Report To: Jon Atkins		Project Name (Location): Former Wheel Products/Andover Mark Howard Stouffer	
Client Phone No: 978 589 3457		Client Fax No: 978 589 3085	
PO Number:		Samplers: (Names) Mark Howard	
PO Number:		Samplers: (Signature) Mark Howard	

AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=a.m. P=p.m.	Sample Type			Number of Cont's	TCL	VOC	SVOC	Analysis Required	Lab
				Matrix	Comp	Grab						
	MW-11	5/26/11	830	A	P	GW		X	4	X	X	X
	MW-1R	5/26/11	900	A	P	GW		X	4	X	X	X
	MW-10	5/26/11	1107	A	P	GW		X	4	X	X	X
	MW-10 MS	5/26/11	1107	A	P	GW		X	4	X	X	X
	MW-10 MSB	5/26/11	1107	A	P	GW		X	4	X	X	X
	MW-13	5/26/11	1037	A	P	GW		X	4	X	X	X
	MW-18	5/26/11	1200	A	P	GW		X	4	X	X	X
	MW-19	5/26/11	1230	A	P	GW		X	4	X	X	X
	MW-20	5/26/11	1512	A	P	GW		X	4	X	X	X
	MW-14	5/26/11	1550	A	P	GW		X	4	X	X	X
	Dup-1	5/26/11	-	A	P	GW		X	4	X	X	X
	MW-15	5/26/11	1622	A	P	GW		X	4	X	X	X
	MW-16	5/26/11	1711	A	P	GW		X	4	X	X	X
	MW-18	5/26/11	1711	A	P	GW		X	4	X	X	X
	~~MW-18~~	~~5/26/11~~	~~1711~~	~~A~~	~~P~~	~~GW~~		~~X~~	~~4~~	~~X~~	~~X~~	~~X~~

Shipment Arrived Via: FedEx UPS <u>Client</u> AES Other: _____		CC Report To / Special Instructions/Remarks: Cat B Data Package EDD Format - Excel PDF Format	
Turnaround Time Request: ☐ 1 Day ☐ 3 Day ☒ Normal ☐ 2 Day ☐ 5 Day			
Relinquished by: (Signature) Mark Howard		Received by: (Signature) 5/27/11 800	
Relinquished by: (Signature)		Received by: (Signature) 5/27/11 800	
Relinquished by: (Signature)		Received for Laboratory by: 5/27/11 800	
TEMPERATURE Ambient or <u>Chilled</u> Notes: _____		PROPERLY PRESERVED <u>Y</u> N Notes: _____	
		RECEIVED WITHIN HOLDING TIMES <u>Y</u> N Notes: _____	

WHITE - Lab Copy

YELLOW - Sampler Copy

PINK - Generator Copy

Adirondack Environmental Services, Inc.

**Attachment B –
August 2011
Groundwater
Monitoring Field Notes**

WELL ID	Time	Groundwater Measurement (fbmp)
MW-1	1015	2.35
MW-1R	1017	2.95
MW-2	1020	1.60
MW-3	1026	4.29
MW-4	1030	4.71
MW-4R	1032	17.99
MW-5	1013	17.19
MW-6	1038	18.28
MW-7	1042	16.24
MW-8	1045	13.31
MW-9	1050	14.63
MW-10	1053	15.81
MW-11	1010	16.68
MW-12	1100	19.04
MW-13	*0900	11.91
MW-14	1115	8.53
MW-15	1123	6.79
MW-16	1137	18.07
MW-17	1140	5.33
MW-18	1108	8.63
MW-19	1132	29.26
MW-20	1128	22.36
IW-1	NA	NM
IW-2	NA	NM
IW-3	NA	NM
IW-4	NA	NM
RW-1		56.10

Note:

All water levels taken on 8/30/11 .
 *except MW-13 was on 8/31/11 -
 needed a metal detector to find.
 fbmp - feet below measuring point
 Times are approximate

Monitoring Well Purging / Sampling Form

Project Name and Number: Ward Products 60206092-2

Monitoring Well Number: MW-1R Date: 8-30-11

Samplers: SRG-TS

Sample Number: QA/QC Collected?

Purging / Sampling Method: Pump

1. L = Well Depth: 18.12 feet
2. D = Riser Diameter (I.D.): .17 feet
3. W = Depth to Water: 2.93 feet
4. C = Column of Water in Well: 15.19 feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ gal
6. 3(V) = Target Purge Volume gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI-556 and Hanna LaMotte 2020

Parameter	Units	Readings						
Time	24 hr	11:35	11:40	11:45	11:50	11:55	12:00	
Water Level (0.33)	feet	5.67	5.28	5.53	5.49	5.45	5.45	
Volume Purged	gal	—	.10	.25	.35	.50	.65	
Flow Rate	mL/min	100ml	100ml	100ml	100ml	100ml	100ml	
Turbidity (+/- 10%)	NTU	11.4	10.2	17.4	17.7	19.2	17.4	
Dissolved Oxygen (+/- 10%)	%	49.6	30.5	24.2	22.7	21.7	21.4	
Dissolved Oxygen (+/- 10%)	mg/L	4.21	2.88	2.28	2.11	1.98	1.96	
Eh / ORP (+/- 10)	MeV	35.8	32.4	27.7	24.8	23.9	24.5	
Specific Conductivity (+/- 3%)	mS/cm°	.610	.610	.615	.616	.617	.617	
Conductivity (+/- 3%)	mS/cm	.519	.522	.536	.545	.553	.556	
pH (+/- 0.1)	pH unit	7.15	7.13	7.11	7.11	7.12	7.11	
Temp (+/- 0.5)	C°	17.27	17.52	18.32	19.02	19.07	19.06	
Color	Visual	clear	clear	clear	clear	clear	clear	
Odor	Olfactory	No odor	No odor	No odor	No odor	No odor	No odor	

Comments:

started purge @ 11:35

sampled @ 12:02

Monitoring Well Purging / Sampling Form

Project Name and Number:

Ward Products

60206092-2

Monitoring Well Number:

MW-4R

Date:

8/30

Samplers:

TS

Sample Number:

MW-4R-083011

QA/QC Collected?

NO

Purging / Sampling Method:

Low Flo

1. L = Well Depth:

feet

2. D = Riser Diameter (I.D.):

feet

3. W = Depth to Water:

17.99

feet

4. C = Column of Water in Well:

feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

gal

6. 3(V) = Target Purge Volume

gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI-556 and Hanna 98703

Parameter	Units	19.5	19.9	Readings
Time	24 hr	1315	1320	1325
Water Level (0.33)	feet	21.5	21.9	19.9
Volume Purged	gal	2.25	.5	7.25
Flow Rate	mL/min	120	120	130
Turbidity (+/- 10%)	NTU	1.52	1.10	8.76
Dissolved Oxygen (+/- 10%)	%	6.5	11.5	16.4
Dissolved Oxygen (+/- 10%)	mg/L	1.80	1.11	1.75
Eh / ORP (+/- 10)	MeV	112.3	152.6	122.4
Specific Conductivity (+/- 3%)	mS/cm ^c	.667	1.094	1.514
Conductivity (+/- 3%)	mS/cm	.514	.844	1.153
pH (+/- 0.1)	pH unit	6.95	6.07	6.51
Temp (+/- 0.5)	C ^o	12.99	12.46	12.36
Color	Visual	Brown	Brown	Clear
Odor	Olfactory	None	None	None

Comments: Started Purge @ 1315

Monitoring Well Purging / Sampling Form

Project Name and Number: Ward Products 60206092-2

Monitoring Well Number: MW-4R Date: _____

Samplers: _____

Sample Number: _____ QA/QC Collected? _____

Purging / Sampling Method: _____

1. L = Well Depth: _____ feet
2. D = Riser Diameter (I.D.): _____ feet
3. W = Depth to Water: _____ feet
4. C = Column of Water in Well: _____ feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ gal
6. 3(V) = Target Purge Volume _____ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI-556 and LaMotte 2020

Parameter	Units	Readings				
Time	24 hr	13:50	13:55	14:00	14:05	14:10
Water Level (0.33)	feet	14.79	20.03	20.01	19.95	19.46
Volume Purged	gal	<2	225	225	72.5	7300
Flow Rate	mL/min	130	130	130	100	100
Turbidity (+/- 10%)	NTU	1.20	1.78	1.43	1.03	.80
Dissolved Oxygen (+/- 10%)	%	31.6	37.1	28.5	27.2	26.0
Dissolved Oxygen (+/- 10%)	mg/L	3.35	3.51	3.04	2.88	2.73
Eh / ORP (+/- 10)	MeV	87.6	85.3	82.6	81.1	80.0
Specific Conductivity (+/- 3%)	mS/cm ^c	1.639	1.615	1.611	1.610	1.616
Conductivity (+/- 3%)	mS/cm	1.245	1.222	1.218	1.228	1.246
pH (+/- 0.1)	pH unit	6.96	6.98	7.01	7.01	7.03
Temp (+/- 0.5)	C°	12.40	12.26	12.25	12.58	13.02
Color	Visual	Clear	u	u	u	u
Odor	Olfactory	None	u	u	u	u

Comments: Sampled @ 14:15

Monitoring Well Purging / Sampling Form

Project Name and Number:

Ward Products

60206092-2

Monitoring Well Number:

MW-4
TS

Date:

8/30/11

Samplers:

Sample Number:

MW-4-083011

QA/QC Collected?

None

Purging / Sampling Method:

Low flow

1. L = Well Depth:

2. D = Riser Diameter (I.D.):

3. W = Depth to Water:

4. C = Column of Water in Well:

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

6. 3(V) = Target Purge Volume

feet
feet
4.71 feet
feet
gal
gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI-556 and Hanna 98703

Parameter	Units	Readings							
Time	24 hr	1150	1155	1200	1205	1210	1215	1220	
Water Level (0.33)	feet	5.69	5.80	5.96	6.39	6.55	6.64	6.80	
Volume Purged	gal	0	2.25	2.50	.50	2.75	.75	< 1	
Flow Rate	mL/min	2100	100	100	100	100	100	100	
Turbidity (+/- 10%)	NTU	57.9	79.1	107	70.8	47.8	26.2	18.9	
Dissolved Oxygen (+/- 10%)	%	49	45.2	43.9	47.6	49.3	50.2	51.2	
Dissolved Oxygen (+/- 10%)	mg/L	4.88	4.46	4.29	4.61	4.63	4.86	4.90	
Eh / ORP (+/- 10)	MeV	7.6	-4.6	7.8	8.4	17.0	26.1	37.5	
Specific Conductivity (+/- 3%)	mS/cm°	.504	.504	.499	.450	.429	.413	.394	
Conductivity (+/- 3%)	mS/cm	.409	.420	.417	.378	.363	.348	.332	
pH (+/- 0.1)	pH unit	7.01	7.07	7.08	7.03	7.02	7.00	6.98	
Temp (+/- 0.5)	C°	15.15	16.28	16.45	16.79	16.90	16.88	16.77	
Color	Visual	cloudy	"	slightly cloudy	None	"	"	"	
Odor	Olfactory	None	"	"	"	"	"	"	

Comments: Started @ 1150
Flow through in Sun Blocked @ 1220

Monitoring Well Purging / Sampling Form

Project Name and Number: Ward Products 60206092-2

Monitoring Well Number: _____ Date: _____

Samplers: _____

Sample Number: _____ QA/QC Collected? _____

Purging / Sampling Method: _____

1. L = Well Depth: _____ feet

2. D = Riser Diameter (I.D.): _____ feet

3. W = Depth to Water: _____ feet

4. C = Column of Water in Well: _____ feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ _____ gal

6. 3(V) = Target Purge Volume _____ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI-556 and LaMotte 2020

Parameter	Units	Readings					
Time	24 hr	1225	1230	1235			
Water Level (0.33)	feet	7.00	7.16	7.27			
Volume Purged	gal	1	<1.25	1.25			
Flow Rate	mL/min	100	100	100			
Turbidity (+/- 10%)	NTU	15.6	9.91	7.77			
Dissolved Oxygen (+/- 10%)	%	52.5	51.3	51.0			
Dissolved Oxygen (+/- 10%)	mg/L	5.09	5.03	4.96			
Eh / ORP (+/- 10)	MeV	40	43.9	46.8			
Specific Conductivity (+/- 3%)	mS/cm ^c	.385	.384	.380			
Conductivity (+/- 3%)	mS/cm	.323	.320	.323			
pH (+/- 0.1)	pH unit	7.06	6.98	7.00			
Temp (+/- 0.5)	C°	16.53	16.27	16.47			
Color	Visual	None	Clear	Clear			
Odor	Olfactory	None	None	None			

Comments:

Sampled @ 12:40

Monitoring Well Purging / Sampling Form

Project Name and Number: Ward Products 60206092-2

Monitoring Well Number: MW-10 Date: 8-30-11

Samplers: SR6-TS

Sample Number: QA/QC Collected?

Purging / Sampling Method: pump

1. L = Well Depth: feet
2. D = Riser Diameter (I.D.): feet
3. W = Depth to Water: feet
4. C = Column of Water in Well: feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ gal
6. 3(V) = Target Purge Volume gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI-556 and Hanna 2020

Parameter	Units	Readings											
Time	24 hr	13:05	13:10	13:15	13:20	13:25	13:30	13:35	13:40	13:45			
Water Level (0.33)	feet	16.09	16.07	16.05	16.05	16.05	16.04	16.04	16.04	16.04			
Volume Purged	gal		.50	.75	.85	1.00	1.15	1.25	1.40	1.50			
Flow Rate	mL/min	100mL*	100mL*	100mL*	100mL*	100mL*	100mL*	100mL*	100mL*	100mL*			
Turbidity (+/- 10%)	NTU	41.8	32.4	23.3	20.9	16.0	14.0	17.4	12.5	13.7			
Dissolved Oxygen (+/- 10%)	%	28.5	21.1	14.9	14.0	12.8	11.8	10.7	10.1	9.7			
Dissolved Oxygen (+/- 10%)	mg/L	2.81	2.09	1.47	1.38	1.26	1.13	1.05	1.00	.95			
Eh / ORP (+/- 10)	MeV	34.2	34.4	33.4	32.8	32.3	31.6	31.5	31.5	31.3			
Specific Conductivity (+/- 3%)	mS/cm°	.812	.836	.861	.870	.878	.886	.893	.897	.900			
Conductivity (+/- 3%)	mS/cm	.664	.687	.710	.717	.725	.731	.736	.740	.741			
pH (+/- 0.1)	pH unit	7.27	7.23	7.20	7.19	7.18	7.18	7.17	7.17	7.16			
Temp (+/- 0.5)	C°	15.47	15.69	15.81	15.82	15.87	15.84	15.81	15.82	15.83			
Color	Visual	Brownish	Clearing	Clear	Clear	Clear	Clear	Clear	Clear	Clear			
Odor	Olfactory	No odor	No odor	No odor	No odor	No odor	No odor	No odor	No odor	No odor			

Comments:

started purge @ 13:05
sampled @ 13:45

Monitoring Well Purging / Sampling Form

Project Name and Number:

Ward Products

60206092-2

Monitoring Well Number:

MW-11
GLW

Date:

8/31/11

Samplers:

Sample Number:

QA/QC Collected?

NO

Purging / Sampling Method:

Whale pump w/ low flow controller, pvc

1. L = Well Depth:

2. D = Riser Diameter (I.D.):

3. W = Depth to Water:

4. C = Column of Water in Well:

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

6. 3(V) = Target Purge Volume

0.17 feet
16.40 feet
feet
gal
gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Valve &
marine
Battery

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI-556 and LaMotte 2020

Hanna

Parameter	Units	Readings
Time	24 hr	1815 1820 1825 1830 1845 1850 1855
Water Level (0.33)	feet	19.60 20.35 21.60 22.35 24.45 25.72 27.10
Volume Purged	gal	<0.5 0.55 1.0 1.20 1.50 1.85 2.15
Flow Rate	mL/min	
Turbidity (+/- 10%)	NTU	174 77.7 74.9 88.6 63.6 64.9 54.3
Dissolved Oxygen (+/- 10%)	%	47.3 32.4 22.1 34.7 22.9 22.8 22.7
Dissolved Oxygen (+/- 10%)	mg/L	5.09 3.46 2.45 3.71 2.47 2.47 2.39
Eh / ORP (+/- 10)	MeV	76.2 120.5 100.2 81.7 78.6 75.5 72.7
Specific Conductivity (+/- 3%)	mS/cm ^c	0.595 0.598 0.599 0.592 0.591 0.591 0.590
Conductivity (+/- 3%)	mS/cm	0.445 0.449 0.450 0.447 0.442 0.443 0.445
pH (+/- 0.1)	pH unit	7.20 6.33 6.59 7.03 7.08 7.10 7.13
Temp (+/- 0.5)	C	11.78 11.98 12.00 12.16 11.74 11.83 12.09
Color	Visual	sl. cloudy
Odor	Olfactory	NA NA " " " " NA

Comments:

Begin purge @ 1812
pump stopped working @ 1826-

Begin pumping again @ 1832, stopped again 4 min later

1857 - Collect MW-11 " " @ 1841

Page 1 of 1

Pumped well dry while sampling, after collecting
2 vocs & 1/2 metals jar - allow time
for recharge then finish sampling
at least 40 where the tubing allows the pump to set

Monitoring Well Purging / Sampling Form

Project Name and Number:

Ward Products

60206092-2

Monitoring Well Number:

MW-13

Date:

8/31/11

Samplers:

GLW

Sample Number:

QA/QC Collected?

ms/msd

Purging / Sampling Method:

whale pump w/ low flow controller & PVC valve & marine Battery

1. L = Well Depth:

2. D = Riser Diameter (I.D.):

3. W = Depth to Water:

4. C = Column of Water in Well:

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

6. 3(V) = Target Purge Volume

0.17 feet
11.91 feet
feet
feet
gal
gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI-556 and Hanna

Parameter

Units

Readings

Time	24 hr	0920	0925	0930	0935	0940	0945	0950	0955	1000
Water Level (0.33)	feet	16.10	16.65	17.04	17.25	17.61	18.25	18.78	18.97	19.19
Volume Purged	gal	0.5	0.75	1.0	1.25	1.5	1.75	2.25	2.5	2.80
Flow Rate	mL/min									
Turbidity (+/- 10%)	NTU	316	292	261	256	262	199	95.2	70.9	56.8
Dissolved Oxygen (+/- 10%)	%	45.2	41.6	40.7	34.2	31.5	19.5	4.4	13.5	11.7
Dissolved Oxygen (+/- 10%)	mg/L	4.83	4.44	4.29	3.62	3.39	2.10	1.55	1.35	1.24
Eh / ORP (+/- 10)	MeV	133.2	89.3	84.9	76.9	74.2	69.2	66.4	66.1	63.4
Specific Conductivity (+/- 3%)	mS/cm ^c	0.472	0.499	0.493	0.485	0.479	0.482	0.477	0.476	0.478
Conductivity (+/- 3%)	mS/cm	0.356	0.379	0.376	0.371	0.362	0.362	0.358	0.359	0.360
pH (+/- 0.1)	pH unit	6.34	6.72	6.89	6.95	6.99	7.00	6.96	6.95	6.98
Temp (+/- 0.5)	C°	12.10	12.46	12.57	12.75	12.21	11.99	11.99	12.09	12.12
Color	Visual	SL. CL.	SL. CL.	"	SL. CL.	SL.	"	"	V. SL. CL.	"
Odor	Olfactory	NA	NA	"	NA	NA	"	"	NA	"

Comments:

Begin purge @ 0915
unable to purge slower
& to get proper
steady flow due
to type of pump

Note that the YSI
was in the sun

• 1007-Collect Sample
MW-13 & ms/msd
volume

Page 1 of 1

tubing unhooked from tubing
down by pump during
sampling - rehooked it &
collected all voas as
the plastics had been filled

Monitoring Well Purging / Sampling Form

Project Name and Number:

Ward Products

60206092-2

Monitoring Well Number:

MW 14

Date:

8/31/11

Samplers:

TS + GW

Sample Number:

MW-14

QA/QC Collected?

No

Purging / Sampling Method:

Low Flow

1. L = Well Depth:

2. D = Riser Diameter (I.D.):

3. W = Depth to Water:

4. C = Column of Water in Well:

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

6. 3(V) = Target Purge Volume

feet
feet
8.69 feet
feet
gal
gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI-556 and Hanna 98703

Parameter	Units	Readings
Time	24 hr	920 925 930 935 940 945 950
Water Level (0.33)	feet	8.69 12.06 12.39 12.57 12.75 12.74 12.60
Volume Purged	gal	<.25 .5 <.75 >.75 1 <1.25 >1.25
Flow Rate	mL/min	100 110 110 100 100 100 100
Turbidity (+/- 10%)	NTU	24.4 21.9 21.2 13.0 12.7 11.0 9.89
Dissolved Oxygen (+/- 10%)	%	15.8 10.5 8.4 6.6 5.8 3.8 2.9
Dissolved Oxygen (+/- 10%)	mg/L	1.67 1.10 .87 .67 .59 .39 .30
Eh / ORP (+/- 10)	MeV	-60.3 -62.3 -63.1 -59.6 -58.8 -61.1 -64.6
Specific Conductivity (+/- 3%)	mS/cm°	.777 .773 .773 .770 .770 .770 .771
Conductivity (+/- 3%)	mS/cm	.544 .603 .606 .609 .606 .607 .608
pH (+/- 0.1)	pH unit	7.54 7.42 7.38 7.33 7.32 7.30 7.30
Temp (+/- 0.5)	C°	12.44 13.42 13.64 14.06 13.85 13.40 13.91
Color	Visual	Clear " " " " " "
Odor	Olfactory	No " " " " "

Comments: Started purge @ 920
Flow thru Cell in SW

Monitoring Well Purging / Sampling Form

Project Name and Number:

Ward Products

60206092-2

Monitoring Well Number:

MW-14

Date:

8/31/11

Samplers:

TS GW

Sample Number:

MW-14

QA/QC Collected?

NO

Purging / Sampling Method:

Low Flow

1. L = Well Depth:

2. D = Riser Diameter (I.D.):

3. W = Depth to Water:

4. C = Column of Water in Well:

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

6. 3(V) = Target Purge Volume

feet
feet
feet
feet
gal
gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI-556 and

Hanna 98703
Camotte 2020

Parameter

Units

Readings

Time	24 hr	45.8	1000	1005	1010	1015		
Water Level (0.33)	feet	12.59	12.49	12.29	12.14	12.00		
Volume Purged	gal	1.5	1.75	2.175	2.6	3.2		
Flow Rate	mL/min	100	100	100	100	100		
Turbidity (+/- 10%)	NTU	7.52	9.40	6.91	10.2	5.26		
Dissolved Oxygen (+/- 10%)	%	2.5	2.3	2.0	2.0	1.9		
Dissolved Oxygen (+/- 10%)	mg/L	.26	.23	.21	.20	.19		
Eh / ORP (+/- 10)	MeV	-63.9	-64.7	-66.2	-66.4	-69.7		
Specific Conductivity (+/- 3%)	mS/cm ^c	.767	.765	.767	.768	.769		
Conductivity (+/- 3%)	mS/cm	.605	.607	.613	.617	.618		
pH (+/- 0.1)	pH unit	7.29	7.29	7.28	7.30	7.30		
Temp (+/- 0.5)	C°	13.91	14.20	14.45	14.70	14.67		
Color	Visual	Clear	"	"	"	"		
Odor	Olfactory	None	"	"	"	"		

Comments:

Sampled @ 1020

Monitoring Well Purging / Sampling Form

Project Name and Number:

Ward Products

60206092-2

Monitoring Well Number:

MW-15

Date:

8/31

Samplers:

TS GW

Sample Number:

MW-15

QA/QC Collected?

No

Purging / Sampling Method:

Low Flow

1. L = Well Depth:

2. D = Riser Diameter (I.D.):

3. W = Depth to Water:

4. C = Column of Water in Well:

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

6. 3(V) = Target Purge Volume

feet
feet
9.02 feet
feet
gal
gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

Hanna 98703
YSI-556 and LaMotte 2020

Parameter	Units	1420	1425	1430	1435	1440	1445	1450
Time	24 hr	220	1425	1430	1435	1440	1445	1450
Water Level (0.33)	feet	9.02	9.05	9.03	9.10	9.30	9.35	9.39
Volume Purged	gal	0	2.25	.25	2.5	.5	2.75	.25
Flow Rate	mL/min	100	100	100	100	100	100	100
Turbidity (+/- 10%)	NTU	293	245	190	142	80.8	63.0	63.6
Dissolved Oxygen (+/- 10%)	%	15.9	11.8	8.3	5.6	4.4	3.7	3.5
Dissolved Oxygen (+/- 10%)	mg/L	1.50	1.12	.75	.51	.40	.34	.32
Eh / ORP (+/- 10)	MeV	-55.3	-57.4	-52.9	-55.1	-54.3	-53.2	-52.6
Specific Conductivity (+/- 3%)	mS/cm ^c	.861	.902	.934	.938	.957	.952	.950
Conductivity (+/- 3%)	mS/cm	.717	.778	.844	.864	.849	.842	.845
pH (+/- 0.1)	pH unit	7.27	7.23	7.20	7.18	7.16	7.15	7.15
Temp (+/- 0.5)	C ^o	16.20	17.88	19.95	19.83	19.10	19.36	19.22
Color	Visual	Cloudy	"	Sl. Cloudy	"	"	Clear	"
Odor	Olfactory	None	"	None	"	"	None	"

Comments:

Started Purge @ 1420
Flow thru cell in Sun

Monitoring Well Purging / Sampling Form

Project Name and Number: Ward Products 60206092-2

Monitoring Well Number: MW-15 Date: _____

Samplers: _____

Sample Number: _____ QA/QC Collected? _____

Purging / Sampling Method: _____

1. L = Well Depth: _____ feet
 2. D = Riser Diameter (I.D.): _____ feet
 3. W = Depth to Water: _____ feet
 4. C = Column of Water in Well: _____ feet
 5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ gal
 6. 3(V) = Target Purge Volume _____ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI-556 and LaMotte 2020

Parameter	Units	Readings						
Time	24 hr	1455	1500	1505	1510	1515		
Water Level (0.33)	feet	9.45	9.72	9.92	9.90	9.90		
Volume Purged	gal	<1	<1.25	1.25	<1.5	1.5		
Flow Rate	mL/min	100	100	100	100	100		
Turbidity (+/- 10%)	NTU	64.2	82.7	102	79.1	70.6		
Dissolved Oxygen (+/- 10%)	%	3.2	3.2	2.8	2.7	2.8		
Dissolved Oxygen (+/- 10%)	mg/L	.30	.30	.26	.26	.27		
Eh / ORP (+/- 10)	MeV	-50.9	-47.3	-45.3	-44.5	-42.1		
Specific Conductivity (+/- 3%)	mS/cm°	946	933	928	932	920		
Conductivity (+/- 3%)	mS/cm	.840	.800	.801	.799	.783		
pH (+/- 0.1)	pH unit	7.15	7.13	7.73	7.12	7.11		
Temp (+/- 0.5)	C°	19.15	17.51	17.84	17.50	17.16		
Color	Visual	Clear	11	11	11	11		
Odor	Olfactory	No odor	11	11	11	11		

Comments: Sampled @ 1520

Monitoring Well Purging / Sampling Form

Project Name and Number:

Ward Products

60206092-2

Monitoring Well Number:

MW-16

Date:

8/31/11

Samplers:

GLW

Sample Number:

QA/QC Collected?

NO

Purging / Sampling Method:

Whale pump w/ low Flow Sampling

1. L = Well Depth:

2. D = Riser Diameter (I.D.):

3. W = Depth to Water:

4. C = Column of Water in Well:

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

6. 3(V) = Target Purge Volume

0.17 feet
17.14 feet
feet
gal
gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Controller
& pvc
valve &
main
Battery

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI-556 and LaMotte 2020

Parameter	Units	Readings					
Time	24 hr	1130	1135	1140	1145	1150	1155
Water Level (0.33)	feet	20.87	22.19	24.10	25.35	26.81	27.24
Volume Purged	gal	20.5	0.70	1.0	1.15	1.25	1.30
Flow Rate	mL/min						
Turbidity (+/- 10%)	NTU	8.95	6.97	7.25	8.75	8.40	8.44
Dissolved Oxygen (+/- 10%)	%	16.1	10.4	11.4	13.6	13.2	12.8
Dissolved Oxygen (+/- 10%)	mg/L	1.70	1.15	1.24	1.51	1.44	1.42
Eh / ORP (+/- 10)	MeV	-0.6	-17.2	-28.3	-38.6	-43.4	-48.3
Specific Conductivity (+/- 3%)	mS/cm ^c	0.680	0.689	0.688	0.684	0.677	0.6
Conductivity (+/- 3%)	mS/cm	0.494	0.504	0.502	0.504	0.497	0.502
pH (+/- 0.1)	pH unit	7.21	7.19	7.18	7.19	7.17	7.19
Temp (+/- 0.5)	C ^o	10.71	10.93	10.85	11.41	11.16	11.77
Color	Visual	clear	"	"	"	"	"
Odor	Olfactory	NA	"	"	"	"	"

Comments:

Begin purge @ 1125
unable to purge slower
or control flow any
better due to type of
pump

1157-Collect MW-16

Monitoring Well Purging / Sampling Form

Project Name and Number: Ward Products 60206092-2

Monitoring Well Number: MW-17 Date: 8/31/11

Samplers: GLW

Sample Number: _____ QA/QC Collected? No

Purging / Sampling Method: _____

1. L = Well Depth:
2. D = Riser Diameter (I.D.):
3. W = Depth to Water:
4. C = Column of Water in Well:
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$
6. 3(V) = Target Purge Volume

_____ feet
0.17 feet
4.32 feet
 _____ feet
 _____ gal
 _____ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	<u>0.17</u>
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	<u>0.163</u>	0.37	0.65	1.5

Water Quality Readings Collected Using Hanna YSI-556 and LaMotte 2020

Parameter	Units	Readings			
Time	24 hr	<u>1045</u>	<u>1650</u>	<u>1655</u>	<u>1700</u>
Water Level (0.33)	feet	<u>7.17</u>	<u>8.52</u>	<u>9.96</u>	<u>11.18</u>
Volume Purged	gal	<u>2.05</u>	<u>0.65</u>	<u>0.90</u>	<u>1.20</u>
Flow Rate	mL/min				
Turbidity (+/- 10%)	NTU	<u>63.1</u>	<u>42.5</u>	<u>16.4</u>	<u>13.1</u>
Dissolved Oxygen (+/- 10%)	%	<u>45.8</u>	<u>41.0</u>	<u>41.5</u>	<u>41.0</u>
Dissolved Oxygen (+/- 10%)	mg/L	<u>4.81</u>	<u>4.29</u>	<u>4.34</u>	<u>4.34</u>
Eh / ORP (+/- 10)	MeV	<u>294.9</u>	<u>84.8</u>	<u>80.8</u>	<u>79.5</u>
Specific Conductivity (+/- 3%)	mS/cm ^c	<u>0.586</u>	<u>0.582</u>	<u>0.575</u>	<u>0.575</u>
Conductivity (+/- 3%)	mS/cm	<u>0.449</u>	<u>0.450</u>	<u>0.445</u>	<u>0.444</u>
pH (+/- 0.1)	pH unit	<u>6.71</u>	<u>6.84</u>	<u>6.88</u>	<u>6.89</u>
Temp (+/- 0.5)	C°	<u>12.81</u>	<u>13.13</u>	<u>13.12</u>	<u>12.96</u>
Color	Visual	<u>25.0</u>	<u>clear</u>	<u>"</u>	<u>"</u>
Odor	Olfactory	<u>NA</u>	<u>NA</u>	<u>"</u>	<u>"</u>

Comments: Begin purge @ 1640
1702 - Collect MW-17

Monitoring Well Purging / Sampling Form

Project Name and Number:

Ward Products

60206092-2

Monitoring Well Number:

MW-18

Date:

8/31

Samplers:

TS & W

Sample Number:

MW-18

QA/QC Collected?

No

Purging / Sampling Method:

Low Flow

1. L = Well Depth:

2. D = Riser Diameter (I.D.):

3. W = Depth to Water:

4. C = Column of Water in Well:

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

6. 3(V) = Target Purge Volume

feet
feet
20.7 feet
feet
gal
gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI-556 and Hanna 98703

Parameter

Units

Readings

Time	24 hr	1705	1710	1715	1720	1725	1730	1735
Water Level (0.33)	feet	20.7	20.77	20.85	20.93	20.90	20.85	21.10
Volume Purged	gal	0	2.25	.25	2.5	7.5	11.5	21
Flow Rate	mL/min	100	100	100	100	100	100	100
Turbidity (+/- 10%)	NTU	55.7	34.4	55.4	71.8	84.8	76.1	62.6
Dissolved Oxygen (+/- 10%)	%	60.5	65	52.1	42.7	38.6	35.0	34.5
Dissolved Oxygen (+/- 10%)	mg/L	7.05	6.94	5.60	4.57	4.10	3.70	3.69
Eh / ORP (+/- 10)	MeV	41.6	45.1	45.7	42.5	42.4	41.7	41.3
Specific Conductivity (+/- 3%)	mS/cm ^c	1372	1374	1386	1418	1425	1435	1454
Conductivity (+/- 3%)	mS/cm	1284	1281	1290	1316	1324	1334	1343
pH (+/- 0.1)	pH unit	7.20	7.13	7.09	7.08	7.08	7.04	7.04
Temp (+/- 0.5)	C°	12.44	11.90	12.01	12.16	12.49	12.80	12.18
Color	Visual	slightly	11	11	11	11	11	11
Odor	Olfactory	None	11	11	11	11	11	11

Comments:

Monitoring Well Purging / Sampling Form

Project Name and Number: Ward Products 60206092-2

Monitoring Well Number: MW-18 Date: _____

Samplers: _____

Sample Number: MW-18 QA/QC Collected? _____

Purging / Sampling Method: _____

1. L = Well Depth:	_____	feet			
2. D = Riser Diameter (I.D.):	_____	feet			
3. W = Depth to Water:	_____	feet			
4. C = Column of Water in Well:	_____	feet			
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$	_____	gal			
6. 3(V) = Target Purge Volume	_____	gal			

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI-556 and LaMotte 2020

Parameter	Units	Readings						
Time	24 hr	1140	1145	1150	1155			
Water Level (0.33)	feet	21.23	21.25	21.2	21.18			
Volume Purged	gal	21.25	1.25	21.5	71.5			
Flow Rate	mL/min	100	100	100	100			
Turbidity (+/- 10%)	NTU	43.8	21.8	18.3	13.8			
Dissolved Oxygen (+/- 10%)	%	32.2	30.5	28.2	25.1			
Dissolved Oxygen (+/- 10%)	mg/L	3.43	3.26	2.99	2.66			
Eh / ORP (+/- 10)	MeV	40.3	39.3	38.4	37.2			
Specific Conductivity (+/- 3%)	mS/cm°	.456	.457	.469	.481			
Conductivity (+/- 3%)	mS/cm	.346	.347	.359	.364			
pH (+/- 0.1)	pH unit	7.08	7.09	7.10	7.11			
Temp (+/- 0.5)	C°	12.31	12.35	12.70	12.76			
Color	Visual	Clear	"	"	"			
Odor	Olfactory	None	"	"	"			

Comments: Sampled @ 1800

Monitoring Well Purging / Sampling Form

Project Name and Number: Ward Products 60206092-2

Monitoring Well Number: MW-19 Date: 8/31

Samplers: TS GW

Sample Number: MW-19 QA/QC Collected? NO

Purging / Sampling Method: Low Flow

1. L = Well Depth:
2. D = Riser Diameter (I.D.):
3. W = Depth to Water:
4. C = Column of Water in Well:
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$
6. 3(V) = Target Purge Volume

_____ feet
 _____ feet
 23.52 feet
 _____ feet
 _____ gal
 _____ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI-556 and Hanna 98703

Parameter	Units	Readings							
Time	24 hr	1130	1135	1140	1145	1150	1155	1200	
Water Level (0.33)	feet	31.03	31.46	32.35	33.29	33.84	35.01	35.53	
Volume Purged	gal	0	2.25	.25	.5	.75	< 1	1	
Flow Rate	mL/min	100	90	100	100	100	110	90	
Turbidity (+/- 10%)	NTU	10.8	7.57	11.5	6.80	4.64	8.90	6.33	
Dissolved Oxygen (+/- 10%)	%	21.2	25.5	23.9	23.0	20.5	30.4	21.8	
Dissolved Oxygen (+/- 10%)	mg/L	3.29	2.61	2.49	2.39	2.13	3.07	2.24	
Eh / ORP (+/- 10)	MeV	20.0	33.5	30.1	30.1	27.1	28.2	27.6	
Specific Conductivity (+/- 3%)	mS/cm°	1.121	1.120	1.131	1.119	1.132	1.122	1.124	
Conductivity (+/- 3%)	mS/cm	.874	.882	.879	0.871	0.882	.887	0.882	
pH (+/- 0.1)	pH unit	7.30	7.12	7.04	7.00	7.01	6.99	6.99	
Temp (+/- 0.5)	C°	13.20	13.90	13.35	13.40	13.34	13.84	13.72	
Color	Visual	Clear	"	"	"	"	"	"	
Odor	Olfactory	None	"	"	"	"	"	"	

Comments: Flow tra in Sun
 Started Purge @ 1130

Monitoring Well Purging / Sampling Form

Project Name and Number:

Ward Products

60206092-2

Monitoring Well Number:

MW-1A

Date:

8/31

Samplers:

TS GW

Sample Number:

MW-1A

QA/QC Collected?

~~1220~~ Duplicate

Purging / Sampling Method:

Low flow

1. L = Well Depth:

_____ feet

2. D = Riser Diameter (I.D.):

_____ feet

3. W = Depth to Water:

_____ feet

4. C = Column of Water in Well:

_____ feet

5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$

_____ gal

6. 3(V) = Target Purge Volume

_____ gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using

YSI-556 and LaMotte 2020

Parameter	Units	Readings					
Time	24 hr	12:05	12:10	12:15			
Water Level (0.33)	feet	36.85	38.35	39.55			
Volume Purged	gal	21.5	1.75	2			
Flow Rate	mL/min	110	110	110			
Turbidity (+/- 10%)	NTU	10.0	8.35	6.66			
Dissolved Oxygen (+/- 10%)	%	21.3	19.7	19.5			
Dissolved Oxygen (+/- 10%)	mg/L	2.23	2.05	2.05			
Eh / ORP (+/- 10)	MeV	28.1	25.5	25.3			
Specific Conductivity (+/- 3%)	mS/cm ^e	1.124	1.122	1.122			
Conductivity (+/- 3%)	mS/cm	.865	.870	.873			
pH (+/- 0.1)	pH unit	6.98	6.94	6.98			
Temp (+/- 0.5)	C°	12.95	13.26	13.38			
Color	Visual	11	11	11			
Odor	Olfactory	11	11	11			

Comments:

1220-Collect Sample MW-19 & Duplicate

Monitoring Well Purging / Sampling Form

Project Name and Number: Ward Products 60206092-2

Monitoring Well Number: MW-20 Date: 8/31/11

Samplers: GLW

Sample Number: QA/QC Collected? NO

Purging / Sampling Method: Whale pump w/ low flow controller &

1. L = Well Depth: 0.17 feet
2. D = Riser Diameter (I.D.): 21.42 feet
3. W = Depth to Water: feet
4. C = Column of Water in Well: feet
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$ gal
6. 3(V) = Target Purge Volume gal

D (inches)	D (feet)
1-inch	0.08
2-inch	0.17
3-inch	0.25
4-inch	0.33
6-inch	0.50

PVC valve & marine Battery

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using YSI-556 and Lamotte 2020 Hanna

Parameter	Units	Readings
Time	24 hr	1417 1422 1427 1432 1437 1510
Water Level (0.33)	feet	24.45 25.54 25.82 26.85 27.57 26.59
Volume Purged	gal	<0.5 0.55 0.70 0.80 1.05 1.35
Flow Rate	mL/min	
Turbidity (+/- 10%)	NTU	+ + + + 1000 +
Dissolved Oxygen (+/- 10%)	%	75.4 72.3 71.6 71.4 71.8 56.1
Dissolved Oxygen (+/- 10%)	mg/L	8.02 7.67 7.46 7.53 7.54 5.90
Eh / ORP (+/- 10)	MeV	80.0 113.8 77.5 77.9 72.9 88.0
Specific Conductivity (+/- 3%)	mS/cm	0.248 0.326 0.326 0.328 0.333 0.446
Conductivity (+/- 3%)	mS/cm	0.250 0.254 0.250 0.259 0.341
pH (+/- 0.1)	pH unit	7.92 7.32 7.95 7.94 7.97 7.59
Temp (+/- 0.5)	C	12.49 12.78 13.54 12.41 13.12 12.69
Color	Visual	Cloudy " " " " "
Odor	Olfactory	NA " " " " "

Comments: Begin purge @ 1412
 1439 Collect MW-20 sample
 Upon unhooking sample tubing from YSI, pump stopped pumping water - Pump Broke -
 1507-Begin Purging again for 4 min then Switch Controller Box & Battery
 1523-Begin purging again

+ = greater than Hanna can measure

Monitoring Well Purging / Sampling Form

Project Name and Number: Ward Products 60206092-2

Monitoring Well Number: MW-20 Date: 8/31/11

Samplers: GLW

Sample Number: QA/QC Collected? No

Purging / Sampling Method:

1. L = Well Depth:
2. D = Riser Diameter (I.D.):
3. W = Depth to Water:
4. C = Column of Water in Well:
5. V = Volume of Water in Well = $C(3.14159)(0.5D)^2(7.48)$
6. 3(V) = Target Purge Volume

	feet	D (inches)	D (feet)
	feet	1-inch	0.08
	feet	2-inch	0.17
	feet	3-inch	0.25
	gal	4-inch	0.33
	gal	6-inch	0.50

Conversion factors to determine V given C

D (inches)	1-inch	2-inch	3-inch	4-inch	6-inch
V (gal / ft)	0.041	0.163	0.37	0.65	1.5

Water Quality Readings Collected Using Hanna YSI-556 and LaMotte 2020

Parameter	Units	Readings							
Time	24 hr	1525	1530	1535	1540	1545	1550	1555	
Water Level (0.33)	feet	27.57	28.28	28.84	29.12	30.01	30.49	30.84	
Volume Purged	gal	1.80	2.05	2.40	2.65	2.95	3.30	3.55	
Flow Rate	mL/min								
Turbidity (+/- 10%)	NTU	+	+	+	+	+	+	1600+	
Dissolved Oxygen (+/- 10%)	%	45.5	40.1	38.8	38.2	33.0	32.9	30.2	
Dissolved Oxygen (+/- 10%)	mg/L	4.87	4.27	4.13	4.00	3.51	3.49	3.22	
Eh / ORP (+/- 10)	MeV	82.2	75.9	68.0	61.7	60.9	55.1	53.2	
Specific Conductivity (+/- 3%)	mS/cm ^c	0.482	0.494	0.506	0.516	0.530	0.540	0.556	
Conductivity (+/- 3%)	mS/cm	0.363	0.375	0.386	0.394	0.404	0.413	0.423	
pH (+/- 0.1)	pH unit	7.63	7.52	7.60	7.61	7.52	7.53	7.50	
Temp (+/- 0.5)	C°	12.08	12.41	12.57	12.75	12.96	12.68	12.52	
Color	Visual	cloudy	"	"	"	"	"	"	
Odor	Olfactory	NA	"	"	"	"	"	"	

Comments: 1523- Begin purging (3rd attempt)
1557- Collect MW-20



314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

CHAIN OF CUSTODY RECORD

AES Work Order #

Experience is the solution

A full service analytical research laboratory offering solutions to environmental concerns

Client Name: AECOM		Address: 250 Apollo Dr.; Chelmsford, MA 01824	
Send Report To: Jen Atkins		Project Name (Location): Ward Products	
Client Phone No: 978-905-2100		Client Fax No: 978-905-2101	
PO Number: 60206092.2		Samplers: (Names) Greta White	
		Samplers: (Signature) <i>Greta White</i>	

AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=a.m. P=p.m.	Sample Type			Number of Cont's	Analysis Required
				Matrix	Comp	Grab		
	MW-13	8/31/11	1057	GW		✓	12	VOC ^s (8260)
	MW-19		1220				4	Total Chromium
	MW-14		1020				4	(6010);
	MW-16		1157				4	hexachromium
	MW-15		1528				4	(SM 3500 CRD)-
	MW-20		1557				4	all locations
	MW-17		1702				4	to be analyzed
	MW-18		1800				4	for each -
	MW-11		1857				4	MW-13 has
	MW-Dup		-				4	extra volume for
	~~AAH~~ Trip Blank		-				1	ms/msd sample
								Note: MW-11
								metals Jar
								needs preservative

Shipment Arrived Via: FedEx UPS ☒ Client AES Other: _____		CC Report To / Special Instructions/Remarks: Send to Jennifer.atkins@aecom.com	
Turnaround Time Request: ☐ 1 Day ☐ 3 Day ☒ Normal ☐ 2 Day ☐ 5 Day			
Relinquished by: (Signature) <i>Greta White</i>		Received by: (Signature) <i>J. Atkins</i> Date/Time 9/1/11 0814	
Relinquished by: (Signature)		Received by: (Signature) Date/Time	
Relinquished by: (Signature)		Received for Laboratory by: <i>J. Atkins</i> Date/Time 9/1/11 8:15 AM	
TEMPERATURE Ambient or ☒ Chilled Notes: 4		PROPERLY PRESERVED ☒ Y ☐ N Notes: _____	
		RECEIVED WITHIN HOLDING TIMES ☒ Y ☐ N Notes: _____	

WHITE - Lab Copy

YELLOW - Sampler Copy

PINK - Generator Copy

Adirondack Environmental Services, Inc.

PINK: CLIENT'S COPY

**Attachment C – August
2011 Laboratory
Results (*only included
with the original*)**



Experience is the solution

314 North Pearl Street • Albany, New York 12207 • (518) 434-4546 • Fax (518) 434-0891
www.adirondackenvironmental.com

AECOM
2 Technology Park Drive
Westford, Massachusetts 01886

Attention: Jennifer Atkins



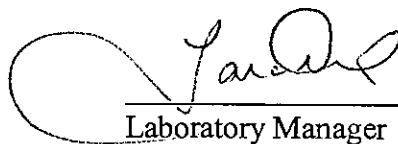
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TITLE PAGE

On August 30, 2011 five water samples were received by Adirondack Environmental Services, Inc. from AECOM-Westford from the Ward Products site. On September 1, 2011 eleven water samples were received by Adirondack Environmental Services, Inc. from AECOM-Westford from the Ward Products site. These samples were analyzed for Volatile Organics, Total Chromium and Hexavalent Chromium as specified by the contract. The project was completed on October 12, 2011.



Laboratory Manager

Date: _____

10/12/11



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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
MW-1R	110830062-001	X				X	X
MW-4	110830062-002	X				X	X
MW-4R	110830062-003	X				X	X
MW-10	110830062-004	X				X	X
Trip Blank	110830062-005	X					
MW-13	110830062-006	X				X	X
MW-19	110830062-007	X				X	X
MW-14	110830062-008	X				X	X
MW-16	110830062-009	X				X	X
MW-15	110830062-010	X				X	X
MW-20	110830062-011	X				X	X
MW-17	110830062-012	X				X	X
MW-18	110830062-013	X				X	X
MW-11	110830062-014	X				X	X
MW-DUP	110830062-015	X				X	X
Trip Blank	110830062-016	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
110830062-001	WATER	8/30/11	8/30/11	N/A	9/8/11
110830062-002	WATER	8/30/11	8/30/11	N/A	9/8/11
110830062-003	WATER	8/30/11	8/30/11	N/A	9/8/11
110830062-004	WATER	8/30/11	8/30/11	N/A	9/8/11
110830062-005	WATER	8/30/11	8/30/11	N/A	9/8/11
110830062-006	WATER	8/31/11	9/1/11	N/A	9/8/11
110830062-007	WATER	8/31/11	9/1/11	N/A	9/8/11
110830062-008	WATER	8/31/11	9/1/11	N/A	9/8/11
110830062-009	WATER	8/31/11	9/1/11	N/A	9/8/11
110830062-010	WATER	8/31/11	9/1/11	N/A	9/8/11
110830062-011	WATER	8/31/11	9/1/11	N/A	9/8/11
110830062-012	WATER	8/31/11	9/1/11	N/A	9/9/11
110830062-013	WATER	8/31/11	9/1/11	N/A	9/8/11
110830062-014	WATER	8/31/11	9/1/11	N/A	9/8/11
110830062-015	WATER	8/31/11	9/1/11	N/A	9/8/11
110830062-016	WATER	8/31/11	9/1/11	N/A	9/8/11

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd at Lab	Date Prepared	Date Analyzed
110830062-001	WATER	ICP: Cr	8/30/11	9/8/11	10/11/11
		Hexavalent Chromium	8/30/11		8/31/11
110830062-002	WATER	ICP: Cr	8/30/11	9/8/11	10/11/11
		Hexavalent Chromium	8/30/11		8/31/11
110830062-003	WATER	ICP: Cr	8/30/11	9/8/11	10/11/11
		Hexavalent Chromium	8/30/11		8/31/11
110830062-004	WATER	ICP: Cr	8/30/11	9/8/11	10/11/11
		Hexavalent Chromium	8/30/11		8/31/11
110830062-006	WATER	ICP: Cr	9/1/11	9/8/11	10/11/11
		Hexavalent Chromium	9/1/11		9/1/11
110830062-007	WATER	ICP: Cr	9/1/11	9/8/11	10/11/11
		Hexavalent Chromium	9/1/11		9/1/11
110830062-008	WATER	ICP: Cr	9/1/11	9/8/11	10/11/11
		Hexavalent Chromium	9/1/11		9/1/11
110830062-009	WATER	ICP: Cr	9/1/11	9/8/11	10/11/11
		Hexavalent Chromium	9/1/11		9/1/11
110830062-010	WATER	ICP: Cr	9/1/11	9/8/11	10/11/11
		Hexavalent Chromium	9/1/11		9/1/11
110830062-011	WATER	ICP: Cr	9/1/11	9/8/11	10/11/11
		Hexavalent Chromium	9/1/11		9/1/11
110830062-012	WATER	ICP: Cr	9/1/11	9/8/11	10/11/11
		Hexavalent Chromium	9/1/11		9/1/11

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd at Lab	Date Prepared	Date Analyzed
110830062-013	WATER	ICP: Cr	9/1/11	9/8/11	10/11/11
		Hexavalent Chromium	9/1/11		9/1/11
110830062-014	WATER	ICP: Cr	9/1/11	9/8/11	10/11/11
		Hexavalent Chromium	9/1/11		9/1/11
110830062-015	WATER	ICP: Cr	9/1/11	9/8/11	10/11/11



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Case Narrative

Client: AECOM/Westford – Ward Products

Case: AEC 1102

SDG: MW-1R

<u>Sample ID</u>	<u>Laboratory Sample ID</u>	<u>Date Received</u>	<u>VTSR</u>	<u>Matrix</u>
MW-1R	110830062-001	08/30/11	15:53	Water
MW-4	110830062-002	08/30/11	15:53	Water
MW-4R	110830062-003	08/30/11	15:53	Water
MW-10	110830062-004	08/30/11	15:53	Water
Trip Blank	110830062-005	08/30/11	15:53	Water
MW-13	110830062-006	09/01/11	08:15	Water
MW-19	110830062-007	09/01/11	08:15	Water
MW-14	110830062-008	09/01/11	08:15	Water
MW-16	110830062-009	09/01/11	08:15	Water
MW-15	110830062-010	09/01/11	08:15	Water
MW-20	110830062-011	09/01/11	08:15	Water
MW-17	110830062-012	09/01/11	08:15	Water
MW-18	110830062-013	09/01/11	08:15	Water
MW-11	110830062-014	09/01/11	08:15	Water
MW-DUP	110830062-015	09/01/11	08:15	Water
Trip Blank	110830062-016	09/01/11	08:15	Water

Volatile Organics

- 1) The samples were analyzed using EPA Method 8260 following the criteria for NYSDEC ASP.
- 2) The samples received on 8/30/11 had a temperature of 4 °C. The samples received on 9/1/11 had a temperature of 4 °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 for the compound 1,1,2,2-Tetrachloroethane in the initial calibration analyzed on 9/1/11 was outside the criteria established by the method. The %RSD for this compound was 23.3 %. The RRF's for the compounds 1,1,2,2-Tetrachloroethane and 1,2,4-Trichlorobenzene in the initial calibration analyzed on 9/1/11 were outside the criteria established by the method. The RRF's for these compounds were 0.203 and 0.104, 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 less than 40 % and the RRF was greater than 0.010 for these compounds.



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- 5) The %D for the compound Bromoform in the continuing calibration analyzed on 9/8/11 was outside the criteria established by the method. The %D for this compound was 27.22 %. The RRF's for the compounds 1,1,2,2-Tetrachloroethane and 1,2,4-Trichlorobenzene in the continuing calibration analyzed on 9/8/11 were outside the criteria established by the method. The RRF's for these compounds were 0.195 and 0.111, respectively. According to the protocol, two volatile organic compounds may exceed the %D limit of 25.0 % as long as the %D is less than 40 % and the RRF is above 0.010. The %D was less than 40 % and the RRF was greater than 0.010 for these compounds. None of these compounds were present in the samples.
- 6) The %D's for the compounds Bromomethane and Chloroethane in the continuing calibration analyzed on 9/9/11 were outside the criteria established by the method. The %D's for these compounds were 37.35 % and 40.98 %, respectively. The RRF's for the compounds 1,1,2,2-Tetrachloroethane and 1,2,4-Trichlorobenzene in the continuing calibration analyzed on 9/9/11 were outside the criteria established by the method. The RRF's for these compounds were 0.189 and 0.105, respectively. According to the protocol, two volatile organic compounds may exceed the %D limit of 25.0 % as long as the %D is less than 40 % and the RRF is above 0.010. The %D was less than 40 % and the RRF was greater than 0.010 for these compounds. None of these compounds were present in the samples.
- 7) Sample MW-13 (AES sample number 110830062-006) was used for the water matrix spike and the matrix spike duplicate analysis. Several of the recoveries in the matrix spike and matrix spike duplicate were outside required limits. According to the protocol, a matrix spike blank must be analyzed. A matrix spike blank was analyzed and all recoveries were within acceptable limits.
- 8) The method blanks, VBLK01 and VBLK02 analyzed on 9/8/11 and 9/9/11, respectively had the compounds Acetone and Methylene Chloride present. The levels present were within the acceptable range as specified by the protocol. Samples with these compounds present that are associated with these blanks are flagged with a "B" as required by the protocol.
- 9) The column used in Instrument C for analysis was a DB-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.

Inorganics – Total Metals

- 1) The samples were analyzed for Total Chromium only.



Experience is the solution

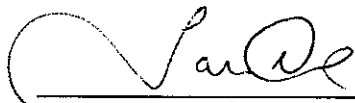
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- 2) The recovery for Aluminum, Calcium and Iron in the ICSA and the ICSAB check standards may be outside the required limit. The required concentration for these analytes in the check standards is 500,000 ug/L and 200,000 ug/L, respectively. The linear range on this instrument for Aluminum, Calcium and Iron is 250,000 ug/L, 200,000 ug/L and 80,000 ug/L, respectively. At this level accurate recovery of Aluminum, Calcium and Iron in the check standards is not possible. No further action is required.
- 3) Sample MW-13 (AES sample number 110830062-006) was used as the matrix spike and duplicate sample. All the recoveries were within acceptable limits.

Conventionals

- 1) The samples were analyzed for Hexavalent Chromium only.
- 2) Sample MW-4R (AES sample number 110830062-003) was used as the matrix spike and matrix spike duplicate sample for Hexavalent Chromium. All the recoveries were within acceptable limits.
- 3) Sample MW-13 (AES sample number 110830062-006) was used as the matrix spike and matrix spike duplicate sample for Hexavalent Chromium. All the recoveries were within acceptable limits

"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: 10/12/11

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-1R

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER

Lab Sample ID: 110830062-001C

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: C3972.D

Level (low/med): _____

Date Received: 8/30/11

% Moisture: not dec. 100

Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane		10	U
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		5.0	U
75-35-4	1,1-Dichloroethene		5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-tri		5.0	U
75-15-0	Carbon disulfide		5.0	U
67-64-1	Acetone		15	B
79-20-9	Methyl Acetate		5.0	U
75-09-2	Methylene Chloride		7.2	B
156-60-5	trans-1,2-Dichloroethene		5.0	U
1634-04-4	Methyl tert-butyl Ether		5.0	U
75-34-3	1,1-Dichloroethane		5.0	U
156-59-2	cis-1,2-Dichloroethene		5.0	U
74-97-5	Bromochloromethane		5.0	U
67-66-3	Chloroform		5.0	U
110-82-7	Cyclohexane		5.0	U
107-06-2	1,2-Dichloroethane		5.0	U
78-93-3	2-Butanone		10	U
108-87-2	Methyl Cyclohexane		5.0	U
71-55-6	1,1,1-Trichloroethane		5.0	U
56-23-5	Carbon Tetrachloride		5.0	U
71-43-2	Benzene		5.0	U
79-01-6	Trichloroethene		93	
78-87-5	1,2-Dichloropropane		5.0	U
75-27-4	Bromodichloromethane		5.0	U
10061-01-5	cis-1,3-Dichloropropene		5.0	U
10061-02-6	trans-1,3-Dichloropropene		5.0	U
79-00-5	1,1,2-Trichloroethane		5.0	U
124-48-1	Dibromochloromethane		5.0	U
106-93-4	1,2-Dibromoethane		5.0	U
75-25-2	Bromoform		5.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-1R

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-001C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3972.D

Level (low/med): _____ Date Received: 8/30/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		5.0	U
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		10	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethyl Benzene		5.0	U
126777-61-2	m,p-Xylenes		5.0	U
95-47-6	o-Xylene		5.0	U
100-42-5	Styrene		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane		50	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-002C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3987.D

Level (low/med): _____ Date Received: 8/30/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane		10	U
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		5.0	U
75-35-4	1,1-Dichloroethene		5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-tri		5.0	U
75-15-0	Carbon disulfide		5.0	U
67-64-1	Acetone		12	B
79-20-9	Methyl Acetate		5.0	U
75-09-2	Methylene Chloride		8.4	B
156-60-5	trans-1,2-Dichloroethene		5.0	U
1634-04-4	Methyl tert-butyl Ether		5.0	U
75-34-3	1,1-Dichloroethane		5.0	U
156-59-2	cis-1,2-Dichloroethene		2.2	J
74-97-5	Bromochloromethane		5.0	U
67-66-3	Chloroform		5.0	U
110-82-7	Cyclohexane		5.0	U
107-06-2	1,2-Dichloroethane		5.0	U
78-93-3	2-Butanone		10	U
108-87-2	Methyl Cyclohexane		5.0	U
71-55-6	1,1,1-Trichloroethane		5.0	U
56-23-5	Carbon Tetrachloride		5.0	U
71-43-2	Benzene		5.0	U
79-01-6	Trichloroethene		160	
78-87-5	1,2-Dichloropropane		5.0	U
75-27-4	Bromodichloromethane		5.0	U
10061-01-5	cis-1,3-Dichloropropene		5.0	U
10061-02-6	trans-1,3-Dichloropropene		5.0	U
79-00-5	1,1,2-Trichloroethane		5.0	U
124-48-1	Dibromochloromethane		5.0	U
106-93-4	1,2-Dibromoethane		5.0	U
75-25-2	Bromoform		5.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-002C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3987.D

Level (low/med): _____ Date Received: 8/30/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		5.0	U
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		10	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethyl Benzene		5.0	U
126777-61-2	m,p-Xylenes		5.0	U
95-47-6	o-Xylene		5.0	U
100-42-5	Styrene		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane		50	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4R

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-003C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3988.D

Level (low/med): _____ Date Received: 8/30/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 500.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	5000	U	
74-87-3	Chloromethane	5000	U	
75-01-4	Vinyl chloride	5000	U	
74-83-9	Bromomethane	5000	U	
75-00-3	Chloroethane	5000	U	
75-69-4	Trichlorofluoromethane	2500	U	
75-35-4	1,1-Dichloroethene	2500	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	2500	U	
75-15-0	Carbon disulfide	2500	U	
67-64-1	Acetone	3000	JB	
79-20-9	Methyl Acetate	2500	U	
75-09-2	Methylene Chloride	5400	B	
156-60-5	trans-1,2-Dichloroethene	2500	U	
1634-04-4	Methyl tert-butyl Ether	2500	U	
75-34-3	1,1-Dichloroethane	2500	U	
156-59-2	cis-1,2-Dichloroethene	2500	U	
74-97-5	Bromochloromethane	2500	U	
67-66-3	Chloroform	2500	U	
110-82-7	Cyclohexane	2500	U	
107-06-2	1,2-Dichloroethane	2500	U	
78-93-3	2-Butanone	5000	U	
108-87-2	Methyl Cyclohexane	2500	U	
71-55-6	1,1,1-Trichloroethane	2500	U	
56-23-5	Carbon Tetrachloride	2500	U	
71-43-2	Benzene	2500	U	
79-01-6	Trichloroethene	47000		
78-87-5	1,2-Dichloropropane	2500	U	
75-27-4	Bromodichloromethane	2500	U	
10061-01-5	cis-1,3-Dichloropropene	2500	U	
10061-02-6	trans-1,3-Dichloropropene	2500	U	
79-00-5	1,1,2-Trichloroethane	2500	U	
124-48-1	Dibromochloromethane	2500	U	
106-93-4	1,2-Dibromoethane	2500	U	
75-25-2	Bromoform	2500	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4R

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-003C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3988.D

Level (low/med): _____ Date Received: 8/30/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 500.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		5000	U
108-88-3	Toluene		2500	U
127-18-4	Tetrachloroethene		1200	J
591-78-6	2-Hexanone		5000	U
108-90-7	Chlorobenzene		2500	U
100-41-4	Ethyl Benzene		2500	U
126777-61-2	m,p-Xylenes		2500	U
95-47-6	o-Xylene		2500	U
100-42-5	Styrene		2500	U
98-82-8	Isopropylbenzene		2500	U
79-34-5	1,1,2,2-Tetrachloroethane		2500	U
541-73-1	1,3-Dichlorobenzene		2500	U
106-46-7	1,4-Dichlorobenzene		2500	U
95-50-1	1,2-Dichlorobenzene		2500	U
96-12-8	1,2-Dibromo-3-Chloropropane		25000	U
120-82-1	1,2,4-Trichlorobenzene		2500	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-10

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-004C

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: C3975.D

Level (low/med): _____ Date Received: 8/30/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 10.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	100	U	
74-87-3	Chloromethane	100	U	
75-01-4	Vinyl chloride	100	U	
74-83-9	Bromomethane	100	U	
75-00-3	Chloroethane	100	U	
75-69-4	Trichlorofluoromethane	50	U	
75-35-4	1,1-Dichloroethene	50	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	50	U	
75-15-0	Carbon disulfide	50	U	
67-64-1	Acetone	100	JB	
79-20-9	Methyl Acetate	50	U	
75-09-2	Methylene Chloride	98	B	
156-60-5	trans-1,2-Dichloroethene	50	U	
1634-04-4	Methyl tert-butyl Ether	50	U	
75-34-3	1,1-Dichloroethane	50	U	
156-59-2	cis-1,2-Dichloroethene	50	U	
74-97-5	Bromochloromethane	50	U	
67-66-3	Chloroform	50	U	
110-82-7	Cyclohexane	50	U	
107-06-2	1,2-Dichloroethane	50	U	
78-93-3	2-Butanone	100	U	
108-87-2	Methyl Cyclohexane	50	U	
71-55-6	1,1,1-Trichloroethane	50	U	
56-23-5	Carbon Tetrachloride	50	U	
71-43-2	Benzene	50	U	
79-01-6	Trichloroethene	940		
78-87-5	1,2-Dichloropropane	50	U	
75-27-4	Bromodichloromethane	50	U	
10061-01-5	cis-1,3-Dichloropropene	50	U	
10061-02-6	trans-1,3-Dichloropropene	50	U	
79-00-5	1,1,2-Trichloroethane	50	U	
124-48-1	Dibromochloromethane	50	U	
106-93-4	1,2-Dibromoethane	50	U	
75-25-2	Bromoform	50	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-10

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-004C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3975.D

Level (low/med): _____ Date Received: 8/30/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 10.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		100	U
108-88-3	Toluene		50	U
127-18-4	Tetrachloroethene		50	U
591-78-6	2-Hexanone		100	U
108-90-7	Chlorobenzene		50	U
100-41-4	Ethyl Benzene		50	U
126777-61-2	m,p-Xylenes		50	U
95-47-6	o-Xylene		50	U
100-42-5	Styrene		50	U
98-82-8	Isopropylbenzene		50	U
79-34-5	1,1,2,2-Tetrachloroethane		50	U
541-73-1	1,3-Dichlorobenzene		50	U
106-46-7	1,4-Dichlorobenzene		50	U
95-50-1	1,2-Dichlorobenzene		50	U
96-12-8	1,2-Dibromo-3-Chloropropane		500	U
120-82-1	1,2,4-Trichlorobenzene		50	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-11

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-014C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3985.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
67-64-1	Acetone	22	B	
79-20-9	Methyl Acetate	5.0	U	
75-09-2	Methylene Chloride	10	B	
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl tert-butyl Ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
156-59-2	cis-1,2-Dichloroethene	5.0	U	
74-97-5	Bromochloromethane	5.0	U	
67-66-3	Chloroform	5.0	U	
110-82-7	Cyclohexane	5.0	U	
107-06-2	1,2-Dichloroethane	5.0	U	
78-93-3	2-Butanone	10	U	
108-87-2	Methyl Cyclohexane	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
56-23-5	Carbon Tetrachloride	5.0	U	
71-43-2	Benzene	5.0	U	
79-01-6	Trichloroethene	5.0	U	
78-87-5	1,2-Dichloropropane	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
124-48-1	Dibromochloromethane	5.0	U	
106-93-4	1,2-Dibromoethane	5.0	U	
75-25-2	Bromoform	5.0	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-11

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-014C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3985.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		5.0	U
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		10	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethyl Benzene		5.0	U
126777-61-2	m,p-Xylenes		5.0	U
95-47-6	o-Xylene		5.0	U
100-42-5	Styrene		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane		50	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-13

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-006C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3977.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 5.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	50	U	
74-87-3	Chloromethane	50	U	
75-01-4	Vinyl chloride	50	U	
74-83-9	Bromomethane	50	U	
75-00-3	Chloroethane	50	U	
75-69-4	Trichlorofluoromethane	25	U	
75-35-4	1,1-Dichloroethene	25	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	25	U	
75-15-0	Carbon disulfide	25	U	
67-64-1	Acetone	57	B	
79-20-9	Methyl Acetate	25	U	
75-09-2	Methylene Chloride	35	B	
156-60-5	trans-1,2-Dichloroethene	25	U	
1634-04-4	Methyl tert-butyl Ether	25	U	
75-34-3	1,1-Dichloroethane	25	U	
156-59-2	cis-1,2-Dichloroethene	18	J	
74-97-5	Bromochloromethane	25	U	
67-66-3	Chloroform	25	U	
110-82-7	Cyclohexane	25	U	
107-06-2	1,2-Dichloroethane	25	U	
78-93-3	2-Butanone	50	U	
108-87-2	Methyl Cyclohexane	25	U	
71-55-6	1,1,1-Trichloroethane	25	U	
56-23-5	Carbon Tetrachloride	25	U	
71-43-2	Benzene	25	U	
79-01-6	Trichloroethene	440		
78-87-5	1,2-Dichloropropane	25	U	
75-27-4	Bromodichloromethane	25	U	
10061-01-5	cis-1,3-Dichloropropene	25	U	
10061-02-6	trans-1,3-Dichloropropene	25	U	
79-00-5	1,1,2-Trichloroethane	25	U	
124-48-1	Dibromochloromethane	25	U	
106-93-4	1,2-Dibromoethane	25	U	
75-25-2	Bromoform	25	U	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-13

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-006C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3977.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 5.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		50	U
108-88-3	Toluene		25	U
127-18-4	Tetrachloroethene		25	U
591-78-6	2-Hexanone		50	U
108-90-7	Chlorobenzene		25	U
100-41-4	Ethyl Benzene		25	U
126777-61-2	m,p-Xylenes		25	U
95-47-6	o-Xylene		25	U
100-42-5	Styrene		25	U
98-82-8	Isopropylbenzene		25	U
79-34-5	1,1,2,2-Tetrachloroethane		25	U
541-73-1	1,3-Dichlorobenzene		25	U
106-46-7	1,4-Dichlorobenzene		25	U
95-50-1	1,2-Dichlorobenzene		25	U
96-12-8	1,2-Dibromo-3-Chloropropane		250	U
120-82-1	1,2,4-Trichlorobenzene		25	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-14

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AECL102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-008C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3979.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
67-64-1	Acetone	15	B	
79-20-9	Methyl Acetate	5.0	U	
75-09-2	Methylene Chloride	5.5	B	
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl tert-butyl Ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
156-59-2	cis-1,2-Dichloroethene	5.0	U	
74-97-5	Bromochloromethane	5.0	U	
67-66-3	Chloroform	5.0	U	
110-82-7	Cyclohexane	5.0	U	
107-06-2	1,2-Dichloroethane	5.0	U	
78-93-3	2-Butanone	10	U	
108-87-2	Methyl Cyclohexane	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
56-23-5	Carbon Tetrachloride	5.0	U	
71-43-2	Benzene	5.0	U	
79-01-6	Trichloroethene	5.0	U	
78-87-5	1,2-Dichloropropane	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
124-48-1	Dibromochloromethane	5.0	U	
106-93-4	1,2-Dibromoethane	5.0	U	
75-25-2	Bromoform	5.0	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-14

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-008C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3979.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone	10	U	
108-88-3	Toluene	5.0	U	
127-18-4	Tetrachloroethene	5.0	U	
591-78-6	2-Hexanone	10	U	
108-90-7	Chlorobenzene	5.0	U	
100-41-4	Ethyl Benzene	5.0	U	
126777-61-2	m,p-Xylenes	5.0	U	
95-47-6	o-Xylene	5.0	U	
100-42-5	Styrene	5.0	U	
98-82-8	Isopropylbenzene	5.0	U	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	
541-73-1	1,3-Dichlorobenzene	5.0	U	
106-46-7	1,4-Dichlorobenzene	5.0	U	
95-50-1	1,2-Dichlorobenzene	5.0	U	
96-12-8	1,2-Dibromo-3-Chloropropane	50	U	
120-82-1	1,2,4-Trichlorobenzene	5.0	U	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-15

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-010C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3981.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
67-64-1	Acetone	16	B	
79-20-9	Methyl Acetate	5.0	U	
75-09-2	Methylene Chloride	7.3	B	
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl tert-butyl Ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
156-59-2	cis-1,2-Dichloroethene	5.0	U	
74-97-5	Bromochloromethane	5.0	U	
67-66-3	Chloroform	5.0	U	
110-82-7	Cyclohexane	5.0	U	
107-06-2	1,2-Dichloroethane	5.0	U	
78-93-3	2-Butanone	10	U	
108-87-2	Methyl Cyclohexane	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
56-23-5	Carbon Tetrachloride	5.0	U	
71-43-2	Benzene	5.0	U	
79-01-6	Trichloroethene	5.0	U	
78-87-5	1,2-Dichloropropane	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
124-48-1	Dibromochloromethane	5.0	U	
106-93-4	1,2-Dibromoethane	5.0	U	
75-25-2	Bromoform	5.0	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-15

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-010C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3981.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		5.0	U
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		10	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethyl Benzene		5.0	U
126777-61-2	m,p-Xylenes		5.0	U
95-47-6	o-Xylene		5.0	U
100-42-5	Styrene		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane		50	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-16

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-009C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3980.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	U
74-87-3	Chloromethane	10	U	U
75-01-4	Vinyl chloride	10	U	U
74-83-9	Bromomethane	10	U	U
75-00-3	Chloroethane	10	U	U
75-69-4	Trichlorofluoromethane	5.0	U	U
75-35-4	1,1-Dichloroethene	5.0	U	U
76-13-1	1,1,2-Trichloro-1,2,2-tri	5.0	U	U
75-15-0	Carbon disulfide	5.0	U	U
67-64-1	Acetone	34	B	B
79-20-9	Methyl Acetate	5.0	U	U
75-09-2	Methylene Chloride	9.3	B	B
156-60-5	trans-1,2-Dichloroethene	5.0	U	U
1634-04-4	Methyl tert-butyl Ether	5.0	U	U
75-34-3	1,1-Dichloroethane	5.0	U	U
156-59-2	cis-1,2-Dichloroethene	2.4	J	J
74-97-5	Bromochloromethane	5.0	U	U
67-66-3	Chloroform	5.0	U	U
110-82-7	Cyclohexane	5.0	U	U
107-06-2	1,2-Dichloroethane	5.0	U	U
78-93-3	2-Butanone	10	U	U
108-87-2	Methyl Cyclohexane	5.0	U	U
71-55-6	1,1,1-Trichloroethane	5.0	U	U
56-23-5	Carbon Tetrachloride	5.0	U	U
71-43-2	Benzene	5.0	U	U
79-01-6	Trichloroethene	5.0	U	U
78-87-5	1,2-Dichloropropane	5.0	U	U
75-27-4	Bromodichloromethane	5.0	U	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U	U
79-00-5	1,1,2-Trichloroethane	5.0	U	U
124-48-1	Dibromochloromethane	5.0	U	U
106-93-4	1,2-Dibromoethane	5.0	U	U
75-25-2	Bromoform	5.0	U	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-16

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-009C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3980.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		5.0	U
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		10	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethyl Benzene		5.0	U
126777-61-2	m,p-Xylenes		5.0	U
95-47-6	o-Xylene		5.0	U
100-42-5	Styrene		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane		50	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-17

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-012C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3995.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/9/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 2.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	20	U	
74-87-3	Chloromethane	20	U	
75-01-4	Vinyl chloride	20	U	
74-83-9	Bromomethane	20	U	
75-00-3	Chloroethane	20	U	
75-69-4	Trichlorofluoromethane	10	U	
75-35-4	1,1-Dichloroethene	10	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	10	U	
75-15-0	Carbon disulfide	10	U	
67-64-1	Acetone	25	B	
79-20-9	Methyl Acetate	10	U	
75-09-2	Methylene Chloride	6.8	JB	
156-60-5	trans-1,2-Dichloroethene	10	U	
1634-04-4	Methyl tert-butyl Ether	10	U	
75-34-3	1,1-Dichloroethane	10	U	
156-59-2	cis-1,2-Dichloroethene	8.5	J	
74-97-5	Bromochloromethane	10	U	
67-66-3	Chloroform	10	U	
110-82-7	Cyclohexane	10	U	
107-06-2	1,2-Dichloroethane	10	U	
78-93-3	2-Butanone	20	U	
108-87-2	Methyl Cyclohexane	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
71-43-2	Benzene	10	U	
79-01-6	Trichloroethene	280		
78-87-5	1,2-Dichloropropane	10	U	
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
124-48-1	Dibromochloromethane	10	U	
106-93-4	1,2-Dibromoethane	10	U	
75-25-2	Bromoform	10	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-17

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-012C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3995.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/9/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 2.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		20	U
108-88-3	Toluene		10	U
127-18-4	Tetrachloroethene		10	U
591-78-6	2-Hexanone		20	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m,p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U
98-82-8	Isopropylbenzene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
541-73-1	1,3-Dichlorobenzene		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		100	U
120-82-1	1,2,4-Trichlorobenzene		10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-18

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-013C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3984.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
67-64-1	Acetone	17	B	
79-20-9	Methyl Acetate	5.0	U	
75-09-2	Methylene Chloride	9.4	B	
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl tert-butyl Ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
156-59-2	cis-1,2-Dichloroethene	5.0	U	
74-97-5	Bromochloromethane	5.0	U	
67-66-3	Chloroform	5.0	U	
110-82-7	Cyclohexane	5.0	U	
107-06-2	1,2-Dichloroethane	5.0	U	
78-93-3	2-Butanone	10	U	
108-87-2	Methyl Cyclohexane	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
56-23-5	Carbon Tetrachloride	5.0	U	
71-43-2	Benzene	5.0	U	
79-01-6	Trichloroethene	2.6	J	
78-87-5	1,2-Dichloropropane	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
124-48-1	Dibromochloromethane	5.0	U	
106-93-4	1,2-Dibromoethane	5.0	U	
75-25-2	Bromoform	5.0	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-18

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-013C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3984.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		5.0	U
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		10	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethyl Benzene		5.0	U
126777-61-2	m,p-Xylenes		5.0	U
95-47-6	o-Xylene		5.0	U
100-42-5	Styrene		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane		50	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-19

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-007C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3978.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
67-64-1	Acetone	27	B	
79-20-9	Methyl Acetate	5.0	U	
75-09-2	Methylene Chloride	6.8	B	
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl tert-butyl Ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
156-59-2	cis-1,2-Dichloroethene	5.0	U	
74-97-5	Bromochloromethane	5.0	U	
67-66-3	Chloroform	5.0	U	
110-82-7	Cyclohexane	5.0	U	
107-06-2	1,2-Dichloroethane	5.0	U	
78-93-3	2-Butanone	10	U	
108-87-2	Methyl Cyclohexane	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
56-23-5	Carbon Tetrachloride	5.0	U	
71-43-2	Benzene	5.0	U	
79-01-6	Trichloroethene	5.0	U	
78-87-5	1,2-Dichloropropane	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
124-48-1	Dibromochloromethane	5.0	U	
106-93-4	1,2-Dibromoethane	5.0	U	
75-25-2	Bromoform	5.0	U	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-19

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER

Lab Sample ID: 110830062-007C

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: C3978.D

Level (low/med): _____

Date Received: 9/1/11

% Moisture: not dec. 100

Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		5.0	U
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		10	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethyl Benzene		5.0	U
126777-61-2	m,p-Xylenes		5.0	U
95-47-6	o-Xylene		5.0	U
100-42-5	Styrene		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane		50	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-20

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AECl102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-011C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3982.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
67-64-1	Acetone	24	B	
79-20-9	Methyl Acetate	5.0	U	
75-09-2	Methylene Chloride	9.7	B	
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl tert-butyl Ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
156-59-2	cis-1,2-Dichloroethene	5.0	U	
74-97-5	Bromochloromethane	5.0	U	
67-66-3	Chloroform	5.0	U	
110-82-7	Cyclohexane	5.0	U	
107-06-2	1,2-Dichloroethane	5.0	U	
78-93-3	2-Butanone	10	U	
108-87-2	Methyl Cyclohexane	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
56-23-5	Carbon Tetrachloride	5.0	U	
71-43-2	Benzene	5.0	U	
79-01-6	Trichloroethene	5.0	U	
78-87-5	1,2-Dichloropropane	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
124-48-1	Dibromochloromethane	5.0	U	
106-93-4	1,2-Dibromoethane	5.0	U	
75-25-2	Bromoform	5.0	U	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-20

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER

Lab Sample ID: 110830062-011C

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: C3982.D

Level (low/med): _____

Date Received: 9/1/11

% Moisture: not dec. 100

Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		5.0	U
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		10	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethyl Benzene		5.0	U
126777-61-2	m,p-Xylenes		5.0	U
95-47-6	o-Xylene		5.0	U
100-42-5	Styrene		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane		50	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-Dup

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-015C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3990.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
67-64-1	Acetone	12	B	
79-20-9	Methyl Acetate	5.0	U	
75-09-2	Methylene Chloride	6.2	B	
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl tert-butyl Ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
156-59-2	cis-1,2-Dichloroethene	5.0	U	
74-97-5	Bromochloromethane	5.0	U	
67-66-3	Chloroform	5.0	J	
110-82-7	Cyclohexane	5.0	U	
107-06-2	1,2-Dichloroethane	5.0	U	
78-93-3	2-Butanone	10	U	
108-87-2	Methyl Cyclohexane	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
56-23-5	Carbon Tetrachloride	5.0	U	
71-43-2	Benzene	5.0	U	
79-01-6	Trichloroethene	5.0	U	
78-87-5	1,2-Dichloropropane	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
124-48-1	Dibromochloromethane	5.0	U	
106-93-4	1,2-Dibromoethane	5.0	U	
75-25-2	Bromoform	5.0	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-Dup

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-015C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3990.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		5.0	U
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		10	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethyl Benzene		5.0	U
126777-61-2	m,p-Xylenes		5.0	U
95-47-6	o-Xylene		5.0	U
100-42-5	Styrene		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane		50	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Trip Blank Lot #260

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-005A

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3976.D

Level (low/med): _____ Date Received: 8/30/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
67-64-1	Acetone	5.9	JB	
79-20-9	Methyl Acetate	5.0	U	
75-09-2	Methylene Chloride	9.0	B	
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl tert-butyl Ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
156-59-2	cis-1,2-Dichloroethene	5.0	U	
74-97-5	Bromochloromethane	5.0	U	
67-66-3	Chloroform	5.0	U	
110-82-7	Cyclohexane	5.0	U	
107-06-2	1,2-Dichloroethane	5.0	U	
78-93-3	2-Butanone	10	U	
108-87-2	Methyl Cyclohexane	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
56-23-5	Carbon Tetrachloride	5.0	U	
71-43-2	Benzene	5.0	U	
79-01-6	Trichloroethene	5.0	U	
78-87-5	1,2-Dichloropropane	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
124-48-1	Dibromochloromethane	5.0	U	
106-93-4	1,2-Dibromoethane	5.0	U	
75-25-2	Bromoform	5.0	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Trip Blank Lot #260

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER

Lab Sample ID: 110830062-005A

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: C3976.D

Level (low/med): _____

Date Received: 8/30/11

% Moisture: not dec. 100

Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		5.0	U
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		10	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethyl Benzene		5.0	U
126777-61-2	m,p-Xylenes		5.0	U
95-47-6	o-Xylene		5.0	U
100-42-5	Styrene		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane		50	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Trip Blank Lot #260

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-016A

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3986.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane		10	U
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		5.0	U
75-35-4	1,1-Dichloroethene		5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-tri		5.0	U
75-15-0	Carbon disulfide		5.0	U
67-64-1	Acetone		5.8	JB
79-20-9	Methyl Acetate		5.0	U
75-09-2	Methylene Chloride		11	B
156-60-5	trans-1,2-Dichloroethene		5.0	U
1634-04-4	Methyl tert-butyl Ether		5.0	U
75-34-3	1,1-Dichloroethane		5.0	U
156-59-2	cis-1,2-Dichloroethene		5.0	U
74-97-5	Bromochloromethane		5.0	U
67-66-3	Chloroform		5.0	U
110-82-7	Cyclohexane		5.0	U
107-06-2	1,2-Dichloroethane		5.0	U
78-93-3	2-Butanone		10	U
108-87-2	Methyl Cyclohexane		5.0	U
71-55-6	1,1,1-Trichloroethane		5.0	U
56-23-5	Carbon Tetrachloride		5.0	U
71-43-2	Benzene		5.0	U
79-01-6	Trichloroethene		5.0	U
78-87-5	1,2-Dichloropropane		5.0	U
75-27-4	Bromodichloromethane		5.0	U
10061-01-5	cis-1,3-Dichloropropene		5.0	U
10061-02-6	trans-1,3-Dichloropropene		5.0	U
79-00-5	1,1,2-Trichloroethane		5.0	U
124-48-1	Dibromochloromethane		5.0	U
106-93-4	1,2-Dibromoethane		5.0	U
75-25-2	Bromoform		5.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Trip Blank Lot #260

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-016A

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3986.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		5.0	U
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		10	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethyl Benzene		5.0	U
126777-61-2	m,p-Xylenes		5.0	U
95-47-6	o-Xylene		5.0	U
100-42-5	Styrene		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane		50	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-1R

Lab Name: Adirondack Environmental Contract: Ward Products

Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-001B

Level (low/med): LOW Date Received: 8/30/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	127			P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-4

Lab Name: Adirondack Environmental Contract: Ward Products
Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R
Matrix (soil/water): WATER Lab Sample ID: 110830062-002B
Level (low/med): LOW Date Received: 8/30/2011
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-4R

Lab Name: Adirondack Environmental Contract: Ward Products
Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R
Matrix (soil/water): WATER Lab Sample ID: 110830062-003B
Level (low/med): LOW Date Received: 8/30/2011
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-10

Lab Name: Adirondack Environmental Contract: Ward Products
 Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R
 Matrix (soil/water): WATER Lab Sample ID: 110830062-004B
 Level (low/med): LOW Date Received: 8/30/2011
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-11

Lab Name: Adirondack Environmental Contract: Ward Products
Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R
Matrix (soil/water): WATER Lab Sample ID: 110830062-014B
Level (low/med): LOW Date Received: 8/30/2011
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-13

Lab Name: Adirondack Environmental Contract: Ward Products

Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-006B

Level (low/med): LOW Date Received: 8/30/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-14

Lab Name: Adirondack Environmental Contract: Ward Products
Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R
Matrix (soil/water): WATER Lab Sample ID: 110830062-008B
Level (low/med): LOW Date Received: 8/30/2011
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-15

Lab Name: Adirondack Environmental Contract: Ward Products
 Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R
 Matrix (soil/water): WATER Lab Sample ID: 110830062-010B
 Level (low/med): LOW Date Received: 8/30/2011
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-16

Lab Name: Adirondack Environmental Contract: Ward Products
 Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R
 Matrix (soil/water): WATER Lab Sample ID: 110830062-009B
 Level (low/med): LOW Date Received: 8/30/2011
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-17

Lab Name: Adirondack Environmental Contract: Ward Products
 Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R
 Matrix (soil/water): WATER Lab Sample ID: 110830062-012B
 Level (low/med): LOW Date Received: 8/30/2011
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-18

Lab Name: Adirondack Environmental Contract: Ward Products
 Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R
 Matrix (soil/water): WATER Lab Sample ID: 110830062-013B
 Level (low/med): LOW Date Received: 8/30/2011
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-19

Lab Name: Adirondack Environmental Contract: Ward Products
 Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R
 Matrix (soil/water): WATER Lab Sample ID: 110830062-007B
 Level (low/med): LOW Date Received: 8/30/2011
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-20

Lab Name: Adirondack Environmental Contract: Ward Products
 Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R
 Matrix (soil/water): WATER Lab Sample ID: 110830062-011B
 Level (low/med): LOW Date Received: 8/30/2011
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-Dup

Lab Name: Adirondack Environmental Contract: Ward Products

Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-015B

Level (low/med): LOW Date Received: 8/30/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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CONVENTIONALS ANALYSIS DATA SHEET

MW-1R

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Lab Sample ID: 110830062-001

Level (Low/Med): Low

Date Received: 8/30/11

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	110			SM 3500 CR D

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

MW-4

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Lab Sample ID: 110830062-002

Level (Low/Med): Low

Date Received: 8/30/11

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	20	U		SM 3500 CR D

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

MW-4R

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Lab Sample ID: 110830062-003

Level (Low/Med): Low

Date Received: 8/30/11

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	20	U		SM 3500 CR D

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

MW-10

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Lab Sample ID: 110830062-004

Level (Low/Med): Low

Date Received: 8/30/11

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	20	U		SM 3500 CR D

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

MW-11

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Lab Sample ID: 110830062-014

Level (Low/Med): Low

Date Received: 9/1/11

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	20	U		SM 3500 CR D

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

MW-13

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Lab Sample ID: 110830062-006

Level (Low/Med): Low

Date Received: 9/1/11

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 NO3 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 NO2 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	20	U		SM 3500 CR D

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

MW-14

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Lab Sample ID: 110830062-008

Level (Low/Med): Low

Date Received: 9/1/11

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 NO3 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 NO2 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	20	U		SM 3500 CR D

Comments

FORM I - CONV

: 00000

U.S. EPA - CLP

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CONVENTIONALS ANALYSIS DATA SHEET

MW-15

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Lab Sample ID: 110830062-010

Level (Low/Med): Low

Date Received: 9/1/11

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	20	U		SM 3500 CR D

Comments

FORM I - CONV

: 00061

U.S. EPA - CLP

1

CONVENTIONALS ANALYSIS DATA SHEET

MW-16

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Lab Sample ID: 110830062-009

Level (Low/Med): Low

Date Received: 9/1/11

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	20	U		SM 3500 CR D

Comments

FORM I - CONV

: 00062

U.S. EPA - CLP

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CONVENTIONALS ANALYSIS DATA SHEET

MW-17

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Lab Sample ID: 110830062-012

Level (Low/Med): Low

Date Received: 9/1/11

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	20	U		SM 3500 CR D

Comments

FORM I - CONV

: 000063

U.S. EPA - CLP

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CONVENTIONALS ANALYSIS DATA SHEET

MW-18

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Lab Sample ID: 110830062-013

Level (Low/Med): Low

Date Received: 9/1/11

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 NO3 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 NO2 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	20	U		SM 3500 CR D

Comments

FORM I - CONV

: 00064

U.S. EPA - CLP

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CONVENTIONALS ANALYSIS DATA SHEET

MW-19

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Lab Sample ID: 110830062-007

Level (Low/Med): Low

Date Received: 9/1/11

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 NO3 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 NO2 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	20	U		SM 3500 CR D

Comments

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: 000000

U.S. EPA - CLP

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CONVENTIONALS ANALYSIS DATA SHEET

MW-20

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Lab Sample ID: 110830062-011

Level (Low/Med): Low

Date Received: 9/1/11

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH ₃ C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 NO ₃ H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 NO ₂ B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H ⁺ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	20	U		SM 3500 CRD

Comments

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CONVENTIONALS ANALYSIS DATA SHEET

MW-DUP

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Lab Sample ID: 110830062-015

Level (Low/Med): Low

Date Received: 9/1/11

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	20	U		SM 3500 CR D

Comments

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: AES, Inc.

Contract: _____

Lab Code: AESCASE No.: AEC1102

SAS No.: _____

SDG NO.: MW-1R

	EPA Sample NO.	SMC1 (DCE) #	SMC2 (TOL) #	SMC3 (BFB) #	SMC4	TOT OUT
01	VBLK01	92	94	95		0
02	MW-1R	83	96	91		0
03	MW-10	101	94	96		0
04	Trip Blank Lot #260	93	96	91		0
05	MW-13	93	93	93		0
06	MW-19	99	94	93		0
07	MW-14	81	90	91		0
08	MW-16	98	95	94		0
09	MW-15	98	90	93		0
10	MW-20	106	94	94		0
11	MW-18	91	90	93		0
12	MW-11	99	93	90		0
13	Trip Blank Lot #260	102	92	92		0
14	MW-4	93	95	91		0
15	MW-4R	98	95	91		0
16	MW-Dup	94	89	90		0
17	VM5B	94	95	92		0

QC LIMITS

SMC1 (DCE) = 1,2-Dichloroethane-d4

(76-114)

SMC2 (TOL) = Toluene-d8

(88-110)

SMC3 (BFB) = Bromofluorobenzene

(86-115)

Column to be used to flag recovery values

* Values outside of contract required QC Limits

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: AES, Inc. Contract: _____
Lab Code: AES CASE No.: AEC1102 SAS No.: _____ SDG NO.: MW-1R

	EPA Sample NO.	SMC1 (DCE) #	SMC2 (TOL) #	SMC3 (BFB) #	SMC4	TOT OUT
18	VBLK02	100	89	109		0
19	MW-17	96	93	92		0
20	MW-13MS	103	88	113		0
21	MW-13MSD	94	90	92		0

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

Column to be used to flag recovery values
* Values outside of contract required QC Limits

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AES, Inc.

Contract: _____

Lab Code: AESCase No.: AEC1102

SAS No.: _____

SDG No.: MW-1RMatrix Spike - EPA Sample No: MW-13

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC#	QC LIMIT REC
1,1-Dichloroethene	250	0	250	100	(61-145)
Benzene	250	0	210	84	(76-127)
Trichloroethene	250	440	550	44*	(71-120)
Toluene	250	0	210	84	(76-125)
Chlorobenzene	250	0	260	104	(75-130)

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	% REC #	% RPD #	QC LIMITS RPD	REC
1,1-Dichloroethene	250	220	88	13	14	(61-145)
Benzene	250	240	96	13*	11	(76-127)
Trichloroethene	250	600	64*	37*	14	(71-120)
Toluene	250	250	100	17*	13	(76-125)
Chlorobenzene	250	240	96	8	13	(75-130)

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

* Values outside of QC limits

RPD: 3 out of 5 outside limitsSpike Recovery: 2 out of 10 outside limits

Comments: _____

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: AES, Inc. Contract: _____Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1RLaboratory Control Spike - EPA Sample No: VMSB

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
1,1-Dichloroethene	50		38	76	(61-145)
Benzene	50		49	98	(76-127)
Trichloroethene	50		49	98	(71-120)
Toluene	50		46	92	(76-125)
Chlorobenzene	50		45	90	(75-130)

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 0 out of 5 outside limits

Comments: _____

DUPLICATES

SAMPLE NO.

MW-13DP

Lab Name: Adirondack Environmental Contract: Ward ProductsLab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1RMatrix (soil/water): WATER Level (low/med): LOW% Solids for Sample: 0.0 % Solids for Duplicate: 0.0Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Chromium		4.6700	U	4.6700	U			P

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DUPLICATES

MW-4R

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Level (Low/Med):

Low

% Solids for Sample: 0.0

% Solids for Duplicate:

0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Control Limit % R	Sample (S)	C	Duplicate (D)	C	% R	Q	M
TKN as N								
Ammonia, as N								
Nitrate								
COD								
BOD 5								
TOC								
TDS								
Sulfate								
Alkalinity								
Total Phenols								
Chloride								
Bromide								
Nitrite								
Specific Conductance								
Cyanide								
pH								
Turbidity								
Color								
Hexavalent Chromium	20	197		213		7.8		

Comments

Hexavalent Chromium duplicate from MS/MSD

FORM VI - CONV

: 00073

U.S. EPA - CLP

6

DUPLICATES

MW-13

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Level (Low/Med):

Low

% Solids for Sample: 0.0

% Solids for Duplicate:

0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Control Limit % R	Sample (S)	C	Duplicate (D)	C	% R	Q	M
TKN as N								
Ammonia, as N								
Nitrate								
COD								
BOD 5								
TOC								
TDS								
Sulfate								
Alkalinity								
Total Phenols								
Chloride								
Bromide								
Nitrite								
Specific Conductance								
Cyanide								
pH								
Turbidity								
Color								
Hexavalent Chromium	20	196		197		0.5		

Comments

Hexavalent Chromium duplicate from MS/MSD

FORM VI - CONV

: 00074

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

MW-13MS

Lab Name: Adirondack Environmental Contract: Ward ProductsLab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1RMatrix (soil/water): WATER Level (low/med): LOW% Solids for Sample: 0.0Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Chromium	75 - 125	222.8176		4.6700	U	200.00	111.4		P

Comments:

5B

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

MW-13A

Lab Name: Adirondack Environmental Contract: Ward ProductsLab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1RMatrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Chromium		415.42	4.67 U	400.0	103.9		P

Comments: _____

U.S. EPA - CLP

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SPIKE SAMPLE RECOVERY

MW-4R

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.:

AEC 1102 SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Level (Low/Med): Low

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Control Limit % R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	% R	Q	M
TKN as N									
Ammonia, as N									
Nitrate									
COD									
BOD 5									
TOC									
TDS									
Sulfate									
Alkalinity									
Total Phenols									
Chloride									
Bromide									
Nitrite									
Specific Conductance									
Cyanide									
pH									
Turbidity									
Color									
Hexavalent Chromium	75-125	197		20	U	200	99		

Comments

FORM V (Part 1) - CONV

: 00077

U.S. EPA - CLP

5

SPIKE SAMPLE RECOVERY

MW-13

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.:

AEC 1102 SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Level (Low/Med): Low

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Control Limit % R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	% R	Q	M
TKN as N									
Ammonia, as N									
Nitrate									
COD									
BOD 5									
TOC									
TDS									
Sulfate									
Alkalinity									
Total Phenols									
Chloride									
Bromide									
Nitrite									
Specific Conductance									
Cyanide									
pH									
Turbidity									
Color									
Hexavalent Chromium	75-125	196		20	U	200	98		

Comments

FORM V (Part 1) - CONV

: 00078

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBK01

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: AEC1102

SAS No.: _____ SDG NO.: MW-1R

Lab File ID: CB276.D

Lab Sample ID: VBK01

Date Analyzed: 9/8/2011

Time Analyzed: 11:00

GC Column: DB624 ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOAC

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
MW-1R	110830062-001C	C3972.D	11:29
MW-10	110830062-004C	C3975.D	12:59
Trip Blank Lot #260	110830062-005A	C3976.D	13:28
MW-13	110830062-006C	C3977.D	13:56
MW-19	110830062-007C	C3978.D	14:24
MW-14	110830062-008C	C3979.D	14:53
MW-16	110830062-009C	C3980.D	15:19
MW-15	110830062-010C	C3981.D	15:48
MW-20	110830062-011C	C3982.D	16:17
MW-18	110830062-013C	C3984.D	17:15
MW-11	110830062-014C	C3985.D	17:44
Trip Blank Lot #260	110830062-016A	C3986.D	18:14
MW-4	110830062-002C	C3987.D	18:43
MW-4R	110830062-003C	C3988.D	19:13
MW-Dup	110830062-015C	C3990.D	20:12
VMSB	VMSB	C3993.D	21:39

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBK01

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: VBK01

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: CB276.D

Level (low/med): _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
67-64-1	Acetone	9.7	J	
79-20-9	Methyl Acetate	5.0	U	
75-09-2	Methylene Chloride	5.4		
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl tert-butyl Ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
156-59-2	cis-1,2-Dichloroethene	5.0	U	
74-97-5	Bromochloromethane	5.0	U	
67-66-3	Chloroform	5.0	U	
110-82-7	Cyclohexane	5.0	U	
107-06-2	1,2-Dichloroethane	5.0	U	
78-93-3	2-Butanone	10	U	
108-87-2	Methyl Cyclohexane	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
56-23-5	Carbon Tetrachloride	5.0	U	
71-43-2	Benzene	5.0	U	
79-01-6	Trichloroethene	5.0	U	
78-87-5	1,2-Dichloropropane	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
124-48-1	Dibromochloromethane	5.0	U	
106-93-4	1,2-Dibromoethane	5.0	U	
75-25-2	Bromoform	5.0	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER

Lab Sample ID: VBLK01

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: CB276.D

Level (low/med): _____

Date Received: _____

% Moisture: not dec. 100

Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		5.0	U
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		10	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethyl Benzene		5.0	U
126777-61-2	m,p-Xylenes		5.0	U
95-47-6	o-Xylene		5.0	U
100-42-5	Styrene		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane		50	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBK02

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: AEC1102

SAS No.: _____ SDG NO.: MW-1R

Lab File ID: CB277.D

Lab Sample ID: VBK02

Date Analyzed: 9/9/2011

Time Analyzed: 10:50

GC Column: DB624 ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOAC

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
MW-17	110830062-012C	C3995.D	11:18
MW-13MS	110830062-006CMS	C3996.D	11:46
MW-13MSD	110830062-006CMSD	C3997.D	12:13

COMMENTS: _____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: VBLK02

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: CB277.D

Level (low/med): _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 9/9/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
67-64-1	Acetone	10		
79-20-9	Methyl Acetate	5.0	U	
75-09-2	Methylene Chloride	4.8	J	
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl tert-butyl Ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
156-59-2	cis-1,2-Dichloroethene	5.0	U	
74-97-5	Bromochloromethane	5.0	U	
67-66-3	Chloroform	5.0	U	
110-82-7	Cyclohexane	5.0	U	
107-06-2	1,2-Dichloroethane	5.0	U	
78-93-3	2-Butanone	10	U	
108-87-2	Methyl Cyclohexane	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
56-23-5	Carbon Tetrachloride	5.0	U	
71-43-2	Benzene	5.0	U	
79-01-6	Trichloroethene	5.0	U	
78-87-5	1,2-Dichloropropane	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
124-48-1	Dibromochloromethane	5.0	U	
106-93-4	1,2-Dibromoethane	5.0	U	
75-25-2	Bromoform	5.0	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: VBLK02

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: CB277.D

Level (low/med): _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 9/9/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		5.0	U
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		10	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethyl Benzene		5.0	U
126777-61-2	m,p-Xylenes		5.0	U
95-47-6	o-Xylene		5.0	U
100-42-5	Styrene		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane		50	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U

BLANKS

Lab Name: Adirondack Environmental Contract: Ward Products

Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	Continuing Calibration Blank (ug/L)						Preparation Blank	
		1	2	3					
		C	C	C	C	C	C	C	M
Chromium	4.7 U	4.7 U	4.7 U	4.7 U			4.670 U	U	P

BLANKS

Lab Name: Adirondack Environmental Contract: Ward ProductsLab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1RPreparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	Continuing Calibration Blank (ug/L)						Preparation Blank	M
		1	2	3					
Chromium		4.7 U	4.7 U	4.7 U					P

U.S. EPA - CLP

3
BLANKS

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Preparation Blank Matrix:

Water

Preparation Blank Concentration Units:

ug/L

Analyte	Initial Calib. Blank(ug/L)	C	Continuing Calibration						Prep. Blank		Method
			1	C	2	C	3	C		C	
TKN as N											SM 4500 NH3 C
Ammonia, as N											EPA 350.1
Nitrate											SM 4500 N03 H
COD											EPA 410.4
BOD 5											SM 5210B
TOC											SM 5310C
TDS											SM 2540C
Sulfate											EPA 300.0
Alkalinity											SM 2320B
Total Phenols											EPA 420.1
Chloride											EPA 300.0
Bromide											EPA 300.0
Nitrite											SM 4500 N02 B
Specific Conductance											EPA 120.1
Cyanide											EPA 335.4
pH											SM 4500 H+ B
Turbidity											EPA 180.1
Color											SM 2120B
Hexavalent Chromium	20	U	20	U					20	U	SM 3500 CR D

Comments

FORM III - CONV

: 00007

U.S. EPA - CLP

3
BLANKS

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Preparation Blank Matrix:

Water

Preparation Blank Concentration Units:

ug/L

Analyte	Initial Calib. Blank(ug/L)	C	Continuing Calibration						Prep. Blank		Method
			1	C	2	C	3	C	C	C	
TKN as N											SM 4500 NH3 C
Ammonia, as N											EPA 350.1
Nitrate											SM 4500 NO3 H
COD											EPA 410.4
BOD 5											SM 5210B
TOC											SM 5310C
TDS											SM 2540C
Sulfate											EPA 300.0
Alkalinity											SM 2320B
Total Phenols											EPA 420.1
Chloride											EPA 300.0
Bromide											EPA 300.0
Nitrite											SM 4500 NO2 B
Specific Conductance											EPA 120.1
Cyanide											EPA 335.4
pH											SM 4500 H+ B
Turbidity											EPA 180.1
Color											SM 2120B
Hexavalent Chromium	20	U	20	U	20	U			20	U	SM 3500 CR D

Comments

FORM III - CONV

: 000000

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AES, Inc. Contract _____
 Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R
 Lab File ID: CS276.D Date Analyzed: 9/8/2011
 Instrument ID: MSVOAC Time Analyzed: 10:32
 GC Column: DB624 ID: 0.1 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	491015	4.95	390558	9.51	246962	12.56
UPPER LIMIT	982030	5.45	781116	10.01	493924	13.06
LOWER LIMIT	245508	4.45	195279	9.01	123481	12.06
SAMPLE NO.						
VSTD050	491015	4.95	390558	9.51	246962	12.56
VBLK01	879603	4.94	684966	9.51	325242	12.56
MW-1R	728062	4.94	585744	9.51	255594	12.57
MW-10	455635	4.96	364613	9.51	171111	12.57
Trip Blank Lot #2	844073	4.95	649321	9.51	286049	12.56
MW-13	786752	4.95	629152	9.51	285181	12.56
MW-19	646395	4.95	521266	9.51	237943	12.57
MW-14	751929	4.94	564303	9.51	252437	12.56
MW-16	536580	4.94	596499	9.51	280723	12.57
MW-15	784079	4.94	621776	9.51	288979	12.56
MW-20	453540	4.94	580371	9.52	258312	12.56
MW-18	516711	4.94	514794	9.51	239811	12.57
MW-11	577898	4.94	618778	9.52	270720	12.56
Trip Blank Lot #2	707692	4.95	574584	9.51	250753	12.57
MW-4	701137	4.94	538479	9.52	230119	12.56
MW-4R	749856	4.94	595578	9.52	261467	12.56
MW-Dup	787278	4.94	617098	9.51	262832	12.56
VMSB	856230	4.95	671369	9.51	304515	12.57

IS1 = 1,4-Difluorobenzene
 IS2 = Chlorobenzene-d5
 IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AES, Inc. Contract _____
 Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R
 Lab File ID: CS277.D Date Analyzed: 9/9/2011
 Instrument ID: MSVOAC Time Analyzed: 10:22
 GC Column: DB624 ID: 0.1 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	666448	4.95	566780	9.52	305218	12.56
UPPER LIMIT	1332896	5.45	1133560	10.02	610436	13.06
LOWER LIMIT	333224	4.45	283390	9.02	152609	12.06
SAMPLE NO.						
VSTD050	666448	4.95	566780	9.52	305218	12.56
VBK02	517892	4.96	480725	9.51	303543	12.57
MW-17	739417	4.95	572811	9.52	268283	12.56
MW-13MS	523638	4.95	510508	9.52	303133	12.56
MW-13MSD	829086	4.96	627934	9.52	290303	12.57

IS1 = 1,4-Difluorobenzene
 IS2 = Chlorobenzene-d5
 IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

SAMPLE DATA

PACKAGE



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Case Narrative

Client: AECOM/Westford – Ward Products

Case: AEC 1102

SDG: MW-1R

<u>Sample ID</u>	<u>Laboratory Sample ID</u>	<u>Date Received</u>	<u>VTSR</u>	<u>Matrix</u>
MW-1R	110830062-001	08/30/11	15:53	Water
MW-4	110830062-002	08/30/11	15:53	Water
MW-4R	110830062-003	08/30/11	15:53	Water
MW-10	110830062-004	08/30/11	15:53	Water
Trip Blank	110830062-005	08/30/11	15:53	Water
MW-13	110830062-006	09/01/11	08:15	Water
MW-19	110830062-007	09/01/11	08:15	Water
MW-14	110830062-008	09/01/11	08:15	Water
MW-16	110830062-009	09/01/11	08:15	Water
MW-15	110830062-010	09/01/11	08:15	Water
MW-20	110830062-011	09/01/11	08:15	Water
MW-17	110830062-012	09/01/11	08:15	Water
MW-18	110830062-013	09/01/11	08:15	Water
MW-11	110830062-014	09/01/11	08:15	Water
MW-DUP	110830062-015	09/01/11	08:15	Water
Trip Blank	110830062-016	09/01/11	08:15	Water

Volatile Organics

- 1) The samples were analyzed using EPA Method 8260 following the criteria for NYSDEC ASP.
- 2) The samples received on 8/30/11 had a temperature of 4 °C. The samples received on 9/1/11 had a temperature of 4 °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 for the compound 1,1,2,2-Tetrachloroethane in the initial calibration analyzed on 9/1/11 was outside the criteria established by the method. The %RSD for this compound was 23.3 %. The RRF's for the compounds 1,1,2,2-Tetrachloroethane and 1,2,4-Trichlorobenzene in the initial calibration analyzed on 9/1/11 were outside the criteria established by the method. The RRF's for these compounds were 0.203 and 0.104, 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 less than 40 % and the RRF was greater than 0.010 for these compounds.



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- 5) The %D for the compound Bromoform in the continuing calibration analyzed on 9/8/11 was outside the criteria established by the method. The %D for this compound was 27.22 %. The RRF's for the compounds 1,1,2,2-Tetrachloroethane and 1,2,4-Trichlorobenzene in the continuing calibration analyzed on 9/8/11 were outside the criteria established by the method. The RRF's for these compounds were 0.195 and 0.111, respectively. According to the protocol, two volatile organic compounds may exceed the %D limit of 25.0 % as long as the %D is less than 40 % and the RRF is above 0.010. The %D was less than 40 % and the RRF was greater than 0.010 for these compounds. None of these compounds were present in the samples.
- 6) The %D's for the compounds Bromomethane and Chloroethane in the continuing calibration analyzed on 9/9/11 were outside the criteria established by the method. The %D's for these compounds were 37.35 % and 40.98 %, respectively. The RRF's for the compounds 1,1,2,2-Tetrachloroethane and 1,2,4-Trichlorobenzene in the continuing calibration analyzed on 9/9/11 were outside the criteria established by the method. The RRF's for these compounds were 0.189 and 0.105, respectively. According to the protocol, two volatile organic compounds may exceed the %D limit of 25.0 % as long as the %D is less than 40 % and the RRF is above 0.010. The %D was less than 40 % and the RRF was greater than 0.010 for these compounds. None of these compounds were present in the samples.
- 7) Sample MW-13 (AES sample number 110830062-006) was used for the water matrix spike and the matrix spike duplicate analysis. Several of the recoveries in the matrix spike and matrix spike duplicate were outside required limits. According to the protocol, a matrix spike blank must be analyzed. A matrix spike blank was analyzed and all recoveries were within acceptable limits.
- 8) The method blanks, VBLK01 and VBLK02 analyzed on 9/8/11 and 9/9/11, respectively had the compounds Acetone and Methylene Chloride present. The levels present were within the acceptable range as specified by the protocol. Samples with these compounds present that are associated with these blanks are flagged with a "B" as required by the protocol.
- 9) The column used in Instrument C for analysis was a DB-624, 20 meters long with an internal diameter of 0.18 mm. The trap used for this instrument is a VOCARB 4000 with Carboxen C&B / Carboxen 1000 & 1001.

Inorganics – Total Metals

- 1) The samples were analyzed for Total Chromium only.



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- 2) The recovery for Aluminum, Calcium and Iron in the ICSA and the ICSAB check standards may be outside the required limit. The required concentration for these analytes in the check standards is 500,000 ug/L and 200,000 ug/L, respectively. The linear range on this instrument for Aluminum, Calcium and Iron is 250,000 ug/L, 200,000 ug/L and 80,000 ug/L, respectively. At this level accurate recovery of Aluminum, Calcium and Iron in the check standards is not possible. No further action is required.
- 3) Sample MW-13 (AES sample number 110830062-006) was used as the matrix spike and duplicate sample. All the recoveries were within acceptable limits.

Conventional

- 1) The samples were analyzed for Hexavalent Chromium only.
- 2) Sample MW-4R (AES sample number 110830062-003) was used as the matrix spike and matrix spike duplicate sample for Hexavalent Chromium. All the recoveries were within acceptable limits.
- 3) Sample MW-13 (AES sample number 110830062-006) was used as the matrix spike and matrix spike duplicate sample for Hexavalent Chromium. All the recoveries were within acceptable limits

"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."

A handwritten signature in black ink, appearing to read "L. Anderson", is written over a horizontal line.

Laboratory Manager

Date: 10/12/11

[illegible]



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CHAIN OF CUSTODY RECORD

AES Work Order # 110830062

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Client Name: AECOM	Address: 250 Apollo Dr.; Chelmsford, MA 01824		
Send Report To: Jen Atkins	Project Name (Location): Ward Products	Samplers: (Names) Greta White	
Client Phone No: 978-905-2100	Client Fax No: 978-905-2101	PD Number: 60206092.2	Samplers: (Signature) <i>[Signature]</i>

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
006	MW-13	8/31/11	1057	GW	✓		12	VOC ^s (826D)
007	MW-19		1220				4	Total Chromium
008	MW-14		1020				4	(6010);
009	MW-16		1157				4	hexachromium
010	MW-15		1528				4	(sm 3500 CRD)-
011	MW-20		1557				4	all locations
012	MW-17		1702				4	to be analyzed
013	MW-18		1800				4	for each - 0
014	MW-11		1857				4	MW-13 has
015	MW-Dup		-				4	extra volume for
016	~~Blank~~ Trip Blank		-				1	ms/msd sample
								Note: MW-11
								metals jar
								needs preservative

Shipment Arrived Via: FedEx UPS ☒ Client AES Other: _____		CC Report To / Special Instructions/Remarks: Send to Jennifer_atkins@aecom.com	
Turnaround Time Request: ☐ 1 Day ☐ 3 Day ☒ Normal ☐ 2 Day ☐ 5 Day			
Relinquished by: (Signature) <i>[Signature]</i>		Received by: (Signature) <i>[Signature]</i>	Date/Time 9/1/11 0814
Relinquished by: (Signature)		Received by: (Signature)	Date/Time
Relinquished by: (Signature)		Received for Laboratory by: <i>[Signature]</i>	Date/Time 9/1/11 8:15AM
TEMPERATURE Ambient or ☒ Chilled Notes: 4	PROPERLY PRESERVED ☒ Y ☐ N Notes: _____	RECEIVED WITHIN HOLDING TIMES ☒ Y ☐ N Notes: _____	

WHITE - Lab Copy

YELLOW - Sampler Copy

PINK - Generator Copy

Adirondack Environmental Services, Inc.

: 00056

Sample ID:	Action:	ActionDate:	ID:	NewLocation:	Purpose:
110830062-001A	Receiving	8/30/2011 4:23:05 PM	Log in		
110830062-001A	Logout	8/31/2011 8:20:00 AM	JR	Jeff Robinson	HEX_CHROME
110830062-001B	Receiving	8/30/2011 4:23:05 PM	Log in	SampleLogIn	
110830062-001B	Logout	9/8/2011 3:15:43 PM	WB	William Blom	3010A
110830062-001C	Receiving	8/30/2011 4:23:05 PM	Log in	Ref MS#1	
110830062-001C	Logout	9/8/2011 11:29:00 AM	ML	Michele LaPierre	EPA_8260_WATE
110830062-002A	Receiving	8/30/2011 4:30:19 PM	Log in	SampleLogIn	
110830062-002A	Logout	8/31/2011 8:20:00 AM	JR	Jeff Robinson	HEX_CHROME
110830062-002B	Receiving	8/30/2011 4:30:19 PM	Log in	SampleLogIn	
110830062-002B	Logout	9/8/2011 3:15:43 PM	WB	William Blom	3010A
110830062-002C	Receiving	8/30/2011 4:30:19 PM	Log in	Ref MS#1	
110830062-002C	Logout	9/8/2011 6:43:00 PM	ML	Michele LaPierre	EPA_8260_WATE
110830062-003A	Receiving	8/30/2011 4:30:19 PM	Log in	SampleLogIn	
110830062-003A	Logout	8/31/2011 8:20:00 AM	JR	Jeff Robinson	HEX_CHROME
110830062-003B	Receiving	8/30/2011 4:30:19 PM	Log in	SampleLogIn	
110830062-003B	Logout	9/8/2011 3:15:43 PM	WB	William Blom	3010A
110830062-003C	Receiving	8/30/2011 4:30:19 PM	Log in	Ref MS#1	
110830062-003C	Logout	9/8/2011 7:13:00 PM	ML	Michele LaPierre	EPA_8260_WATE
110830062-004A	Receiving	8/30/2011 4:30:19 PM	Log in	SampleLogIn	
110830062-004A	Logout	8/31/2011 8:20:00 AM	JR	Jeff Robinson	HEX_CHROME
110830062-004B	Receiving	8/30/2011 4:30:19 PM	Log in	SampleLogIn	
110830062-004B	Logout	9/8/2011 3:15:43 PM	WB	William Blom	3010A
110830062-004C	Receiving	8/30/2011 4:30:19 PM	Log in	Ref MS#1	
110830062-004C	Logout	9/8/2011 12:59:00 PM	ML	Michele LaPierre	EPA_8260_WATE
110830062-005A	Receiving	8/30/2011 4:30:37 PM	Log in	SampleLogin	
110830062-005A	Logout	9/8/2011 1:28:00 PM	ML	Michele LaPierre	EPA_8260_WATE
110830062-006A	Receiving	9/1/2011 9:07:38 AM	Log in	SampleLogin	
110830062-006A	Logout	9/1/2011 11:15:00 AM	JR	Jeff Robinson	HEX_CHROME
110830062-006B	Receiving	9/1/2011 9:07:59 AM	Log in	SampleLogIn	
110830062-006B	Logout	9/8/2011 3:15:43 PM	WB	William Blom	3010A
110830062-006C	Receiving	9/1/2011 9:08:00 AM	Log in	SampleLogIn	
110830062-006C	Logout	9/8/2011 1:56:00 PM	ML	Michele LaPierre	EPA_8260_WATE
110830062-007A	Receiving	9/1/2011 9:08:37 AM	Log in	SampleLogin	
110830062-007A	Logout	9/1/2011 11:15:00 AM	JR	Jeff Robinson	HEX_CHROME
110830062-007B	Receiving	9/1/2011 9:08:41 AM	Log in	SampleLogIn	
110830062-007B	Logout	9/8/2011 3:15:43 PM	WB	William Blom	3010A
110830062-007C	Receiving	9/1/2011 9:08:43 AM	Log in	SampleLogIn	
110830062-007C	Logout	9/8/2011 2:24:00 PM	ML	Michele LaPierre	EPA_8260_WATE
110830062-008A	Receiving	9/1/2011 9:12:11 AM	Log in	SampleLogIn	
110830062-008A	Logout	9/1/2011 11:15:00 AM	JR	Jeff Robinson	HEX_CHROME
110830062-008B	Receiving	9/1/2011 9:12:11 AM	Log in	SampleLogIn	
110830062-008B	Logout	9/8/2011 3:15:43 PM	WB	William Blom	3010A
110830062-008C	Receiving	9/1/2011 9:12:11 AM	Log in	Ref MS#1	
110830062-008C	Logout	9/8/2011 2:53:00 PM	ML	Michele LaPierre	EPA_8260_WATE
110830062-009A	Receiving	9/1/2011 9:12:11 AM	Log in	SampleLogIn	
110830062-009A	Logout	9/1/2011 11:15:00 AM	JR	Jeff Robinson	HEX_CHROME
110830062-009B	Receiving	9/1/2011 9:12:11 AM	Log in	SampleLogIn	
110830062-009B	Logout	9/8/2011 3:15:43 PM	WB	William Blom	3010A
110830062-009C	Receiving	9/1/2011 9:12:11 AM	Log in	Ref MS#1	
110830062-009C	Logout	9/8/2011 3:19:00 PM	ML	Michele LaPierre	EPA_8260_WATE
110830062-010A	Receiving	9/1/2011 9:12:11 AM	Log in	SampleLogIn	
110830062-010A	Logout	9/1/2011 11:15:00 AM	JR	Jeff Robinson	HEX_CHROME
110830062-010B	Receiving	9/1/2011 9:12:11 AM	Log in	SampleLogIn	
110830062-010B	Logout	9/8/2011 3:15:43 PM	WB	William Blom	3010A
110830062-010C	Receiving	9/1/2011 9:12:11 AM	Log in	Ref MS#1	
110830062-010C	Logout	9/8/2011 3:48:00 PM	ML	Michele LaPierre	EPA_8260_WATE

Sample ID:	Action:	ActionDate:	ID:	NewLocation:	Purpose:
110830062-011A	Receiving	9/1/2011 9:12:11 AM	Log in	SampleLogIn	
110830062-011A	Logout	9/1/2011 11:15:00 AM	JR	Jeff Robinson	HEX_CHROME
110830062-011B	Receiving	9/1/2011 9:12:11 AM	Log in	SampleLogIn	
110830062-011B	Logout	9/8/2011 3:15:43 PM	WB	William Blom	3010A
110830062-011C	Receiving	9/1/2011 9:12:11 AM	Log in	Ref MS#1	
110830062-011C	Logout	9/8/2011 4:17:00 PM	ML	Michele LaPierre	EPA_8260_WATE
110830062-012A	Receiving	9/1/2011 9:12:11 AM	Log in	SampleLogIn	
110830062-012A	Logout	9/1/2011 11:15:00 AM	JR	Jeff Robinson	HEX_CHROME
110830062-012B	Receiving	9/1/2011 9:12:11 AM	Log in	SampleLogIn	
110830062-012B	Logout	9/8/2011 3:15:43 PM	WB	William Blom	3010A
110830062-012C	Receiving	9/1/2011 9:12:11 AM	Log in	Ref MS#1	
110830062-012C	Logout	9/9/2011 11:18:00 AM	ML	Michele LaPierre	EPA_8260_WATE
110830062-013A	Receiving	9/1/2011 9:12:11 AM	Log in	SampleLogIn	
110830062-013A	Logout	9/1/2011 11:15:00 AM	JR	Jeff Robinson	HEX_CHROME
110830062-013B	Receiving	9/1/2011 9:12:11 AM	Log in	SampleLogIn	
110830062-013B	Logout	9/8/2011 3:15:43 PM	WB	William Blom	3010A
110830062-013C	Receiving	9/1/2011 9:12:11 AM	Log in	Ref MS#1	
110830062-013C	Logout	9/8/2011 5:15:00 PM	ML	Michele LaPierre	EPA_8260_WATE
110830062-014A	Receiving	9/1/2011 9:12:11 AM	Log in	SampleLogIn	
110830062-014A	Logout	9/1/2011 11:15:00 AM	JR	Jeff Robinson	HEX_CHROME
110830062-014B	Receiving	9/1/2011 9:12:11 AM	Log in	SampleLogIn	
110830062-014B	Logout	9/8/2011 3:15:43 PM	WB	William Blom	3010A
110830062-014C	Receiving	9/1/2011 9:12:11 AM	Log in	Ref MS#1	
110830062-014C	Logout	9/8/2011 5:44:00 PM	ML	Michele LaPierre	EPA_8260_WATE
110830062-015A	Receiving	9/1/2011 9:12:11 AM	Log in	SampleLogIn	
110830062-015A	Logout	9/1/2011 11:15:00 AM	JR	Jeff Robinson	HEX_CHROME
110830062-015B	Receiving	9/1/2011 9:12:11 AM	Log in	SampleLogIn	
110830062-015B	Logout	9/8/2011 3:15:43 PM	WB	William Blom	3010A
110830062-015C	Receiving	9/1/2011 9:12:11 AM	Log in	Ref MS#1	
110830062-015C	Logout	9/8/2011 8:12:00 PM	ML	Michele LaPierre	EPA_8260_WATE
110830062-016A	Receiving	9/1/2011 9:16:18 AM	Log in	SampleLogIn	
110830062-016A	Logout	9/8/2011 6:14:00 PM	ML	Michele LaPierre	EPA_8260_WATE

VOLATILE ORGANICS
ANALYSIS

QC
SUMMARY

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: AES, Inc. Contract: _____
 Lab Code: AES CASE No.: AEC1102 SAS No.: _____ SDG NO.: MW-1R

	EPA Sample NO.	SMC1 (DCE) #	SMC2 (TOL) #	SMC3 (BFB) #	SMC4	TOT OUT
01	VBLK01	92	94	95		0
02	MW-1R	83	96	91		0
03	MW-10	101	94	96		0
04	Trip Blank Lot #260	93	96	91		0
05	MW-13	93	93	93		0
06	MW-19	99	94	93		0
07	MW-14	81	90	91		0
08	MW-16	98	95	94		0
09	MW-15	98	90	93		0
10	MW-20	106	94	94		0
11	MW-18	91	90	93		0
12	MW-11	99	93	90		0
13	Trip Blank Lot #260	102	92	92		0
14	MW-4	93	95	91		0
15	MW-4R	98	95	91		0
16	MW-Dup	94	89	90		0
17	VMSB	94	95	92		0

QC LIMITS

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

Column to be used to flag recovery values
 * Values outside of contract required QC Limits

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: AES, Inc. Contract: _____

Lab Code: AES CASE No.: AEC1102 SAS No.: _____ SDG NO.: MW-1R

	EPA Sample NO.	SMC1 (DCE) #	SMC2 (TOL) #	SMC3 (BFB) #	SMC4	TOT OUT
18	VELK02	100	89	109		0
19	MW-17	96	93	92		0
20	MW-13MS	103	88	113		0
21	MW-13MSD	94	90	92		0

QC LIMITS

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

Column to be used to flag recovery values
 * Values outside of contract required QC Limits

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AES, Inc.

Contract: _____

Lab Code: AESCase No.: AEC1102

SAS No.: _____

SDG No.: MW-1RMatrix Spike - EPA Sample No: MW-13

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC#	QC LIMIT REC
1,1-Dichloroethene	250	0	250	100	(61-145)
Benzene	250	0	210	84	(76-127)
Trichloroethene	250	440	550	44*	(71-120)
Toluene	250	0	210	84	(76-125)
Chlorobenzene	250	0	260	104	(75-130)

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	% REC #	% RPD #	QC LIMITS RPD	REC
1,1-Dichloroethene	250	220	88	13	14	(61-145)
Benzene	250	240	96	13*	11	(76-127)
Trichloroethene	250	600	64*	37*	14	(71-120)
Toluene	250	250	100	17*	13	(76-125)
Chlorobenzene	250	240	96	8	13	(75-130)

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

* Values outside of QC limits

RPD: 3 out of 5 outside limitsSpike Recovery: 2 out of 10 outside limits

Comments: _____

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: AES, Inc. Contract: _____Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1RLaboratory Control Spike - EPA Sample No: VMSB

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
1,1-Dichloroethene	50		38	76	(61-145)
Benzene	50		49	98	(76-127)
Trichloroethene	50		49	98	(71-120)
Toluene	50		46	92	(76-125)
Chlorobenzene	50		45	90	(75-130)

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike 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.: AEC1102

SAS No.: _____ SDG NO.: MW-1R

Lab File ID: CB276.D

Lab Sample ID: VBLK01

Date Analyzed: 9/8/2011

Time Analyzed: 11:00

GC Column: DB624 ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOAC

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
MW-1R	110830062-001C	C3972.D	11:29
MW-10	110830062-004C	C3975.D	12:59
Trip Blank Lot #260	110830062-005A	C3976.D	13:28
MW-13	110830062-006C	C3977.D	13:56
MW-19	110830062-007C	C3978.D	14:24
MW-14	110830062-008C	C3979.D	14:53
MW-16	110830062-009C	C3980.D	15:19
MW-15	110830062-010C	C3981.D	15:48
MW-20	110830062-011C	C3982.D	16:17
MW-18	110830062-013C	C3984.D	17:15
MW-11	110830062-014C	C3985.D	17:44
Trip Blank Lot #260	110830062-016A	C3986.D	18:14
MW-4	110830062-002C	C3987.D	18:43
MW-4R	110830062-003C	C3988.D	19:13
MW-Dup	110830062-015C	C3990.D	20:12
VMSE	VMSE	C3993.D	21:39

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK02

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: AEC1102

SAS No.: _____ SDG NO.: MW-1R

Lab File ID: CB277.D

Lab Sample ID: VBLK02

Date Analyzed: 9/9/2011

Time Analyzed: 10:50

GC Column: DB624 ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOAC

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
MW-17	110830062-012C	C3995.D	11:18
MW-13MS	110830062-006CMS	C3996.D	11:46
MW-13MSD	110830062-006CMSD	C3997.D	12:13

COMMENTS: _____

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: AES, Inc.

Contract:

Lab Code: AES Case No.: AEC1102

SAS No.: _____

SDG NO.: MW-1R

Lab File ID: CT268.D

BFB Injection Date: 9/1/2011

Instrument ID: MSVOAC

BFB Injection Time: 09:41

GC Column: DB624 ID: 0.18 (mm)

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.1
75	30.0 - 60.0% of mass 95	43.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.4
173	Less than 2.0% of mass 174	1.9 (1.9) 1
174	50.0 - 100.0% of mass 95	99.7
175	5.0 - 9.0% of mass 174	5.8 (5.8) 1
176	95.0 - 101.0% of mass 174	98.8 (99.0) 1
177	5.0 - 9.0% of mass 176	7.4 (7.5) 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
VSTD050	VSTD050	CS268.D	9/1/2011	10:10
VSTD010	VSTD010	CS269.D	9/1/2011	10:37
VSTD005	VSTD005	CS270.D	9/1/2011	11:06
VSTD200	VSTD200	CS271.D	9/1/2011	11:34
VSTD100	VSTD100	CS272.D	9/1/2011	12:03

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)Lab Name: AES, Inc.

Contract:

Lab Code: AES Case No.: AEC1102

SAS No.: _____

SDG NO.: MW-1RLab File ID: CT276.DBFB Injection Date: 9/8/2011Instrument ID: MSVOACBFB Injection Time: 10:04GC Column: DB624 ID: 0.18 (mm)Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.6
75	30.0 - 60.0% of mass 95	45.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	93.8
175	5.0 - 9.0% of mass 174	7.9 (8.5) 1
176	95.0 - 101.0% of mass 174	93.4 (99.6) 1
177	5.0 - 9.0% of mass 176	7.1 (7.6) 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
VSTD050	VSTD050	CS276.D	9/8/2011	10:32
VBLK01	VBLK01	CB276.D	9/8/2011	11:00
MW-1R	110830062-001C	C3972.D	9/8/2011	11:29
MW-10	110830062-004C	C3975.D	9/8/2011	12:59
Trip Blank Lot #260	110830062-005A	C3976.D	9/8/2011	13:28
MW-13	110830062-006C	C3977.D	9/8/2011	13:56
MW-19	110830062-007C	C3978.D	9/8/2011	14:24
MW-14	110830062-008C	C3979.D	9/8/2011	14:53
MW-16	110830062-009C	C3980.D	9/8/2011	15:19
MW-15	110830062-010C	C3981.D	9/8/2011	15:48
MW-20	110830062-011C	C3982.D	9/8/2011	16:17
MW-18	110830062-013C	C3984.D	9/8/2011	17:15
MW-11	110830062-014C	C3985.D	9/8/2011	17:44
Trip Blank Lot #260	110830062-016A	C3986.D	9/8/2011	18:14
MW-4	110830062-002C	C3987.D	9/8/2011	18:43
MW-4R	110830062-003C	C3988.D	9/8/2011	19:13
MW-Dup	110830062-015C	C3990.D	9/8/2011	20:12
VMSE	VMSE	C3993.D	9/8/2011	21:39

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: AES, Inc.

Contract:

Lab Code: AES Case No.: AEC1102

SAS No.: _____ SDG NO.: MW-1R

Lab File ID: CT277.D

BFB Injection Date: 9/9/2011

Instrument ID: MSVOAC

BFB Injection Time: 09:55

GC Column: DB624 ID: 0.18 (mm)

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.6
75	30.0 - 60.0% of mass 95	38.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	94.9
175	5.0 - 9.0% of mass 174	5.5 (5.8) 1
176	95.0 - 101.0% of mass 174	92.4 (97.3) 1
177	5.0 - 9.0% of mass 176	6.2 (6.7) 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
VSTD050	VSTD050	CS277.D	9/9/2011	10:22
VBLK02	VBLK02	CB277.D	9/9/2011	10:50
MW-17	110830062-012C	C3995.D	9/9/2011	11:18
MW-13MS	110830062-006CMS	C3996.D	9/9/2011	11:46
MW-13MSD	110830062-006CMSD	C3997.D	9/9/2011	12:13

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AES, Inc. Contract _____
 Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R
 Lab File ID: CS276.D Date Analyzed: 9/8/2011
 Instrument ID: MSVOAC Time Analyzed: 10:32
 GC Column: DB624 ID: 0.1 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	491015	4.95	390558	9.51	246962	12.56
UPPER LIMIT	982030	5.45	781116	10.01	493924	13.06
LOWER LIMIT	245508	4.45	195279	9.01	123481	12.06
SAMPLE NO.						
VSTD050	491015	4.95	390558	9.51	246962	12.56
VBLK01	879603	4.94	684966	9.51	325242	12.56
MW-1R	728062	4.94	585744	9.51	255594	12.57
MW-10	455635	4.96	364613	9.51	171111	12.57
Trip Blank Lot #2	844073	4.95	649321	9.51	286049	12.56
MW-13	786752	4.95	629152	9.51	285181	12.56
MW-19	646395	4.95	521266	9.51	237943	12.57
MW-14	751929	4.94	564303	9.51	252437	12.56
MW-16	536580	4.94	596499	9.51	280723	12.57
MW-15	784079	4.94	621776	9.51	288979	12.56
MW-20	453540	4.94	580371	9.52	258312	12.56
MW-18	516711	4.94	514794	9.51	239811	12.57
MW-11	577898	4.94	618778	9.52	270720	12.56
Trip Blank Lot #2	707692	4.95	574584	9.51	250753	12.57
MW-4	701137	4.94	538479	9.52	230119	12.56
MW-4R	749856	4.94	595578	9.52	261467	12.56
MW-Dup	787278	4.94	617098	9.51	262832	12.56
VMSB	856230	4.95	671369	9.51	304515	12.57

IS1 = 1,4-Difluorobenzene
 IS2 = Chlorobenzene-d5
 IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AES, Inc. Contract _____
 Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R
 Lab File ID: CS277.D Date Analyzed: 9/9/2011
 Instrument ID: MSVOAC Time Analyzed: 10:22
 GC Column: DB624 ID: 0.1 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	666448	4.95	566780	9.52	305218	12.56
UPPER LIMIT	1332896	5.45	1133560	10.02	610436	13.06
LOWER LIMIT	333224	4.45	283390	9.02	152609	12.06
SAMPLE NO.						
VSTD050	666448	4.95	566780	9.52	305218	12.56
VBLK02	517892	4.96	480725	9.51	303543	12.57
MW-17	739417	4.95	572811	9.52	268283	12.56
MW-13MS	523638	4.95	510508	9.52	303133	12.56
MW-13MSD	829086	4.96	627934	9.52	290303	12.57

IS1 = 1,4-Difluorobenzene
 IS2 = Chlorobenzene-d5
 IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

Volatile Organics Water MDL - Instrument C

Date Performed:

5/13/2011

Analyte	Conc 1	Conc 2	Conc 3	Conc 4	Conc 5	Conc 6	Conc 7	Std Dev	MDL
Chloromethane	21.64	20.44	22.18	20.75	20.22	18.67	18.61	1.3569	4.26
Bromomethane	24.36	23.52	25.80	23.23	23.01	21.54	21.35	1.5491	4.87
Vinyl chloride	19.31	19.85	21.85	19.46	19.96	18.55	17.85	1.2586	3.96
Chloroethane	25.48	25.59	28.38	24.72	24.21	23.13	22.38	1.9532	6.14
Methylene chloride	14.54	13.37	14.00	13.48	14.12	13.69	13.17	0.4794	1.51
Acetone	23.46	22.70	19.10	19.01	19.06	19.89	17.15	2.2379	7.03
Carbon disulfide	8.59	8.05	8.59	7.20	7.66	7.88	7.40	0.5434	1.71
1,1-Dichloroethene	9.81	8.90	9.52	8.30	8.58	9.22	8.14	0.6259	1.97
1,1-Dichloroethane	10.36	9.72	9.99	8.81	9.10	9.68	9.23	0.5397	1.70
trans-1,2-Dichloroethene	9.72	9.54	10.18	8.69	9.37	9.71	8.92	0.5077	1.60
cis-1,2-Dichloroethene	9.83	9.52	9.85	8.41	9.09	9.67	8.73	0.5671	1.78
Chloroform	9.26	9.14	9.66	8.34	8.80	9.20	8.52	0.4597	1.44
1,2-Dichloroethane	10.35	9.72	10.10	8.88	9.15	9.70	8.96	0.5702	1.79
2-Butanone	21.44	17.72	19.22	17.60	18.26	17.48	17.04	1.5128	4.75
1,1,1-Trichloroethane	9.48	9.34	10.29	8.69	8.98	9.48	8.60	0.5778	1.82
Carbon tetrachloride	9.43	9.14	9.75	8.14	8.55	8.98	8.38	0.5827	1.83
Bromodichloromethane	9.18	9.07	9.90	8.26	8.51	9.07	8.04	0.6360	2.00
1,2-Dichloropropane	9.34	9.66	10.00	8.86	9.49	9.49	8.90	0.4059	1.28
cis-1,3-Dichloropropene	9.50	9.05	9.93	8.39	8.95	8.87	8.37	0.5635	1.77
Trichloroethene	9.43	9.14	10.48	8.63	9.06	9.56	8.75	0.6206	1.95
Dibromochloromethane	9.54	9.66	10.32	8.73	9.46	9.68	8.43	0.6332	1.99
1,1,2-Trichloroethane	9.90	9.66	10.39	9.06	9.32	9.94	8.32	0.6817	2.14
Benzene	9.93	9.44	10.08	8.88	9.26	9.52	9.05	0.4384	1.38
trans-1,3-Dichloropropene	9.11	9.23	9.56	8.16	8.54	8.77	8.12	0.5473	1.72
Bromoform	9.34	9.70	10.07	8.45	8.95	9.01	8.29	0.6411	2.01
4-Methyl-2-pentanone	18.40	17.89	18.16	16.06	17.23	16.90	17.03	0.8192	2.57
2-Hexanone	17.61	18.95	19.50	16.32	18.31	19.26	16.44	1.3053	4.10
Tetrachloroethene	9.30	9.41	10.28	8.83	9.18	9.61	8.78	0.5103	1.60
1,1,2,2-Tetrachloroethane	9.98	9.72	10.68	9.71	9.93	10.47	9.52	0.4246	1.33
Toluene	9.60	9.45	10.28	8.78	9.37	9.55	8.83	0.5081	1.60
Chlorobenzene	9.98	9.79	10.49	8.85	9.31	9.70	9.06	0.5658	1.78
Ethylbenzene	9.88	9.71	10.66	8.77	9.34	9.61	8.63	0.6904	2.17
Styrene	9.98	9.55	10.33	8.64	9.16	9.48	8.96	0.5840	1.84
m,p-Xylene	20.18	19.53	20.77	17.63	18.50	19.30	17.86	1.1718	3.68
o-Xylene	9.85	9.56	10.22	8.58	9.17	9.89	8.84	0.6008	1.89
Methyl tert-butyl ether	21.12	19.47	20.85	17.96	19.13	19.50	17.75	1.2874	4.05
Dichlorodifluoromethane	19.04	17.98	21.80	18.71	19.20	18.49	17.14	1.4530	4.57
Methyl Acetate	18.32	17.02	17.54	15.59	16.27	8.93	15.38	3.1135	9.79
1,1,2-Trichloro-1,2,2-trifluoroethane	8.75	8.67	10.46	8.21	8.58	9.00	9.00	0.7174	2.25
Cyclohexane	9.28	8.55	9.69	8.08	8.51	9.11	8.06	0.6214	1.95
Trichlorofluoromethane	20.56	18.79	21.54	19.27	19.23	18.65	17.34	1.3616	4.28
Methyl Cyclohexane	9.23	8.35	9.74	7.84	8.41	9.24	7.74	0.7642	2.40
1,2-Dibromomethane	9.76	9.25	10.37	8.38	9.48	9.36	8.47	0.6988	2.20
1,3-Dichlorobenzene	10.98	10.64	11.34	9.63	10.14	10.76	9.69	0.6521	2.05
Isopropylbenzene	9.96	9.57	10.43	8.59	9.13	9.76	8.72	0.6716	2.11
1,2-Dichlorobenzene	10.12	10.74	11.16	9.46	10.01	10.11	9.74	0.5806	1.82
1,4-Dichlorobenzene	11.04	10.89	11.40	9.85	10.30	10.32	9.69	0.6331	1.99
1,2,4-Trichlorobenzene	16.34	8.73	10.75	7.17	8.55	10.94	7.95	3.0968	9.73

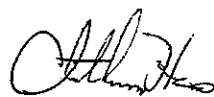
Volatile Organics Water MDL - Instrument C

Date Performed:

5/13/2011

Analyte	Conc 1	Conc 2	Conc 3	Conc 4	Conc 5	Conc 6	Conc 7	Std Dev	MDL
1,1,1,2-Tetrachloroethane	9.59	9.90	10.40	8.98	9.52	10.08	9.07	0.5189	1.63
1,2,3-Trichlorobenzene	12.62	6.60	7.44	5.82	7.34	7.23	6.68	2.2511	7.08
1,2,3-Trichloropropane	10.39	10.71	11.28	10.19	10.60	10.84	9.97	0.4348	1.37
1,2,4-Trimethylbenzene	10.67	10.29	11.07	9.19	9.88	10.49	9.39	0.6860	2.16
1,3,5-Trimethylbenzene	10.67	10.21	11.02	8.91	9.68	10.50	9.42	0.7513	2.36
1,3-Dichloropropane	9.84	9.61	10.50	9.30	9.43	10.04	8.95	0.5117	1.61
1,4-Dioxane	196.71	179.60	151.19	209.01	169.99	157.51	167.29	20.8201	65.44
2,2-Dichloropropane	10.23	9.56	9.54	8.37	8.48	9.06	7.91	0.8138	2.56
2-Chloroethyl vinyl ether	8.17	9.65	9.97	9.22	9.62	10.01	8.49	0.7208	2.27
2-Chlorotoluene	9.72	11.25	10.00	8.58	8.96	11.15	9.03	1.0612	3.34
4-Chlorotoluene	10.88	10.36	10.98	9.31	10.00	10.64	9.63	0.6356	2.00
4-Isopropyltoluene	11.00	10.13	11.08	8.92	9.58	10.55	9.35	0.8365	2.63
Acetonitrile	98.27	85.77	90.53	83.38	84.48	87.33	79.97	5.9146	18.59
Acrolein	44.38	42.17	39.69	34.91	36.28	40.61	36.57	3.4574	10.87
Acrylonitrile	40.71	39.46	39.65	34.77	36.90	38.90	35.67	2.2390	7.04
Allyl chloride	9.83	8.58	9.05	8.34	8.45	8.73	8.00	0.5910	1.86
Bromobenzene	10.67	10.40	11.19	9.59	9.80	10.68	9.47	0.6472	2.03
Bromochloromethane	10.48	9.66	10.02	9.33	9.70	9.48	9.24	0.4300	1.35
Dibromomethane	9.65	9.26	10.19	9.12	9.21	9.57	8.46	0.5349	1.68
Ethyl methacrylate	8.34	8.84	9.33	8.33	8.35	8.67	7.56	0.5467	1.72
Heptane	9.84	7.72	9.40	7.50	8.39	9.38	8.81	0.8905	2.80
Hexachlorobutadiene	11.62	3.85	4.91	3.21	4.70	9.55	4.65	3.1953	10.04
Hexane	10.46	8.62	9.59	7.98	8.56	9.63	8.31	0.8877	2.79
Iodomethane	6.85	7.05	7.16	6.22	6.68	6.98	6.28	0.3714	1.17
Isobutyl Alcohol	82.66	195.03	165.72	189.67	193.65	200.19	148.84	41.9316	131.79
Methacrylonitrile	102.57	92.62	94.99	87.21	88.72	92.51	85.05	5.8209	18.30
Methyl methacrylate	9.07	8.36	8.90	7.83	8.41	8.74	7.90	0.4773	1.50
Naphthalene	13.49	5.88	5.83	5.98	5.23	5.73	4.95	3.0059	9.45
n-Butylbenzene	10.85	9.88	10.74	8.63	9.59	10.48	9.30	0.8175	2.57
n-Propylbenzene	11.53	9.67	11.87	9.38	10.41	10.36	9.81	0.9446	2.97
Propionitrile	99.46	92.43	91.11	82.61	89.83	92.46	85.83	5.3654	16.86
sec-Butylbenzene	11.03	10.02	10.95	8.80	9.66	10.47	9.20	0.8542	2.68
tert-Butylbenzene	10.92	10.08	11.24	8.98	10.05	10.53	9.49	0.7892	2.48
Vinyl acetate	10.98	9.02	10.16	8.61	9.08	9.88	7.94	1.0251	3.22

Reviewed by QA Manager:



Date:

5/23/11

SAMPLE

DATA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-1R

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-001C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3972.D

Level (low/med): _____ Date Received: 8/30/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane		10	U
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		5.0	U
75-35-4	1,1-Dichloroethene		5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-tri		5.0	U
75-15-0	Carbon disulfide		5.0	U
67-64-1	Acetone		15	B
79-20-9	Methyl Acetate		5.0	U
75-09-2	Methylene Chloride		7.2	B
156-60-5	trans-1,2-Dichloroethene		5.0	U
1634-04-4	Methyl tert-butyl Ether		5.0	U
75-34-3	1,1-Dichloroethane		5.0	U
156-59-2	cis-1,2-Dichloroethene		5.0	U
74-97-5	Bromochloromethane		5.0	U
67-66-3	Chloroform		5.0	U
110-82-7	Cyclohexane		5.0	U
107-06-2	1,2-Dichloroethane		5.0	U
78-93-3	2-Butanone		10	U
108-87-2	Methyl Cyclohexane		5.0	U
71-55-6	1,1,1-Trichloroethane		5.0	U
56-23-5	Carbon Tetrachloride		5.0	U
71-43-2	Benzene		5.0	U
79-01-6	Trichloroethene		93	
78-87-5	1,2-Dichloropropane		5.0	U
75-27-4	Bromodichloromethane		5.0	U
10061-01-5	cis-1,3-Dichloropropene		5.0	U
10061-02-6	trans-1,3-Dichloropropene		5.0	U
79-00-5	1,1,2-Trichloroethane		5.0	U
124-48-1	Dibromochloromethane		5.0	U
106-93-4	1,2-Dibromoethane		5.0	U
75-25-2	Bromoform		5.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-1R

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER

Lab Sample ID: 110830062-001C

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: C3972.D

Level (low/med): _____

Date Received: 8/30/11

% Moisture: not dec. 100

Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		5.0	U
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		10	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethyl Benzene		5.0	U
126777-61-2	m,p-Xylenes		5.0	U
95-47-6	o-Xylene		5.0	U
100-42-5	Styrene		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane		50	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\110908\C3972.D

Vial: 4

Acq On : 8 Sep 2011 11:29

Operator:

Sample : 110830062-001C

Inst : GCMS-C

Misc : SAMP EPA_8260_WATER

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 9 11:38 2011

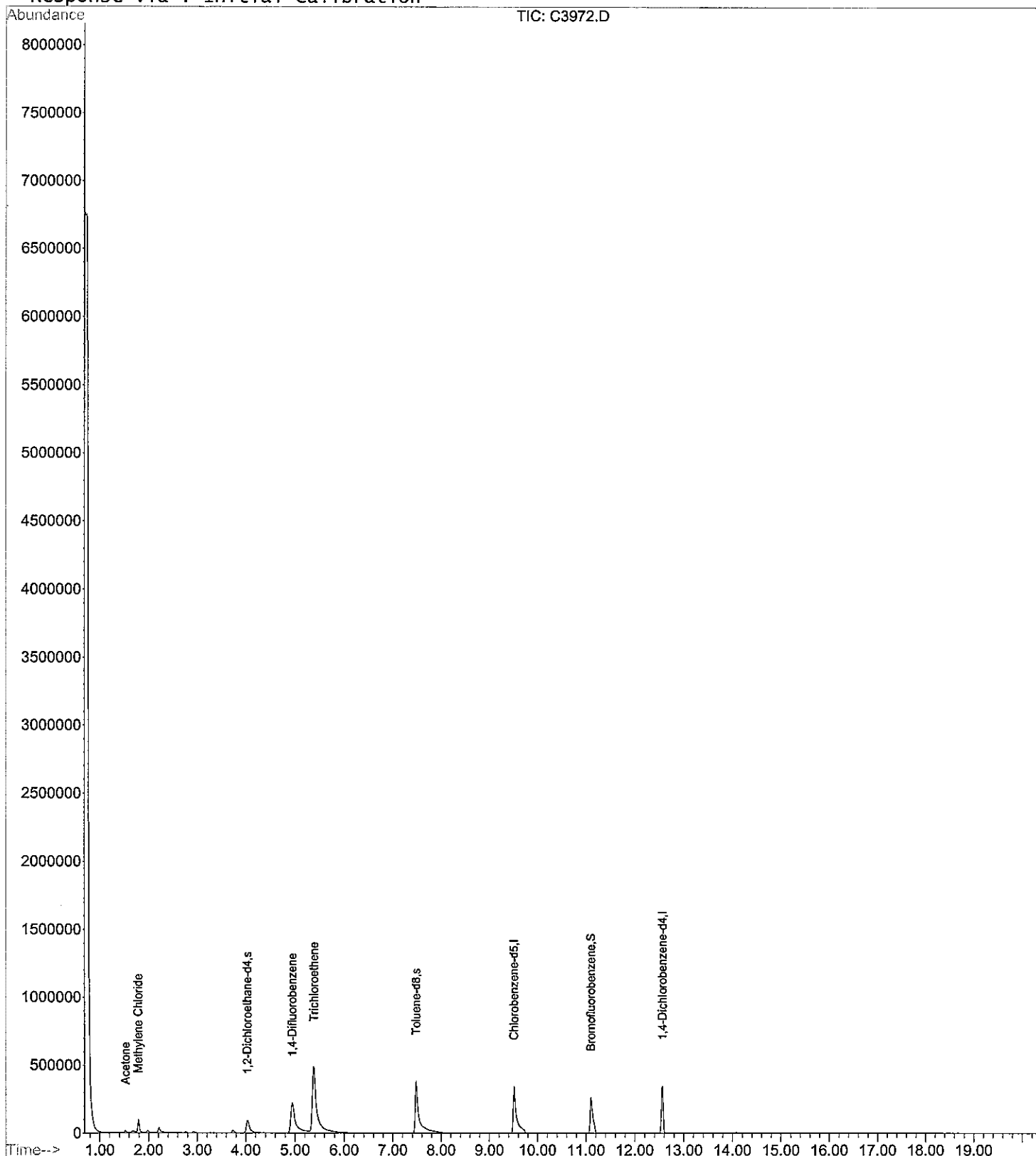
Quant Results File: CLP.RES

Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration

Last Update : Fri Sep 02 11:53:44 2011

Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\110908\C3972.D

Vial: 4

Acq On : 8 Sep 2011 11:29

Operator:

Sample : 110830062-001C

Inst : GCMS-C

Misc : SAMP EPA_8260_WATER

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 9 11:38 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration

Last Update : Fri Sep 02 11:53:44 2011

Response via : Initial Calibration

DataAcq Meth : METHOC

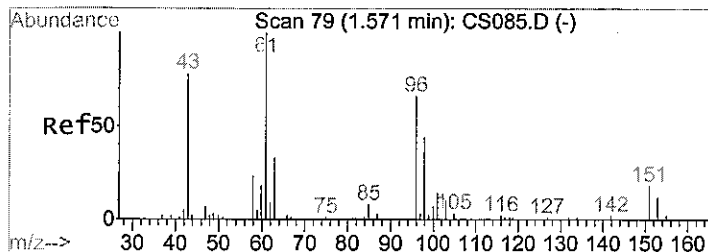
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.94	114	728062m	50.00	ug	0.00
37) Chlorobenzene-d5	9.51	117	585744	50.00	ug	0.00
71) 1,4-Dichlorobenzene-d4	12.57	150	255594	50.00	ug	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	4.03	65	179190m	41.55	ug	0.00
58) Toluene-d8	7.48	98	827178	48.22	ug	0.00
69) Bromofluorobenzene	11.10	176	191045	45.35	ug	0.00
Target Compounds						
13) Acetone	1.53	43	19857	15.23	ug	Qvalue # 46
16) Methylene chloride	1.79	49	59059	7.25	ug	# 95
44) Trichloroethene	5.38	130	580083	92.51	ug	# 57

(#) = qualifier out of range (m) = manual integration

C3972.D CLP.M Tue Sep 13 14:26:18 2011

Page 1

: 00118



#13

Acetone

Concen: 15.23 ug

RT: 1.53 min Scan# 75

Delta R.T. 0.00 min

Lab File: C3972.D

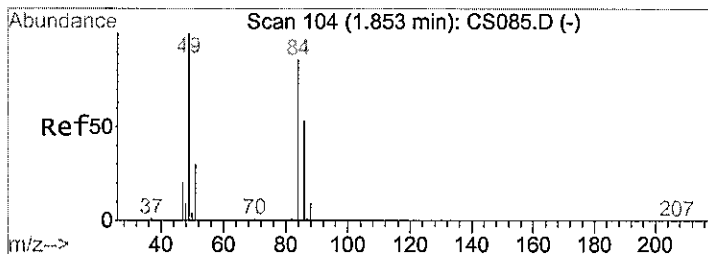
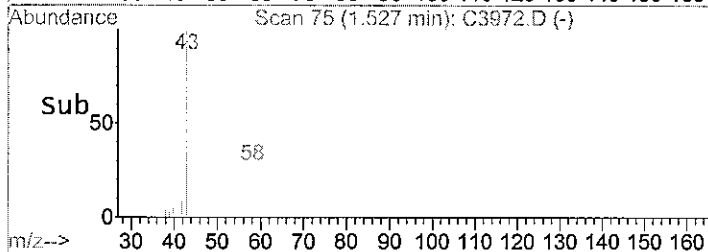
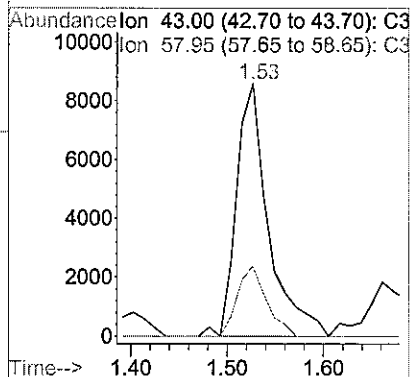
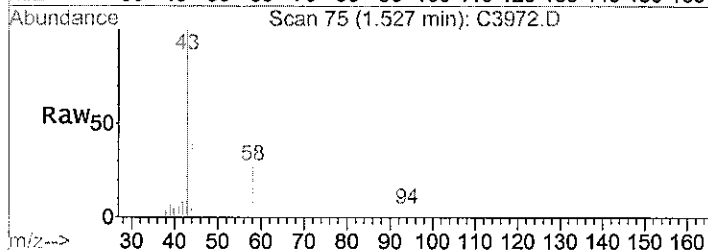
Acq: 8 Sep 2011 11:29

Tgt Ion: 43 Resp: 19857

Ion Ratio Lower Upper

43 100

58 25.2 5.4 8.2#



#16

Methylene Chloride

Concen: 7.25 ug

RT: 1.79 min Scan# 98

Delta R.T. 0.00 min

Lab File: C3972.D

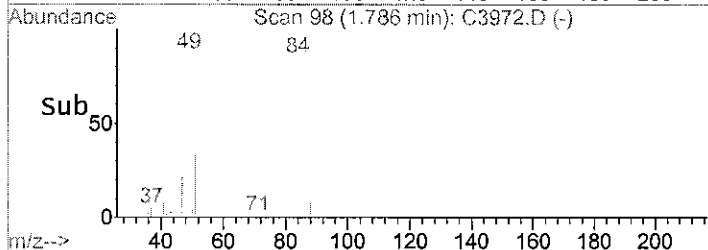
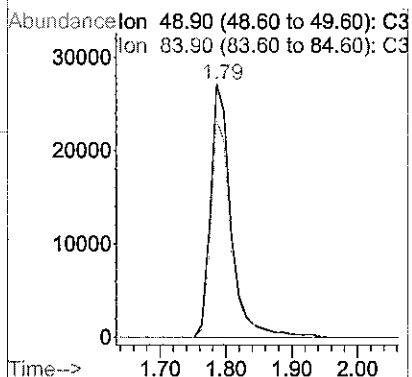
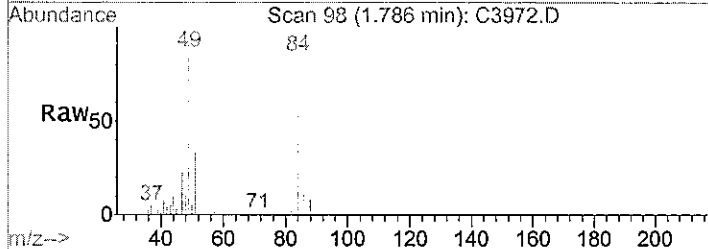
Acq: 8 Sep 2011 11:29

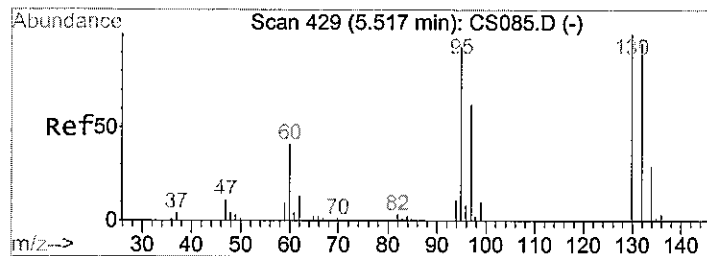
Tgt Ion: 49 Resp: 59059

Ion Ratio Lower Upper

49 100

84 83.7 70.9 106.3





#44

Trichloroethene

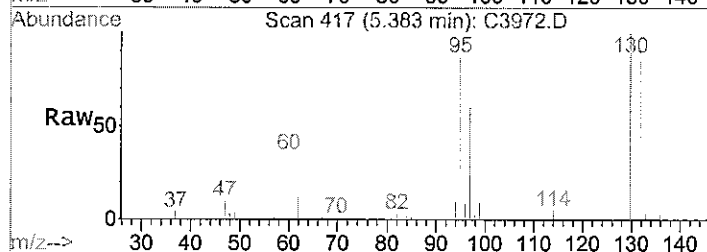
Concen: 92.51 ug

RT: 5.38 min Scan# 417

Delta R.T. 0.00 min

Lab File: C3972.D

Acq: 8 Sep 2011 11:29



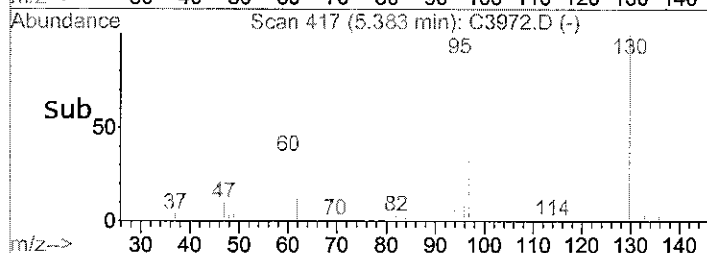
Tgt Ion:130 Resp: 580083

Ion Ratio Lower Upper

130 100

95 90.7 85.8 128.8

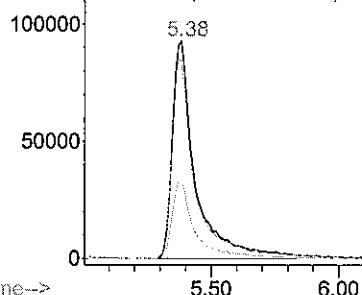
60 36.0 87.8 131.6#



Abundance Ion 129.95 (129.65 to 130.65):

Ion 94.95 (94.65 to 95.65): C3

Ion 59.95 (59.65 to 60.65): C3



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES

Case No.: AEC1102

SAS No.: _____

SDG No.: _____

MW-1R

Matrix (soil/water): WATER

Lab Sample ID: 110830062-002C

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: C3987.D

Level (low/med): _____

Date Received: 8/30/11

% Moisture: not dec. 100

Date Analyzed: 9/8/11

GC Column: DB624

ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane		10	U
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		5.0	U
75-35-4	1,1-Dichloroethene		5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-tri		5.0	U
75-15-0	Carbon disulfide		5.0	U
67-64-1	Acetone		12	B
79-20-9	Methyl Acetate		5.0	U
75-09-2	Methylene Chloride		8.4	B
156-60-5	trans-1,2-Dichloroethene		5.0	U
1634-04-4	Methyl tert-butyl Ether		5.0	U
75-34-3	1,1-Dichloroethane		5.0	U
156-59-2	cis-1,2-Dichloroethene		2.2	J
74-97-5	Bromochloromethane		5.0	U
67-66-3	Chloroform		5.0	U
110-82-7	Cyclohexane		5.0	U
107-06-2	1,2-Dichloroethane		5.0	U
78-93-3	2-Butanone		10	U
108-87-2	Methyl Cyclohexane		5.0	U
71-55-6	1,1,1-Trichloroethane		5.0	U
56-23-5	Carbon Tetrachloride		5.0	U
71-43-2	Benzene		5.0	U
79-01-6	Trichloroethene		160	
78-87-5	1,2-Dichloropropane		5.0	U
75-27-4	Bromodichloromethane		5.0	U
10061-01-5	cis-1,3-Dichloropropene		5.0	U
10061-02-6	trans-1,3-Dichloropropene		5.0	U
79-00-5	1,1,2-Trichloroethane		5.0	U
124-48-1	Dibromochloromethane		5.0	U
106-93-4	1,2-Dibromoethane		5.0	U
75-25-2	Bromoform		5.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-002C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3987.D

Level (low/med): _____ Date Received: 8/30/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		5.0	U
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		10	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethyl Benzene		5.0	U
126777-61-2	m,p-Xylenes		5.0	U
95-47-6	o-Xylene		5.0	U
100-42-5	Styrene		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane		50	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U

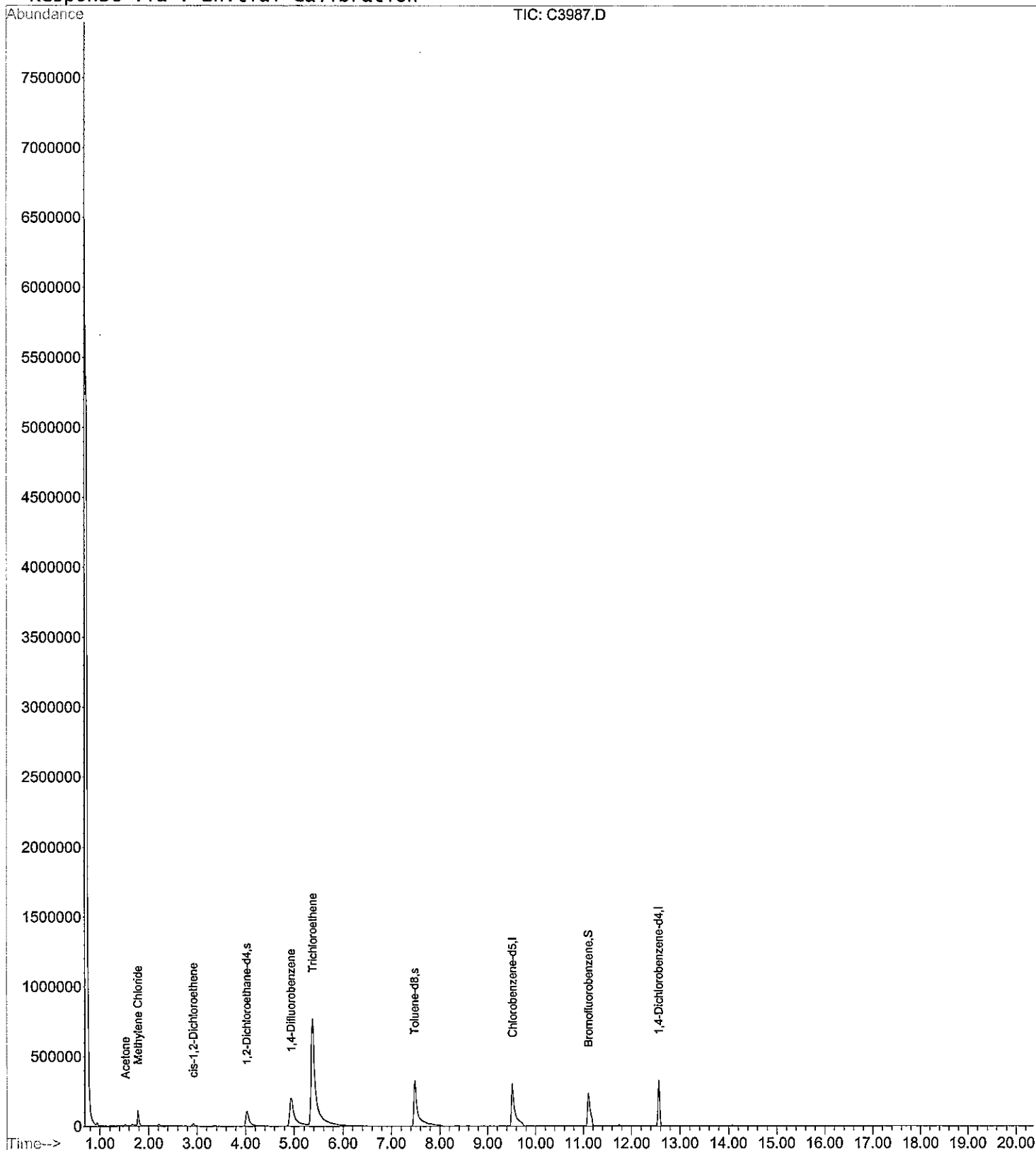
Quantitation Report

Data File : C:\HPCHEM\1\DATA\110908\C3987.D
 Acq On : 8 Sep 2011 18:43
 Sample : 110830062-002C
 Misc : SAMP EPA_8260_WATER
 MS Integration Params: LSCINT.P
 Quant Time: Sep 9 11:44 2011

Vial: 19
 Operator:
 Inst : GCMS-C
 Multiplr: 1.00

Quant Results File: CLP.RES

Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
 Title : Voa NBL Plus Calibration
 Last Update : Fri Sep 02 11:53:44 2011
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\110908\C3987.D

Vial: 19

Acq On : 8 Sep 2011 18:43

Operator:

Sample : 110830062-002C

Inst : GCMS-C

Misc : SAMP EPA_8260_WATER

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 9 11:44 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

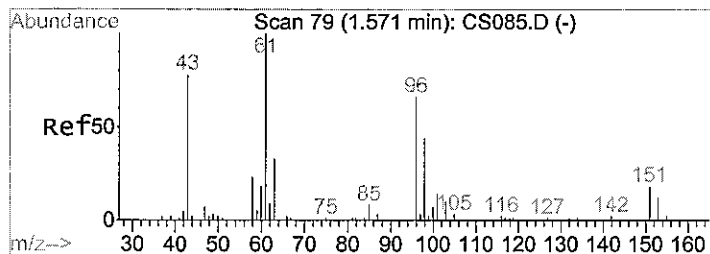
Title : Voa NBL Plus Calibration

Last Update : Fri Sep 02 11:53:44 2011

Response via : Initial Calibration

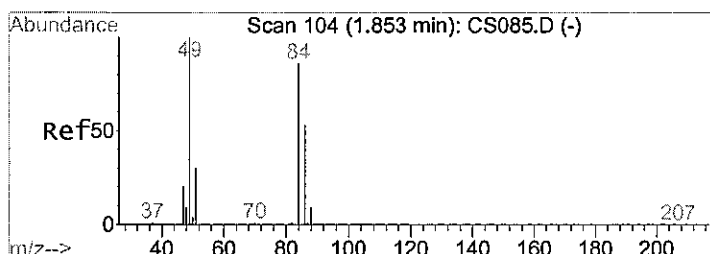
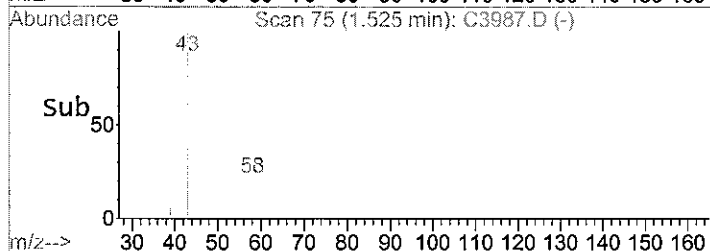
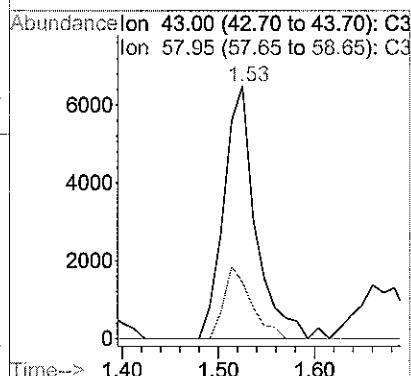
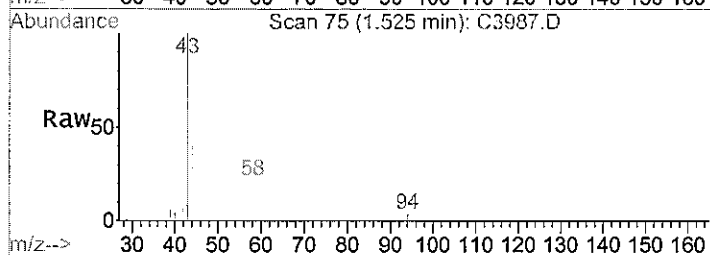
DataAcq Meth : METH0C

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.94	114	701137	50.00	ug	0.00
37) Chlorobenzene-d5	9.52	117	538479	50.00	ug	0.01
71) 1,4-Dichlorobenzene-d4	12.56	150	230119	50.00	ug	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	4.03	65	193503	46.59	ug	-0.01
58) Toluene-d8	7.48	98	745319	47.26	ug	-0.01
69) Bromofluorobenzene	11.11	176	176095	45.47	ug	0.00
Target Compounds						qvalue
13) Acetone	1.53	43	15054	11.99	ug	# 49
16) Methylene Chloride	1.78	49	65666	8.37	ug	93
24) cis-1,2-Dichloroethene	2.92	61	18292	2.24	ug	95
44) Trichloroethene	5.38	130	935080	162.21	ug	# 57



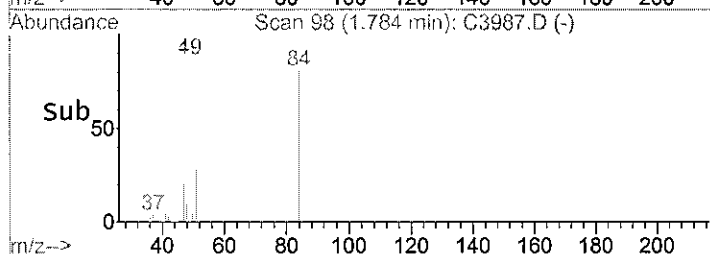
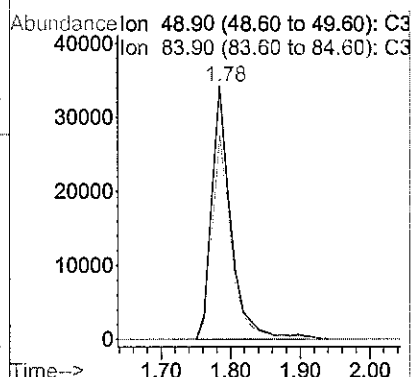
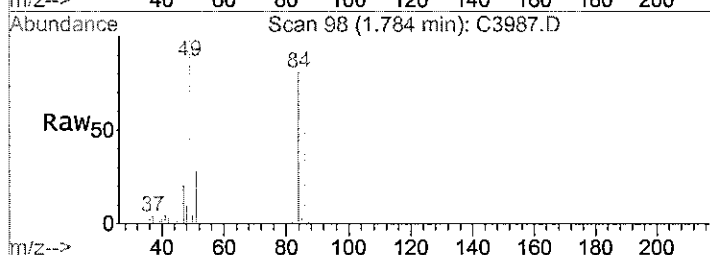
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Acetone
Concen: 11.99 ug
RT: 1.53 min Scan# 75
Delta R.T. 0.00 min
Lab File: C3987.D
Acq: 8 Sep 2011 18:43

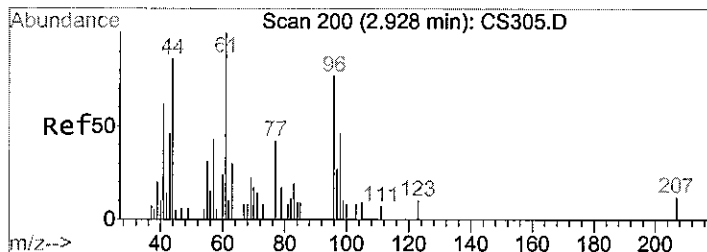
Tgt Ion: 43 Resp: 15054
Ion Ratio Lower Upper
43 100
58 24.2 5.4 8.2#



#16
Methylene Chloride
Concen: 8.37 ug
RT: 1.78 min Scan# 98
Delta R.T. 0.00 min
Lab File: C3987.D
Acq: 8 Sep 2011 18:43

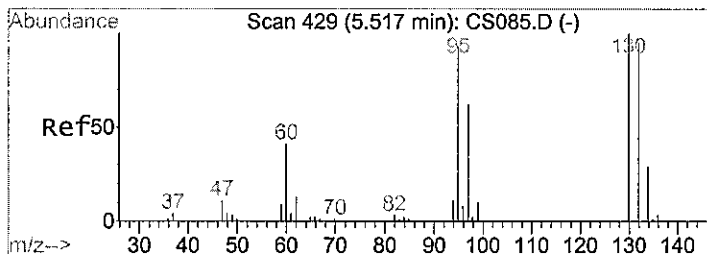
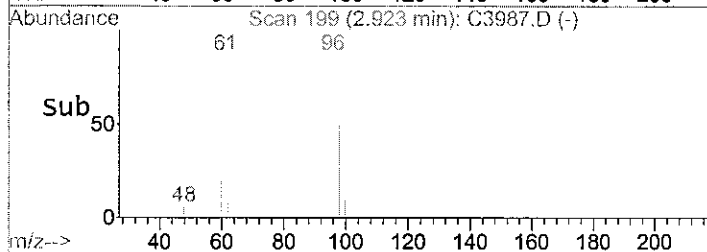
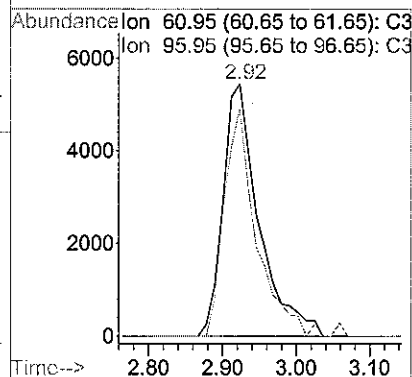
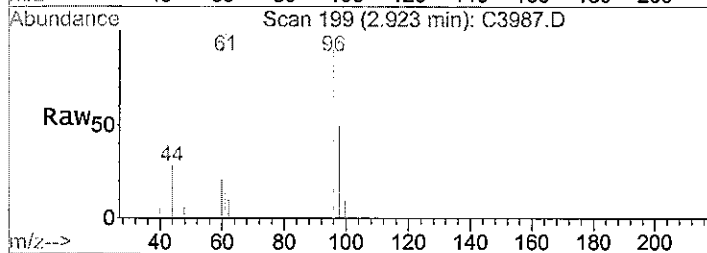
Tgt Ion: 49 Resp: 65666
Ion Ratio Lower Upper
49 100
84 81.9 70.9 106.3





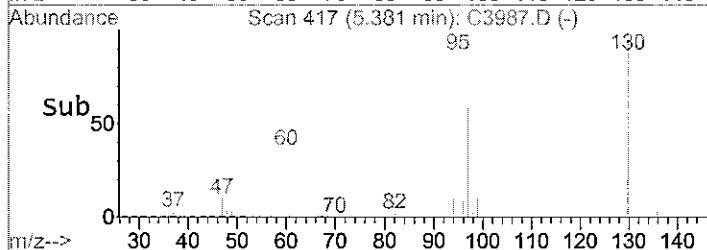
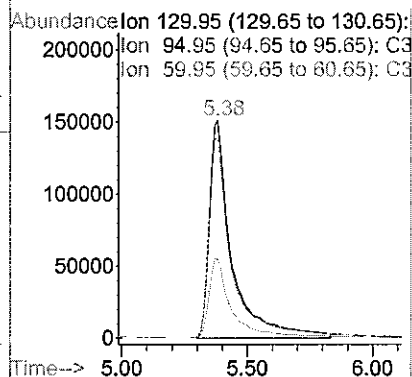
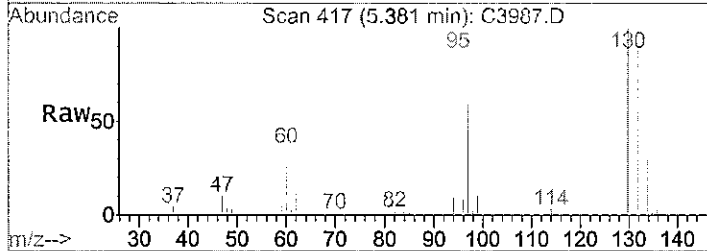
#24
 cis-1,2-Dichloroethene
 Concen: 2.24 ug
 RT: 2.92 min Scan# 199
 Delta R.T. 0.00 min
 Lab File: C3987.D
 Acq: 8 Sep 2011 18:43

Tgt Ion: 61 Resp: 18292
 Ion Ratio Lower Upper
 61 100
 96 81.4 61.7 92.5



#44
 Trichloroethene
 Concen: 162.21 ug
 RT: 5.38 min Scan# 417
 Delta R.T. 0.00 min
 Lab File: C3987.D
 Acq: 8 Sep 2011 18:43

Tgt Ion: 130 Resp: 935080
 Ion Ratio Lower Upper
 130 100
 95 92.5 85.8 128.8
 60 35.4 87.8 131.6#



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4R

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-003C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3988.D

Level (low/med): _____ Date Received: 8/30/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 500.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	5000	U	
74-87-3	Chloromethane	5000	U	
75-01-4	Vinyl chloride	5000	U	
74-83-9	Bromomethane	5000	U	
75-00-3	Chloroethane	5000	U	
75-69-4	Trichlorofluoromethane	2500	U	
75-35-4	1,1-Dichloroethene	2500	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	2500	U	
75-15-0	Carbon disulfide	2500	U	
67-64-1	Acetone	3000	JB	
79-20-9	Methyl Acetate	2500	U	
75-09-2	Methylene Chloride	5400	B	
156-60-5	trans-1,2-Dichloroethene	2500	U	
1634-04-4	Methyl tert-butyl Ether	2500	U	
75-34-3	1,1-Dichloroethane	2500	U	
156-59-2	cis-1,2-Dichloroethene	2500	U	
74-97-5	Bromochloromethane	2500	U	
67-66-3	Chloroform	2500	U	
110-82-7	Cyclohexane	2500	U	
107-06-2	1,2-Dichloroethane	2500	U	
78-93-3	2-Butanone	5000	U	
108-87-2	Methyl Cyclohexane	2500	U	
71-55-6	1,1,1-Trichloroethane	2500	U	
56-23-5	Carbon Tetrachloride	2500	U	
71-43-2	Benzene	2500	U	
79-01-6	Trichloroethene	47000		
78-87-5	1,2-Dichloropropane	2500	U	
75-27-4	Bromodichloromethane	2500	U	
10061-01-5	cis-1,3-Dichloropropene	2500	U	
10061-02-6	trans-1,3-Dichloropropene	2500	U	
79-00-5	1,1,2-Trichloroethane	2500	U	
124-48-1	Dibromochloromethane	2500	U	
106-93-4	1,2-Dibromoethane	2500	U	
75-25-2	Bromoform	2500	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-4R

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-003C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3988.D

Level (low/med): _____ Date Received: 8/30/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 500.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone	5000	U	
108-88-3	Toluene	2500	U	
127-18-4	Tetrachloroethene	1200	J	
591-78-6	2-Hexanone	5000	U	
108-90-7	Chlorobenzene	2500	U	
100-41-4	Ethyl Benzene	2500	U	
126777-61-2	m,p-Xylenes	2500	U	
95-47-6	o-Xylene	2500	U	
100-42-5	Styrene	2500	U	
98-82-8	Isopropylbenzene	2500	U	
79-34-5	1,1,2,2-Tetrachloroethane	2500	U	
541-73-1	1,3-Dichlorobenzene	2500	U	
106-46-7	1,4-Dichlorobenzene	2500	U	
95-50-1	1,2-Dichlorobenzene	2500	U	
96-12-8	1,2-Dibromo-3-Chloropropane	25000	U	
120-82-1	1,2,4-Trichlorobenzene	2500	U	

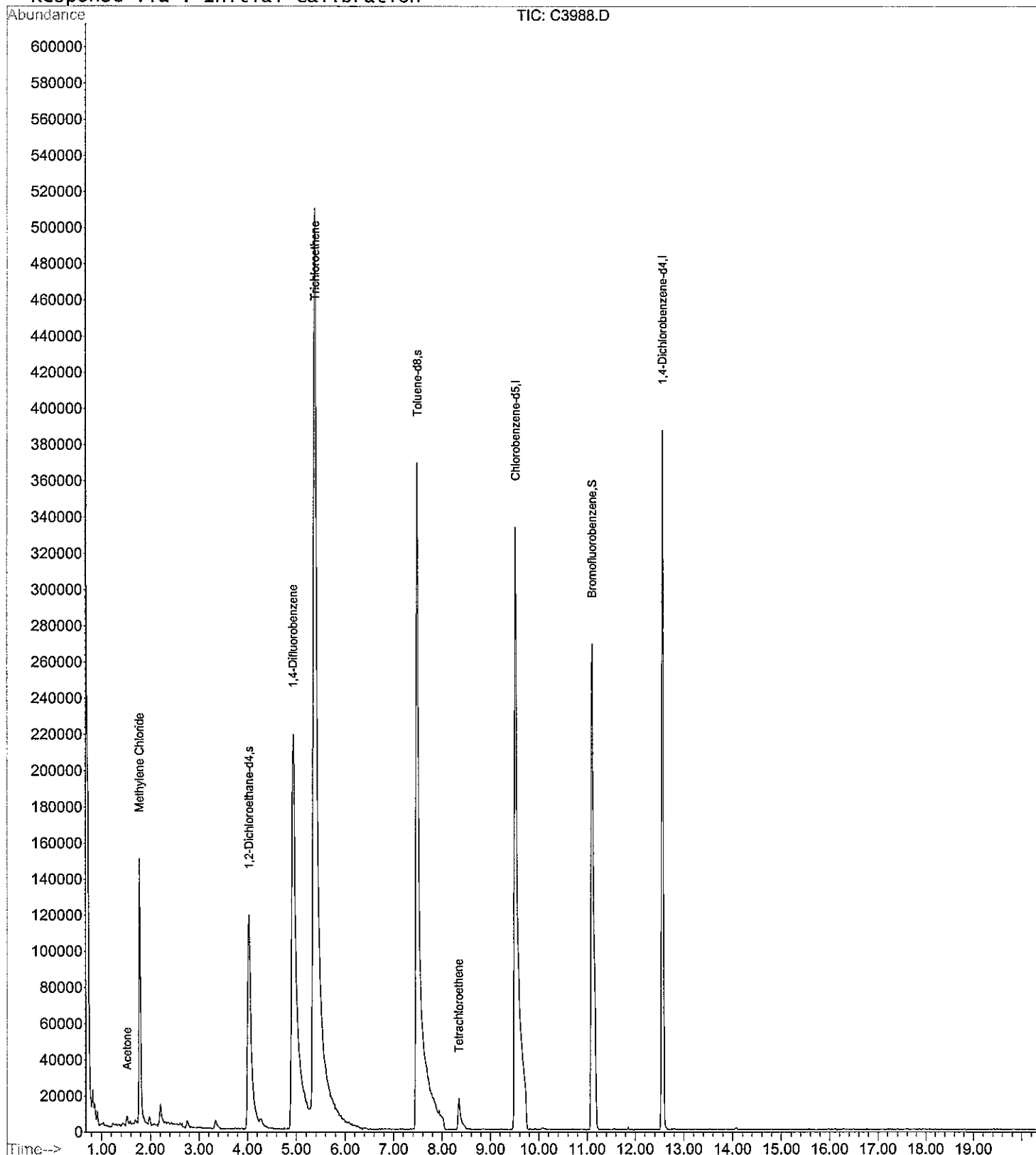
Quantitation Report

Data File : C:\HPCHEM\1\DATA\110908\C3988.D
 Acq On : 8 Sep 2011 19:13
 Sample : 110830062-003C
 Misc : SAMP EPA_8260_WATER
 MS Integration Params: LSCINT.P
 Quant Time: Sep 9 11:44 2011

Vial: 20
 Operator:
 Inst : GCMS-C
 Multiplr: 1.00

Quant Results File: CLP.RES

Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
 Title : Voa NBL Plus Calibration
 Last Update : Fri Sep 02 11:53:44 2011
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\110908\C3988.D

Vial: 20

Acq On : 8 Sep 2011 19:13

Operator:

Sample : 110830062-003C

Inst : GCMS-C

Misc : SAMP EPA_8260_WATER

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 9 11:44 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration

Last Update : Fri Sep 02 11:53:44 2011

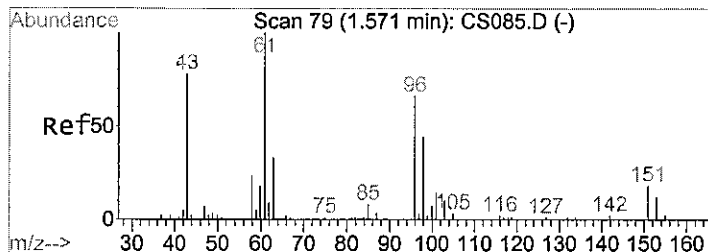
Response via : Initial Calibration

DataAcq Meth : METH0C

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.94	114	749856	50.00	ug	0.00
37) Chlorobenzene-d5	9.52	117	595578	50.00	ug	0.01
71) 1,4-Dichlorobenzene-d4	12.56	150	261467	50.00	ug	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	4.04	65	216665	48.78	ug	0.00
58) Toluene-d8	7.49	98	826366	47.37	ug	0.00
69) Bromofluorobenzene	11.11	176	194889	45.49	ug	0.00
Target Compounds						Qvalue
13) Acetone	1.52	43	7970	5.94	ug	# 45
16) Methylene Chloride	1.78	49	91278	10.88	ug	93
44) Trichloroethene	5.38	130	603097	94.59	ug	# 57
60) Tetrachloroethene	8.35	164	11285	2.45	ug	92

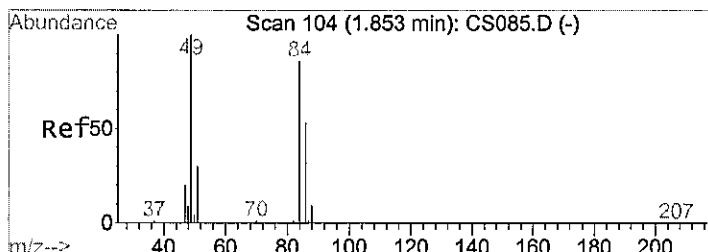
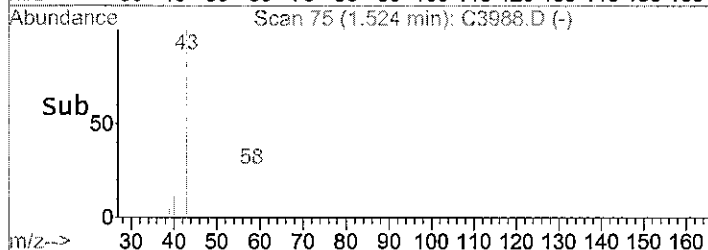
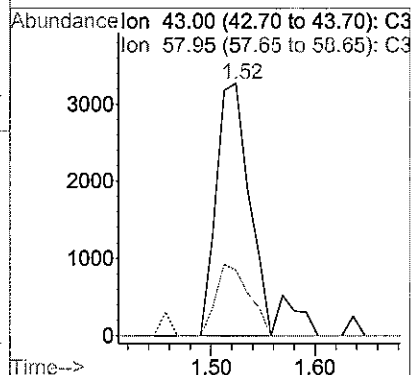
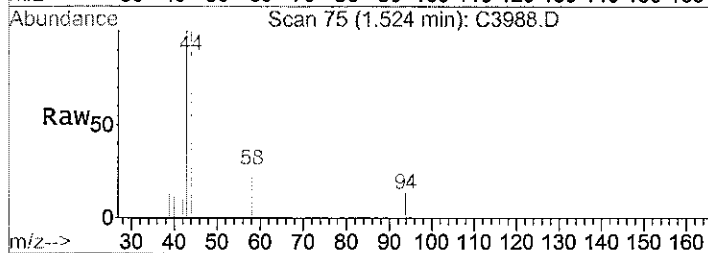
(#) = qualifier out of range (m) = manual integration

C3988.D CLP.M Tue Sep 13 14:28:52 2011



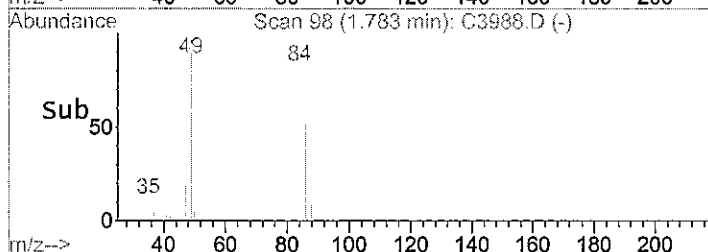
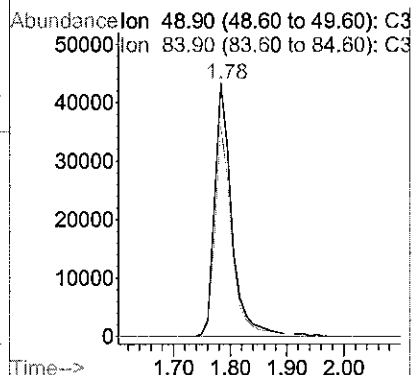
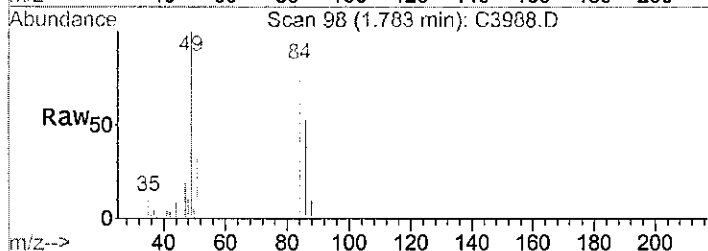
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Acetone
Concen: 5.94 ug
RT: 1.52 min Scan# 75
Delta R.T. -0.00 min
Lab File: C3988.D
Acq: 8 Sep 2011 19:13

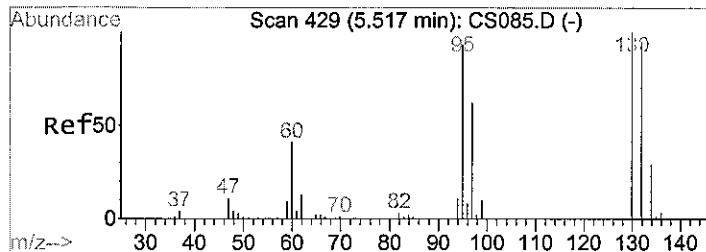
Tgt Ion: 43 Resp: 7970
Ion Ratio Lower Upper
43 100
58 25.8 5.4 8.2#



#16
Methylene Chloride
Concen: 10.88 ug
RT: 1.78 min Scan# 98
Delta R.T. -0.00 min
Lab File: C3988.D
Acq: 8 Sep 2011 19:13

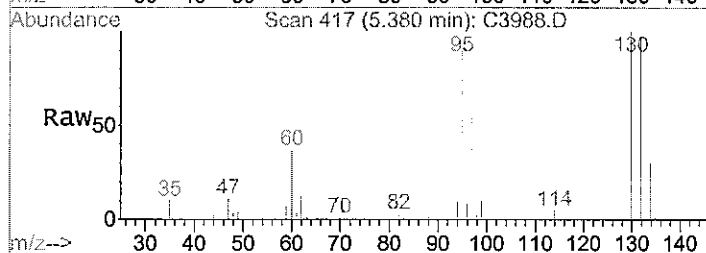
Tgt Ion: 49 Resp: 91278
Ion Ratio Lower Upper
49 100
84 82.5 70.9 106.3





#44
Trichloroethene
Concen: 94.59 ug
RT: 5.38 min Scan# 417
Delta R.T. -0.00 min
Lab File: C3988.D
Acq: 8 Sep 2011 19:13

Tgt Ion	Ratio	Lower	Upper
130	100		
95	90.4	85.8	128.8
60	35.9	87.8	131.6#

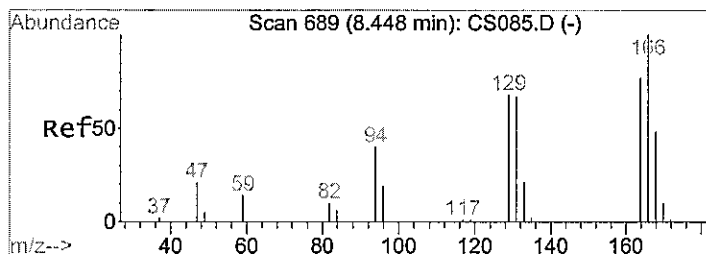
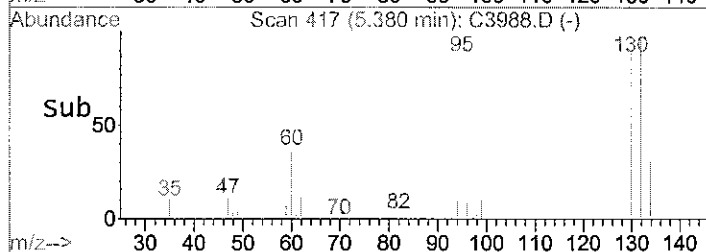
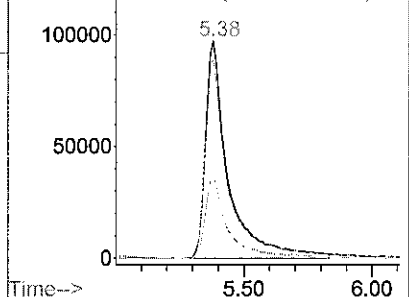


Abundance

Ion 129.95 (129.65 to 130.65):

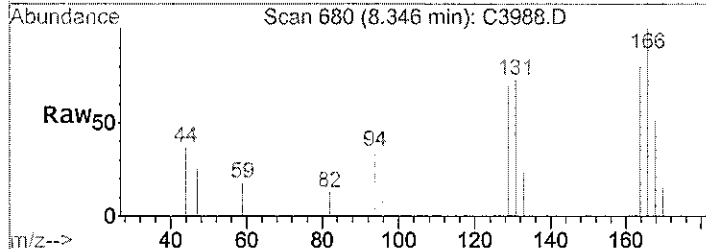
Ion 94.95 (94.65 to 95.65): C3

Ion 59.95 (59.65 to 60.65): C3



#60
Tetrachloroethene
Concen: 2.45 ug
RT: 8.35 min Scan# 680
Delta R.T. -0.00 min
Lab File: C3988.D
Acq: 8 Sep 2011 19:13

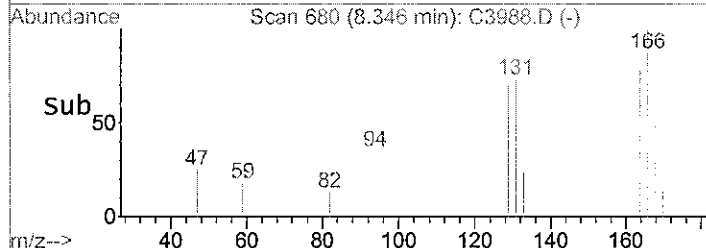
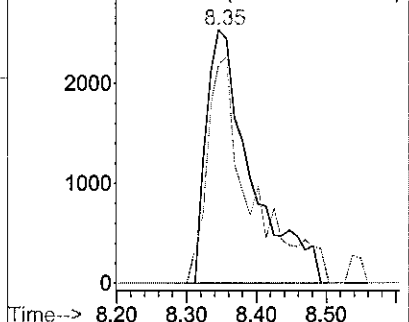
Tgt Ion	Ratio	Lower	Upper
164	100		
129	80.6	70.2	105.4



Abundance

Ion 163.95 (163.65 to 164.65):

Ion 128.95 (128.65 to 129.65):



VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-10

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: AEC1102

SAS No.:

SDG No.:

MW-1R

Matrix (soil/water): WATER

Lab Sample ID: 110830062-004C

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: C3975.D

Level (low/med):

Date Received: 8/30/11

% Moisture: not dec. 100

Date Analyzed: 9/8/11

GC Column: DB624

ID: 0.18 (mm)

Dilution Factor: 10.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane		100	U
74-87-3	Chloromethane		100	U
75-01-4	Vinyl chloride		100	U
74-83-9	Bromomethane		100	U
75-00-3	Chloroethane		100	U
75-69-4	Trichlorofluoromethane		50	U
75-35-4	1,1-Dichloroethene		50	U
76-13-1	1,1,2-Trichloro-1,2,2-tri		50	U
75-15-0	Carbon disulfide		50	U
67-64-1	Acetone		100	JB
79-20-9	Methyl Acetate		50	U
75-09-2	Methylene Chloride		98	B
156-60-5	trans-1,2-Dichloroethene		50	U
1634-04-4	Methyl tert-butyl Ether		50	U
75-34-3	1,1-Dichloroethane		50	U
156-59-2	cis-1,2-Dichloroethene		50	U
74-97-5	Bromochloromethane		50	U
67-66-3	Chloroform		50	U
110-82-7	Cyclohexane		50	U
107-06-2	1,2-Dichloroethane		50	U
78-93-3	2-Butanone		100	U
108-87-2	Methyl Cyclohexane		50	U
71-55-6	1,1,1-Trichloroethane		50	U
56-23-5	Carbon Tetrachloride		50	U
71-43-2	Benzene		50	U
79-01-6	Trichloroethene		940	
78-87-5	1,2-Dichloropropane		50	U
75-27-4	Bromodichloromethane		50	U
10061-01-5	cis-1,3-Dichloropropene		50	U
10061-02-6	trans-1,3-Dichloropropene		50	U
79-00-5	1,1,2-Trichloroethane		50	U
124-48-1	Dibromochloromethane		50	U
106-93-4	1,2-Dibromoethane		50	U
75-25-2	Bromoform		50	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-10

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1RMatrix (soil/water): WATERLab Sample ID: 110830062-004CSample wt/vol: 5.0 (g/mL) mlLab File ID: C3975.D

Level (low/med): _____

Date Received: 8/30/11% Moisture: not dec. 100Date Analyzed: 9/8/11GC Column: DB624 ID: 0.18 (mm)Dilution Factor: 10.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

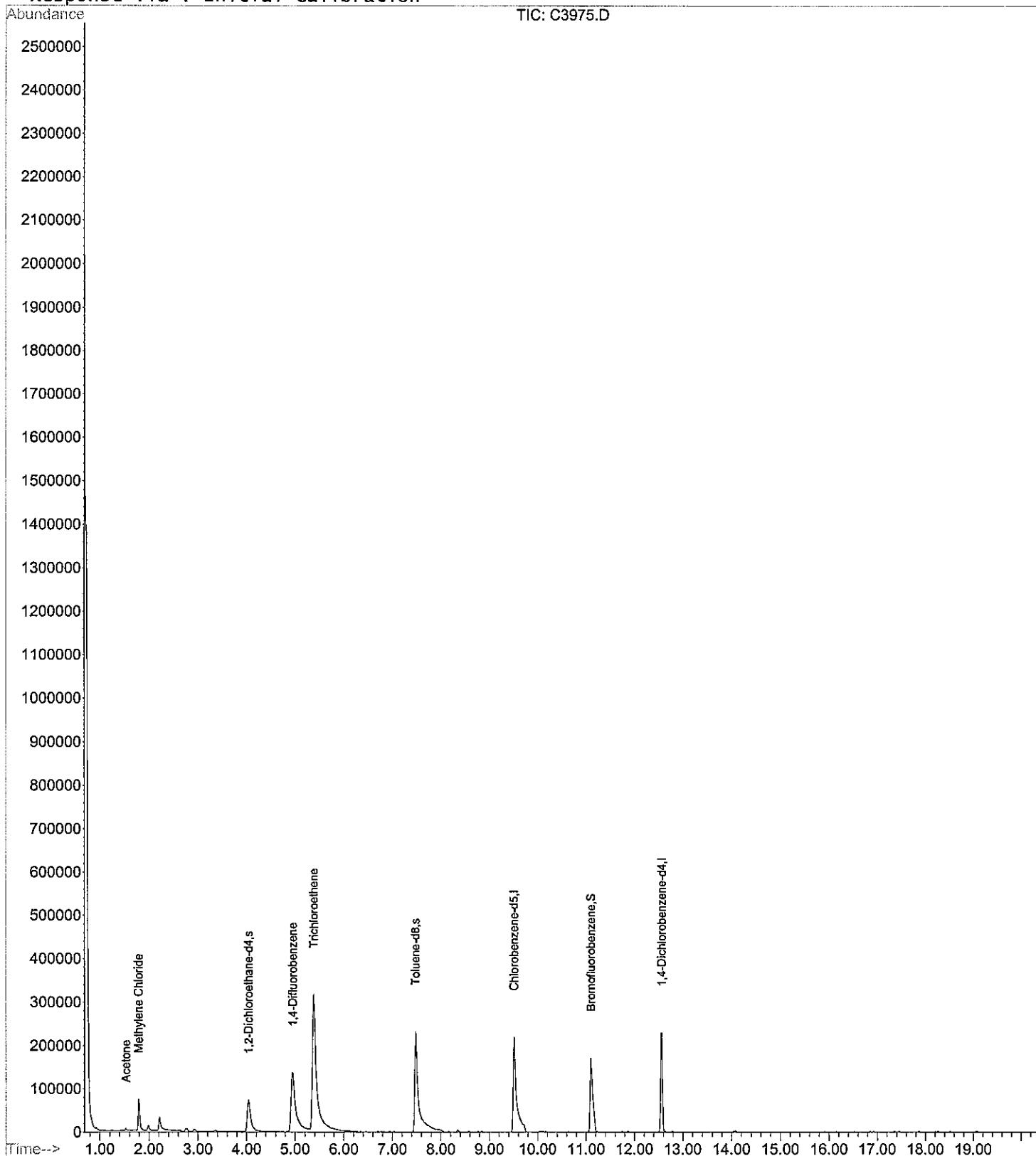
CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		100	U
108-88-3	Toluene		50	U
127-18-4	Tetrachloroethene		50	U
591-78-6	2-Hexanone		100	U
108-90-7	Chlorobenzene		50	U
100-41-4	Ethyl Benzene		50	U
126777-61-2	m,p-Xylenes		50	U
95-47-6	o-Xylene		50	U
100-42-5	Styrene		50	U
98-82-8	Isopropylbenzene		50	U
79-34-5	1,1,2,2-Tetrachloroethane		50	U
541-73-1	1,3-Dichlorobenzene		50	U
106-46-7	1,4-Dichlorobenzene		50	U
95-50-1	1,2-Dichlorobenzene		50	U
96-12-8	1,2-Dibromo-3-Chloropropane		500	U
120-82-1	1,2,4-Trichlorobenzene		50	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\110908\C3975.D vial: 7
 Acq On : 8 Sep 2011 12:59 Operator:
 Sample : 110830062-004C Inst : GCMS-C
 Misc : SAMP EPA_8260_WATER Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Sep 9 11:39 2011 Quant Results File: CLP.RES

Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
 Title : Voa NBL Plus Calibration
 Last Update : Fri Sep 02 11:53:44 2011
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\110908\C3975.D

Vial: 7

Acq On : 8 Sep 2011 12:59

Operator:

Sample : 110830062-004C

Inst : GCMS-C

Misc : SAMP EPA_8260_WATER

Multiplier: 1.00

MS Integration Params: LSCINT.P

Quant Results File: CLP.RES

Quant Time: Sep 9 11:39 2011

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

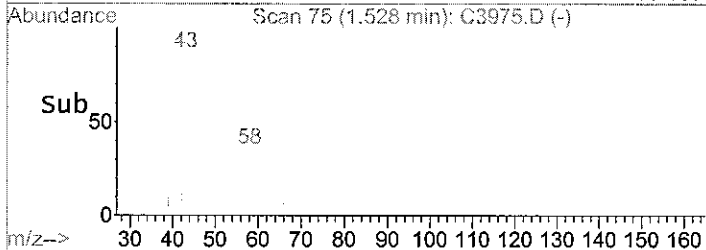
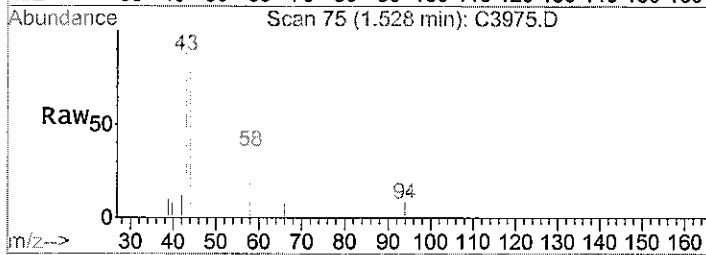
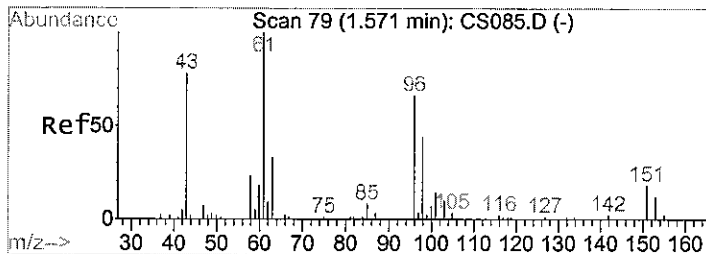
Title : VoA NBL Plus Calibration

Last Update : Fri Sep 02 11:53:44 2011

Response via : Initial Calibration

DataAcq Meth : METH0C

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.96	114	455635	50.00	ug	0.02
37) Chlorobenzene-d5	9.51	117	364613	50.00	ug	0.00
71) 1,4-Dichlorobenzene-d4	12.57	150	171111	50.00	ug	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	4.04	65	136269	50.49	ug	0.00
58) Toluene-d8	7.48	98	499736	46.80	ug	0.00
69) Bromofluorobenzene	11.10	176	126496	48.23	ug	0.00
Target Compounds						Qvalue
13) Acetone	1.53	43	8152	9.99	ug	# 55
16) Methylene Chloride	1.79	49	49736	9.76	ug	# 88
44) Trichloroethene	5.38	130	367370	94.12	ug	# 58



#13

Acetone

Concen: 9.99 ug

RT: 1.53 min Scan# 75

Delta R.T. 0.00 min

Lab File: C3975.D

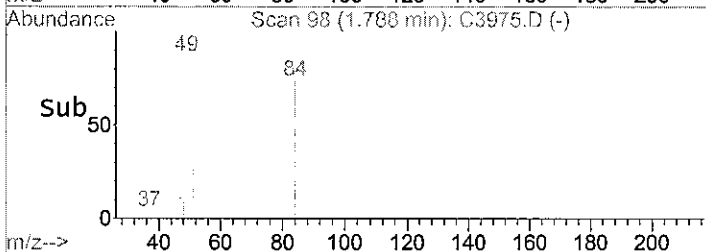
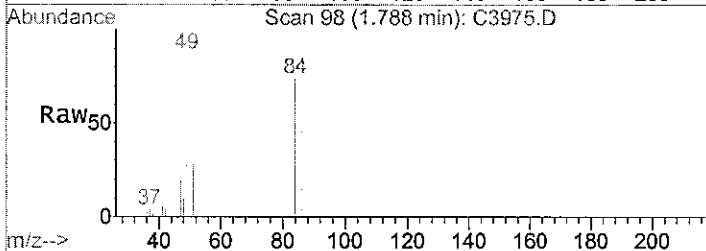
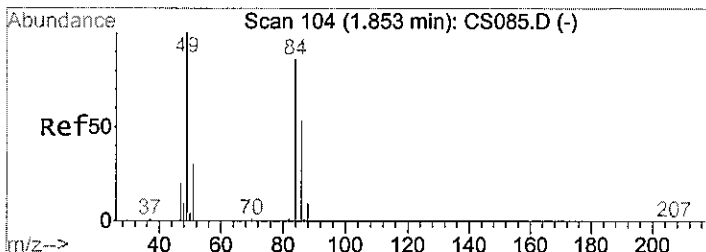
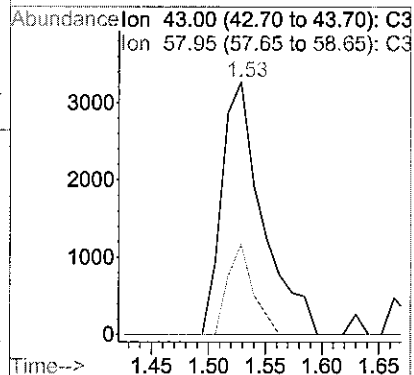
Acq: 8 Sep 2011 12:59

Tgt Ion: 43 Resp: 8152

Ion Ratio Lower Upper

43 100

58 22.4 5.4 8.2#



#16

Methylene Chloride

Concen: 9.76 ug

RT: 1.79 min Scan# 98

Delta R.T. 0.00 min

Lab File: C3975.D

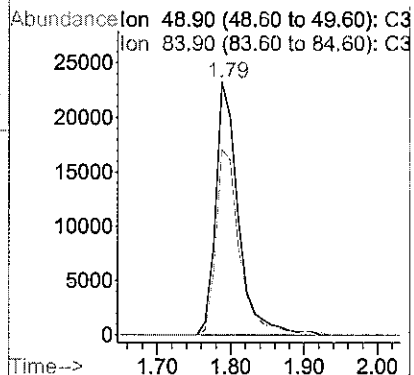
Acq: 8 Sep 2011 12:59

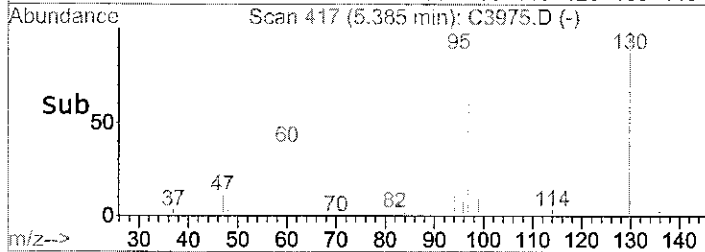
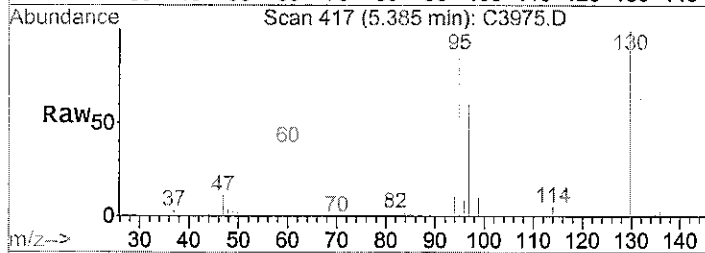
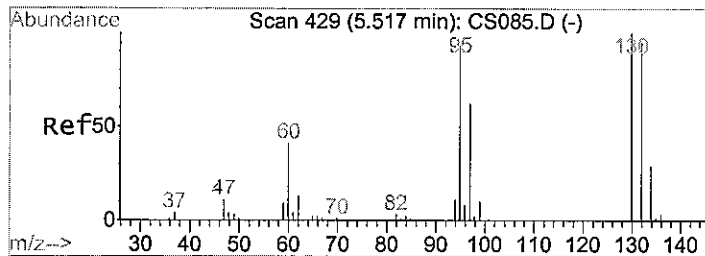
Tgt Ion: 49 Resp: 49736

Ion Ratio Lower Upper

49 100

84 77.1 70.9 106.3





#44

Trichloroethene

Concen: 94.12 ug

RT: 5.38 min Scan# 417

Delta R.T. 0.00 min

Lab File: C3975.D

Acq: 8 Sep 2011 12:59

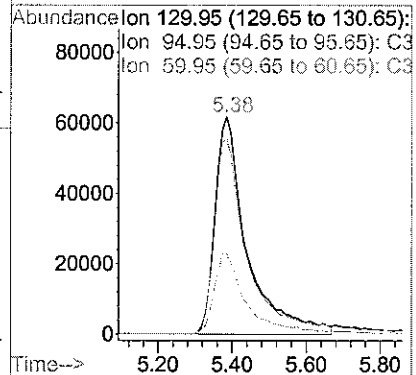
Tgt Ion:130 Resp: 367370

Ion Ratio Lower Upper

130 100

95 90.4 85.8 128.8

60 38.1 87.8 131.6#



VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-11

Lab Name: AES, Inc.

Contract: _____

Lab Code: AESCase No.: AEC1102

SAS No.: _____

SDG No.: MW-1RMatrix (soil/water): WATERLab Sample ID: 110830062-014CSample wt/vol: 5.0 (g/mL) mlLab File ID: C3985.D

Level (low/med): _____

Date Received: 9/1/11% Moisture: not dec. 100Date Analyzed: 9/8/11GC Column: DB624ID: 0.18 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
67-64-1	Acetone	22	B	
79-20-9	Methyl Acetate	5.0	U	
75-09-2	Methylene Chloride	10	B	
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl tert-butyl Ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
156-59-2	cis-1,2-Dichloroethene	5.0	U	
74-97-5	Bromochloromethane	5.0	U	
67-66-3	Chloroform	5.0	U	
110-82-7	Cyclohexane	5.0	U	
107-06-2	1,2-Dichloroethane	5.0	U	
78-93-3	2-Butanone	10	U	
108-87-2	Methyl Cyclohexane	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
56-23-5	Carbon Tetrachloride	5.0	U	
71-43-2	Benzene	5.0	U	
79-01-6	Trichloroethene	5.0	U	
78-87-5	1,2-Dichloropropane	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
124-48-1	Dibromochloromethane	5.0	U	
106-93-4	1,2-Dibromoethane	5.0	U	
75-25-2	Bromoform	5.0	U	

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-11

Lab Name: AES, Inc.

Contract: _____

Lab Code: AESCase No.: AEC1102

SAS No.: _____

SDG No.: MW-1RMatrix (soil/water): WATERLab Sample ID: 110830062-014CSample wt/vol: 5.0 (g/mL) mlLab File ID: C3985.D

Level (low/med): _____

Date Received: 9/1/11% Moisture: not dec. 100Date Analyzed: 9/8/11GC Column: DB624ID: 0.18 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone	10	U	
108-88-3	Toluene	5.0	U	
127-18-4	Tetrachloroethene	5.0	U	
591-78-6	2-Hexanone	10	U	
108-90-7	Chlorobenzene	5.0	U	
100-41-4	Ethyl Benzene	5.0	U	
126777-61-2	m,p-Xylenes	5.0	U	
95-47-6	o-Xylene	5.0	U	
100-42-5	Styrene	5.0	U	
98-82-8	Isopropylbenzene	5.0	U	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	
541-73-1	1,3-Dichlorobenzene	5.0	U	
106-46-7	1,4-Dichlorobenzene	5.0	U	
95-50-1	1,2-Dichlorobenzene	5.0	U	
96-12-8	1,2-Dibromo-3-Chloropropane	50	U	
120-82-1	1,2,4-Trichlorobenzene	5.0	U	

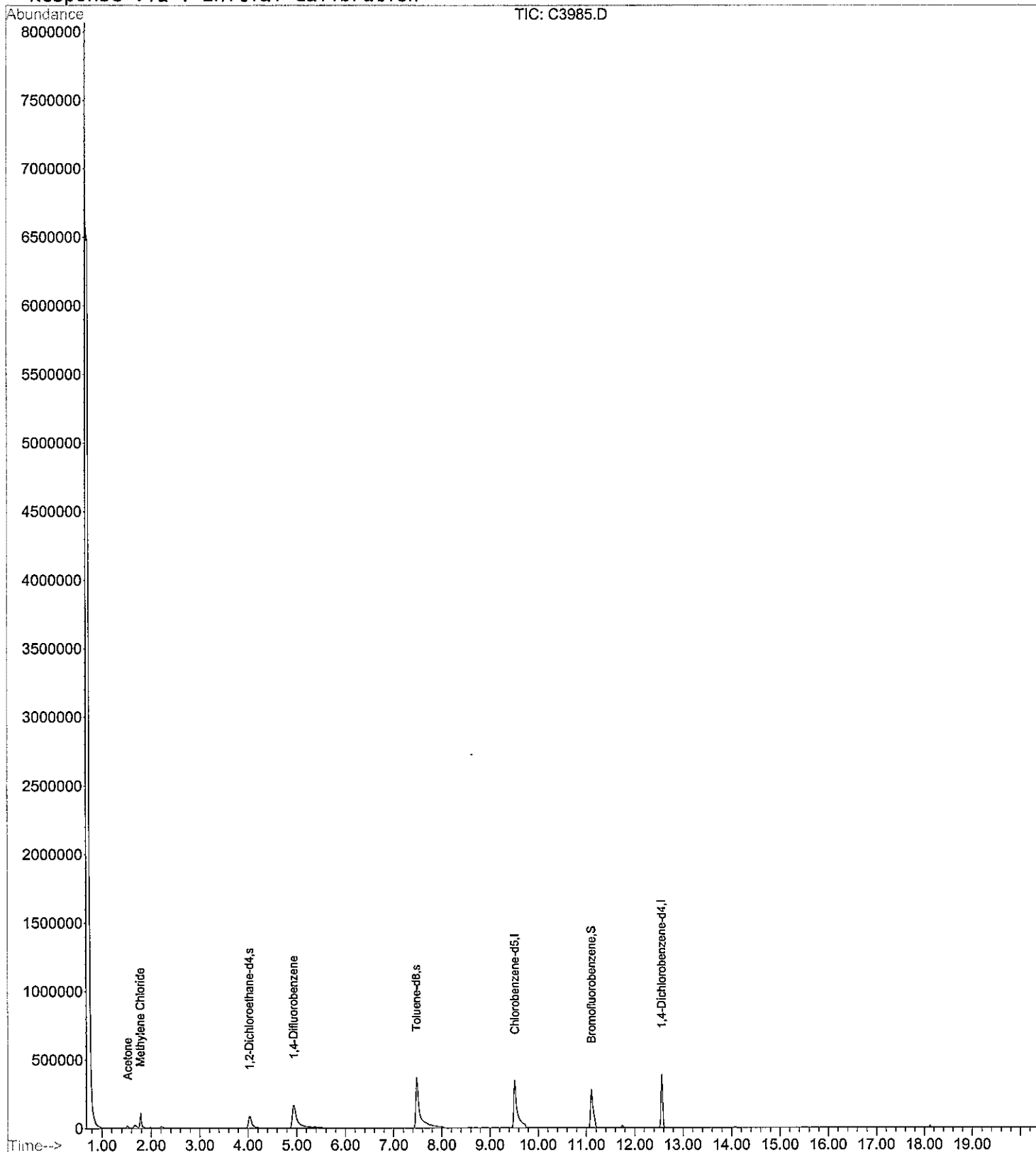
Quantitation Report

Data File : C:\HPCHEM\1\DATA\110908\C3985.D
 Acq On : 8 Sep 2011 17:44
 Sample : 110830062-014C
 Misc : SAMP EPA_8260_WATER
 MS Integration Params: LSCINT.P
 Quant Time: Sep 9 11:43 2011

Vial: 17
 Operator:
 Inst : GCMS-C
 Multiplr: 1.00

Quant Results File: CLP.RES

Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
 Title : Voa NBL Plus Calibration
 Last Update : Fri Sep 02 11:53:44 2011
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\110908\C3985.D

Vial: 17

Acq On : 8 Sep 2011 17:44

Operator:

Sample : 110830062-014C

Inst : GCMS-C

Misc : SAMP EPA_8260_WATER

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 9 11:43 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

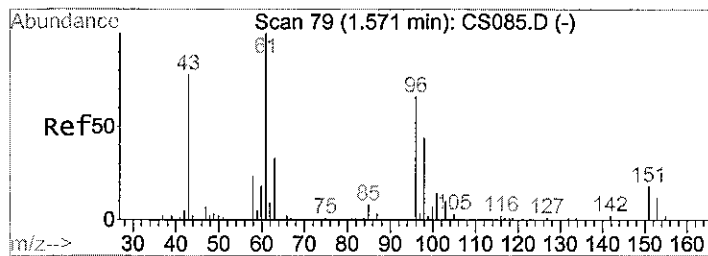
Title : Voa NBL Plus Calibration

Last Update : Fri Sep 02 11:53:44 2011

Response via : Initial Calibration

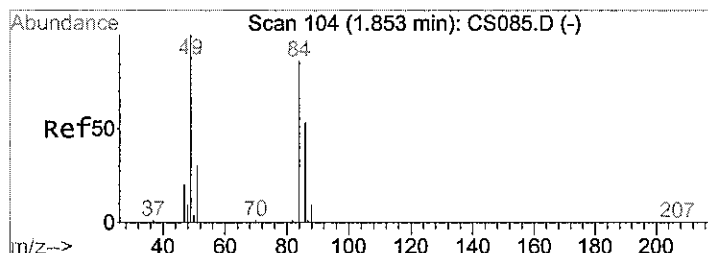
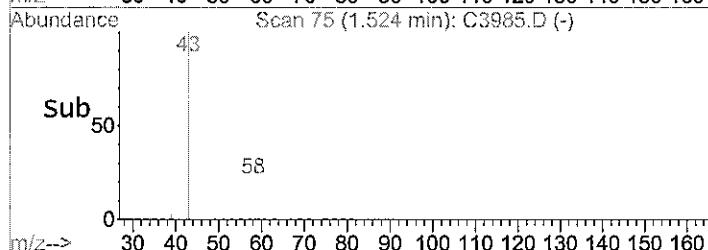
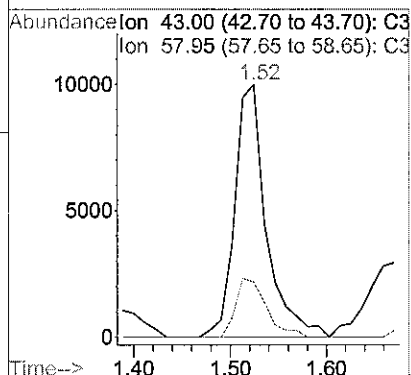
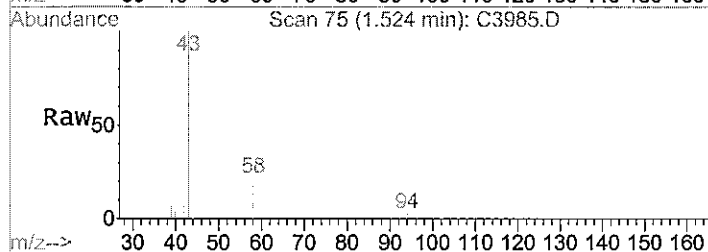
DataAcq Meth : METH0C

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.94	114	577898	50.00	ug	0.00
37) Chlorobenzene-d5	9.52	117	618778	50.00	ug	0.01
71) 1,4-Dichlorobenzene-d4	12.56	150	270720	50.00	ug	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	4.03	65	168673	49.28	ug	-0.01
58) Toluene-d8	7.48	98	839178	46.30	ug	-0.01
69) Bromofluorobenzene	11.11	176	199996	44.94	ug	0.00
Target Compounds						
13) Acetone	1.52	43	22694	21.93	ug	Qvalue # 53
16) Methylene Chloride	1.78	49	65955	10.20	ug	94



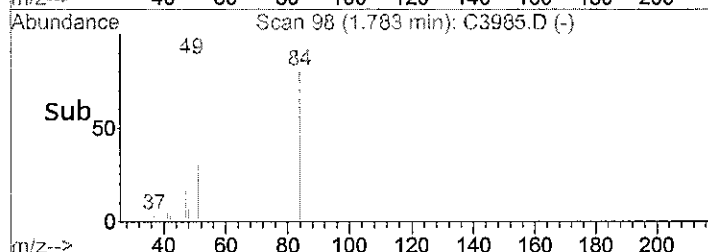
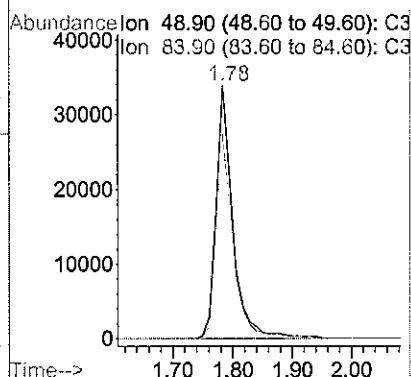
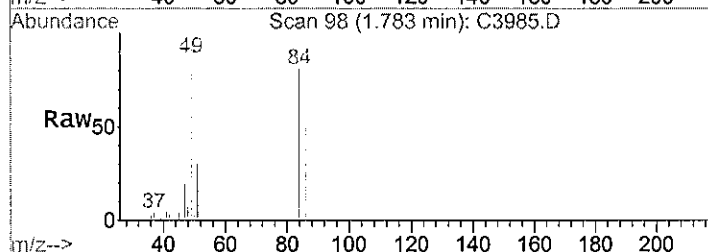
#13
Acetone
Concen: 21.93 ug
RT: 1.52 min Scan# 75
Delta R.T. -0.00 min
Lab File: C3985.D
Acq: 8 Sep 2011 17:44

Tgt Ion: 43 Resp: 22694
Ion Ratio Lower Upper
43 100
58 22.9 5.4 8.2#



#16
Methylene Chloride
Concen: 10.20 ug
RT: 1.78 min Scan# 98
Delta R.T. -0.00 min
Lab File: C3985.D
Acq: 8 Sep 2011 17:44

Tgt Ion: 49 Resp: 65955
Ion Ratio Lower Upper
49 100
84 82.7 70.9 106.3



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-13

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-006C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3977.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 5.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	50	U	
74-87-3	Chloromethane	50	U	
75-01-4	Vinyl chloride	50	U	
74-83-9	Bromomethane	50	U	
75-00-3	Chloroethane	50	U	
75-69-4	Trichlorofluoromethane	25	U	
75-35-4	1,1-Dichloroethene	25	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	25	U	
75-15-0	Carbon disulfide	25	U	
67-64-1	Acetone	57	B	
79-20-9	Methyl Acetate	25	U	
75-09-2	Methylene Chloride	35	B	
156-60-5	trans-1,2-Dichloroethene	25	U	
1634-04-4	Methyl tert-butyl Ether	25	U	
75-34-3	1,1-Dichloroethane	25	U	
156-59-2	cis-1,2-Dichloroethene	18	J	
74-97-5	Bromochloromethane	25	U	
67-66-3	Chloroform	25	U	
110-82-7	Cyclohexane	25	U	
107-06-2	1,2-Dichloroethane	25	U	
78-93-3	2-Butanone	50	U	
108-87-2	Methyl Cyclohexane	25	U	
71-55-6	1,1,1-Trichloroethane	25	U	
56-23-5	Carbon Tetrachloride	25	U	
71-43-2	Benzene	25	U	
79-01-6	Trichloroethene	440		
78-87-5	1,2-Dichloropropane	25	U	
75-27-4	Bromodichloromethane	25	U	
10061-01-5	cis-1,3-Dichloropropene	25	U	
10061-02-6	trans-1,3-Dichloropropene	25	U	
79-00-5	1,1,2-Trichloroethane	25	U	
124-48-1	Dibromochloromethane	25	U	
106-93-4	1,2-Dibromoethane	25	U	
75-25-2	Bromoform	25	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-13

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-006C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3977.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 5.0

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

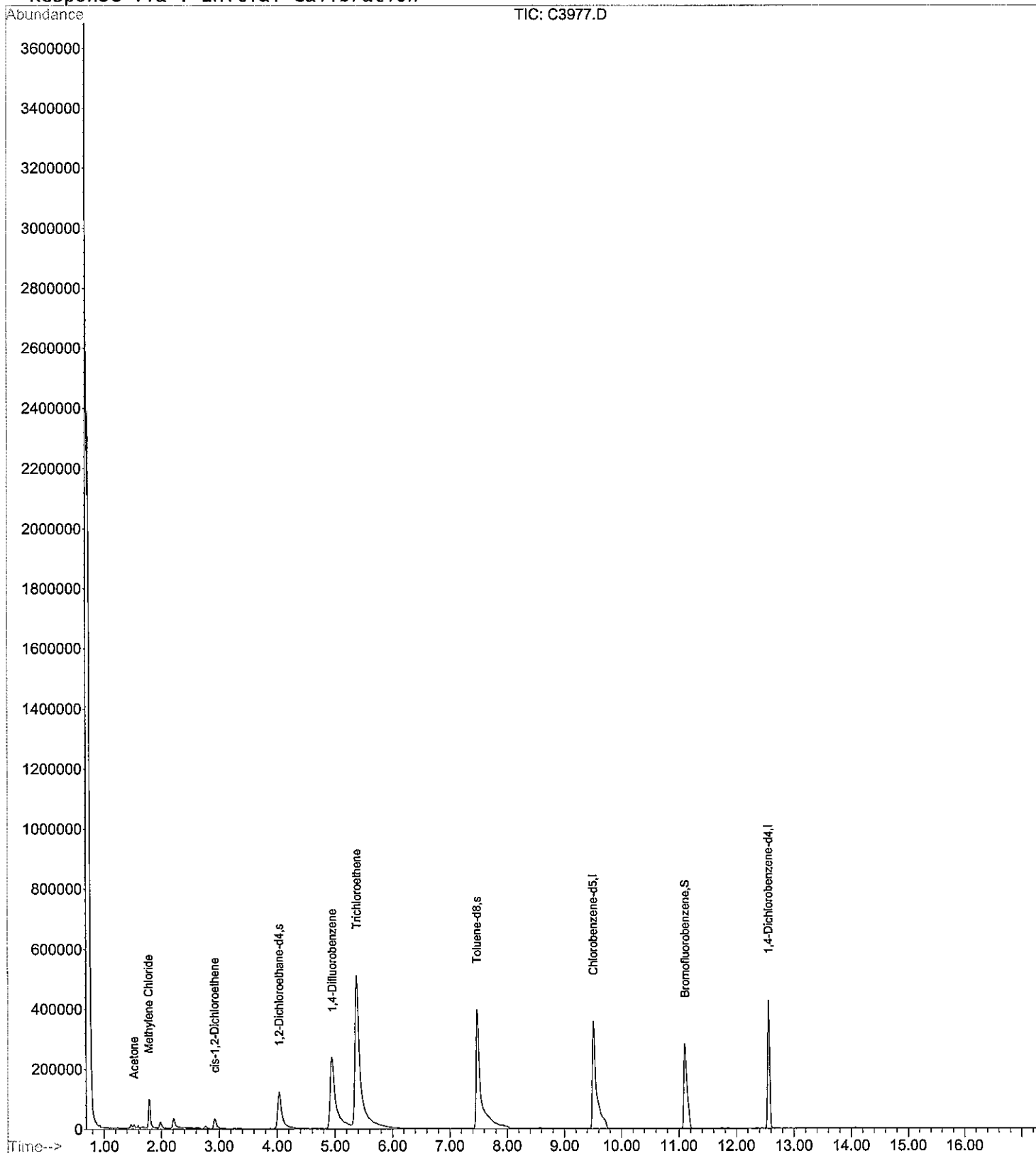
CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone	50	U	
108-88-3	Toluene	25	U	
127-18-4	Tetrachloroethene	25	U	
591-78-6	2-Hexanone	50	U	
108-90-7	Chlorobenzene	25	U	
100-41-4	Ethyl Benzene	25	U	
126777-61-2	m,p-Xylenes	25	U	
95-47-6	o-Xylene	25	U	
100-42-5	Styrene	25	U	
98-82-8	Isopropylbenzene	25	U	
79-34-5	1,1,2,2-Tetrachloroethane	25	U	
541-73-1	1,3-Dichlorobenzene	25	U	
106-46-7	1,4-Dichlorobenzene	25	U	
95-50-1	1,2-Dichlorobenzene	25	U	
96-12-8	1,2-Dibromo-3-Chloropropane	250	U	
120-82-1	1,2,4-Trichlorobenzene	25	U	

Quantitation Report

Data File : C:\HPCHEM\1\DATA\110908\C3977.D Vial: 9
 Acq On : 8 Sep 2011 13:56 Operator:
 Sample : 110830062-006C Inst : GCMS-C
 Misc : SAMP EPA_8260_WATER Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Sep 9 11:40 2011 Quant Results File: CLP.RES

Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
 Title : Voa NBL Plus Calibration
 Last Update : Fri Sep 02 11:53:44 2011
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\110908\C3977.D

Vial: 9

Acq On : 8 Sep 2011 13:56

Operator:

Sample : 110830062-006C

Inst : GCMS-C

Misc : SAMP EPA_8260_WATER

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 9 11:40 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

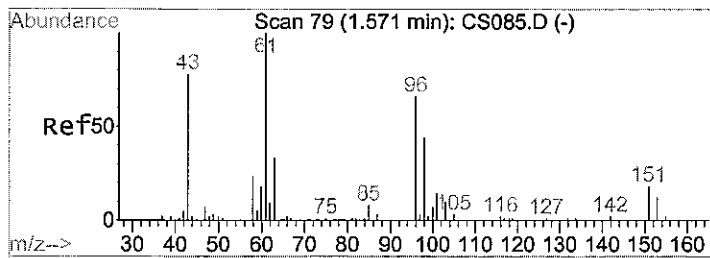
Title : Voa NBL Plus Calibration

Last Update : Fri Sep 02 11:53:44 2011

Response via : Initial Calibration

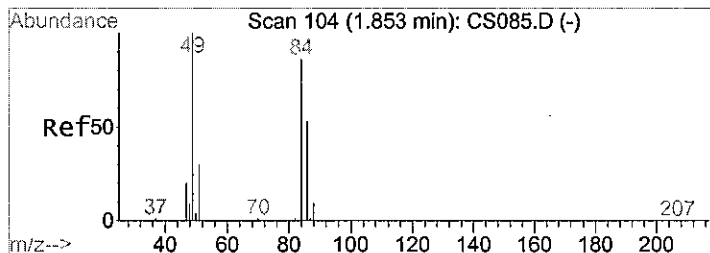
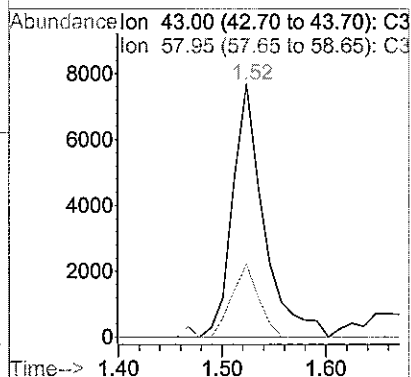
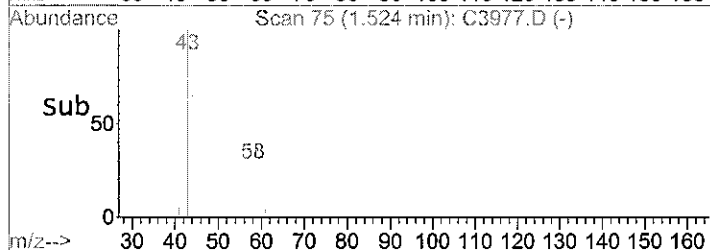
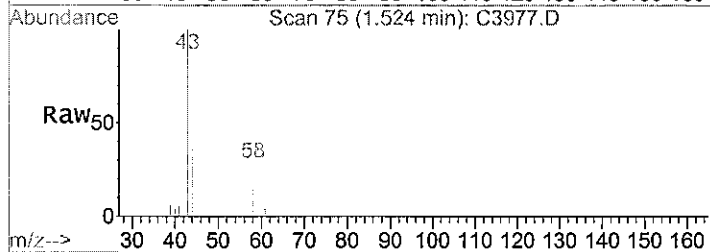
DataAcq Meth : METH0C

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.95	114	786752	50.00	ug	0.01
37) Chlorobenzene-d5	9.51	117	629152	50.00	ug	0.00
71) 1,4-Dichlorobenzene-d4	12.56	150	285181	50.00	ug	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	4.04	65	217629	46.70	ug	0.00
58) Toluene-d8	7.48	98	860750	46.71	ug	-0.01
69) Bromofluorobenzene	11.11	176	209290	46.25	ug	0.00
Target Compounds						
13) Acetone	1.52	43	15981	11.34	ug	Qvalue # 47
16) Methylene Chloride	1.78	49	62328	7.08	ug	94
24) cis-1,2-Dichloroethene	2.92	61	33819	3.70	ug	92
44) Trichloroethene	5.38	130	587769	87.27	ug	# 58



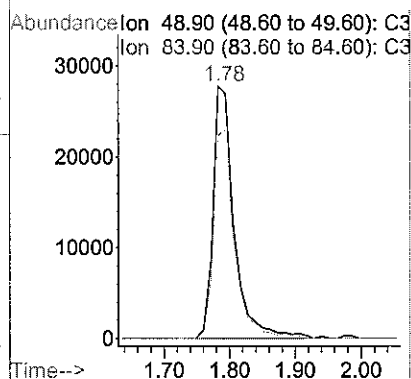
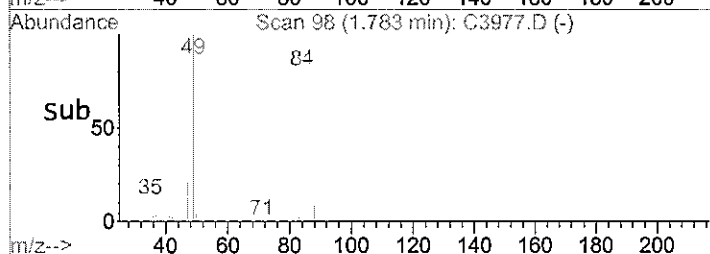
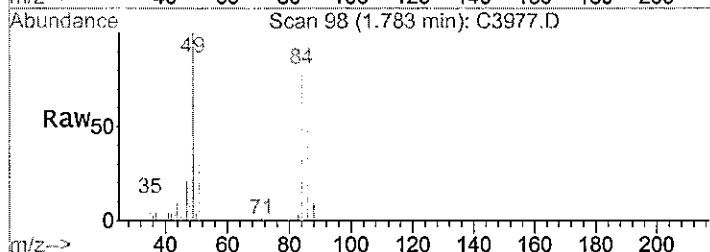
#13
Acetone
Concen: 11.34 ug
RT: 1.52 min Scan# 75
Delta R.T. -0.00 min
Lab File: C3977.D
Acq: 8 Sep 2011 13:56

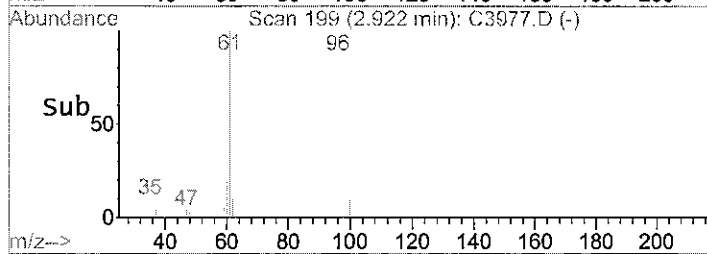
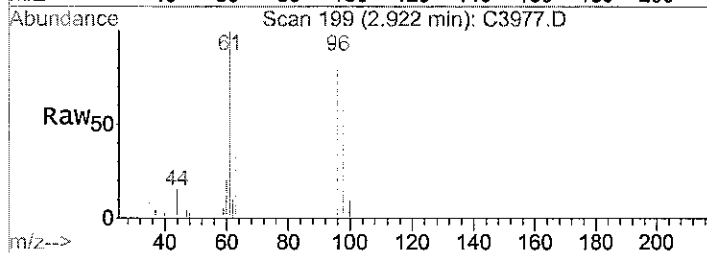
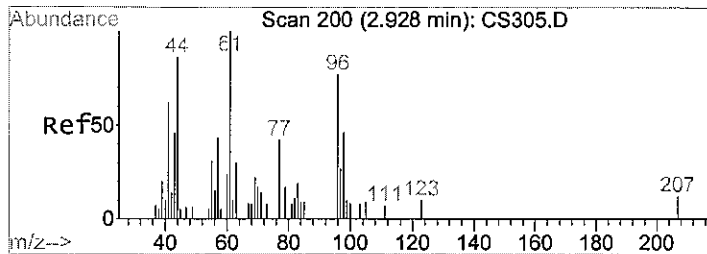
Tgt Ion: 43 Resp: 15981
Ion Ratio Lower Upper
43 100
58 24.9 5.4 8.2#



#16
Methylene chloride
Concen: 7.08 ug
RT: 1.78 min Scan# 98
Delta R.T. -0.00 min
Lab File: C3977.D
Acq: 8 Sep 2011 13:56

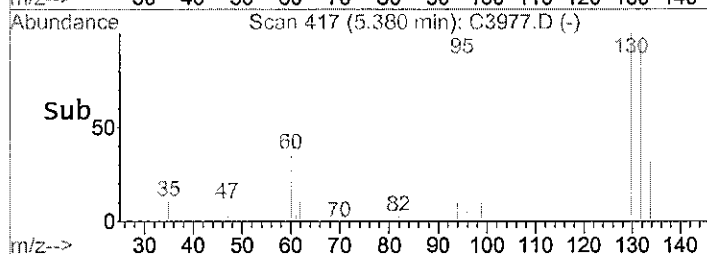
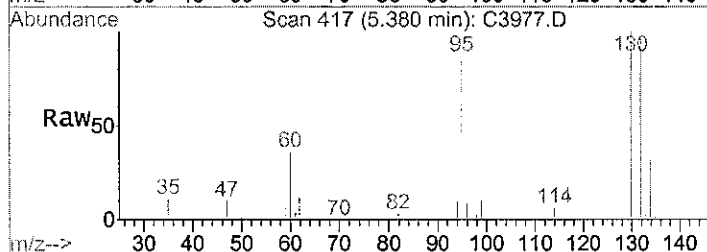
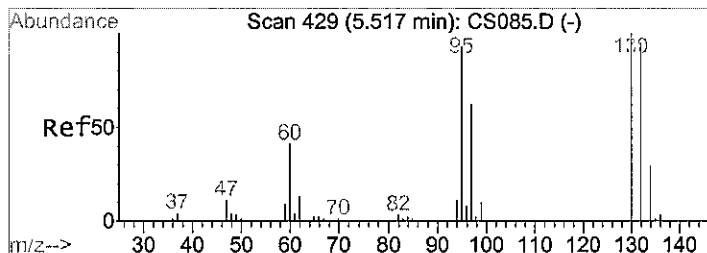
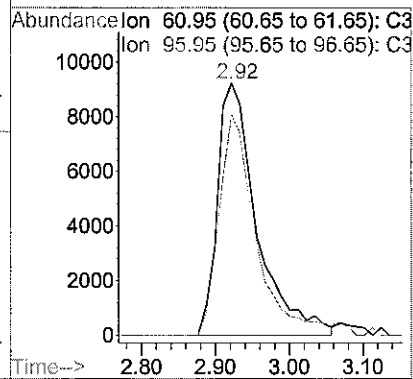
Tgt Ion: 49 Resp: 62328
Ion Ratio Lower Upper
49 100
84 82.9 70.9 106.3





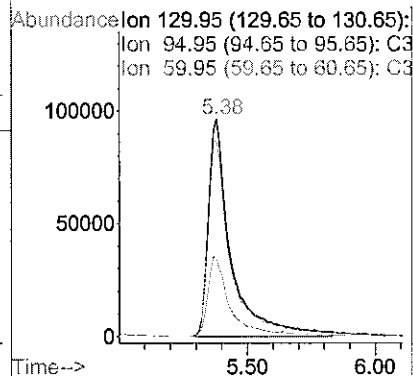
#24
cis-1,2-Dichloroethene
Concen: 3.70 ug
RT: 2.92 min Scan# 199
Delta R.T. -0.00 min
Lab File: C3977.D
Acq: 8 Sep 2011 13:56

Tgt Ion: 61 Resp: 33819
Ion Ratio Lower Upper
61 100
96 83.8 61.7 92.5



#44
Trichloroethene
Concen: 87.27 ug
RT: 5.38 min Scan# 417
Delta R.T. -0.00 min
Lab File: C3977.D
Acq: 8 Sep 2011 13:56

Tgt Ion: 130 Resp: 587769
Ion Ratio Lower Upper
130 100
95 92.6 85.8 128.8
60 36.2 87.8 131.6#



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-14

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-008C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3979.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
67-64-1	Acetone	15	B	
79-20-9	Methyl Acetate	5.0	U	
75-09-2	Methylene Chloride	5.5	B	
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl tert-butyl Ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
156-59-2	cis-1,2-Dichloroethene	5.0	U	
74-97-5	Bromochloromethane	5.0	U	
67-66-3	Chloroform	5.0	U	
110-82-7	Cyclohexane	5.0	U	
107-06-2	1,2-Dichloroethane	5.0	U	
78-93-3	2-Butanone	10	U	
108-87-2	Methyl Cyclohexane	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
56-23-5	Carbon Tetrachloride	5.0	U	
71-43-2	Benzene	5.0	U	
79-01-6	Trichloroethene	5.0	U	
78-87-5	1,2-Dichloropropane	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
124-48-1	Dibromochloromethane	5.0	U	
106-93-4	1,2-Dibromoethane	5.0	U	
75-25-2	Bromoform	5.0	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-14

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-008C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3979.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		5.0	U
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		10	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethyl Benzene		5.0	U
126777-61-2	m,p-Xylenes		5.0	U
95-47-6	o-Xylene		5.0	U
100-42-5	Styrene		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane		50	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U

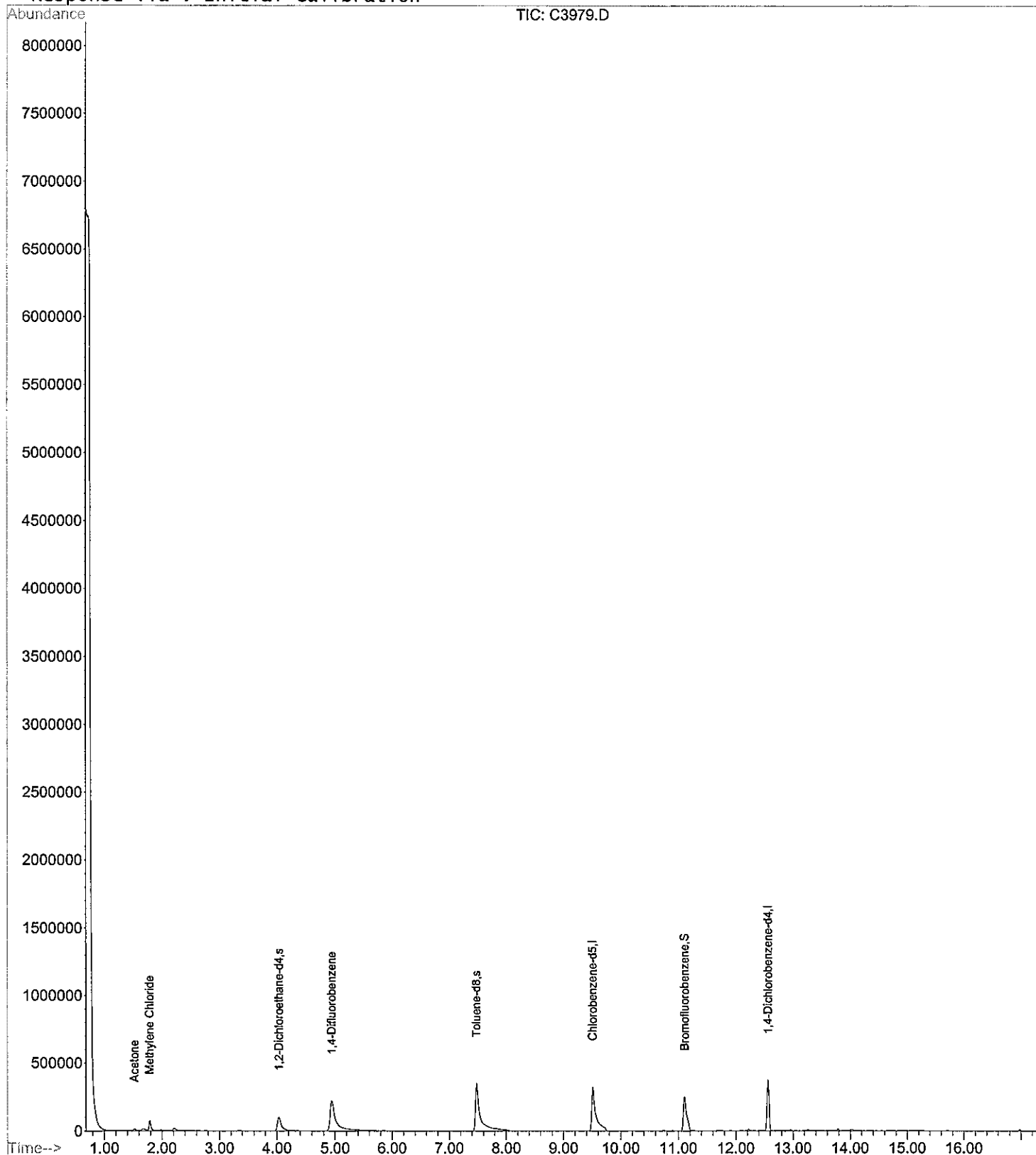
Quantitation Report

Data File : C:\HPCHEM\1\DATA\110908\C3979.D
 Acq On : 8 Sep 2011 14:53
 Sample : 110830062-008C
 Misc : SAMP EPA_8260_WATER
 MS Integration Params: LSCINT.P
 Quant Time: Sep 9 11:40 2011

Vial: 11
 Operator:
 Inst : GCMS-C
 Multiplr: 1.00

Quant Results File: CLP.RES

Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
 Title : Voa NBL Plus Calibration
 Last Update : Fri Sep 02 11:53:44 2011
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\110908\C3979.D

Vial: 11

Acq On : 8 Sep 2011 14:53

Operator:

Sample : 110830062-008C

Inst : GCMS-C

Misc : SAMP EPA_8260_WATER

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 9 11:40 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration

Last Update : Fri Sep 02 11:53:44 2011

Response via : Initial Calibration

DataAcq Meth : METH0C

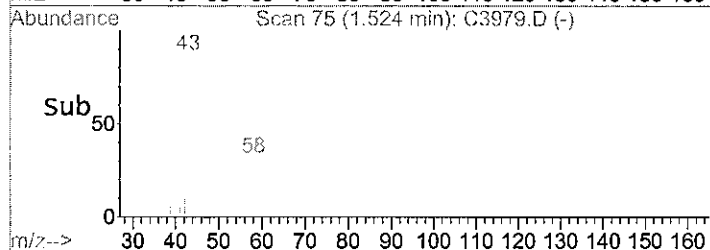
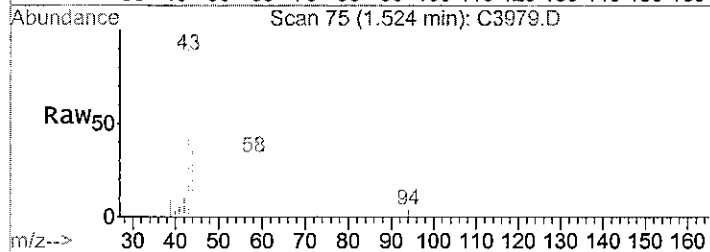
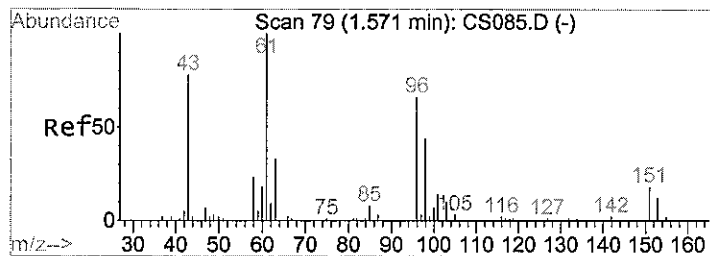
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.94	114	751929	50.00	ug	0.00
37) Chlorobenzene-d5	9.51	117	564303	50.00	ug	0.00
71) 1,4-Dichlorobenzene-d4	12.56	150	252437	50.00	ug	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	4.04	65	181423	40.73	ug	0.00
58) Toluene-d8	7.48	98	741438	44.86	ug	-0.01
69) Bromofluorobenzene	11.11	176	184813	45.53	ug	0.00
Target Compounds						Qvalue
13) Acetone	1.52	43	20128	14.95	ug	# 49
16) Methylene Chloride	1.78	49	46161	5.49	ug	91

(#) = qualifier out of range (m) = manual integration

C3979.D CLP.M Tue Sep 13 14:27:15 2011

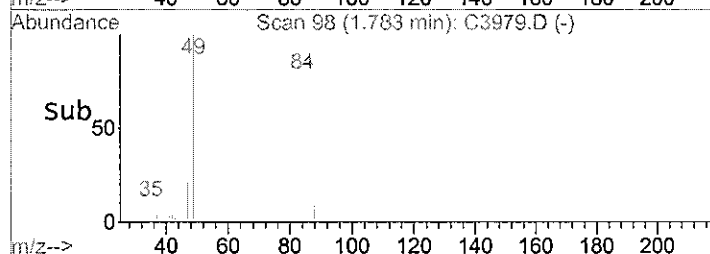
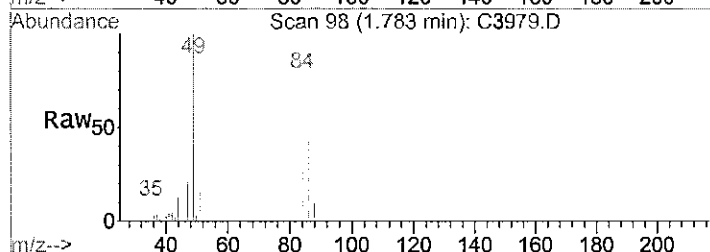
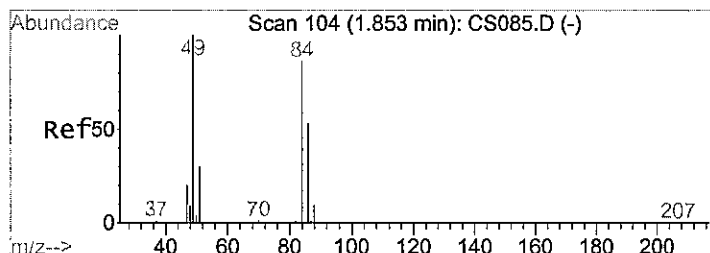
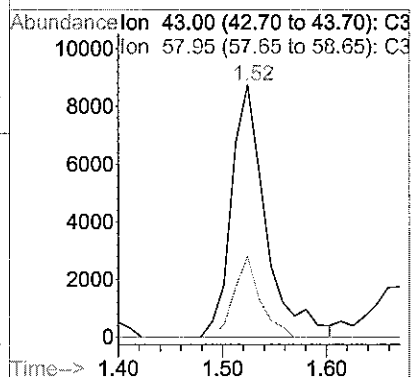
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: 00153



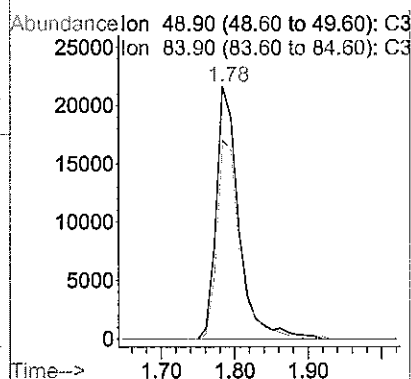
#13
Acetone
Concen: 14.95 ug
RT: 1.52 min Scan# 75
Delta R.T. -0.00 min
Lab File: C3979.D
Acq: 8 Sep 2011 14:53

Tgt Ion: 43 Resp: 20128
Ion Ratio Lower Upper
43 100
58 24.2 5.4 8.2#



#16
Methylene chloride
Concen: 5.49 ug
RT: 1.78 min Scan# 98
Delta R.T. -0.00 min
Lab File: C3979.D
Acq: 8 Sep 2011 14:53

Tgt Ion: 49 Resp: 46161
Ion Ratio Lower Upper
49 100
84 80.3 70.9 106.3



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-15

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-010C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3981.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
67-64-1	Acetone	16	B	
79-20-9	Methyl Acetate	5.0	U	
75-09-2	Methylene Chloride	7.3	B	
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl tert-butyl Ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
156-59-2	cis-1,2-Dichloroethene	5.0	U	
74-97-5	Bromochloromethane	5.0	U	
67-66-3	Chloroform	5.0	U	
110-82-7	Cyclohexane	5.0	U	
107-06-2	1,2-Dichloroethane	5.0	U	
78-93-3	2-Butanone	10	U	
108-87-2	Methyl Cyclohexane	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
56-23-5	Carbon Tetrachloride	5.0	U	
71-43-2	Benzene	5.0	U	
79-01-6	Trichloroethene	5.0	U	
78-87-5	1,2-Dichloropropane	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
124-48-1	Dibromochloromethane	5.0	U	
106-93-4	1,2-Dibromoethane	5.0	U	
75-25-2	Bromoform	5.0	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-15

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-010C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3981.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

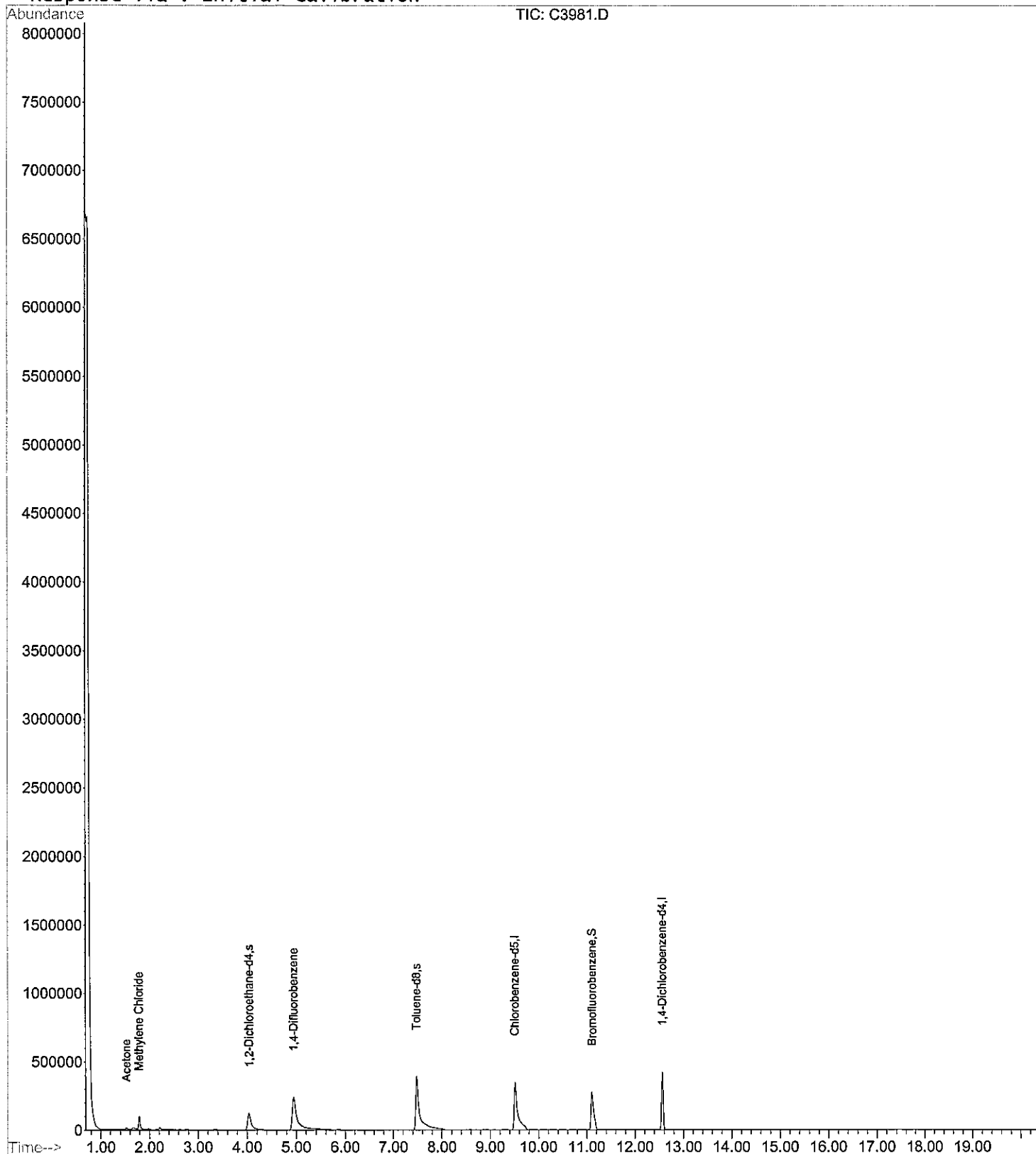
CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		5.0	U
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		10	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethyl Benzene		5.0	U
126777-61-2	m,p-Xylenes		5.0	U
95-47-6	o-Xylene		5.0	U
100-42-5	Styrene		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane		50	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\110908\C3981.D vial: 13
 Acq On : 8 Sep 2011 15:48 Operator:
 Sample : 110830062-010C Inst : GCMS-C
 Misc : SAMP EPA_8260_WATER Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Sep 9 11:41 2011 Quant Results File: CLP.RES

Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
 Title : Voa NBL Plus Calibration
 Last Update : Fri Sep 02 11:53:44 2011
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\110908\C3981.D

Vial: 13

Acq On : 8 Sep 2011 15:48

Operator:

Sample : 110830062-010C

Inst : GCMS-C

Misc : SAMP EPA_8260_WATER

Multiplier: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 9 11:41 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration

Last Update : Fri Sep 02 11:53:44 2011

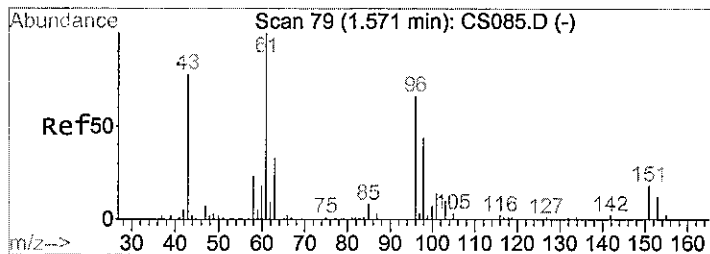
Response via : Initial Calibration

DataAcq Meth : METH0C

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.94	114	784079	50.00	ug	0.00
37) Chlorobenzene-d5	9.51	117	621776	50.00	ug	0.00
71) 1,4-Dichlorobenzene-d4	12.56	150	288979	50.00	ug	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	4.04	65	227972	49.09	ug	0.00
58) Toluene-d8	7.48	98	822100	45.14	ug	-0.01
69) Bromofluorobenzene	11.11	176	207500	46.40	ug	0.00
Target Compounds						Qvalue
13) Acetone	1.52	43	22289	15.88	ug	# 45
16) Methylene chloride	1.78	49	64348	7.34	ug	92

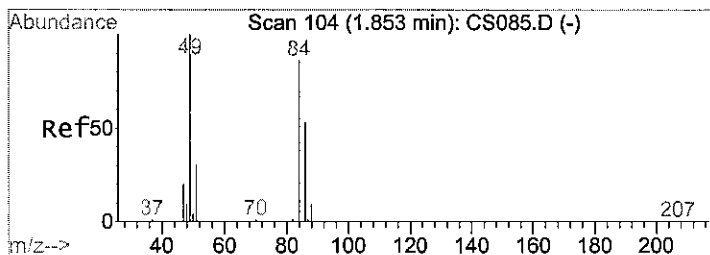
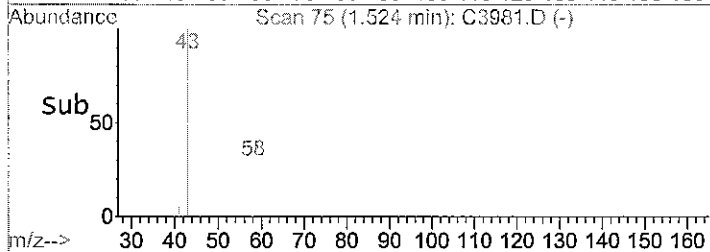
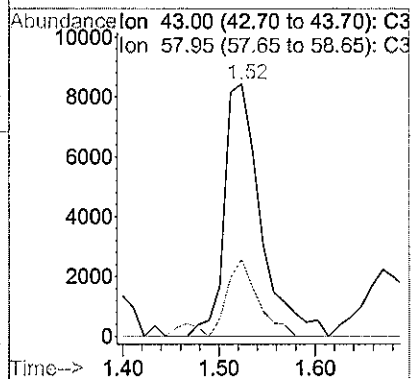
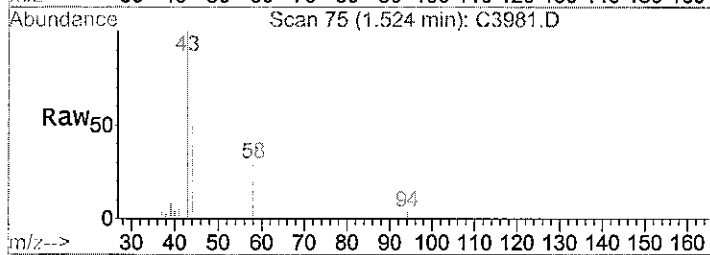
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C3981.D CLP.M Tue Sep 13 14:27:38 2011



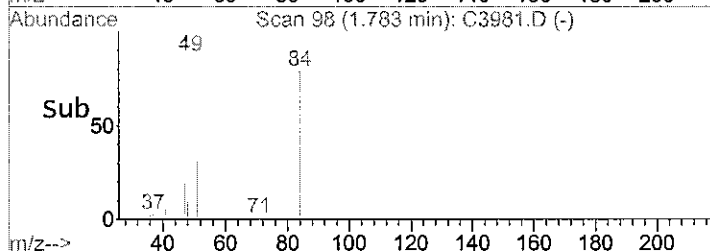
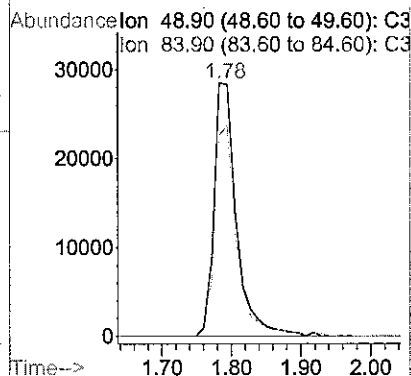
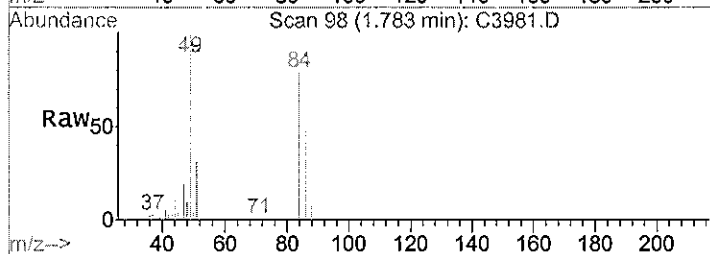
#13
Acetone
Concen: 15.88 ug
RT: 1.52 min Scan# 75
Delta R.T. -0.00 min
Lab File: C3981.D
Acq: 8 Sep 2011 15:48

Tgt Ion: 43 Resp: 22289
Ion Ratio Lower Upper
43 100
58 25.7 5.4 8.2#



#16
Methylene Chloride
Concen: 7.34 ug
RT: 1.78 min Scan# 98
Delta R.T. -0.00 min
Lab File: C3981.D
Acq: 8 Sep 2011 15:48

Tgt Ion: 49 Resp: 64348
Ion Ratio Lower Upper
49 100
84 81.5 70.9 106.3



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-16

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-009C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3980.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	U
74-87-3	Chloromethane	10	U	U
75-01-4	Vinyl chloride	10	U	U
74-83-9	Bromomethane	10	U	U
75-00-3	Chloroethane	10	U	U
75-69-4	Trichlorofluoromethane	5.0	U	U
75-35-4	1,1-Dichloroethene	5.0	U	U
76-13-1	1,1,2-Trichloro-1,2,2-tri	5.0	U	U
75-15-0	Carbon disulfide	5.0	U	U
67-64-1	Acetone	34	B	B
79-20-9	Methyl Acetate	5.0	U	U
75-09-2	Methylene Chloride	9.3	B	B
156-60-5	trans-1,2-Dichloroethene	5.0	U	U
1634-04-4	Methyl tert-butyl Ether	5.0	U	U
75-34-3	1,1-Dichloroethane	5.0	U	U
156-59-2	cis-1,2-Dichloroethene	2.4	J	J
74-97-5	Bromochloromethane	5.0	U	U
67-66-3	Chloroform	5.0	U	U
110-82-7	Cyclohexane	5.0	U	U
107-06-2	1,2-Dichloroethane	5.0	U	U
78-93-3	2-Butanone	10	U	U
108-87-2	Methyl Cyclohexane	5.0	U	U
71-55-6	1,1,1-Trichloroethane	5.0	U	U
56-23-5	Carbon Tetrachloride	5.0	U	U
71-43-2	Benzene	5.0	U	U
79-01-6	Trichloroethene	5.0	U	U
78-87-5	1,2-Dichloropropane	5.0	U	U
75-27-4	Bromodichloromethane	5.0	U	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U	U
79-00-5	1,1,2-Trichloroethane	5.0	U	U
124-48-1	Dibromochloromethane	5.0	U	U
106-93-4	1,2-Dibromoethane	5.0	U	U
75-25-2	Bromoform	5.0	U	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-16

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-009C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3980.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		5.0	U
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		10	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethyl Benzene		5.0	U
126777-61-2	m,p-Xylenes		5.0	U
95-47-6	o-Xylene		5.0	U
100-42-5	Styrene		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane		50	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U

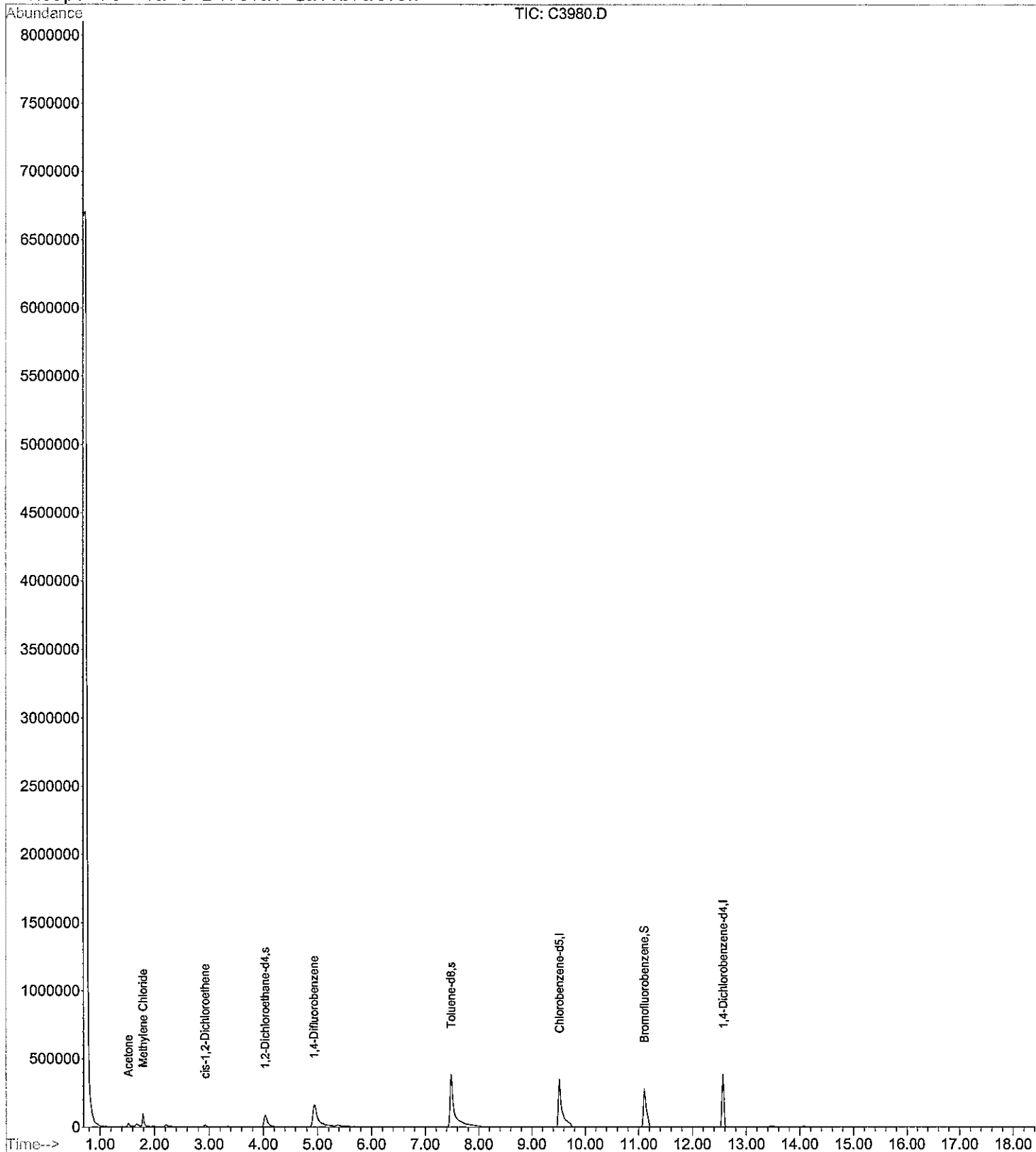
Quantitation Report

Data File : C:\HPCHEM\1\DATA\110908\C3980.D
 Acq On : 8 Sep 2011 15:19
 Sample : 110830062-009C
 Misc : SAMP EPA_8260_WATER
 MS Integration Params: LSCINT.P
 Quant Time: Sep 9 11:41 2011

Vial: 12
 Operator:
 Inst : GCMS-C
 Multiplr: 1.00

Quant Results File: CLP.RES

Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
 Title : Voa NBL Plus Calibration
 Last Update : Fri Sep 02 11:53:44 2011
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\110908\C3980.D

vial: 12

Acq On : 8 Sep 2011 15:19

Operator:

Sample : 110830062-009C

Inst : GCMS-C

Misc : SAMP EPA_8260_WATER

Multiplier: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 9 11:41 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration

Last Update : Fri Sep 02 11:53:44 2011

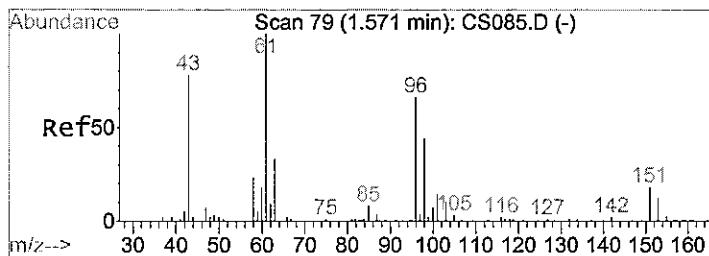
Response via : Initial Calibration

DataAcq Meth : METHOC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.94	114	536580	50.00	ug	0.00
37) Chlorobenzene-d5	9.51	117	596499	50.00	ug	0.00
71) 1,4-Dichlorobenzene-d4	12.57	150	280723	50.00	ug	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	4.03	65	155959	49.07	ug	0.00
58) Toluene-d8	7.48	98	831581	47.60	ug	0.00
69) Bromofluorobenzene	11.10	176	202062	47.10	ug	0.00
Target Compounds						Qvalue
13) Acetone	1.52	43	32965m	34.31	ug	
16) Methylene chloride	1.79	49	55763	9.29	ug	93
24) cis-1,2-Dichloroethene	2.93	61	15280	2.45	ug	97

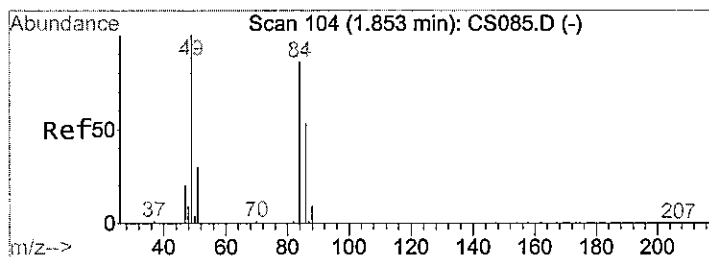
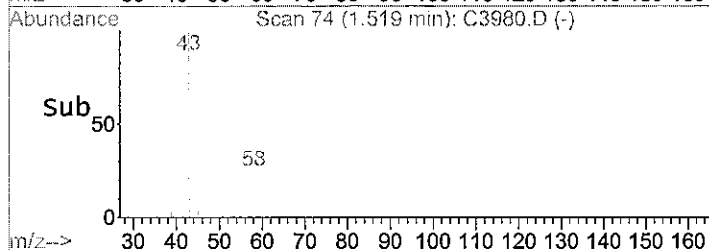
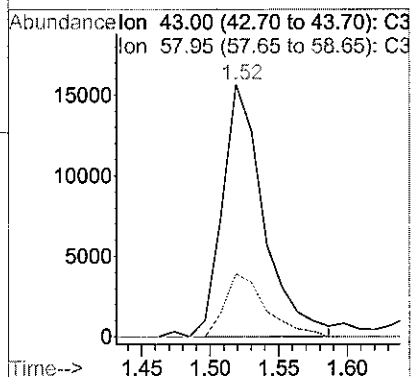
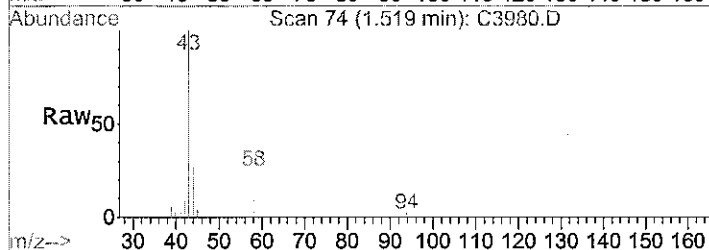
 (#) = qualifier out of range (m) = manual integration

C3980.D CLP.M Tue Sep 13 14:27:25 2011



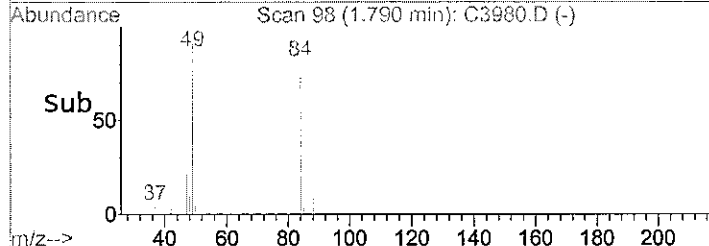
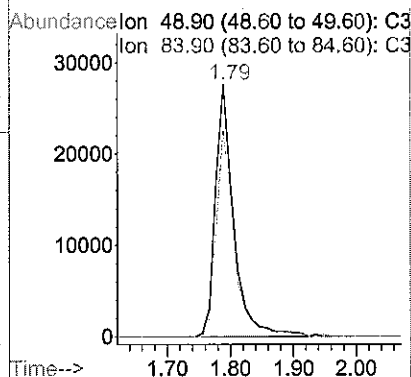
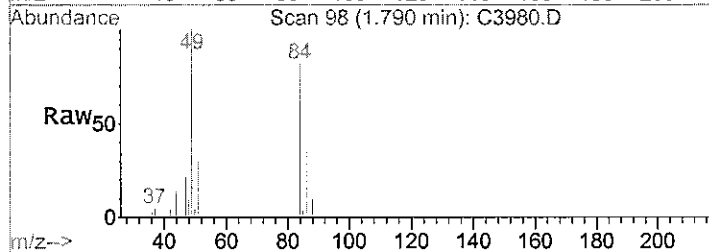
#13
Acetone
Concen: 34.31 ug m
RT: 1.52 min Scan# 74
Delta R.T. -0.01 min
Lab File: C3980.D
Acq: 8 Sep 2011 15:19

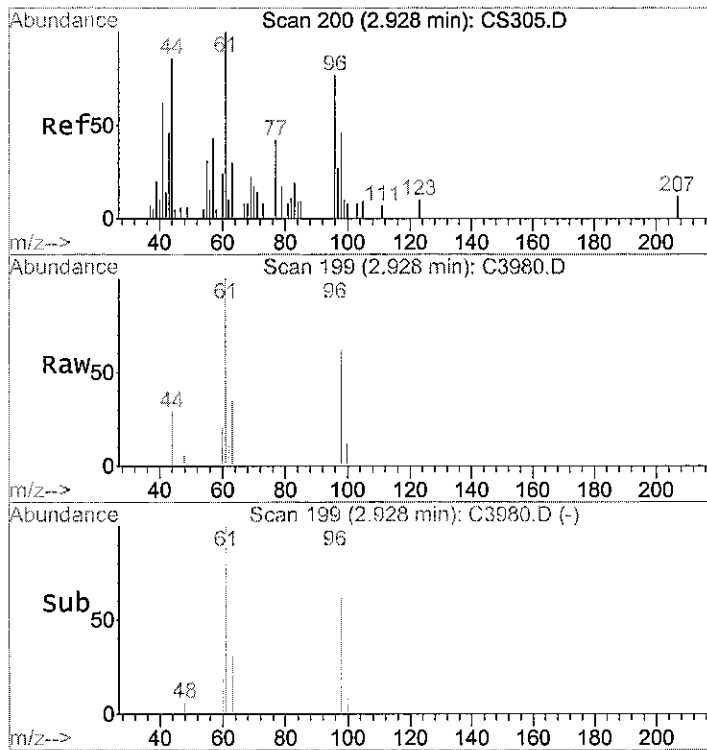
Tgt Ion: 43 Resp: 32965
Ion Ratio Lower Upper
43 100
58 24.8 5.4 8.2#



#16
Methylene Chloride
Concen: 9.29 ug
RT: 1.79 min Scan# 98
Delta R.T. 0.01 min
Lab File: C3980.D
Acq: 8 Sep 2011 15:19

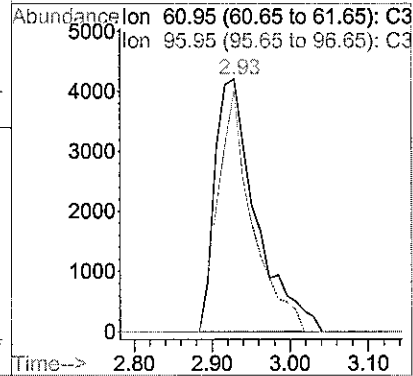
Tgt Ion: 49 Resp: 55763
Ion Ratio Lower Upper
49 100
84 81.8 70.9 106.3





#24
 cis-1,2-Dichloroethene
 Concen: 2.45 ug
 RT: 2.93 min Scan# 199
 Delta R.T. 0.01 min
 Lab File: C3980.D
 Acq: 8 Sep 2011 15:19

Tgt Ion: 61 Resp: 15280
 Ion Ratio Lower Upper
 61 100
 96 79.8 61.7 92.5



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-17

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-012C

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: C3995.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/9/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 2.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	20	U	
74-87-3	Chloromethane	20	U	
75-01-4	Vinyl chloride	20	U	
74-83-9	Bromomethane	20	U	
75-00-3	Chloroethane	20	U	
75-69-4	Trichlorofluoromethane	10	U	
75-35-4	1,1-Dichloroethene	10	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	10	U	
75-15-0	Carbon disulfide	10	U	
67-64-1	Acetone	25	B	
79-20-9	Methyl Acetate	10	U	
75-09-2	Methylene Chloride	6.8	JB	
156-60-5	trans-1,2-Dichloroethene	10	U	
1634-04-4	Methyl tert-butyl Ether	10	U	
75-34-3	1,1-Dichloroethane	10	U	
156-59-2	cis-1,2-Dichloroethene	8.5	J	
74-97-5	Bromochloromethane	10	U	
67-66-3	Chloroform	10	U	
110-82-7	Cyclohexane	10	U	
107-06-2	1,2-Dichloroethane	10	U	
78-93-3	2-Butanone	20	U	
108-87-2	Methyl Cyclohexane	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
71-43-2	Benzene	10	U	
79-01-6	Trichloroethene	280		
78-87-5	1,2-Dichloropropane	10	U	
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
124-48-1	Dibromochloromethane	10	U	
106-93-4	1,2-Dibromoethane	10	U	
75-25-2	Bromoform	10	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-17

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-012C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3995.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/9/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 2.0

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

CONCENTRATION UNITS:

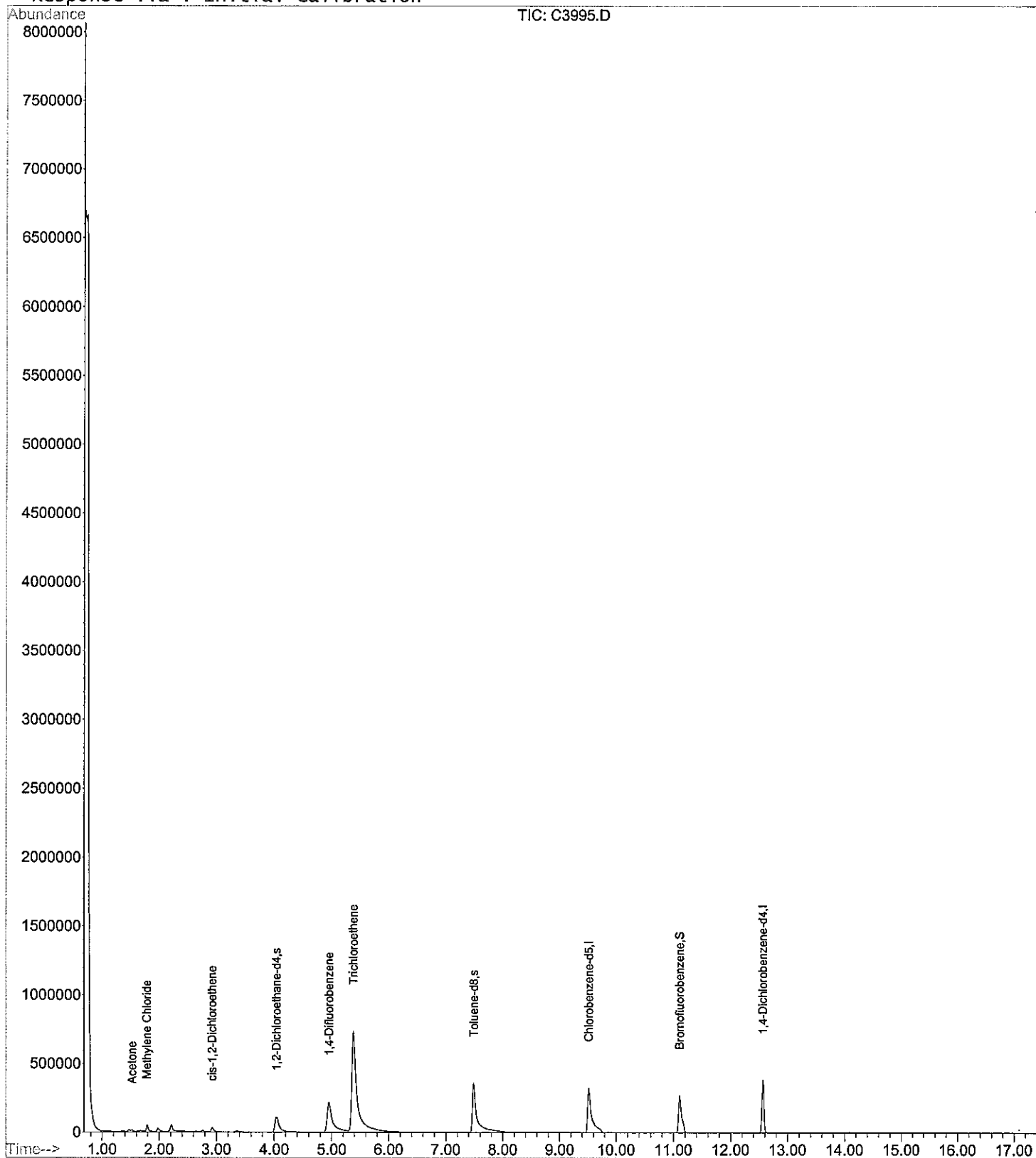
CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		20	U
108-88-3	Toluene		10	U
127-18-4	Tetrachloroethene		10	U
591-78-6	2-Hexanone		20	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m,p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U
98-82-8	Isopropylbenzene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
541-73-1	1,3-Dichlorobenzene		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		100	U
120-82-1	1,2,4-Trichlorobenzene		10	U

Data File : C:\HPCHEM\1\DATA\110909\C3995.D
Acq On : 9 Sep 2011 11:18
Sample : 110830062-012C
Misc : SAMP EPA_8260_WATER
MS Integration Params: LSCINT.P
Quant Time: Sep 9 14:09 2011

Vial: 4
Operator:
Inst : GCMS-C
Multiplr: 1.00

Quant Results File: CLP.RES

Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
Title : Voa NBL Plus Calibration
Last Update : Fri Sep 02 11:53:44 2011
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\110909\C3995.D

Vial: 4

Acq On : 9 Sep 2011 11:18

Operator:

Sample : 110830062-012C

Inst : GCMS-C

Misc : SAMP EPA_8260_WATER

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 9 14:09 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration

Last Update : Fri Sep 02 11:53:44 2011

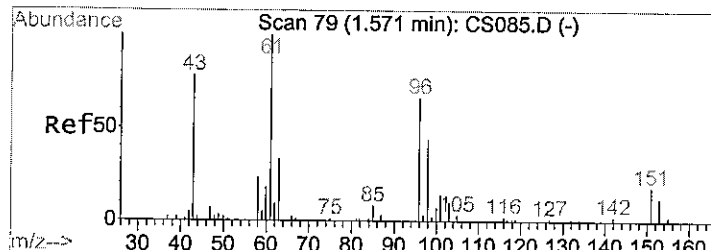
Response via : Initial Calibration

DataAcq Meth : METHOC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.95	114	739417	50.00	ug	0.01
37) Chlorobenzene-d5	9.52	117	572811	50.00	ug	0.01
71) 1,4-Dichlorobenzene-d4	12.56	150	268283	50.00	ug	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	4.04	65	209332	47.80	ug	0.00
58) Toluene-d8	7.49	98	776445	46.28	ug	0.00
69) Bromofluorobenzene	11.11	176	190044	46.13	ug	0.00
Target Compounds						
13) Acetone	1.52	43	16718	12.63	ug	Qvalue # 60
16) Methylene Chloride	1.78	49	27973	3.38	ug	90
24) cis-1,2-Dichloroethene	2.92	61	36345	4.23	ug	95
44) Trichloroethene	5.38	130	868320	141.60	ug	# 59

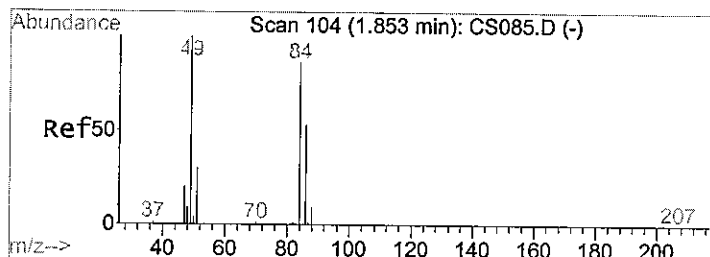
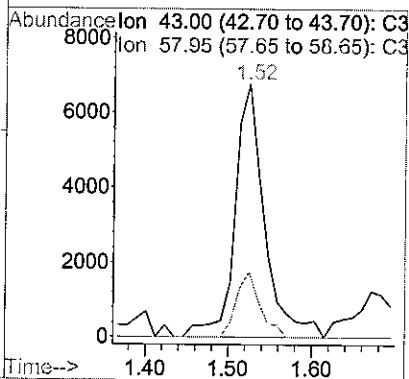
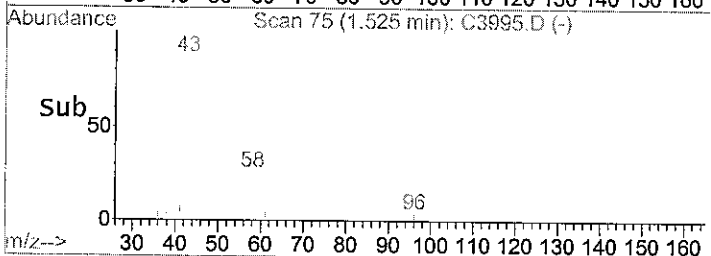
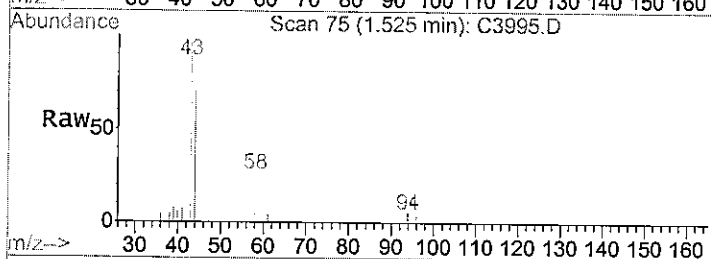
(#) = qualifier out of range (m) = manual integration

C3995.D CLP.M Tue Sep 13 14:33:17 2011



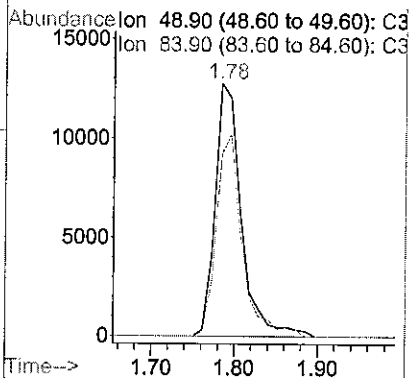
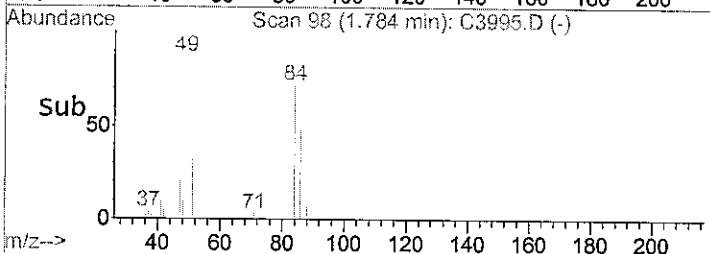
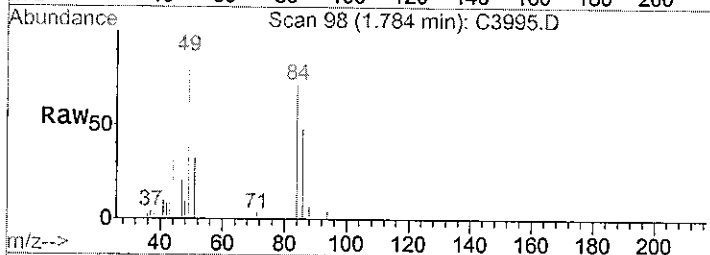
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Acetone
Concen: 12.63 ug
RT: 1.52 min Scan# 75
Delta R.T. -0.00 min
Lab File: C3995.D
Acq: 9 Sep 2011 11:18

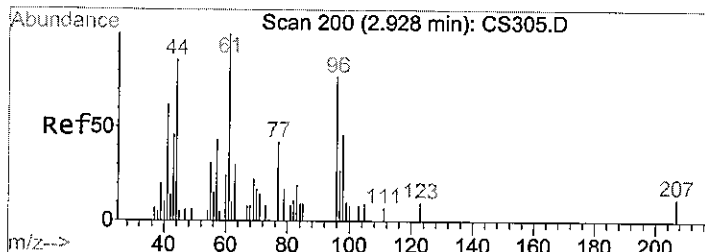
Tgt Ion: 43 Resp: 16718
Ion Ratio Lower Upper
43 100
58 20.6 5.4 8.2#



#16
Methylene Chloride
Concen: 3.38 ug
RT: 1.78 min Scan# 98
Delta R.T. -0.00 min
Lab File: C3995.D
Acq: 9 Sep 2011 11:18

Tgt Ion: 49 Resp: 27973
Ion Ratio Lower Upper
49 100
84 79.2 70.9 106.3





#24

cis-1,2-Dichloroethene

Concen: 4.23 ug

RT: 2.92 min Scan# 199

Delta R.T. -0.00 min

Lab File: C3995.D

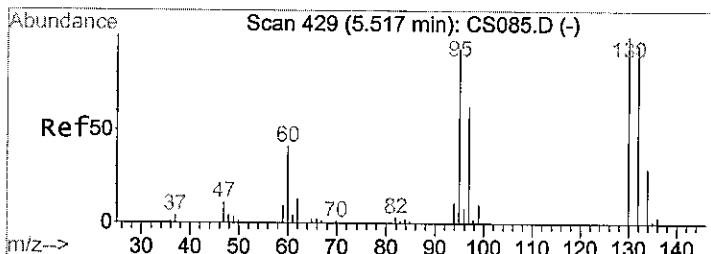
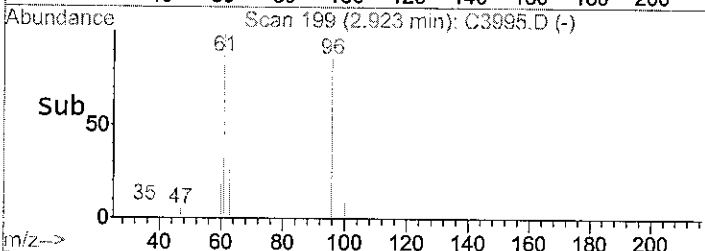
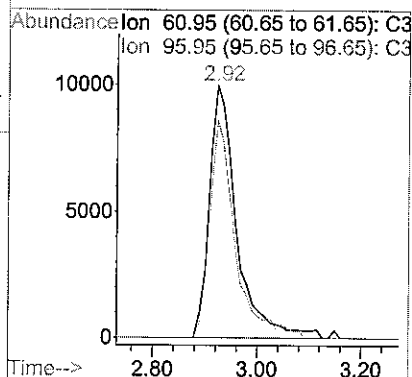
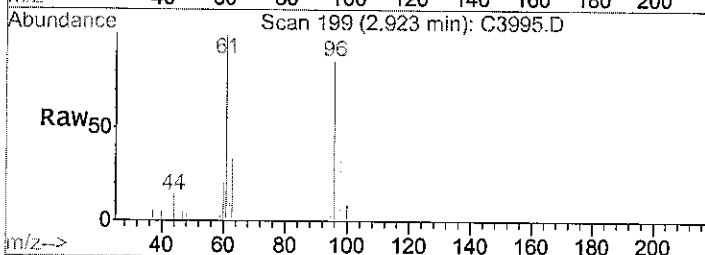
Acq: 9 Sep 2011 11:18

Tgt Ion: 61 Resp: 36345

Ion Ratio Lower Upper

61 100

96 81.4 61.7 92.5



#44

Trichloroethene

Concen: 141.60 ug

RT: 5.38 min Scan# 417

Delta R.T. -0.00 min

Lab File: C3995.D

Acq: 9 Sep 2011 11:18

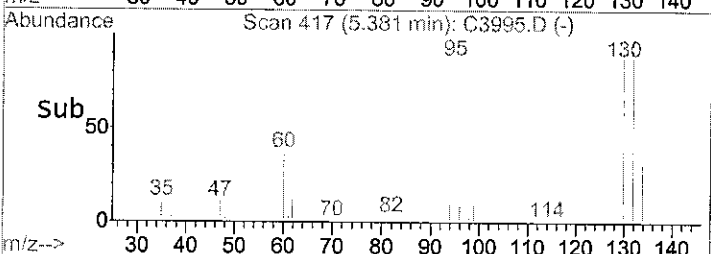
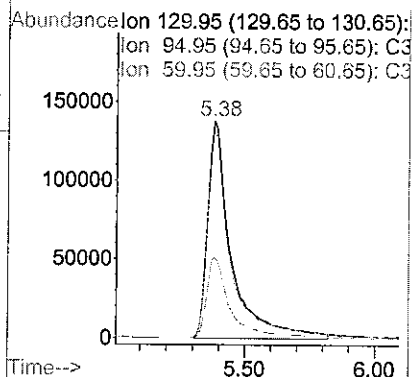
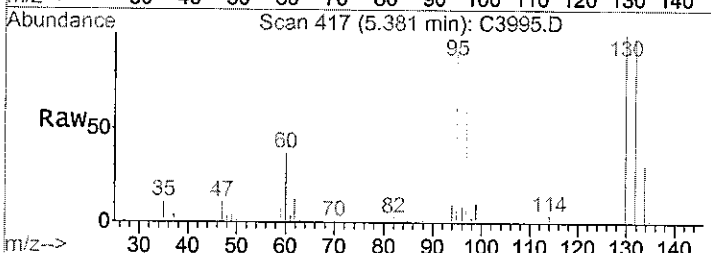
Tgt Ion: 130 Resp: 868320

Ion Ratio Lower Upper

130 100

95 94.5 85.8 128.8

60 37.7 87.8 131.6#



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-18

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-013C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3984.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
67-64-1	Acetone	17	B	
79-20-9	Methyl Acetate	5.0	U	
75-09-2	Methylene Chloride	9.4	B	
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl tert-butyl Ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
156-59-2	cis-1,2-Dichloroethene	5.0	U	
74-97-5	Bromochloromethane	5.0	U	
67-66-3	Chloroform	5.0	U	
110-82-7	Cyclohexane	5.0	U	
107-06-2	1,2-Dichloroethane	5.0	U	
78-93-3	2-Butanone	10	U	
108-87-2	Methyl Cyclohexane	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
56-23-5	Carbon Tetrachloride	5.0	U	
71-43-2	Benzene	5.0	U	
79-01-6	Trichloroethene	2.6	J	
78-87-5	1,2-Dichloropropane	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
124-48-1	Dibromochloromethane	5.0	U	
106-93-4	1,2-Dibromoethane	5.0	U	
75-25-2	Bromoform	5.0	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-18

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER

Lab Sample ID: 110830062-013C

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: C3984.D

Level (low/med): _____

Date Received: 9/1/11

% Moisture: not dec. 100

Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

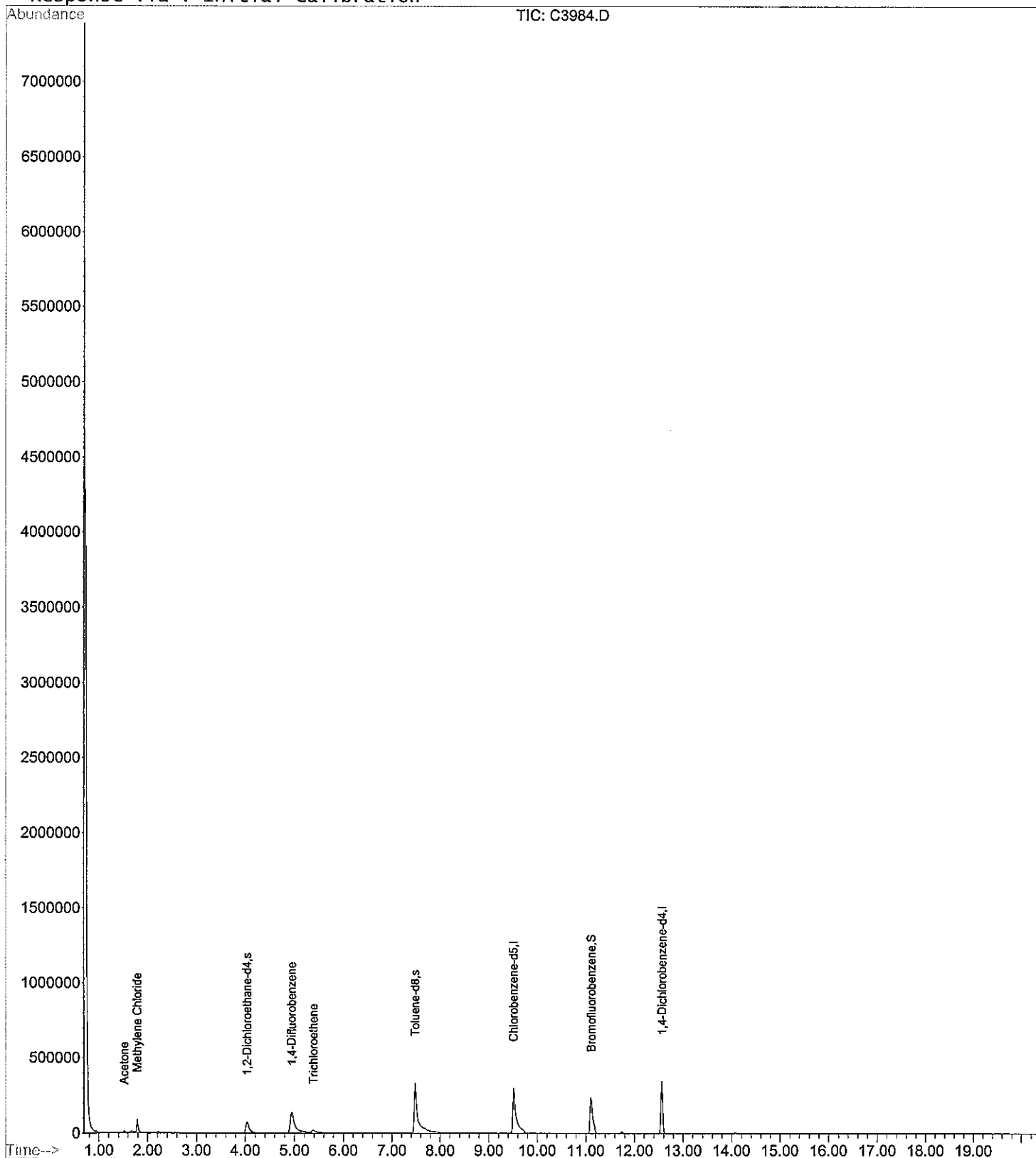
CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		5.0	U
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		10	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethyl Benzene		5.0	U
126777-61-2	m,p-Xylenes		5.0	U
95-47-6	o-Xylene		5.0	U
100-42-5	Styrene		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane		50	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\110908\C3984.D Vial: 16
 Acq On : 8 Sep 2011 17:15 Operator:
 Sample : 110830062-013C Inst : GCMS-C
 Misc : SAMP EPA_8260_WATER Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Sep 9 11:43 2011 Quant Results File: CLP.RES

Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
 Title : Voa NBL Plus Calibration
 Last Update : Fri Sep 02 11:53:44 2011
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\110908\C3984.D

Vial: 16

Acq On : 8 Sep 2011 17:15

Operator:

Sample : 110830062-013C

Inst : GCMS-C

Misc : SAMP EPA_8260_WATER

Multiplic: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 9 11:43 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration

Last Update : Fri Sep 02 11:53:44 2011

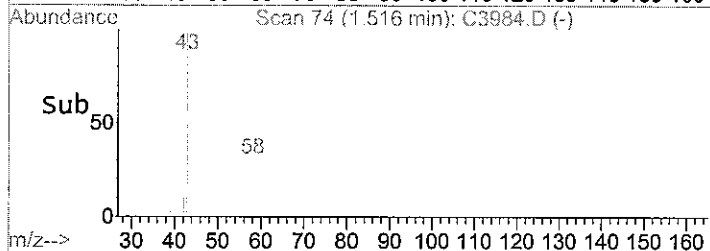
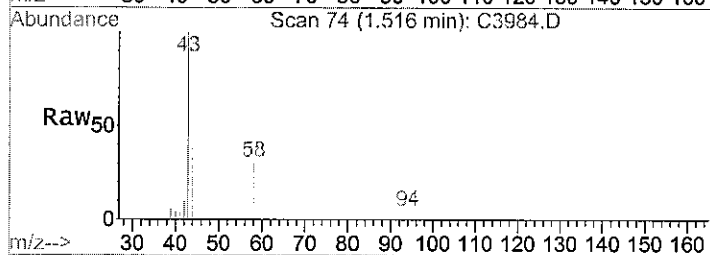
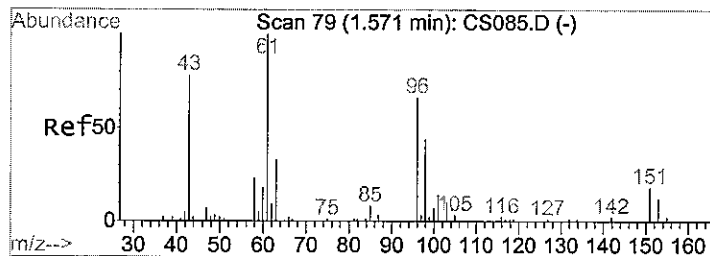
Response via : Initial Calibration

DataAcq Meth : METH0C

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.94	114	516711m	50.00	ug	0.00
37) Chlorobenzene-d5	9.51	117	514794	50.00	ug	0.00
71) 1,4-Dichlorobenzene-d4	12.57	150	239811	50.00	ug	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	4.03	65	138520	45.26	ug	0.00
58) Toluene-d8	7.48	98	677091	44.91	ug	0.00
69) Bromofluorobenzene	11.11	176	171469	46.31	ug	0.00
Target Compounds						
13) Acetone	1.52	43	15782m	17.06	ug	Qvalue
16) Methylene chloride	1.79	49	54371	9.41	ug	90
44) Trichloroethene	5.38	130	14140	2.57	ug	# 62

(#) = qualifier out of range (m) = manual integration

C3984.D CLP.M Tue Sep 13 14:28:05 2011



#13

Acetone

Concen: 17.06 ug m

RT: 1.52 min Scan# 74

Delta R.T. -0.01 min

Lab File: C3984.D

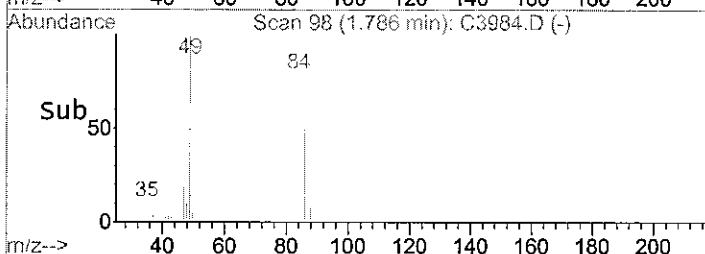
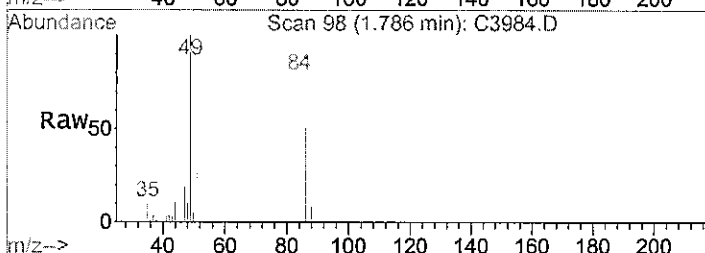
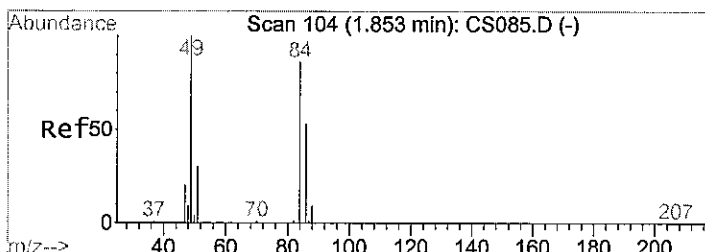
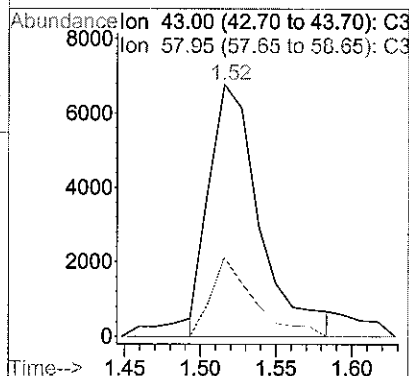
Acq: 8 Sep 2011 17:15

Tgt Ion: 43 Resp: 15782

Ion Ratio Lower Upper

43 100

58 26.3 5.4 8.2#



#16

Methylene Chloride

Concen: 9.41 ug

RT: 1.79 min Scan# 98

Delta R.T. 0.00 min

Lab File: C3984.D

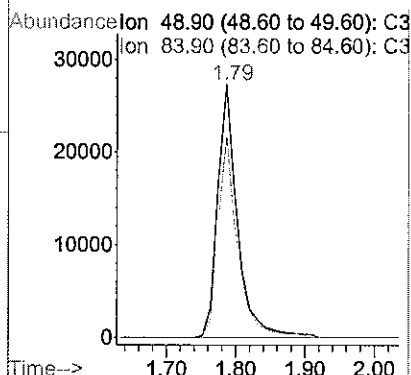
Acq: 8 Sep 2011 17:15

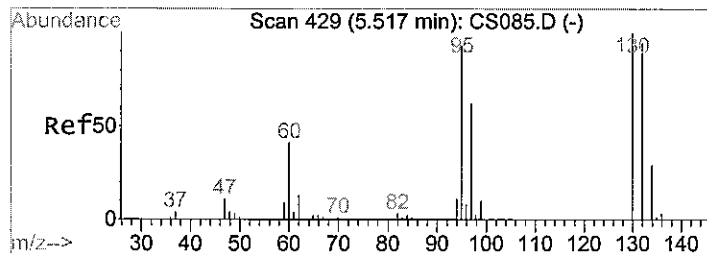
Tgt Ion: 49 Resp: 54371

Ion Ratio Lower Upper

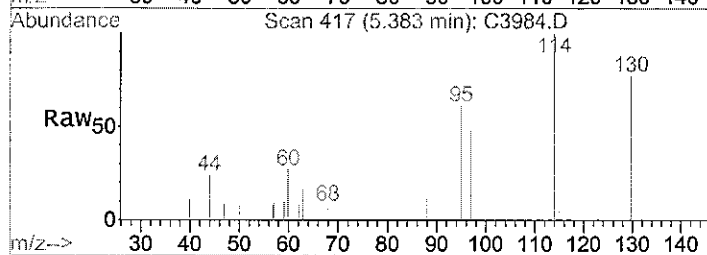
49 100

84 79.6 70.9 106.3

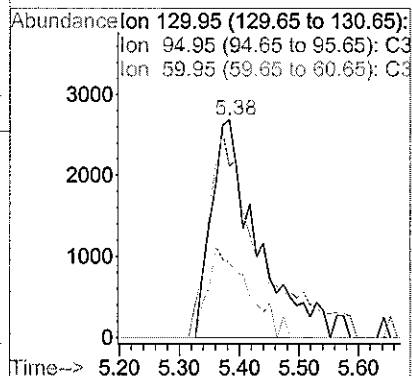
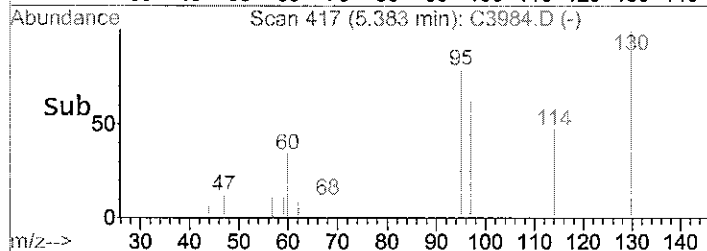




#44
 Trichloroethene
 Concen: 2.57 ug
 RT: 5.38 min Scan# 417
 Delta R.T. 0.00 min
 Lab File: C3984.D
 Acq: 8 Sep 2011 17:15



Tgt Ion:	130	Resp:	14140
Ion	Ratio	Lower	Upper
130	100		
95	102.1	85.8	128.8
60	36.0	87.8	131.6#



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-19

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-007C

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: C3978.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane		10	U
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		5.0	U
75-35-4	1,1-Dichloroethene		5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-tri		5.0	U
75-15-0	Carbon disulfide		5.0	U
67-64-1	Acetone		27	B
79-20-9	Methyl Acetate		5.0	U
75-09-2	Methylene Chloride		6.8	B
156-60-5	trans-1,2-Dichloroethene		5.0	U
1634-04-4	Methyl tert-butyl Ether		5.0	U
75-34-3	1,1-Dichloroethane		5.0	U
156-59-2	cis-1,2-Dichloroethene		5.0	U
74-97-5	Bromochloromethane		5.0	U
67-66-3	Chloroform		5.0	U
110-82-7	Cyclohexane		5.0	U
107-06-2	1,2-Dichloroethane		5.0	U
78-93-3	2-Butanone		10	U
108-87-2	Methyl Cyclohexane		5.0	U
71-55-6	1,1,1-Trichloroethane		5.0	U
56-23-5	Carbon Tetrachloride		5.0	U
71-43-2	Benzene		5.0	U
79-01-6	Trichloroethene		5.0	U
78-87-5	1,2-Dichloropropane		5.0	U
75-27-4	Bromodichloromethane		5.0	U
10061-01-5	cis-1,3-Dichloropropene		5.0	U
10061-02-6	trans-1,3-Dichloropropene		5.0	U
79-00-5	1,1,2-Trichloroethane		5.0	U
124-48-1	Dibromochloromethane		5.0	U
106-93-4	1,2-Dibromoethane		5.0	U
75-25-2	Bromoform		5.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-19

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER

Lab Sample ID: 110830062-007C

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: C3978.D

Level (low/med): _____

Date Received: 9/1/11

% Moisture: not dec. 100

Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

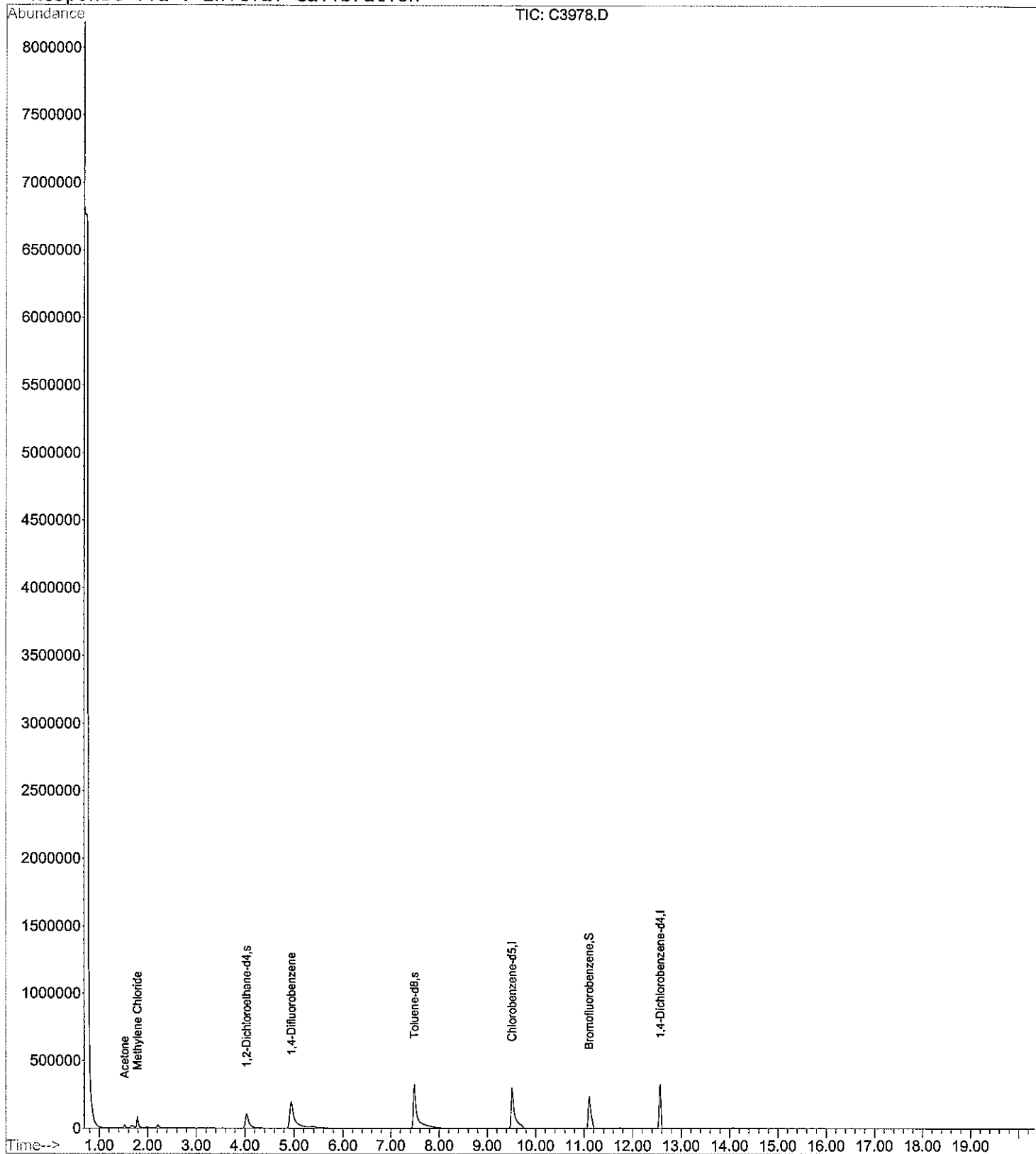
Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone	10	U	
108-88-3	Toluene	5.0	U	
127-18-4	Tetrachloroethene	5.0	U	
591-78-6	2-Hexanone	10	U	
108-90-7	Chlorobenzene	5.0	U	
100-41-4	Ethyl Benzene	5.0	U	
126777-61-2	m,p-Xylenes	5.0	U	
95-47-6	o-Xylene	5.0	U	
100-42-5	Styrene	5.0	U	
98-82-8	Isopropylbenzene	5.0	U	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	
541-73-1	1,3-Dichlorobenzene	5.0	U	
106-46-7	1,4-Dichlorobenzene	5.0	U	
95-50-1	1,2-Dichlorobenzene	5.0	U	
96-12-8	1,2-Dibromo-3-Chloropropane	50	U	
120-82-1	1,2,4-Trichlorobenzene	5.0	U	

Data File : C:\HPCHEM\1\DATA\110908\C3978.D Vial: 10
 Acq On : 8 Sep 2011 14:24 Operator:
 Sample : 110830062-007C Inst : GCMS-C
 Misc : SAMP EPA_8260_WATER Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Sep 9 11:40 2011 Quant Results File: CLP.RES

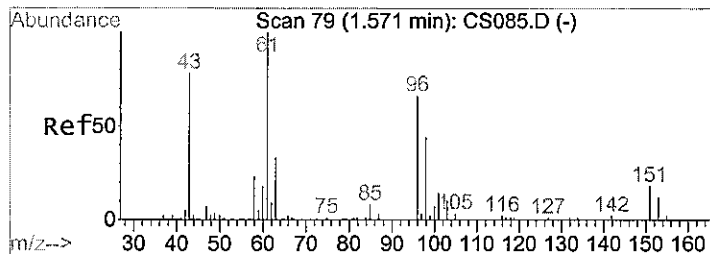
Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
 Title : Voa NBL Plus Calibration
 Last Update : Fri Sep 02 11:53:44 2011
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\110908\C3978.D Vial: 10
 Acq On : 8 Sep 2011 14:24 Operator:
 Sample : 110830062-007C Inst : GCMS-C
 Misc : SAMP EPA_8260_WATER Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Sep 9 11:40 2011 Quant Results File: CLP.RES

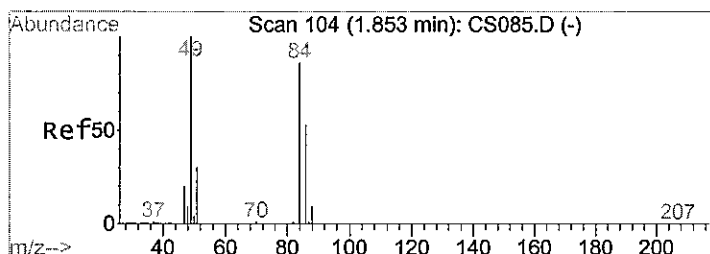
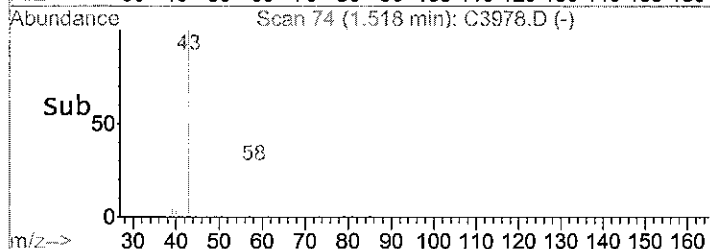
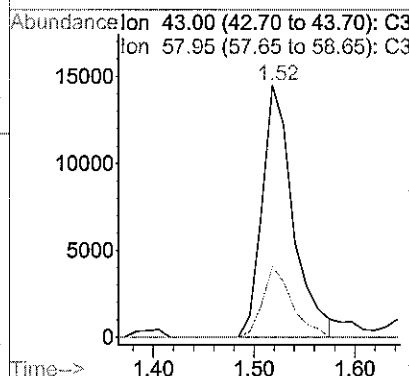
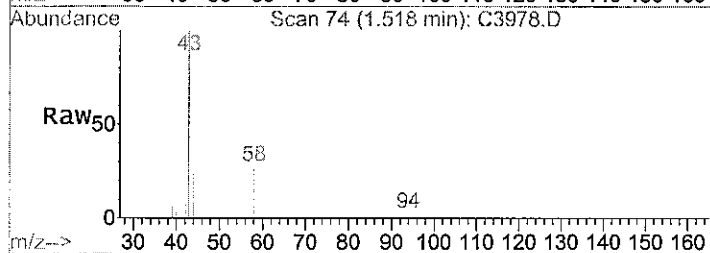
Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
 Title : Voa NBL Plus Calibration
 Last Update : Fri Sep 02 11:53:44 2011
 Response via : Initial Calibration
 DataAcq Meth : METH0C

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.95	114	646395	50.00	ug	0.00
37) Chlorobenzene-d5	9.51	117	521266	50.00	ug	0.00
71) 1,4-Dichlorobenzene-d4	12.57	150	237943	50.00	ug	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	4.03	65	188704	49.29	ug	0.00
58) Toluene-d8	7.48	98	714930	46.83	ug	0.00
69) Bromofluorobenzene	11.10	176	173611	46.31	ug	0.00
Target Compounds						Qvalue
13) Acetone	1.52	43	31034m	26.81	ug	
16) Methylene Chloride	1.79	49	49482	6.84	ug	93



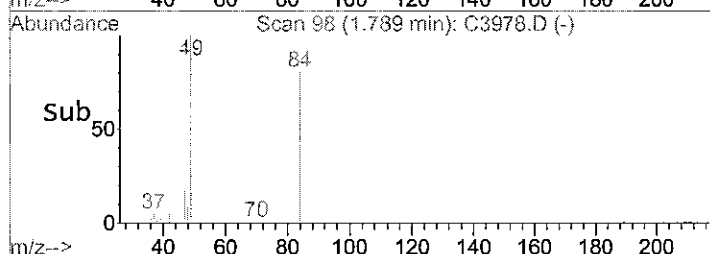
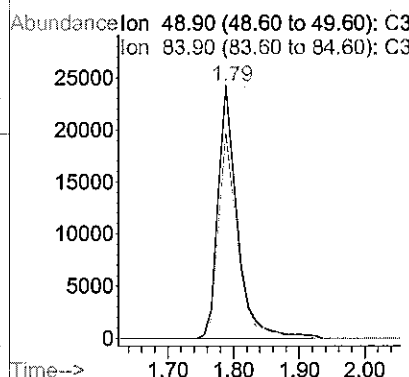
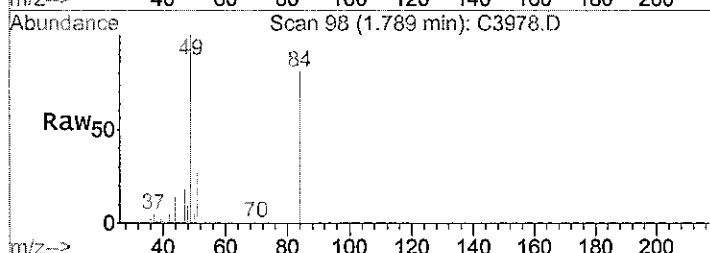
#13
 Acetone
 Concen: 26.81 ug m
 RT: 1.52 min Scan# 74
 Delta R.T. -0.01 min
 Lab File: C3978.D
 Acq: 8 Sep 2011 14:24

Tgt Ion: 43 Resp: 31034
 Ion Ratio Lower Upper
 43 100
 58 26.4 5.4 8.2#



#16
 Methylene Chloride
 Concen: 6.84 ug
 RT: 1.79 min Scan# 98
 Delta R.T. 0.00 min
 Lab File: C3978.D
 Acq: 8 Sep 2011 14:24

Tgt Ion: 49 Resp: 49482
 Ion Ratio Lower Upper
 49 100
 84 82.3 70.9 106.3



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-20

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-011C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3982.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
67-64-1	Acetone	24	B	
79-20-9	Methyl Acetate	5.0	U	
75-09-2	Methylene Chloride	9.7	B	
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl tert-butyl Ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
156-59-2	cis-1,2-Dichloroethene	5.0	U	
74-97-5	Bromochloromethane	5.0	U	
67-66-3	Chloroform	5.0	U	
110-82-7	Cyclohexane	5.0	U	
107-06-2	1,2-Dichloroethane	5.0	U	
78-93-3	2-Butanone	10	U	
108-87-2	Methyl Cyclohexane	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
56-23-5	Carbon Tetrachloride	5.0	U	
71-43-2	Benzene	5.0	U	
79-01-6	Trichloroethene	5.0	U	
78-87-5	1,2-Dichloropropane	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
124-48-1	Dibromochloromethane	5.0	U	
106-93-4	1,2-Dibromoethane	5.0	U	
75-25-2	Bromoform	5.0	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-20

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER

Lab Sample ID: 110830062-011C

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: C3982.D

Level (low/med): _____

Date Received: 9/1/11

% Moisture: not dec. 100

Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

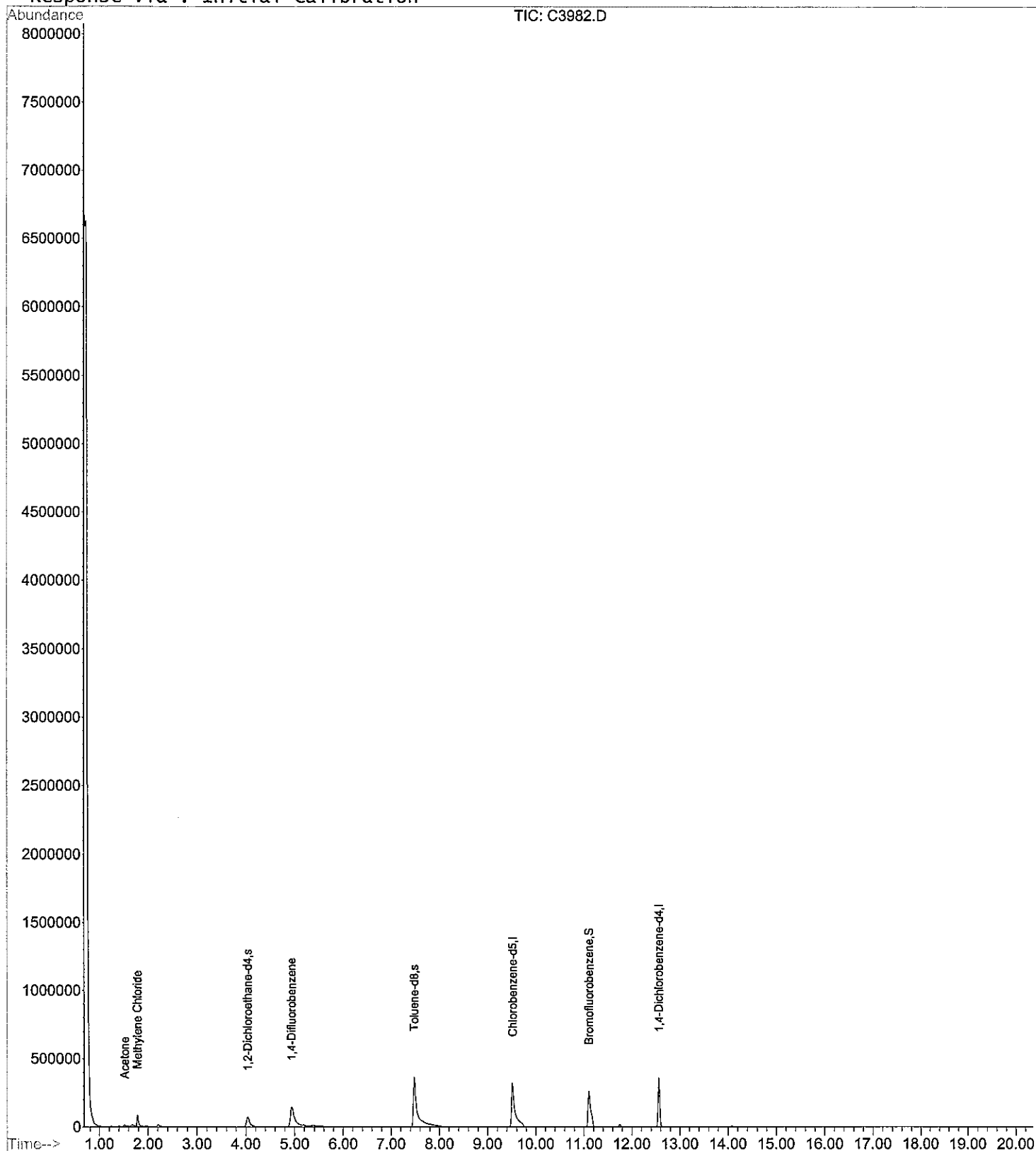
CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		5.0	U
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		10	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethyl Benzene		5.0	U
126777-61-2	m,p-Xylenes		5.0	U
95-47-6	o-Xylene		5.0	U
100-42-5	Styrene		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane		50	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\110908\C3982.D Vial: 14
 Acq On : 8 Sep 2011 16:17 Operator:
 Sample : 110830062-011C Inst : GCMS-C
 Misc : SAMP EPA_8260_WATER Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Sep 9 11:42 2011 Quant Results File: CLP.RES

Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
 Title : Voa NBL Plus Calibration
 Last Update : Fri Sep 02 11:53:44 2011
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\110908\C3982.D

Vial: 14

Acq On : 8 Sep 2011 16:17

Operator:

Sample : 110830062-011C

Inst : GCMS-C

Misc : SAMP EPA_8260_WATER

Multiplier: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 9 11:42 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

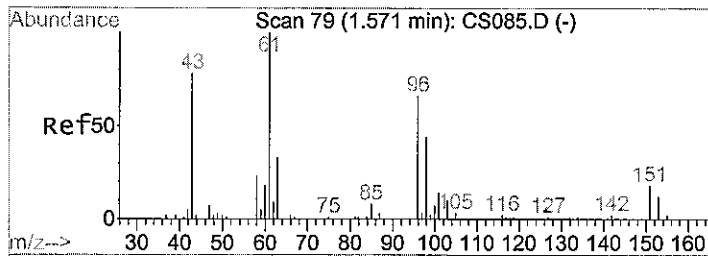
Title : Voa NBL Plus Calibration

Last Update : Fri Sep 02 11:53:44 2011

Response via : Initial Calibration

DataAcq Meth : METH0C

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.94	114	453540	50.00	ug	0.00
37) Chlorobenzene-d5	9.52	117	580371	50.00	ug	0.00
71) 1,4-Dichlorobenzene-d4	12.56	150	258312	50.00	ug	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	4.04	65	141832	52.80	ug	0.00
58) Toluene-d8	7.48	98	799690	47.04	ug	-0.01
69) Bromofluorobenzene	11.11	176	196240	47.01	ug	0.00
Target Compounds						
13) Acetone	1.52	43	19407m	23.90	ug	Qvalue
16) Methylene chloride	1.78	49	49141	9.69	ug	92



#13

Acetone

Concen: 23.90 ug m

RT: 1.52 min Scan# 75

Delta R.T. -0.00 min

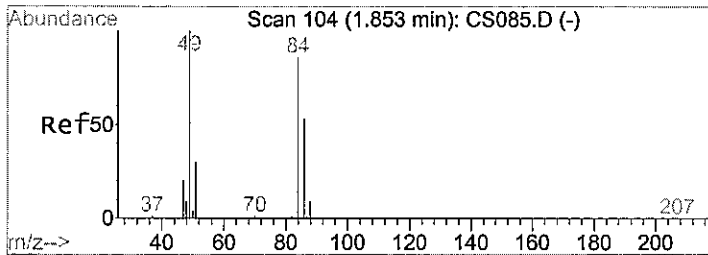
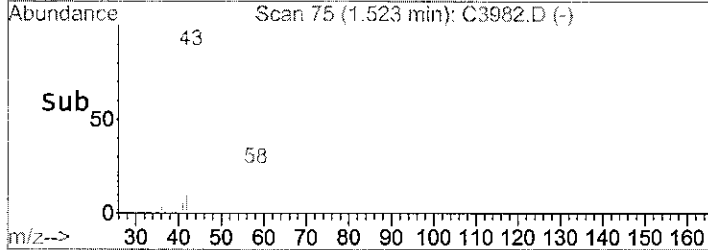
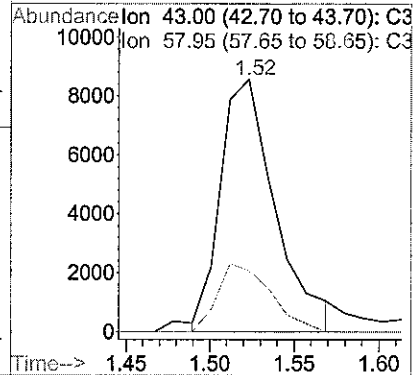
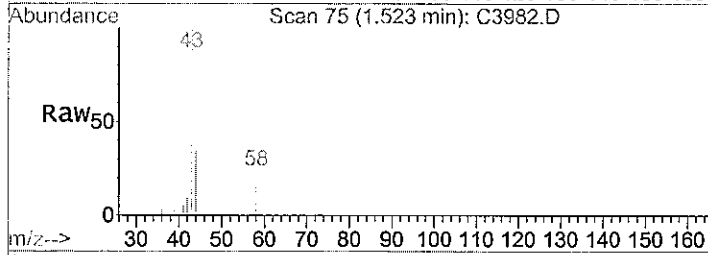
Lab File: C3982.D

Acq: 8 Sep 2011 16:17

Tgt Ion: 43 Resp: 19407

Ion Ratio Lower Upper

43 100
58 26.1 5.4 8.2#



#16

Methylene chloride

Concen: 9.69 ug

RT: 1.78 min Scan# 98

Delta R.T. -0.00 min

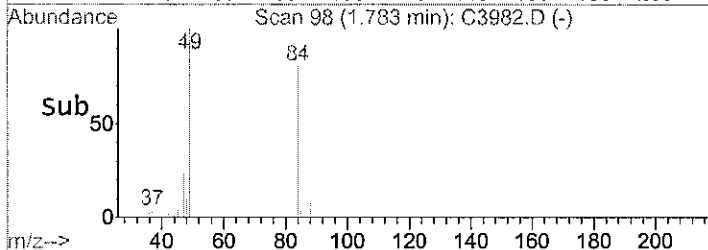
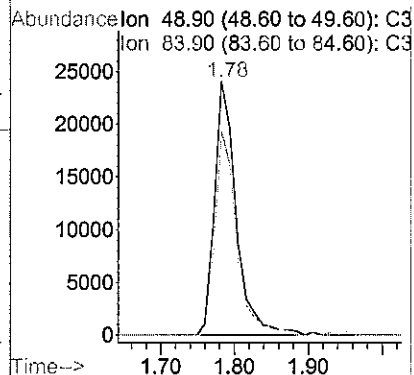
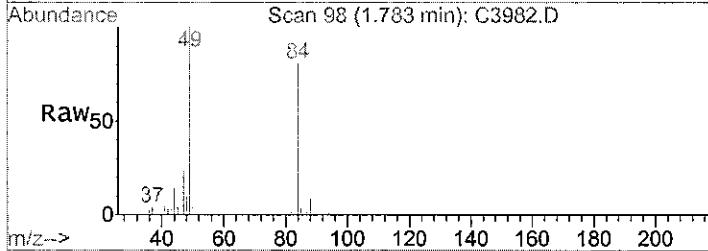
Lab File: C3982.D

Acq: 8 Sep 2011 16:17

Tgt Ion: 49 Resp: 49141

Ion Ratio Lower Upper

49 100
84 80.9 70.9 106.3



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-Dup

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-015C

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3990.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane		10	U
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		5.0	U
75-35-4	1,1-Dichloroethene		5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-tri		5.0	U
75-15-0	Carbon disulfide		5.0	U
67-64-1	Acetone		12	B
79-20-9	Methyl Acetate		5.0	U
75-09-2	Methylene Chloride		6.2	B
156-60-5	trans-1,2-Dichloroethene		5.0	U
1634-04-4	Methyl tert-butyl Ether		5.0	U
75-34-3	1,1-Dichloroethane		5.0	U
156-59-2	cis-1,2-Dichloroethene		5.0	U
74-97-5	Bromochloromethane		5.0	U
67-66-3	Chloroform		5.0	J
110-82-7	Cyclohexane		5.0	U
107-06-2	1,2-Dichloroethane		5.0	U
78-93-3	2-Butanone		10	U
108-87-2	Methyl Cyclohexane		5.0	U
71-55-6	1,1,1-Trichloroethane		5.0	U
56-23-5	Carbon Tetrachloride		5.0	U
71-43-2	Benzene		5.0	U
79-01-6	Trichloroethene		5.0	U
78-87-5	1,2-Dichloropropane		5.0	U
75-27-4	Bromodichloromethane		5.0	U
10061-01-5	cis-1,3-Dichloropropene		5.0	U
10061-02-6	trans-1,3-Dichloropropene		5.0	U
79-00-5	1,1,2-Trichloroethane		5.0	U
124-48-1	Dibromochloromethane		5.0	U
106-93-4	1,2-Dibromoethane		5.0	U
75-25-2	Bromoform		5.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-Dup

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER

Lab Sample ID: 110830062-015C

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: C3990.D

Level (low/med): _____

Date Received: 9/1/11

% Moisture: not dec. 100

Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

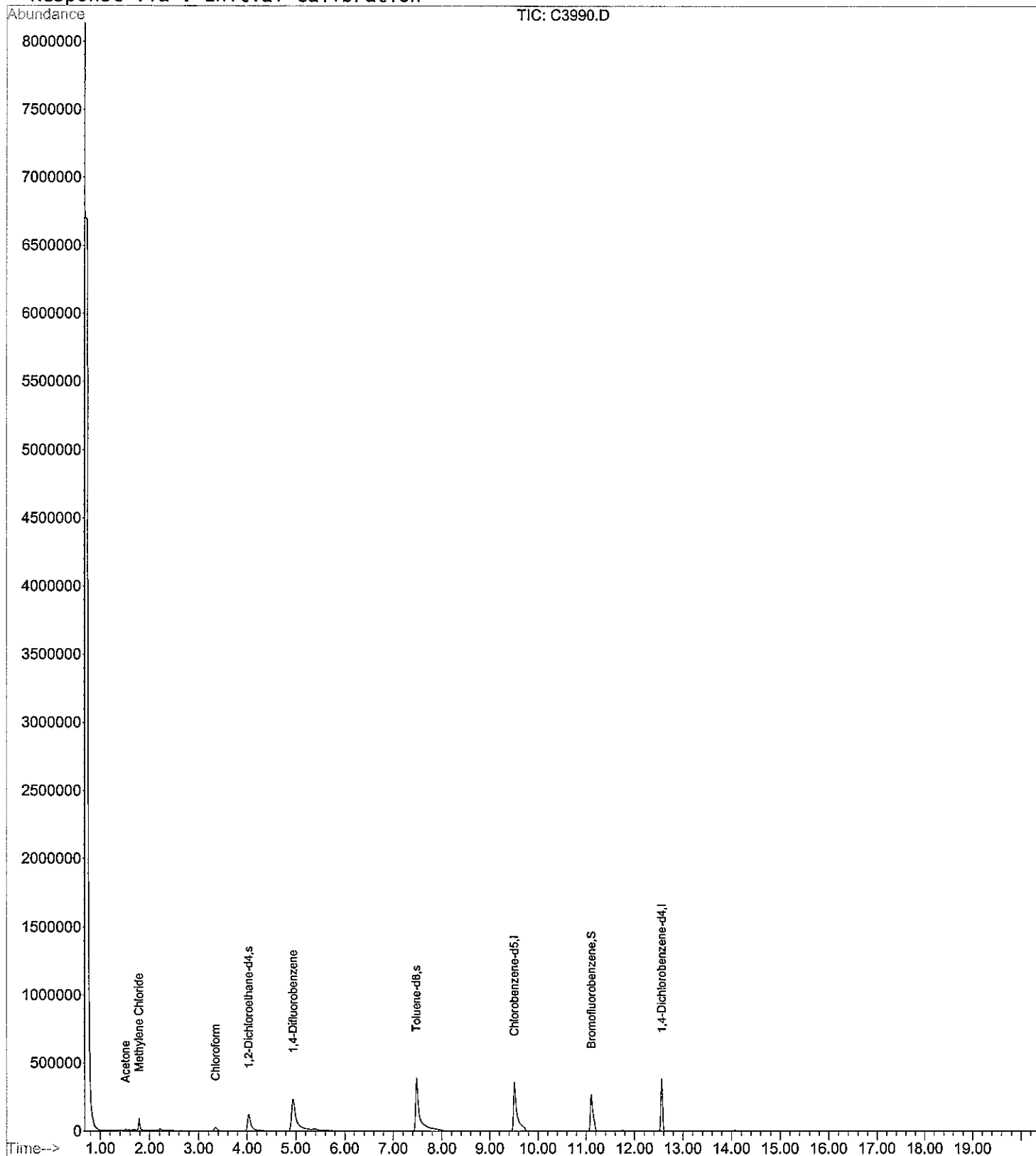
CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		5.0	U
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		10	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethyl Benzene		5.0	U
126777-61-2	m,p-Xylenes		5.0	U
95-47-6	o-Xylene		5.0	U
100-42-5	Styrene		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane		50	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\110908\C3990.D Vial: 22
 Acq On : 8 Sep 2011 20:12 Operator:
 Sample : 110830062-015C Inst : GCMS-C
 Misc : SAMP EPA_8260_WATER Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Sep 9 11:45 2011 Quant Results File: CLP.RES

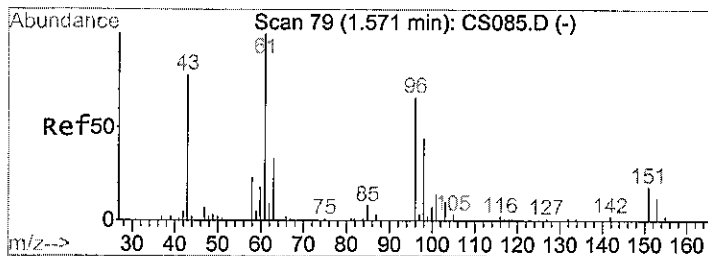
Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
 Title : Voa NBL Plus Calibration
 Last Update : Fri Sep 02 11:53:44 2011
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\110908\C3990.D Vial: 22
 Acq On : 8 Sep 2011 20:12 Operator:
 Sample : 110830062-015C Inst : GCMS-C
 Misc : SAMP EPA_8260_WATER Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Sep 9 11:45 2011 Quant Results File: CLP.RES

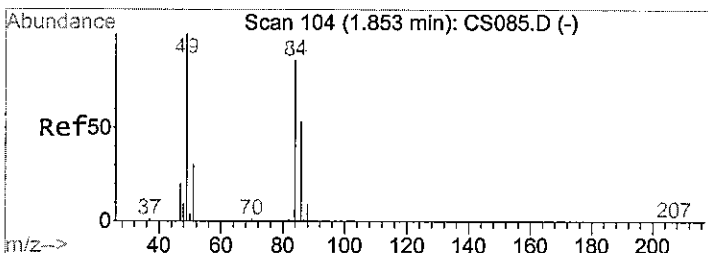
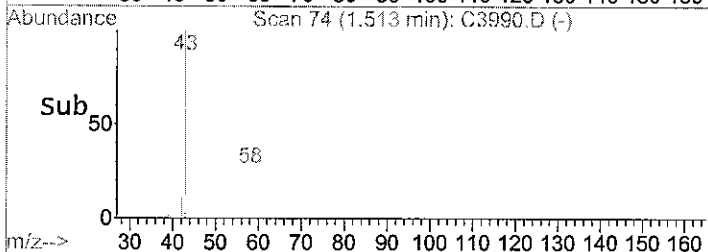
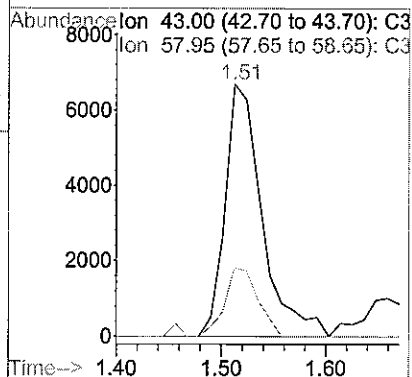
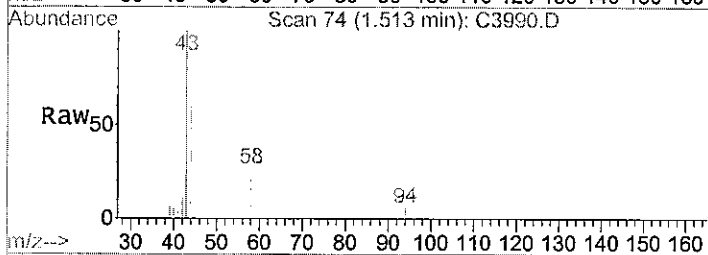
Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
 Title : Voa NBL Plus Calibration
 Last Update : Fri Sep 02 11:53:44 2011
 Response via : Initial Calibration
 DataAcq Meth : METH0C

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.94	114	787278	50.00	ug	0.00
37) Chlorobenzene-d5	9.51	117	617098	50.00	ug	0.00
71) 1,4-Dichlorobenzene-d4	12.56	150	262832	50.00	ug	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	4.03	65	220275	47.24	ug	-0.01
58) Toluene-d8	7.48	98	806176	44.60	ug	-0.01
69) Bromofluorobenzene	11.11	176	199397	44.92	ug	0.00
Target Compounds						
13) Acetone	1.51	43	16281	11.55	ug	Qvalue # 49
16) Methylene Chloride	1.78	49	54813	6.22	ug	89
30) Chloroform	3.35	83	48132	4.95	ug	96



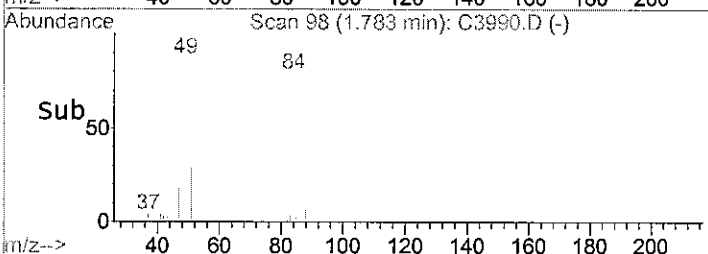
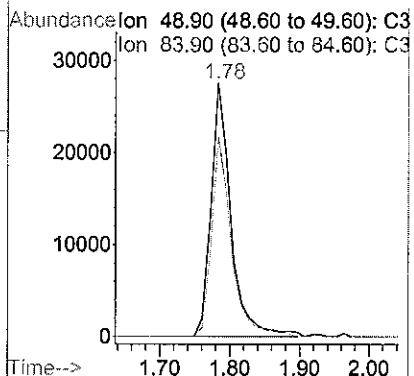
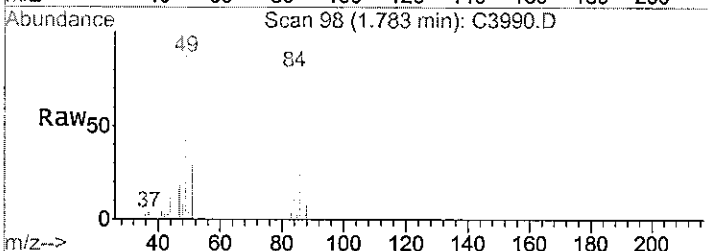
#13
Acetone
Concen: 11.55 ug
RT: 1.51 min Scan# 74
Delta R.T. -0.01 min
Lab File: C3990.D
Acq: 8 Sep 2011 20:12

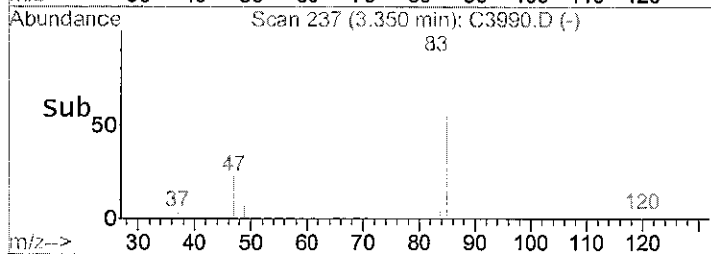
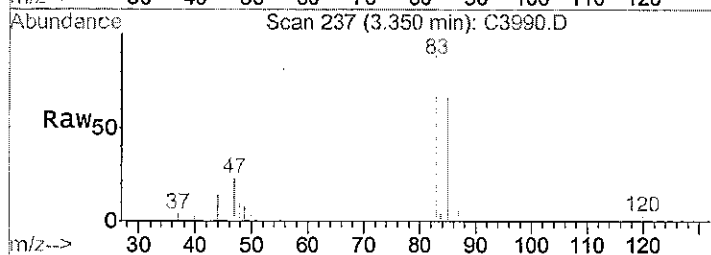
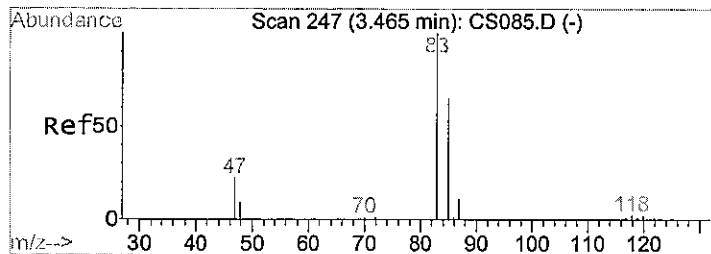
Tgt Ion: 43 Resp: 16281
Ion Ratio Lower Upper
43 100
58 24.3 5.4 8.2#



#16
Methylene chloride
Concen: 6.22 ug
RT: 1.78 min Scan# 98
Delta R.T. -0.00 min
Lab File: C3990.D
Acq: 8 Sep 2011 20:12

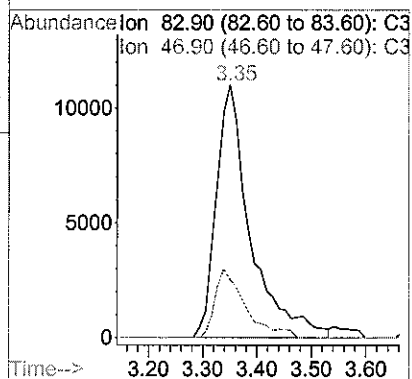
Tgt Ion: 49 Resp: 54813
Ion Ratio Lower Upper
49 100
84 78.0 70.9 106.3





#30
 Chloroform
 Concen: 4.95 ug
 RT: 3.35 min Scan# 237
 Delta R.T. -0.00 min
 Lab File: C3990.D
 Acq: 8 Sep 2011 20:12

Tgt Ion	Ratio	Lower	Upper
83	100		
47	24.3	20.9	31.3



VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Trip Blank Lot #260

Lab Name: AES, Inc.

Contract: _____

Lab Code: AESCase No.: AEC1102

SAS No.: _____

SDG No.: MW-1RMatrix (soil/water): WATERLab Sample ID: 110830062-005ASample wt/vol: 5.0 (g/mL) mlLab File ID: C3976.D

Level (low/med): _____

Date Received: 8/30/11% Moisture: not dec. 100Date Analyzed: 9/8/11GC Column: DB624ID: 0.18 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane		10	U
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		5.0	U
75-35-4	1,1-Dichloroethene		5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-tri		5.0	U
75-15-0	Carbon disulfide		5.0	U
67-64-1	Acetone		5.9	JB
79-20-9	Methyl Acetate		5.0	U
75-09-2	Methylene Chloride		9.0	B
156-60-5	trans-1,2-Dichloroethene		5.0	U
1634-04-4	Methyl tert-butyl Ether		5.0	U
75-34-3	1,1-Dichloroethane		5.0	U
156-59-2	cis-1,2-Dichloroethene		5.0	U
74-97-5	Bromochloromethane		5.0	U
67-66-3	Chloroform		5.0	U
110-82-7	Cyclohexane		5.0	U
107-06-2	1,2-Dichloroethane		5.0	U
78-93-3	2-Butanone		10	U
108-87-2	Methyl Cyclohexane		5.0	U
71-55-6	1,1,1-Trichloroethane		5.0	U
56-23-5	Carbon Tetrachloride		5.0	U
71-43-2	Benzene		5.0	U
79-01-6	Trichloroethene		5.0	U
78-87-5	1,2-Dichloropropane		5.0	U
75-27-4	Bromodichloromethane		5.0	U
10061-01-5	cis-1,3-Dichloropropene		5.0	U
10061-02-6	trans-1,3-Dichloropropene		5.0	U
79-00-5	1,1,2-Trichloroethane		5.0	U
124-48-1	Dibromochloromethane		5.0	U
106-93-4	1,2-Dibromoethane		5.0	U
75-25-2	Bromoform		5.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Trip Blank Lot #260

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-005A

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3976.D

Level (low/med): _____ Date Received: 8/30/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		5.0	U
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		10	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethyl Benzene		5.0	U
126777-61-2	m,p-Xylenes		5.0	U
95-47-6	o-Xylene		5.0	U
100-42-5	Styrene		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane		50	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U

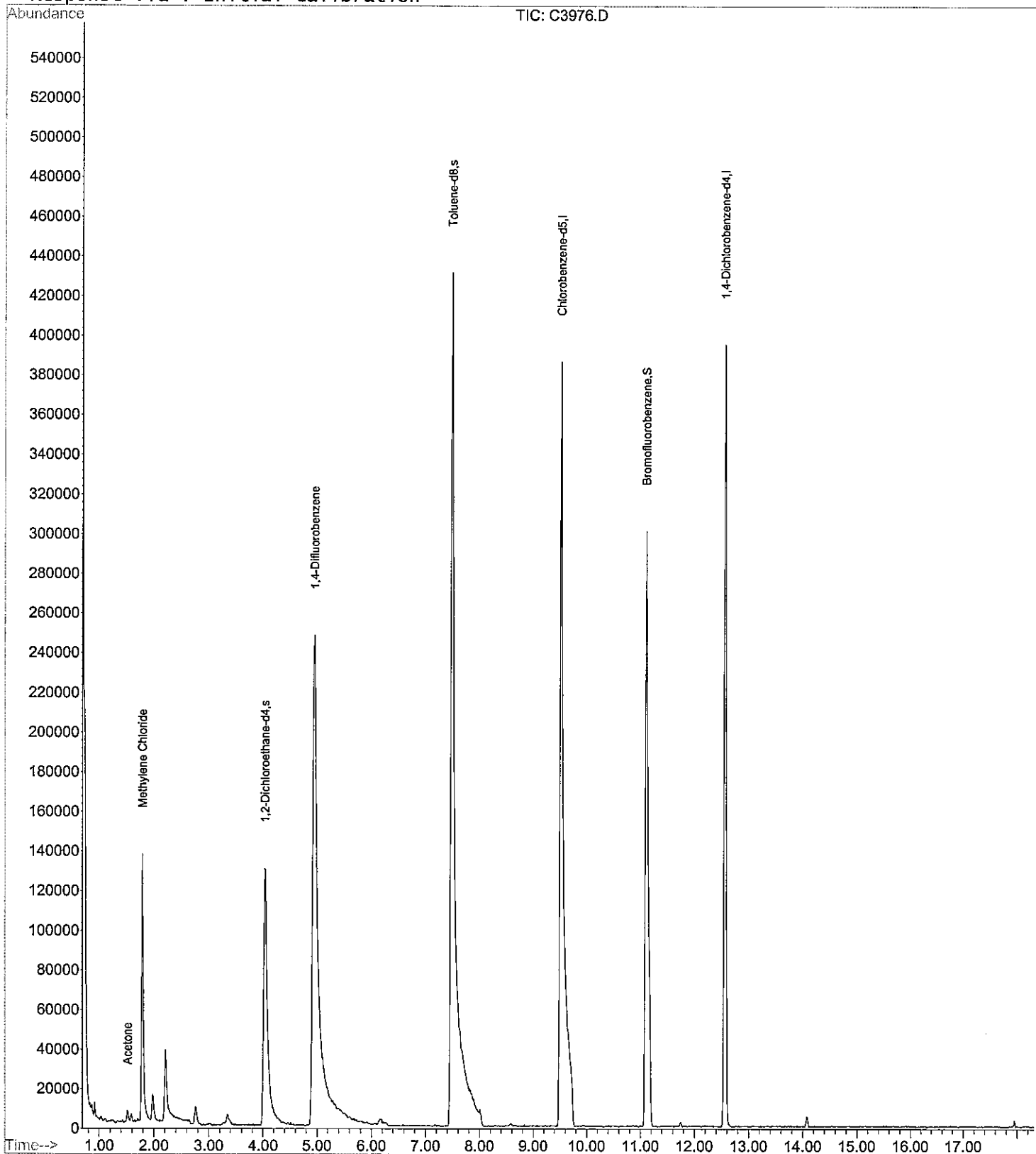
Quantitation Report

Data File : C:\HPCHEM\1\DATA\110908\C3976.D
 Acq On : 8 Sep 2011 13:28
 Sample : 110830062-005A
 Misc : SAMP EPA_8260_WATER
 MS Integration Params: LSCINT.P
 Quant Time: Sep 9 11:39 2011

Vial: 8
 Operator:
 Inst : GCMS-C
 Multiplr: 1.00

Quant Results File: CLP.RES

Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
 Title : Voa NBL Plus Calibration
 Last Update : Fri Sep 02 11:53:44 2011
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\110908\C3976.D

Acq On : 8 Sep 2011 13:28

Sample : 110830062-005A

Misc : SAMP EPA_8260_WATER

MS Integration Params: LSCINT.P

Quant Time: Sep 9 11:39 2011

Vial: 8

Operator:

Inst : GCMS-C

Multiplr: 1.00

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

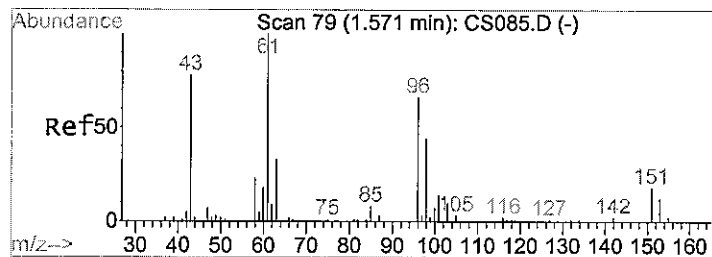
Title : Voa NBL Plus Calibration

Last Update : Fri Sep 02 11:53:44 2011

Response via : Initial Calibration

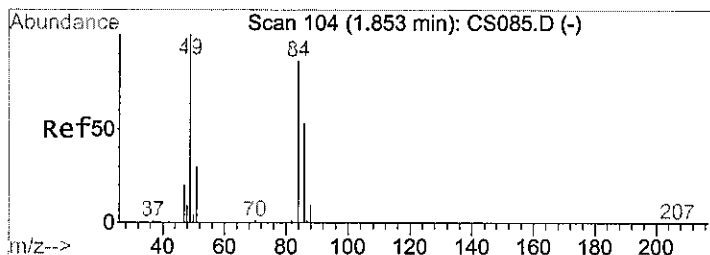
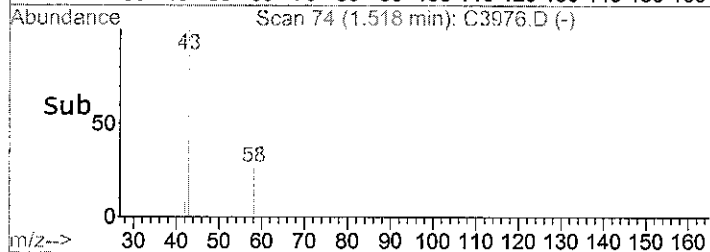
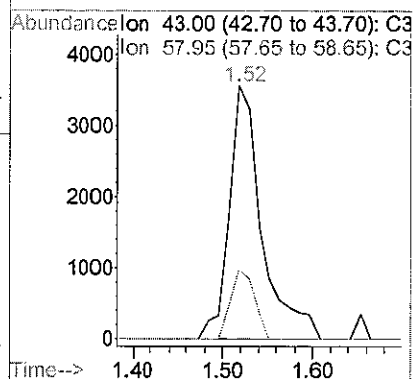
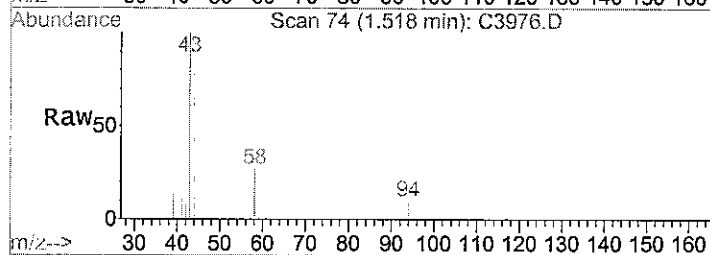
DataAcq Meth : METHOC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.95	114	844073	50.00	ug	0.00
37) Chlorobenzene-d5	9.51	117	649321	50.00	ug	0.00
71) 1,4-Dichlorobenzene-d4	12.56	150	286049	50.00	ug	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	4.03	65	232950	46.59	ug	0.00
58) Toluene-d8	7.48	98	909135	47.80	ug	0.00
69) Bromofluorobenzene	11.10	176	212119	45.42	ug	0.00
Target Compounds						Qvalue
13) Acetone	1.52	43	8902	5.89	ug	# 62
16) Methylene chloride	1.79	49	85348	9.04	ug	91



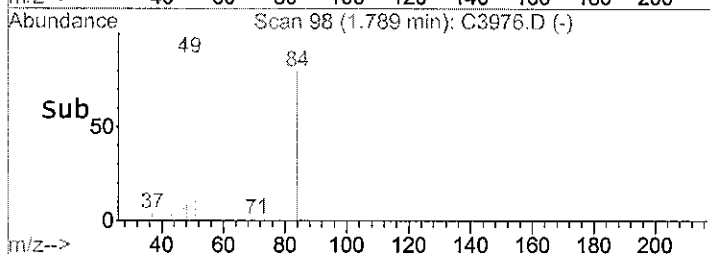
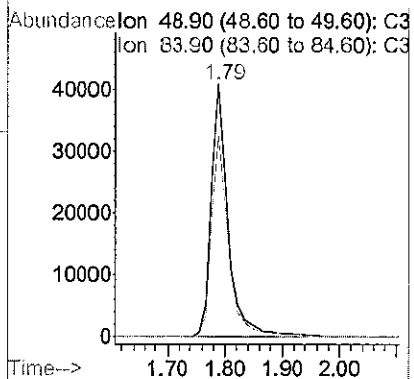
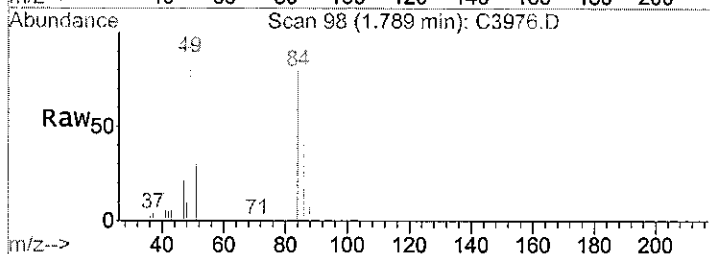
#13
Acetone
Concen: 5.89 ug
RT: 1.52 min Scan# 74
Delta R.T. -0.01 min
Lab File: C3976.D
Acq: 8 Sep 2011 13:28

Tgt Ion: 43 Resp: 8902
Ion Ratio Lower Upper
43 100
58 19.8 5.4 8.2#



#16
Methylene Chloride
Concen: 9.04 ug
RT: 1.79 min Scan# 98
Delta R.T. 0.00 min
Lab File: C3976.D
Acq: 8 Sep 2011 13:28

Tgt Ion: 49 Resp: 85348
Ion Ratio Lower Upper
49 100
84 79.9 70.9 106.3



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Trip Blank Lot #260

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-016A

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3986.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
67-64-1	Acetone	5.8	JB	
79-20-9	Methyl Acetate	5.0	U	
75-09-2	Methylene Chloride	11	B	
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl tert-butyl Ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
156-59-2	cis-1,2-Dichloroethene	5.0	U	
74-97-5	Bromochloromethane	5.0	U	
67-66-3	Chloroform	5.0	U	
110-82-7	Cyclohexane	5.0	U	
107-06-2	1,2-Dichloroethane	5.0	U	
78-93-3	2-Butanone	10	U	
108-87-2	Methyl Cyclohexane	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
56-23-5	Carbon Tetrachloride	5.0	U	
71-43-2	Benzene	5.0	U	
79-01-6	Trichloroethene	5.0	U	
78-87-5	1,2-Dichloropropane	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
124-48-1	Dibromochloromethane	5.0	U	
106-93-4	1,2-Dibromoethane	5.0	U	
75-25-2	Bromoform	5.0	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Trip Blank Lot #260

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-016A

Sample wt/vol: 5.0 (g/mL) m1 Lab File ID: C3986.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		5.0	U
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		10	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethyl Benzene		5.0	U
126777-61-2	m,p-Xylenes		5.0	U
95-47-6	o-Xylene		5.0	U
100-42-5	Styrene		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane		50	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U

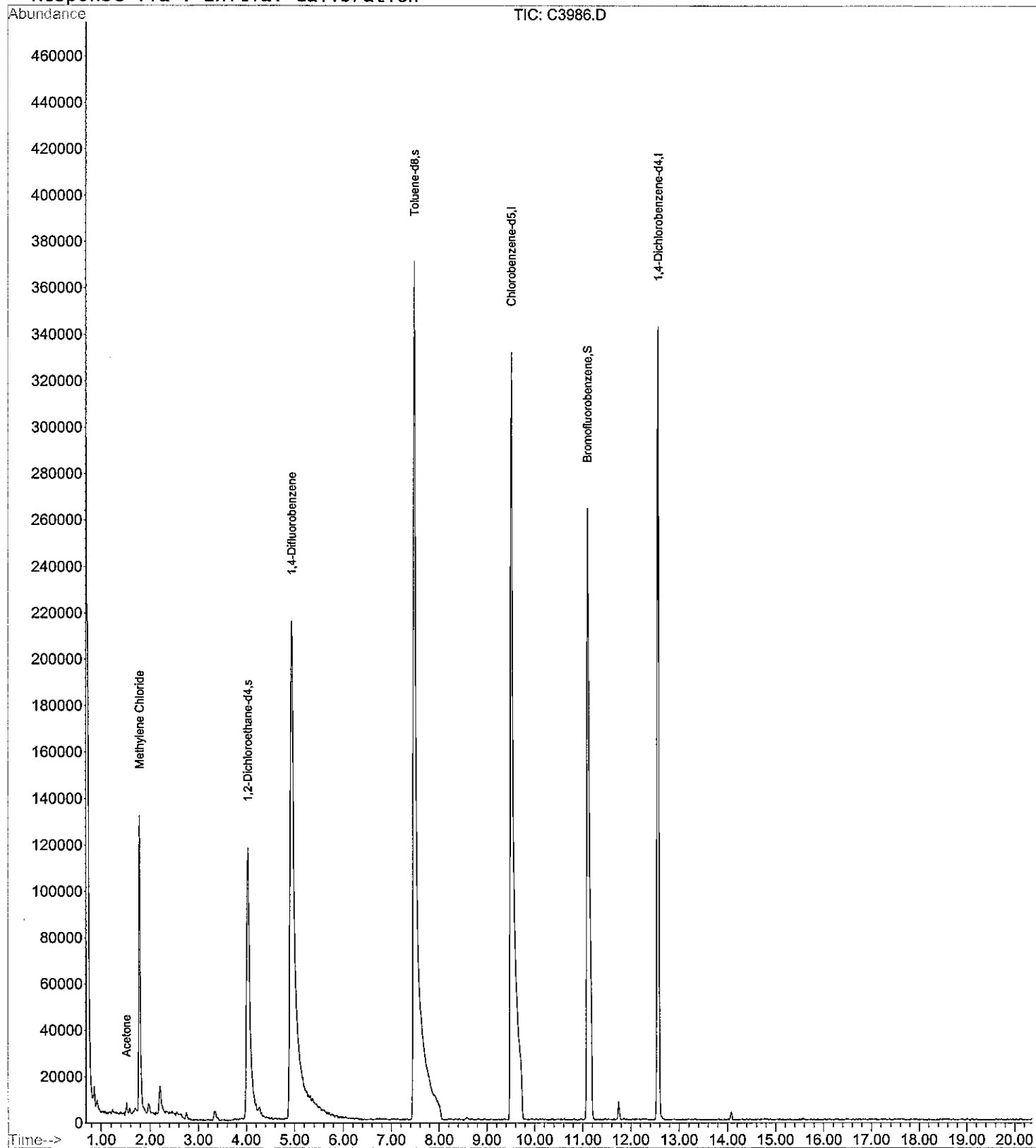
Quantitation Report

Data File : C:\HPCHEM\1\DATA\110908\C3986.D
 Acq On : 8 Sep 2011 18:14
 Sample : 110830062-016A
 Misc : SAMP EPA_8260_WATER
 MS Integration Params: LSCINT.P
 Quant Time: Sep 9 11:43 2011

Vial: 18
 Operator:
 Inst : GCMS-C
 Multiplr: 1.00

Quant Results File: CLP.RES

Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
 Title : Voa NBL Plus Calibration
 Last Update : Fri Sep 02 11:53:44 2011
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\110908\C3986.D

Acq On : 8 Sep 2011 18:14

Sample : 110830062-016A

Misc : SAMP EPA_8260_WATER

MS Integration Params: LSCINT.P

Quant Time: Sep 9 11:43 2011

Vial: 18

Operator:

Inst : GCMS-C

Multiplr: 1.00

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

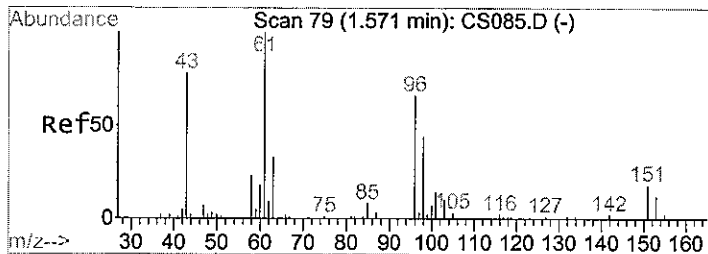
Title : Voa NBL Plus Calibration

Last Update : Fri Sep 02 11:53:44 2011

Response via : Initial Calibration

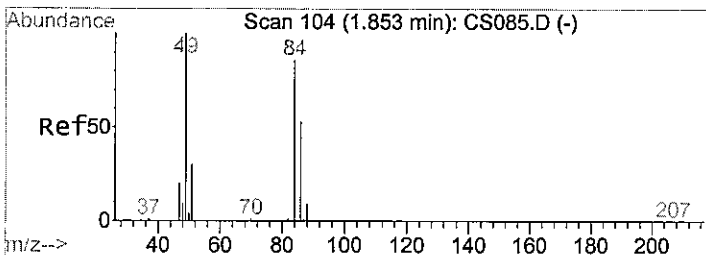
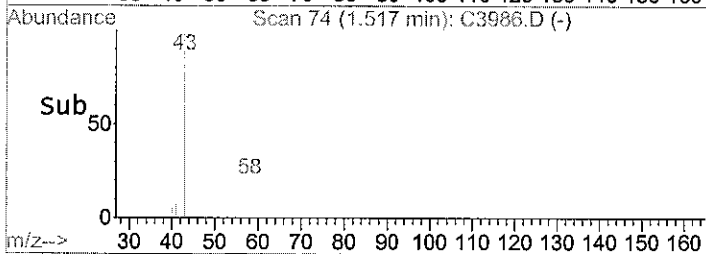
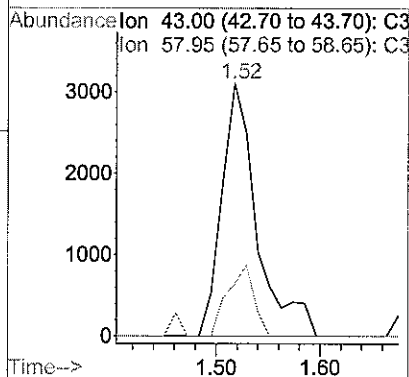
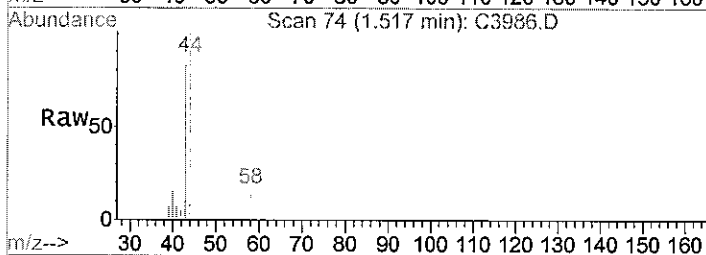
DataAcq Meth : METH0C

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.95	114	707692	50.00	ug	0.00
37) Chlorobenzene-d5	9.51	117	574584	50.00	ug	0.00
71) 1,4-Dichlorobenzene-d4	12.57	150	250753	50.00	ug	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	4.03	65	213325	50.89	ug	0.00
58) Toluene-d8	7.48	98	777512	46.20	ug	0.00
69) Bromofluorobenzene	11.10	176	190442	46.08	ug	0.00
Target Compounds						
13) Acetone	1.52	43	7331	5.79	ug	Qvalue # 58
16) Methylene chloride	1.79	49	85868	10.85	ug	92



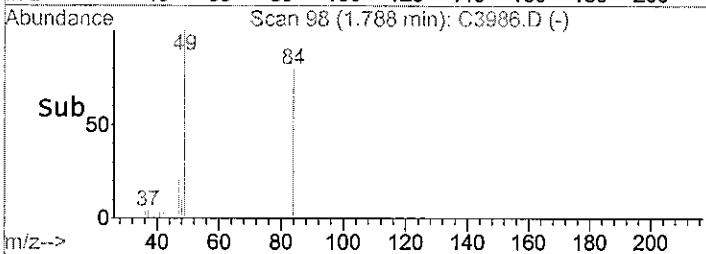
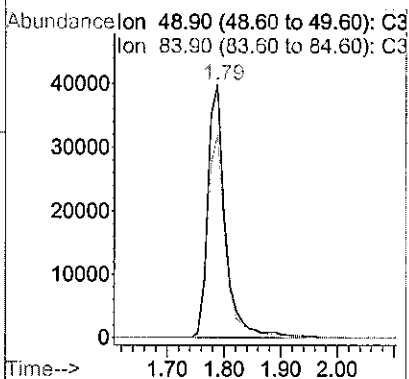
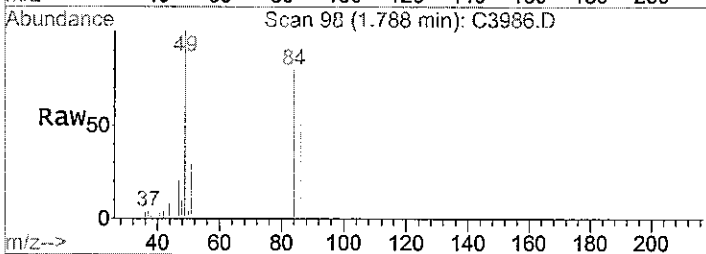
#13
Acetone
Concen: 5.79 ug
RT: 1.52 min Scan# 74
Delta R.T. -0.01 min
Lab File: C3986.D
Acq: 8 Sep 2011 18:14

Tgt Ion: 43 Resp: 7331
Ion Ratio Lower Upper
43 100
58 21.0 5.4 8.2#



#16
Methylene chloride
Concen: 10.85 ug
RT: 1.79 min Scan# 98
Delta R.T. 0.00 min
Lab File: C3986.D
Acq: 8 Sep 2011 18:14

Tgt Ion: 49 Resp: 85868
Ion Ratio Lower Upper
49 100
84 80.8 70.9 106.3



STANDARDS

DATA

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Instrument ID: MSVOAC Calibration Date(s): 9/1/2011 9/1/2011

Heated Purge: (Y/N) N Calibration Time(s): 10:10 12:03

GC Column: DB624 ID: 0.18 (mm)

LAB FILE ID:		RRF5 = CS270.D		RRF10 = CS269.D			
RRF50 = CS268.D		RRF100 = CS272.D		RRF200 = CS271.D			
COMPOUND	RRF5	RRF10	RRF50	RRF100	RRF200	RRF	% RSD
Dichlorodifluoromethane	0.839	0.943	0.889	0.886	0.882	0.888	4.2
Chloromethane	0.681	0.755	0.714	0.688	0.724	0.712	4.2
Vinyl Chloride *	0.674	0.748	0.695	0.626	0.703	0.689	6.4
Bromomethane *	0.268	0.270	0.259	0.215	0.232	0.249	9.7
Chloroethane	0.255	0.263	0.228	0.136	0.142	0.205	30.0
Trichlorofluoromethane	0.694	0.820	0.787	0.653	0.641	0.719	11.2
1,1-Dichloroethene *	0.349	0.364	0.396	0.286	0.354	0.350	11.5
1,1,2-Trichloro-1,2,2-t	0.353	0.402	0.465	0.336	0.417	0.394	13.1
Carbon Disulfide	1.001	1.036	1.323	0.967	1.235	1.112	14.1
Acetone	0.134	0.115	0.080	0.052	0.066	0.090	38.3
Methyl Acetate	0.152	0.201	0.203	0.159	0.198	0.183	13.6
Methylene Chloride	0.770	0.682	0.530	0.364	0.450	0.559	29.7
trans-1,2-Dichloroethen	0.356	0.407	0.443	0.320	0.403	0.386	12.4
Mtbe	0.637	0.732	0.727	0.533	0.668	0.659	12.4
1,1-Dichloroethane *	0.593	0.668	0.687	0.505	0.644	0.620	11.8
cis-1,2-Dichloroethene	0.598	0.610	0.626	0.447	0.627	0.581	13.1
Bromochloromethane	0.260	0.273	0.261	0.203	0.271	0.253	11.5
Chloroform *	0.694	0.635	0.639	0.478	0.644	0.618	13.2
Cyclohexane	0.552	0.625	0.751	0.473	0.640	0.608	17.0
1,2-Dichloroethane *	0.379	0.407	0.406	0.418	0.420	0.406	4.0
2-Butanone	0.090	0.111	0.092	0.070	0.094	0.091	16.1
Methyl Cyclohexane	0.563	0.639	0.792	0.698	0.708	0.680	12.5
1,1,1-Trichloroethane *	0.734	0.781	0.883	0.545	0.784	0.745	16.7
Carbon tetrachloride *	0.622	0.654	0.756	0.536	0.696	0.653	12.6
Benzene *	1.558	1.683	1.910	1.793	1.783	1.746	7.6
Trichloroethene *	0.485	0.513	0.573	0.534	0.571	0.535	7.1
1,2-Dichloropropane	0.371	0.357	0.358	0.356	0.373	0.363	2.4
Bromodichloromethane *	0.442	0.504	0.548	0.474	0.530	0.500	8.6
cis-1,3-Dichloropropene *	0.497	0.548	0.639	0.587	0.635	0.581	10.4
trans-1,3-Dichloropropene *	0.349	0.490	0.523	0.459	0.526	0.469	15.4
1,1,2-Trichloroethane *	0.184	0.246	0.232	0.249	0.245	0.231	11.7
Dibromochloromethane *	0.261	0.371	0.402	0.358	0.406	0.359	16.4
1,2-Dibromoethane	0.229	0.262	0.297	0.302	0.307	0.279	11.9
Bromoform *	0.331	0.423	0.353	0.365	0.272	0.349	15.7
4-Methyl-2-Pentanone	0.200	0.216	0.224	0.236	0.222	0.220	5.9
Toluene *	1.610	1.657	1.842	1.715	1.838	1.733	6.1
Tetrachloroethene *	0.334	0.337	0.441	0.381	0.439	0.386	13.6

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Instrument ID: MSVOAC Calibration Date(s): 9/1/2011 9/1/2011

Heated Purge: (Y/N) N Calibration Time(s): 10:10 12:03

GC Column: DB624 ID: 0.18 (mm)

LAB FILE ID:							
RRF5 = CS270.D				RRF10 = CS269.D			
RRF50 = CS268.D				RRF100 = CS272.D			
				RRF200 = CS271.D			
COMPOUND	RRF5	RRF10	RRF50	RRF100	RRF200	RRF	% RSD
2-Hexanone	0.126	0.176	0.151	0.170	0.159	0.157	12.4
Chlorobenzene *	0.932	1.025	1.056	0.987	1.070	1.014	5.5
Ethylbenzene *	0.404	0.448	0.483	0.448	0.506	0.458	8.5
m,p-Xylene *	1.198	1.357	1.460	1.262	1.486	1.353	9.2
o-Xylene *	0.477	0.552	0.587	0.534	0.609	0.552	9.3
Styrene *	0.729	0.853	0.909	0.851	0.977	0.864	10.6
Isopropylbenzene	1.254	1.382	1.442	1.224	1.479	1.356	8.3
1,1,2,2-Tetrachloroetha *	0.188	0.285	0.171	0.197	0.174	0.203	23.3
1,3-Dichlorobenzene *	0.960	1.021	0.861	0.824	0.674	0.868	15.4
1,4-Dichlorobenzene *	1.008	0.994	0.829	0.804	0.655	0.858	17.1
1,2-Dichlorobenzene *	0.584	0.605	0.472	0.487	0.420	0.514	15.3
1,2-Dibromo-3-chloropro	0.000	0.000	0.010	0.011	0.012	0.011	8.7
1,2,4-Trichlorobenzene *	0.096	0.122	0.102	0.095	0.105	0.104	10.5
1,2-Dichloroethane-d4	0.308	0.325	0.299	0.292	0.257	0.296	8.4
Toluene-d8	1.384	1.451	1.478	1.551	1.459	1.464	4.1
Bromofluorobenzene *	0.328	0.381	0.392	0.334	0.364	0.360	7.8

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

Data File : C:\HPCHEM\1\DATA\110901\CS270.D

vial: 4

Acq On : 1 Sep 2011 11:06

Operator:

Sample : VSTD005

Inst : GCMS-C

MISC :

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 2 11:52 2011

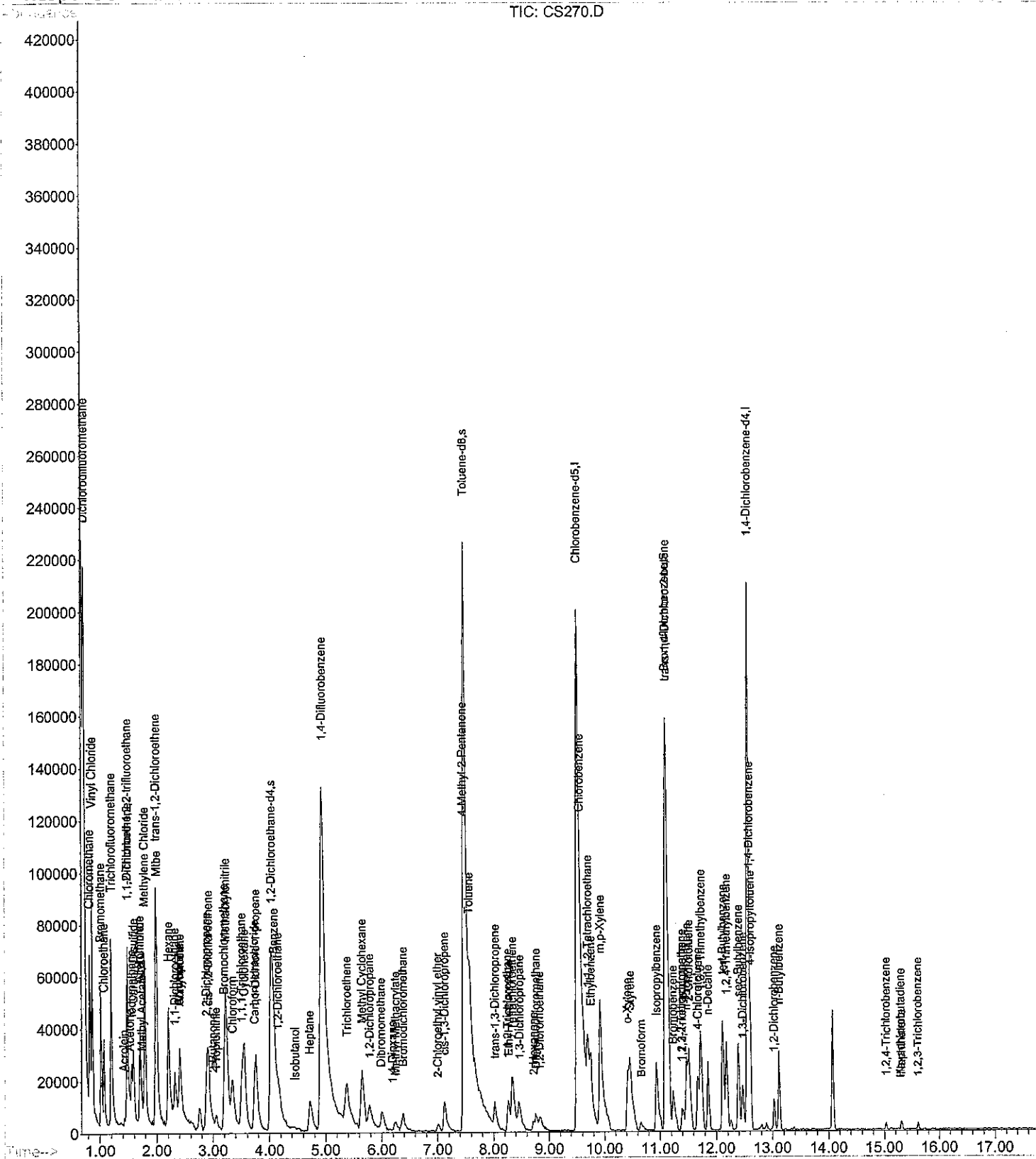
Quant Results File: CLP.RES

Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration

Last Update : Fri Sep 02 11:53:44 2011

Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\110901\CS270.D
 Acq On : 1 Sep 2011 11:06
 Sample : VSTD005
 Misc :
 MS Integration Params: LSCINT.P
 Quant Time: Sep 2 11:52 2011

Vial: 4
 Operator:
 Inst : GCMS-C
 Multiplr: 1.00

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
 Title : Voa NBL Plus Calibration
 Last Update : Thu Aug 11 14:45:43 2011
 Response via : Initial Calibration
 DataAcq Meth : METH0C

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.94	114	454148	50.00	ug	-0.01
37) Chlorobenzene-d5	9.51	117	357251	50.00	ug	-0.02
71) 1,4-Dichlorobenzene-d4	12.56	150	145478	50.00	ug	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) 1,2-Dichloroethane-d4	4.04	65	139759	55.48	ug	-0.01
58) Toluene-d8	7.48	98	494411	48.10	ug	-0.02
69) Bromofluorobenzene	11.10	176	117185m	43.71	ug	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.75	85	76171	9.37	ug	93
3) Chloromethane	0.83	50	61814	9.60	ug	94
4) Vinyl Chloride	0.87	62	61253	9.99	ug	# 83
5) Bromomethane	1.02	96	24356	11.88	ug	# 71
6) Chloroethane	1.07	64	23166	14.31	ug	99
7) Trichlorofluoromethane	1.20	101	63020	9.81	ug	99
8) Acrolein	1.42	56	2484m	17.49	ug	
9) 1,1-Dichloroethene	1.48	96	15840	4.72	ug	96
10) 1,1,2-Trichloro-1,2,2-trif	1.48	101	16032	4.66	ug	# 50
11) Iodomethane	1.56	142	25617	3.84	ug	# 4
12) Carbon Disulfide	1.59	76	45462	4.22	ug	# 36
13) Acetone	1.52	43	12177m	16.53	ug	
14) Methyl Acetate	1.74	43	6895	2.50	ug	91
15) Allyl Chloride	1.70	41	31374	4.17	ug	# 56
16) Methylene Chloride	1.78	49	34948m	7.24	ug	
17) trans-1,2-Dichloroethene	1.99	96	16168	4.38	ug	# 40
18) Acrylonitrile	2.40	53	22637	21.84	ug	91
19) Mtbe	2.00	73	57854	9.62	ug	# 74
20) Hexane	2.21	43	21411m	8.94	ug	
21) 1,1-Dichloroethane	2.32	63	26950	4.83	ug	93
22) Chloroprene	2.40	53	22637	5.46	ug	92
23) Vinyl Acetate	2.42	43	18814	4.91	ug	97
24) cis-1,2-Dichloroethene	2.92	61	27164	5.52	ug	93
25) 2,2-Dichloropropane	2.89	77	23824	5.33	ug	# 81
26) Acetonitrile	1.70	41	31374	41.74	ug	# 100
27) Propionitrile	3.06	54	10149	47.09	ug	100
28) Bromochloromethane	3.20	49	11798	5.27	ug	96
29) Methacrylonitrile	3.23	67	35203	48.73	ug	# 75
30) Chloroform	3.35	83	31518	5.22	ug	93
31) 1,1-Dichloro-1-propene	3.76	75	22486	5.15	ug	# 80
33) 1,2-Dichloroethane	4.15	62	17219	4.98	ug	98
34) 2-Butanone	3.00	43	8153	10.08	ug	99
36) 1,4-Dioxane	6.19	88	1016m	50.79	ug	
38) 1,1,1-Trichloroethane	3.51	97	26220	5.77	ug	# 83
39) Cyclohexane	3.55	84	19722	5.52	ug	# 71
40) Carbon tetrachloride	3.73	117	22218	5.63	ug	96
41) Benzene	4.08	78	55668	5.22	ug	# 20
42) Isobutanol	4.46	43	2943m	75.80	ug	
43) Heptane	4.72	43	15212	4.43	ug	# 90
44) Trichloroethene	5.38	130	17330	4.77	ug	# 52
45) Methyl cyclohexane	5.65	83	20125	4.66	ug	92
46) 1,2-Dichloropropane	5.79	63	13264	4.91	ug	93
47) Dibromomethane	5.99	174	8406	4.52	ug	85
48) Methyl Methacrylate	6.25	69	3935	3.26	ug	# 96
49) Bromodichloromethane	6.38	83	15781	4.42	ug	# 87
50) 2-Chloroethyl vinyl ether	7.00	63	2696m	3.00	ug	

(#) = qualifier out of range (m) = manual integration

CS270.D CLP.M Fri Sep 02 13:13:32 2011

Data File : C:\HPCHEM\1\DATA\110901\CS270.D

Vial: 4

Acq On : 1 Sep 2011 11:06

Operator:

Sample : VSTD005

Inst : GCMS-C

Misc :

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 2 11:52 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration

Last Update : Thu Aug 11 14:45:43 2011

Response via : Initial Calibration

DataAcq Meth : METH0C

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) cis-1,3-Dichloropropene	7.13	75	17757	4.34	ug	99
52) trans-1,3-Dichloropropene	8.03	75	12481	3.68	ug	92
53) Ethyl Methacrylate	8.28	69	8348	3.59	ug	# 72
54) 1,1,2-Trichloroethane	8.26	83	6574	3.78	ug	94
55) Dibromochloromethane	8.76	129	9312	3.65	ug	# 73
56) 1,2-Dibromoethane	8.83	107	8190	3.85	ug	100
57) 4-Methyl-2-Pentanone	7.46	43	14313	8.93	ug	# 1
59) Toluene	7.57	91	57521	4.50	ug	# 90
60) Tetrachloroethene	8.35	164	11941	4.25	ug	87
61) 1,3-Dichloropropane	8.47	76	14331	4.32	ug	98
62) 2-Hexanone	8.72	43	9037m	8.06	ug	
63) Chlorobenzene	9.55	112	33286	4.60	ug	99
64) Ethylbenzene	9.76	106	14433	4.31	ug	98
65) m,p-Xylene	9.92	91	85581	8.75	ug	98
66) o-Xylene	10.42	106	17038	4.28	ug	# 43
67) Styrene	10.47	104	26027	4.17	ug	88
68) Isopropylbenzene	10.94	105	44782	4.68	ug	97
70) 1,1,2,2-Tetrachloroethane	11.39	83	6716	4.77	ug	100
72) Bromoform	10.67	173	4817	5.08	ug	97
73) trans-1,4-Dichloro-2-buten	11.11	88	5304m	7.47	ug	
74) Bromobenzene	11.23	77	15266	5.63	ug	93
75) 1,2,3-Trichloropropane	11.39	75	4838	5.72	ug	96
76) 1,1,1,2-Tetrachloroethane	9.70	133	11448	5.89	ug	# 1
77) n-Propylbenzene	11.47	91	35288	4.80	ug	# 86
78) 2-Chlorotoluene	11.51	91	39248m	5.73	ug	
79) 4-Chlorotoluene	11.67	91	32401	5.50	ug	92
80) n-Decane	11.85	57	13928	5.37	ug	96
81) 1,3,5-Trimethylbenzene	11.73	105	37944	6.02	ug	95
82) tert-Butylbenzene	12.11	119	39827	6.17	ug	# 86
83) 1,2,4-Trimethylbenzene	12.18	105	33296	5.75	ug	# 81
84) sec-Butylbenzene	12.39	105	39270	6.20	ug	95
85) 1,3-Dichlorobenzene	12.47	146	13961	5.58	ug	97
86) 1,4-Dichlorobenzene	12.59	146	14659	5.98	ug	99
87) 4-Isopropyltoluene	12.61	119	29556	5.82	ug	98
88) 1,2-Dichlorobenzene	13.03	146	8502	5.88	ug	# 78
89) n-Butylbenzene	13.12	91	21276	5.43	ug	97
91) 1,2,4-Trichlorobenzene	15.03	180	1392	5.70	ug	97
92) Hexachlorobutadiene	15.29	225	678	6.75	ug	# 36
93) Naphthalene	15.30	128	3467	6.46	ug	100
94) 1,2,3-Trichlorobenzene	15.61	180	1765	7.03	ug	# 93

(#) = qualifier out of range (m) = manual integration

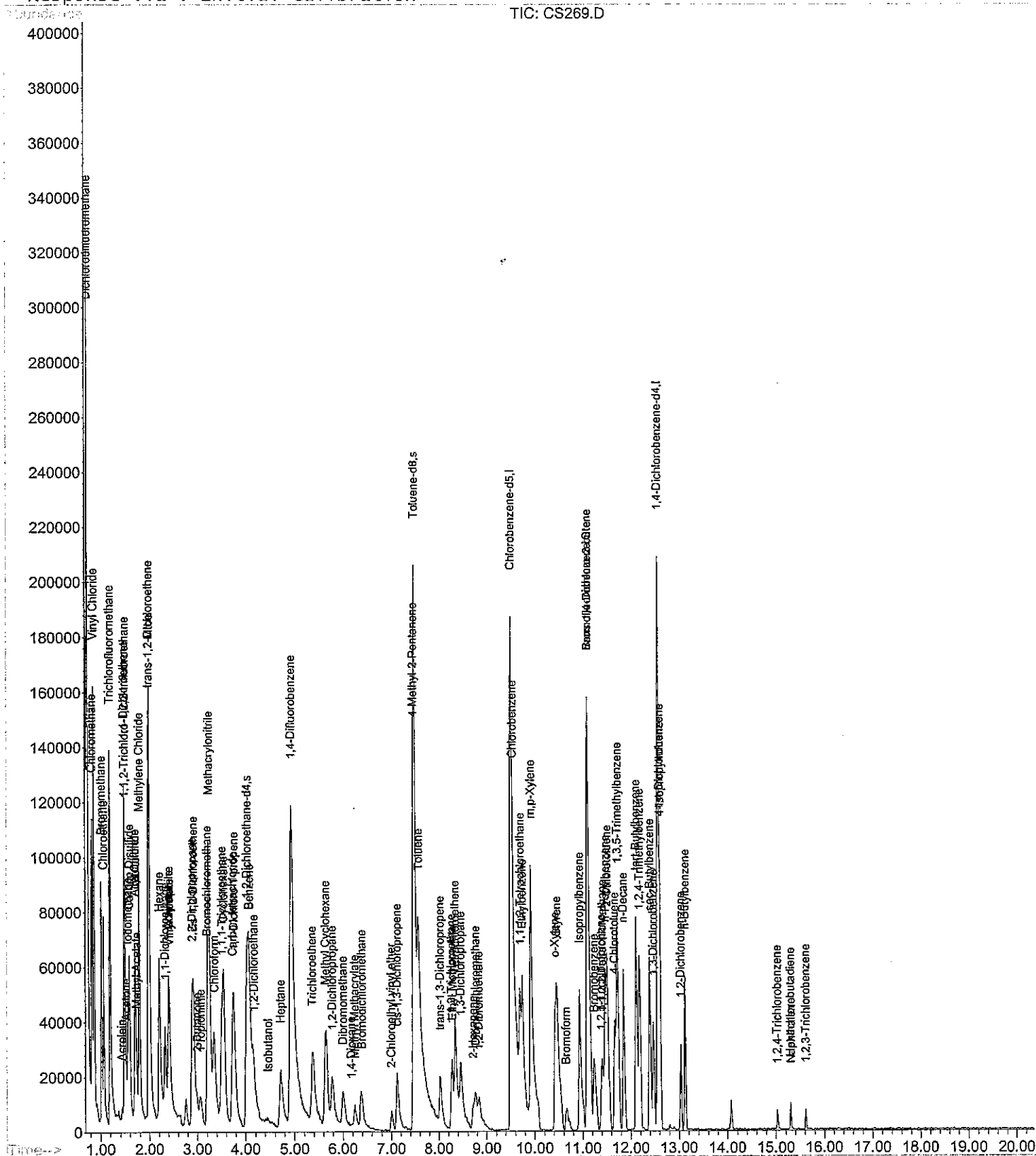
CS270.D CLP.M Fri Sep 02 13:13:33 2011

Data File : C:\HPCHEM\1\DATA\110901\CS269.D
 Acq On : 1 Sep 2011 10:37
 Sample : VSTD010
 Misc :
 MS Integration Params: LSCINT.P
 Quant Time: Sep 2 11:52 2011

Vial: 3
 Operator:
 Inst : GCMS-C
 Multiplr: 1.00

Quant Results File: CLP.RES

Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
 Title : Voa NBL Plus Calibration
 Last Update : Fri Sep 02 11:53:44 2011
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\110901\CS269.D

Vial: 3

Acq On : 1 Sep 2011 10:37

Operator:

Sample : VSTD010

Inst : GCMS-C

Misc :

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 2 11:52 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration

Last Update : Thu Aug 11 14:45:43 2011

Response via : Initial Calibration

DataAcq Meth : METH0C

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.94	114	382424	50.00	ug	-0.02
37) Chlorobenzene-d5	9.51	117	288865	50.00	ug	-0.02
71) 1,4-Dichlorobenzene-d4	12.56	150	142354	50.00	ug	-0.02

System Monitoring Compounds

32) 1,2-Dichloroethane-d4	4.03	65	124229	58.56	ug	-0.02
58) Toluene-d8	7.48	98	419073	50.42	ug	-0.02
69) Bromofluorobenzene	11.10	176	109946m	50.72	ug	0.00

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.74	85	144276	21.09	ug	93
3) Chloromethane	0.83	50	115448	21.30	ug	96
4) Vinyl Chloride	0.86	62	114348	22.16	ug	# 84
5) Bromomethane	1.02	96	41239	23.88	ug	86
6) Chloroethane	1.07	64	40251m	29.53	ug	
7) Trichlorofluoromethane	1.19	101	125408	23.17	ug	100
8) Acrolein	1.43	56	4686	39.19	ug	100
9) 1,1-Dichloroethene	1.47	96	27842	9.85	ug	92
10) 1,1,2-Trichloro-1,2,2-trif	1.48	101	30725	10.59	ug	# 54
11) Iodomethane	1.55	142	49177	8.76	ug	# 4
12) Carbon Disulfide	1.59	76	79261	8.74	ug	# 33
13) Acetone	1.52	43	17626m	28.42	ug	
14) Methyl Acetate	1.73	43	15370m	6.61	ug	
15) Allyl chloride	1.70	41	58156	9.19	ug	# 58
16) Methylene Chloride	1.79	49	52199m	12.85	ug	
17) trans-1,2-Dichloroethene	1.98	96	31147	10.01	ug	# 36
18) Acrylonitrile	2.41	53	44260	50.71	ug	# 87
19) Mtbe	1.99	73	112005	22.12	ug	# 88
20) Hexane	2.21	43	28774	14.27	ug	93
21) 1,1-Dichloroethane	2.33	63	51123	10.88	ug	97
22) Chloroprene	2.41	53	44260	12.68	ug	90
23) Vinyl Acetate	2.42	43	30860	9.56	ug	97
24) cis-1,2-Dichloroethene	2.92	61	46646	11.26	ug	91
25) 2,2-Dichloropropane	2.89	77	45169	12.00	ug	90
26) Acetonitrile	1.70	41	58156	91.89	ug	# 100
27) Propionitrile	3.06	54	22758	125.40	ug	100
28) Bromochloromethane	3.20	49	20886	11.08	ug	96
29) Methacrylonitrile	3.23	67	66326	109.04	ug	# 74
30) Chloroform	3.36	83	48573	9.56	ug	99
31) 1,1-Dichloro-1-propene	3.76	75	40828	11.12	ug	# 87
33) 1,2-Dichloroethane	4.17	62	31161	10.71	ug	95
34) 2-Butanone	3.00	43	16973	24.92	ug	# 86
36) 1,4-Dioxane	6.18	88	4448	264.03	ug	# 49
38) 1,1,1-Trichloroethane	3.51	97	45093	12.28	ug	# 88
39) Cyclohexane	3.55	84	36095	12.51	ug	# 68
40) Carbon tetrachloride	3.74	117	37784	11.85	ug	94
41) Benzene	4.08	78	97248	11.27	ug	# 84
42) Isobutanol	4.46	43	7618	242.67	ug	# 74
43) Heptane	4.72	43	26963	9.71	ug	91
44) Trichloroethene	5.36	130	29642	10.10	ug	# 57
45) Methyl cyclohexane	5.65	83	36918	10.57	ug	89
46) 1,2-Dichloropropane	5.78	63	20610	9.44	ug	98
47) Dibromomethane	6.01	174	16176	10.75	ug	92
48) Methyl Methacrylate	6.24	69	8453	8.65	ug	# 89
49) Bromodichloromethane	6.39	83	29114	10.07	ug	96
50) 2-Chloroethyl vinyl ether	7.00	63	6174	8.48	ug	98

(#)=qualifier out of range (m)=manual integration

CS269.D CLP.M Fri Sep 02 13:13:45 2011

Data File : C:\HPCHEM\1\DATA\110901\CS269.D

Vial: 3

Acq On : 1 Sep 2011 10:37

Operator:

Sample : VSTD010

Inst : GCMS-C

Misc :

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 2 11:52 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration

Last Update : Thu Aug 11 14:45:43 2011

Response via : Initial Calibration

DataAcq Meth : METH0C

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) cis-1,3-Dichloropropene	7.12	75	31653	9.56	ug	99
52) trans-1,3-Dichloropropene	8.02	75	28283	10.30	ug	# 85
53) Ethyl Methacrylate	8.28	69	17310	9.22	ug	# 71
54) 1,1,2-Trichloroethane	8.26	83	14197	10.09	ug	88
55) Dibromochloromethane	8.77	129	21440	10.38	ug	# 92
56) 1,2-Dibromoethane	8.84	107	15128	8.79	ug	94
57) 4-Methyl-2-Pentanone	7.46	43	24965	19.25	ug	# 1
59) Toluene	7.57	91	95744	9.27	ug	96
60) Tetrachloroethene	8.34	164	19452	8.57	ug	90
61) 1,3-Dichloropropane	8.45	76	28030	10.45	ug	87
62) 2-Hexanone	8.71	43	20388	22.50	ug	# 83
63) Chlorobenzene	9.55	112	59189	10.11	ug	97
64) Ethylbenzene	9.75	106	25886	9.56	ug	98
65) m,p-Xylene	9.92	91	156787	19.82	ug	100
66) o-Xylene	10.43	106	31914	9.92	ug	# 47
67) Styrene	10.46	104	49290	9.77	ug	86
68) Isopropylbenzene	10.93	105	79858	10.32	ug	99
70) 1,1,2,2-Tetrachloroethane	11.41	83	16478m	14.46	ug	
72) Bromoform	10.65	173	12048	12.99	ug	100
73) trans-1,4-Dichloro-2-buten	11.10	88	8877m	12.78	ug	
74) Bromobenzene	11.24	77	28959	10.90	ug	96
75) 1,2,3-Trichloropropane	11.39	75	9823m	11.86	ug	
76) 1,1,1,2-Tetrachloroethane	9.70	133	20253	10.66	ug	# 1
77) n-Propylbenzene	11.48	91	61408	8.54	ug	# 79
78) 2-Chlorotoluene	11.51	91	80809m	12.06	ug	
79) 4-Chlorotoluene	11.67	91	62553	10.85	ug	97
80) n-Decane	11.85	57	31078	12.24	ug	95
81) 1,3,5-Trimethylbenzene	11.72	105	72953	11.83	ug	95
82) tert-Butylbenzene	12.11	119	74807	11.84	ug	# 87
83) 1,2,4-Trimethylbenzene	12.17	105	66259	11.70	ug	# 86
84) sec-Butylbenzene	12.39	105	76178	12.30	ug	97
85) 1,3-Dichlorobenzene	12.47	146	29060	11.88	ug	100
86) 1,4-Dichlorobenzene	12.59	146	28303	11.80	ug	99
87) 4-Isopropyltoluene	12.60	119	59527	11.98	ug	97
88) 1,2-Dichlorobenzene	13.03	146	17224	12.17	ug	86
89) n-Butylbenzene	13.12	91	42104	10.98	ug	94
91) 1,2,4-Trichlorobenzene	15.03	180	3469	14.51	ug	# 85
92) Hexachlorobutadiene	15.30	225	1540	15.66	ug	# 86
93) Naphthalene	15.31	128	6977	13.28	ug	100
94) 1,2,3-Trichlorobenzene	15.61	180	3534	14.38	ug	97

(#) = qualifier out of range (m) = manual integration

CS269.D CLP.M Fri Sep 02 13:13:47 2011

TIC: CS268.D



Data File : C:\HPCHEM\1\DATA\110901\CS268.D

Vial: 2

Acq On : 1 Sep 2011 10:10

Operator:

Sample : VSTD050

Inst : GCMS-C

Misc :

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 2 11:52 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration

Last Update : Thu Aug 11 14:45:43 2011

Response via : Initial Calibration

DataAcq Meth : METH0C

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.94	114	486676m	50.00	ug	-0.01
37) Chlorobenzene-d5	9.51	117	339243	50.00	ug	-0.02
71) 1,4-Dichlorobenzene-d4	12.56	150	169748	50.00	ug	-0.01

System Monitoring Compounds

32) 1,2-Dichloroethane-d4	4.03	65	145423	53.87	ug	-0.02
58) Toluene-d8	7.48	98	501344	51.36	ug	-0.02
69) Bromofluorobenzene	11.11	176	133023m	52.25	ug	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.75	85	865550	99.40	ug	91
3) Chloromethane	0.83	50	695306	100.82	ug	95
4) Vinyl chloride	0.87	62	676326	102.98	ug	# 85
5) Bromomethane	1.02	96	251956	114.64	ug	88
6) Chloroethane	1.06	64	221710m	127.83	ug	
7) Trichlorofluoromethane	1.20	101	766042	111.22	ug	98
8) Acrolein	1.43	56	16281m	106.99	ug	
9) 1,1-Dichloroethene	1.47	96	192910	53.65	ug	97
10) 1,1,2-Trichloro-1,2,2-trif	1.48	101	226318	61.32	ug	# 49
11) Iodomethane	1.56	142	405294	56.70	ug	# 5
12) Carbon Disulfide	1.59	76	644044	55.81	ug	# 32
13) Acetone	1.52	43	78338	99.26	ug	# 42
14) Methyl Acetate	1.74	43	98732m	33.38	ug	
15) Allyl chloride	1.70	41	433523	53.82	ug	# 55
16) Methylene chloride	1.78	49	257973	49.90	ug	92
17) trans-1,2-Dichloroethene	1.99	96	215397	54.40	ug	# 37
18) Acrylonitrile	2.40	53	233556	210.29	ug	94
19) Mtbe	2.00	73	707651	109.83	ug	93
20) Hexane	2.21	43	136990	53.39	ug	93
21) 1,1-Dichloroethane	2.32	63	334455	55.91	ug	99
22) Chloroprene	2.40	53	233556	52.57	ug	87
23) Vinyl Acetate	2.43	43	211633	51.49	ug	99
24) cis-1,2-Dichloroethene	2.92	61	304435	57.73	ug	91
25) 2,2-Dichloropropane	2.89	77	298757	62.36	ug	95
26) Acetonitrile	1.70	41	433523	538.23	ug	# 100
27) Propionitrile	3.06	54	123171	533.31	ug	100
28) Bromochloromethane	3.19	49	127080	52.97	ug	94
29) Methacrylonitrile	3.24	67	408774	528.06	ug	# 79
30) Chloroform	3.35	83	310860	48.07	ug	95
31) 1,1-Dichloro-1-propene	3.77	75	257689	55.13	ug	93
33) 1,2-Dichloroethane	4.16	62	197559	53.35	ug	96
34) 2-Butanone	2.99	43	89095	102.80	ug	# 65
36) 1,4-Dioxane	6.16	88	15566	726.07	ug	98
38) 1,1,1-Trichloroethane	3.51	97	299392	69.40	ug	90
39) Cyclohexane	3.55	84	254638	75.12	ug	# 73
40) Carbon tetrachloride	3.73	117	256500	68.50	ug	92
41) Benzene	4.08	78	647987	63.94	ug	# 66
42) Isobutanol	4.43	43	39180m	1062.71	ug	
43) Heptane	4.73	43	164207	50.35	ug	97
44) Trichloroethene	5.37	130	194324	56.35	ug	# 63
45) Methyl cyclohexane	5.65	83	268554	65.45	ug	94
46) 1,2-Dichloropropane	5.79	63	121296	47.32	ug	# 87
47) Dibromomethane	6.00	174	100858	57.08	ug	92
48) Methyl methacrylate	6.25	69	59321	51.69	ug	# 76
49) Bromodichloromethane	6.38	83	185928	54.78	ug	94
50) 2-Chloroethyl vinyl ether	7.02	63	42401	49.61	ug	88

(#)= qualifier out of range (m)= manual integration

CS268.D CLP.M Fri Sep 02 13:13:59 2011

Data File : C:\HPCHEM\1\DATA\110901\CS268.D

Vial: 2

Acq On : 1 Sep 2011 10:10

Operator:

Sample : VSTD050

Inst : GCMS-C

Misc :

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 2 11:52 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration

Last Update : Thu Aug 11 14:45:43 2011

Response via : Initial Calibration

DataAcq Meth : METH0C

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) cis-1,3-Dichloropropene	7.13	75	216846	55.76	ug	97
52) trans-1,3-Dichloropropene	8.03	75	177496	55.07	ug	90
53) Ethyl Methacrylate	8.28	69	112285	50.91	ug	# 65
54) 1,1,2-Trichloroethane	8.27	83	78770	47.65	ug	98
55) Dibromochloromethane	8.77	129	136233	56.16	ug	# 87
56) 1,2-Dibromoethane	8.84	107	100867	49.88	ug	99
57) 4-Methyl-2-Pentanone	7.46	43	151721	99.64	ug	# 1
59) Toluene	7.58	91	624790	51.51	ug	98
60) Tetrachloroethene	8.35	164	149461	56.06	ug	98
61) 1,3-Dichloropropane	8.46	76	152767	48.49	ug	88
62) 2-Hexanone	8.72	43	102675	96.49	ug	# 82
63) Chlorobenzene	9.54	112	358089	52.10	ug	95
64) Ethylbenzene	9.76	106	163733	51.49	ug	98
65) m,p-Xylene	9.92	91	990875	106.64	ug	99
66) o-Xylene	10.42	106	199305	52.77	ug	# 48
67) Styrene	10.47	104	308439	52.05	ug	88
68) Isopropylbenzene	10.94	105	489305	53.82	ug	97
70) 1,1,2,2-Tetrachloroethane	11.41	83	57880	43.25	ug	98
72) Bromoform	10.66	173	59847	54.13	ug	97
73) trans-1,4-Dichloro-2-buten	11.07	88	32801	39.60	ug	# 1
74) Bromobenzene	11.23	77	161081	50.87	ug	94
75) 1,2,3-Trichloropropane	11.39	75	46746	47.34	ug	98
76) 1,1,1,2-Tetrachloroethane	9.70	133	130737	57.68	ug	# 27
77) n-Propylbenzene	11.47	91	434960	50.75	ug	# 87
78) 2-Chlorotoluene	11.51	91	436074m	54.58	ug	
79) 4-Chlorotoluene	11.67	91	369850	53.79	ug	94
80) n-Decane	11.85	57	167220	55.23	ug	94
81) 1,3,5-Trimethylbenzene	11.73	105	427906	58.17	ug	97
82) tert-Butylbenzene	12.11	119	427649	56.76	ug	88
83) 1,2,4-Trimethylbenzene	12.18	105	372321	55.13	ug	# 82
84) sec-Butylbenzene	12.39	105	445710	60.34	ug	95
85) 1,3-Dichlorobenzene	12.46	146	146179	50.11	ug	100
86) 1,4-Dichlorobenzene	12.59	146	140743	49.20	ug	97
87) 4-Isopropyltoluene	12.61	119	347312	58.60	ug	98
88) 1,2-Dichlorobenzene	13.03	146	80062	47.46	ug	# 84
89) n-Butylbenzene	13.12	91	232674	50.88	ug	97
90) 1,2-Dibromo-3-chloropropan	14.02	157	1711	57.42	ug	# 58
91) 1,2,4-Trichlorobenzene	15.03	180	17340	60.81	ug	94
92) Hexachlorobutadiene	15.30	225	7796	66.48	ug	97
93) Naphthalene	15.30	128	35591	56.81	ug	100
94) 1,2,3-Trichlorobenzene	15.62	180	18492	63.12	ug	96

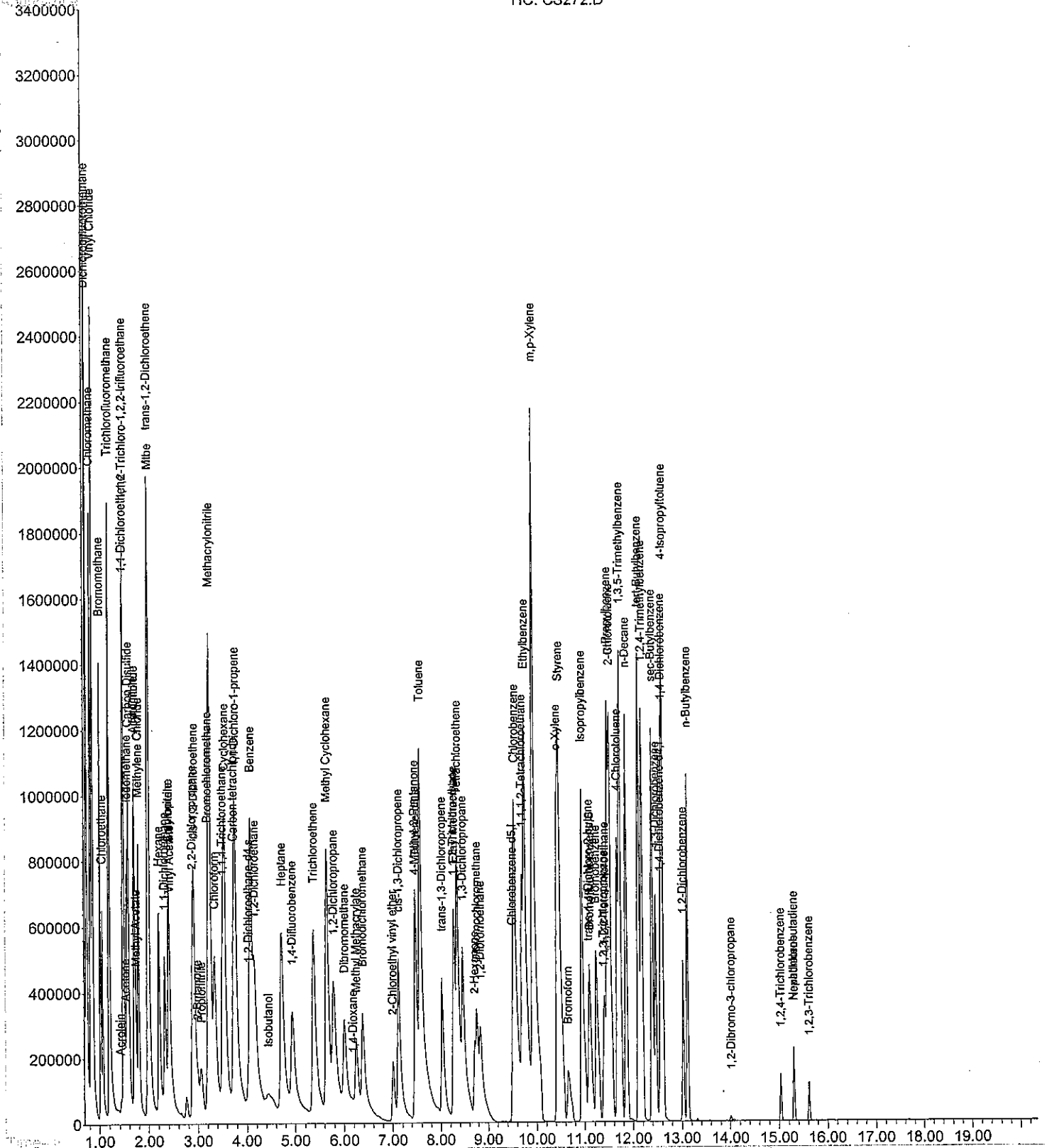
Data File : C:\HPCHEM\1\DATA\110901\CS272.D
 Acq On : 1 Sep 2011 12:03
 Sample : VSTD100
 Misc :
 MS Integration Params: LSCINT.P
 Quant Time: Sep 2 11:53 2011

Vial: 6
 Operator:
 Inst : GCMS-C
 Multiplr: 1.00

Quant Results File: CLP.RES

Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
 Title : Voa NBL Plus Calibration
 Last Update : Fri Sep 02 11:53:44 2011
 Response via : Initial Calibration

TIC: CS272.D



Data File : C:\HPCHEM\1\DATA\110901\CS272.D

Vial: 6

Acq On : 1 Sep 2011 12:03

Operator:

Sample : VSTD100

Inst : GCMS-C

Misc :

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Results File: CLP.RES

Quant Time: Sep 2 11:53 2011

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration

Last Update : Thu Sep 01 12:34:52 2011

Response via : Initial Calibration

DataAcq Meth : METH0C

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.94	114	723042m	50.00	ug	0.00
37) Chlorobenzene-d5	9.51	117	643780m	50.00	ug	-0.01
71) 1,4-Dichlorobenzene-d4	12.56	150	300297m	50.00	ug	0.00

System Monitoring Compounds

32) 1,2-Dichloroethane-d4	4.04	65	211318	47.89	ug	0.00
58) Toluene-d8	7.49	98	998321	53.74	ug	0.00
69) Bromofluorobenzene	11.11	176	214754m	42.73	ug	0.00

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.75	85	2562346	194.28	ug	92
3) Chloromethane	0.83	50	1989880	186.59	ug	96
4) Vinyl chloride	0.87	62	1809556	172.96	ug	# 86
5) Bromomethane	1.02	96	621749	162.80	ug	91
6) Chloroethane	1.06	64	394174	117.79	ug	95
7) Trichlorofluoromethane	1.20	101	1889606	172.75	ug	99
8) Acrolein	1.42	56	47261	273.79	ug	92
9) 1,1-Dichloroethene	1.47	96	413633	75.97	ug	99
10) 1,1,2-Trichloro-1,2,2-trif	1.48	101	485294	79.59	ug	# 50
11) Iodomethane	1.56	142	930123	87.40	ug	# 4
12) Carbon Disulfide	1.58	76	1398371	81.65	ug	# 31
13) Acetone	1.52	43	149312	97.40	ug	# 41
14) Methyl Acetate	1.74	43	230521	82.20	ug	98
15) Allyl chloride	1.71	41	967616	81.20	ug	# 57
16) Methylene chloride	1.78	49	526703	53.80	ug	94
17) trans-1,2-Dichloroethene	1.99	96	462828	77.28	ug	# 35
18) Acrylonitrile	2.40	53	596673	307.25	ug	92
19) Mtbe	2.00	73	1540279	149.93	ug	96
20) Hexane	2.21	43	296393	55.51	ug	89
21) 1,1-Dichloroethane	2.33	63	730312	75.75	ug	98
22) Chloroprene	2.40	53	596673	76.81	ug	# 78
23) Vinyl Acetate	2.43	43	452473	72.83	ug	# 94
24) cis-1,2-Dichloroethene	2.92	61	646736	70.78	ug	95
25) 2,2-Dichloropropane	2.89	77	616168	70.85	ug	93
26) Acetonitrile	1.71	41	967616	812.02	ug	# 100
27) Propionitrile	3.07	54	300553	764.63	ug	100
28) Bromochloromethane	3.20	49	292878	74.14	ug	95
29) Methacrylonitrile	3.24	67	1007356	805.10	ug	81
30) Chloroform	3.35	83	691356	71.34	ug	93
31) 1,1-Dichloro-1-propene	3.77	75	789016	100.99	ug	96
33) 1,2-Dichloroethane	4.16	62	604149	100.90	ug	94
34) 2-Butanone	2.99	43	201363	140.55	ug	# 62
36) 1,4-Dioxane	6.18	88	60350	1778.31	ug	94
38) 1,1,1-Trichloroethane	3.51	97	701474m	68.51	ug	
39) Cyclohexane	3.55	84	609235	73.71	ug	# 76
40) Carbon tetrachloride	3.73	117	689843	78.56	ug	96
41) Benzene	4.08	78	2308959	103.44	ug	# 57
42) Isobutanol	4.45	43	151434	2964.17	ug	95
43) Heptane	4.73	43	767309	121.75	ug	94
44) Trichloroethene	5.38	130	687939	99.77	ug	# 57
45) Methyl cyclohexane	5.65	83	899182	103.39	ug	91
46) 1,2-Dichloropropane	5.79	63	458057	97.55	ug	92
47) Dibromomethane	6.01	174	321474	91.28	ug	99
48) Methyl Methacrylate	6.25	69	234230	118.03	ug	# 74
49) Bromodichloromethane	6.38	83	610054	93.65	ug	94
50) 2-Chloroethyl vinyl ether	7.00	63	190140	126.57	ug	# 83

(#)= qualifier out of range (m)= manual integration

CS272.D CLP.M Fri Sep 02 13:14:12 2011

Data File : C:\HPCHEM\1\DATA\110901\CS272.D

Vial: 6

Acq On : 1 Sep 2011 12:03

Operator:

Sample : VSTD100

Inst : GCMS-C

Misc :

Multiplier: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 2 11:53 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration

Last Update : Thu Sep 01 12:34:52 2011

Response via : Initial Calibration

DataAcq Meth : METH0C

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) cis-1,3-Dichloropropene	7.13	75	755470	101.19	ug	98
52) trans-1,3-Dichloropropene	8.03	75	591328	97.31	ug	91
53) Ethyl Methacrylate	8.28	69	459581	116.74	ug	# 73
54) 1,1,2-Trichloroethane	8.27	83	320121	109.68	ug	94
55) Dibromochloromethane	8.76	129	460779	99.47	ug	# 90
56) 1,2-Dibromoethane	8.84	107	389295	110.45	ug	97
57) 4-Methyl-2-Pentanone	7.47	43	607600	218.99	ug	# 25
59) Toluene	7.58	91	2208371	98.75	ug	98
60) Tetrachloroethene	8.35	164	490507	98.25	ug	97
61) 1,3-Dichloropropane	8.46	76	590810	101.76	ug	97
62) 2-Hexanone	8.72	43	436834	232.17	ug	# 85
63) Chlorobenzene	9.55	112	1270426	96.70	ug	92
64) Ethylbenzene	9.76	106	576813	97.36	ug	98
65) m,p-Xylene	9.93	91	3249245	183.49	ug	97
66) o-Xylene	10.42	106	687327	95.91	ug	# 44
67) Styrene	10.47	104	1095299	98.12	ug	95
68) Isopropylbenzene	10.94	105	1576133	88.11	ug	98
70) 1,1,2,2-Tetrachloroethane	11.41	83	253351	93.58	ug	98
72) Bromoform	10.66	173	219397	105.97	ug	99
73) trans-1,4-Dichloro-2-buten	11.09	88	116712	66.03	ug	# 1
74) Bromobenzene	11.23	77	570612	102.30	ug	90
75) 1,2,3-Trichloropropane	11.39	75	170508	89.45	ug	96
76) 1,1,1,2-Tetrachloroethane	9.70	133	420893	100.38	ug	# 25
77) n-Propylbenzene	11.47	91	1441703	102.02	ug	# 86
78) 2-Chlorotoluene	11.52	91	1491687m	98.19	ug	
79) 4-Chlorotoluene	11.67	91	1198349	96.88	ug	92
80) n-Decane	11.85	57	662109	118.80	ug	95
81) 1,3,5-Trimethylbenzene	11.73	105	1337626	93.98	ug	94
82) tert-Butylbenzene	12.11	119	1349960	93.14	ug	91
83) 1,2,4-Trimethylbenzene	12.18	105	1198928	94.80	ug	# 82
84) sec-Butylbenzene	12.39	105	1450249	96.88	ug	95
85) 1,3-Dichlorobenzene	12.47	146	494723	93.71	ug	100
86) 1,4-Dichlorobenzene	12.59	146	483080	92.30	ug	96
87) 4-Isopropyltoluene	12.61	119	1099181	94.84	ug	99
88) 1,2-Dichlorobenzene	13.03	146	292348	93.57	ug	# 84
89) n-Butylbenzene	13.12	91	778551	93.70	ug	96
90) 1,2-Dibromo-3-chloropropan	14.02	157	6526	98.56	ug	95
91) 1,2,4-Trichlorobenzene	15.03	180	56856	89.22	ug	93
92) Hexachlorobutadiene	15.30	225	29071	100.66	ug	98
93) Naphthalene	15.30	128	101388	74.15	ug	100
94) 1,2,3-Trichlorobenzene	15.62	180	47356	68.84	ug	98

(#) = qualifier out of range (m) = manual integration

CS272.D CLP.M Fri Sep 02 13:14:13 2011

TIC: CS271.D



Data File : C:\HPCHEM\1\DATA\110901\CS271.D

Vial: 5

Acq On : 1 Sep 2011 11:34

Operator:

Sample : VSTD200

Inst : GCMS-C

Misc :

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 2 11:53 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration

Last Update : Thu Sep 01 11:28:54 2011

Response via : Initial Calibration

DataAcq Meth : METH0C

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.94	114	502891	50.00	ug	0.00
37) Chlorobenzene-d5	9.52	117	391926	50.00	ug	0.01
71) 1,4-Dichlorobenzene-d4	12.57	150	281281	50.00	ug	0.00

System Monitoring Compounds

32) 1,2-Dichloroethane-d4	4.04	65	129303	40.03	ug	0.01
58) Toluene-d8	7.49	98	571819	50.75	ug	0.01
69) Bromofluorobenzene	11.11	176	142593m	47.55	ug	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.74	85	3547775	382.53	ug	92
3) Chloromethane	0.83	50	2911628	390.12	ug	95
4) Vinyl Chloride	0.86	62	2827207	384.85	ug	# 87
5) Bromomethane	1.02	96	933528	337.78	ug	91
6) Chloroethane	1.07	64	571609m	216.35	ug	
7) Trichlorofluoromethane	1.19	101	2577723	322.38	ug	98
8) Acrolein	1.44	56	76367	595.42	ug	97
9) 1,1-Dichloroethene	1.47	96	712902	184.64	ug	98
10) 1,1,2-Trichloro-1,2,2-trif	1.47	101	838830	197.07	ug	# 50
11) Iodomethane	1.55	142	1639029	229.62	ug	# 4
12) Carbon Disulfide	1.58	76	2483833	211.52	ug	# 31
13) Acetone	1.54	43	266470m	215.45	ug	
14) Methyl Acetate	1.74	43	399000	206.12	ug	98
15) Allyl chloride	1.70	41	1727271	211.37	ug	# 57
16) Methylene Chloride	1.79	49	904955	119.53	ug	92
17) trans-1,2-Dichloroethene	1.98	96	811427	193.12	ug	# 37
18) Acrylonitrile	2.41	53	1086677	806.06	ug	92
19) Mtbe	2.00	73	2685624	368.45	ug	97
20) Hexane	2.20	43	494904	119.92	ug	96
21) 1,1-Dichloroethane	2.33	63	1295711	191.07	ug	97
22) Chloroprene	2.41	53	1086677	201.51	ug	# 81
23) Vinyl Acetate	2.42	43	843549	193.66	ug	96
24) cis-1,2-Dichloroethene	2.91	61	1260661	197.85	ug	92
25) 2,2-Dichloropropane	2.89	77	1228864	204.22	ug	94
26) Acetonitrile	1.70	41	1727271	2113.69	ug	# 100
27) Propionitrile	3.08	54	575365	2141.91	ug	100
28) Bromochloromethane	3.21	49	544523	197.60	ug	96
29) Methacrylonitrile	3.25	67	1787667	2072.94	ug	# 79
30) Chloroform	3.35	83	1295962	189.83	ug	92
31) 1,1-Dichloro-1-propene	3.76	75	1098371	202.84	ug	92
33) 1,2-Dichloroethane	4.17	62	845198	203.96	ug	98
34) 2-Butanone	3.01	43	379134	374.38	ug	# 69
36) 1,4-Dioxane	6.20	88	151405m	8420.44	ug	
38) 1,1,1-Trichloroethane	3.51	97	1229054	196.24	ug	93
39) Cyclohexane	3.55	84	1003715	199.31	ug	# 72
40) Carbon tetrachloride	3.74	117	1090902	205.47	ug	96
41) Benzene	4.08	78	2794929	207.64	ug	# 56
42) Isobutanol	4.50	43	193934	7662.96	ug	100
43) Heptane	4.72	43	911358	253.39	ug	94
44) Trichloroethene	5.38	130	895321	218.12	ug	# 60
45) Methyl cyclohexane	5.65	83	1109924	213.04	ug	90
46) 1,2-Dichloropropane	5.79	63	584975	206.24	ug	87
47) Dibromomethane	6.02	174	441335	207.87	ug	92
48) Methyl Methacrylate	6.25	69	290293	257.59	ug	# 86
49) Bromodichloromethane	6.39	83	830996	212.92	ug	93
50) 2-Chloroethyl vinyl ether	7.02	63	249862	311.17	ug	# 82

(#)=qualifier out of range (m)=manual integration

CS271.D CLP.M Fri Sep 02 13:14:25 2011

Data File : C:\HPCHEM\1\DATA\110901\CS271.D

Acq On : 1 Sep 2011 11:34

Sample : VSTD200

Misc :

MS Integration Params: LSCINT.P

Quant Time: Sep 2 11:53 2011

Vial: 5

Operator:

Inst : GCMS-C

Multiplr: 1.00

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration

Last Update : Thu Sep 01 11:28:54 2011

Response via : Initial Calibration

DataAcq Meth : METH0C

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) cis-1,3-Dichloropropene	7.13	75	995706	226.28	ug	96
52) trans-1,3-Dichloropropene	8.03	75	824173	231.57	ug	92
53) Ethyl Methacrylate	8.29	69	562402	249.05	ug	# 70
54) 1,1,2-Trichloroethane	8.27	83	383693	221.84	ug	96
55) Dibromochloromethane	8.78	129	636036	235.57	ug	# 90
56) 1,2-Dibromoethane	8.85	107	480517	233.26	ug	97
57) 4-Methyl-2-Pentanone	7.48	43	695937	416.18	ug	# 64
59) Toluene	7.58	91	2882011	215.89	ug	98
60) Tetrachloroethene	8.35	164	688985	237.24	ug	99
61) 1,3-Dichloropropane	8.47	76	732136	209.64	ug	94
62) 2-Hexanone	8.73	43	498222	448.01	ug	# 86
63) Chlorobenzene	9.56	112	1677232	213.14	ug	93
64) Ethylbenzene	9.76	106	793030	227.40	ug	100
65) m,p-Xylene	9.93	91	4659778	444.18	ug	100
66) o-Xylene	10.44	106	955443	226.17	ug	# 48
67) Styrene	10.47	104	1531629	235.33	ug	89
68) Isopropylbenzene	10.94	105	2318984	217.63	ug	98
70) 1,1,2,2-Tetrachloroethane	11.42	83	272925	156.61	ug	99
72) Bromoform	10.67	173	305999	147.43	ug	99
73) trans-1,4-Dichloro-2-buten	11.09	88	151118	77.27	ug	# 35
74) Bromobenzene	11.25	77	786985	139.18	ug	93
75) 1,2,3-Trichloropropane	11.41	75	218489	108.36	ug	99
76) 1,1,1,2-Tetrachloroethane	9.71	133	589815	138.65	ug	# 20
77) n-Propylbenzene	11.47	91	2549973m	190.32	ug	
78) 2-Chlorotoluene	11.52	91	2265153m	149.04	ug	
79) 4-Chlorotoluene	11.68	91	1839397	148.55	ug	93
80) n-Decane	11.86	57	762500	134.02	ug	95
81) 1,3,5-Trimethylbenzene	11.73	105	2011309	139.45	ug	96
82) tert-Butylbenzene	12.12	119	1990047	134.60	ug	96
83) 1,2,4-Trimethylbenzene	12.18	105	1815507	142.18	ug	# 84
84) sec-Butylbenzene	12.40	105	2215107	147.64	ug	94
85) 1,3-Dichlorobenzene	12.48	146	758856	142.42	ug	100
86) 1,4-Dichlorobenzene	12.60	146	736831	138.80	ug	96
87) 4-Isopropyltoluene	12.61	119	1744298	150.80	ug	99
88) 1,2-Dichlorobenzene	13.04	146	472300	151.63	ug	# 84
89) n-Butylbenzene	13.12	91	1374726	170.01	ug	96
90) 1,2-Dibromo-3-chloropropan	14.01	157	13468	237.51	ug	92
91) 1,2,4-Trichlorobenzene	15.04	180	117860	196.61	ug	94
92) Hexachlorobutadiene	15.31	225	51454	187.14	ug	99
93) Naphthalene	15.31	128	244854	188.41	ug	100
94) 1,2,3-Trichlorobenzene	15.62	180	116744	175.67	ug	98

(#) = qualifier out of range (m) = manual integration

CS271.D CLP.M Fri Sep 02 13:14:26 2011

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Instrument ID: MSVOAC Calibration Date/Time: 9/8/2011 10:32

Lab File ID: CS276.D Init. Calib. Date(s): 9/1/2011 9/1/2011

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:10 12:03

GC Column: DB624 ID: 0.18 (mm)

COMPOUND	RRF	RRF	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.888	1.028	0.010	15.77	40.0
Chloromethane	0.712	0.827	0.010	16.15	40.0
Vinyl Chloride	0.689	0.797	0.100	15.67	25.0
Bromomethane	0.249	0.261	0.100	4.82	25.0
Chloroethane	0.205	0.220	0.010	7.32	40.0
Trichlorofluoromethane	0.719	0.841	0.010	16.97	40.0
1,1-Dichloroethene	0.350	0.371	0.100	6.00	25.0
1,1,2-Trichloro-1,2,2-tri	0.394	0.421	0.010	6.85	40.0
Carbon Disulfide	1.112	1.223	0.010	9.98	40.0
Acetone	0.090	0.070	0.010	-22.22	40.0
Methyl Acetate	0.183	0.206	0.010	12.57	40.0
Methylene Chloride	0.559	0.519	0.010	-7.16	40.0
trans-1,2-Dichloroethene	0.386	0.399	0.010	3.37	40.0
Mtbe	0.659	0.673	0.010	2.12	40.0
1,1-Dichloroethane	0.620	0.629	0.200	1.45	25.0
cis-1,2-Dichloroethene	0.581	0.586	0.010	0.86	40.0
Bromochloromethane	0.253	0.250	0.100	-1.19	25.0
Chloroform	0.618	0.583	0.200	-5.66	25.0
Cyclohexane	0.608	0.609	0.010	0.16	40.0
1,2-Dichloroethane	0.406	0.352	0.100	-13.30	25.0
2-Butanone	0.091	0.089	0.010	-2.20	40.0
Methyl Cyclohexane	0.680	0.669	0.010	-1.62	40.0
1,1,1-Trichloroethane	0.745	0.716	0.100	-3.89	25.0
Carbon tetrachloride	0.653	0.595	0.100	-8.88	25.0
Benzene	1.746	1.558	0.500	-10.77	25.0
Trichloroethene	0.535	0.481	0.300	-10.09	25.0
1,2-Dichloropropane	0.363	0.300	0.010	-17.36	40.0
Bromodichloromethane	0.500	0.450	0.200	-10.00	25.0
cis-1,3-Dichloropropene	0.581	0.558	0.200	-3.96	25.0
trans-1,3-Dichloropropene	0.469	0.460	0.100	-1.92	25.0
1,1,2-Trichloroethane	0.231	0.205	0.100	-11.26	25.0
Dibromochloromethane	0.359	0.346	0.100	-3.62	25.0
1,2-Dibromoethane	0.279	0.266	0.010	-4.66	40.0
Bromoform	0.349	0.254	0.100	-27.22	25.0
4-Methyl-2-Pentanone	0.220	0.181	0.010	-17.73	40.0
Toluene	1.733	1.619	0.400	-6.58	25.0
Tetrachloroethene	0.386	0.378	0.200	-2.07	25.0
2-Hexanone	0.157	0.146	0.010	-7.01	40.0
Chlorobenzene	1.014	0.966	0.500	-4.73	25.0
Ethylbenzene	0.458	0.441	0.100	-3.71	25.0
m,p-Xylene	1.353	1.302	0.010	-3.77	40.0

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Instrument ID: MSVOAC Calibration Date/Time: 9/8/2011 10:32

Lab File ID: CS276.D Init. Calib. Date(s): 9/1/2011 9/1/2011

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:10 12:03

GC Column: DB624 ID: 0.18 (mm)

COMPOUND	RRF	RRF	MIN RRF	%D	MAX%D
o-Xylene	0.552	0.571	0.300	3.44	25.0
Styrene	0.864	0.890	0.300	3.01	25.0
Isopropylbenzene	1.356	1.468	0.010	8.26	40.0
1,1,2,2-Tetrachloroethane	0.203	0.195	0.300	-3.94	25.0
1,3-Dichlorobenzene	0.868	0.957	0.600	10.25	25.0
1,4-Dichlorobenzene	0.858	0.915	0.500	6.64	25.0
1,2-Dichlorobenzene	0.514	0.605	0.400	17.70	25.0
1,2-Dibromo-3-chloropropa	0.011	0.013	0.010	18.18	40.0
1,2,4-Trichlorobenzene	0.104	0.111	0.200	6.73	25.0
1,2-Dichloroethane-d4	0.296	0.291	0.010	-1.69	40.0
Toluene-d8	1.464	1.400	0.010	-4.37	40.0
Bromofluorobenzene	0.360	0.429	0.200	19.17	25.0

All other compounds must meet a minimum RRF of 0.010.

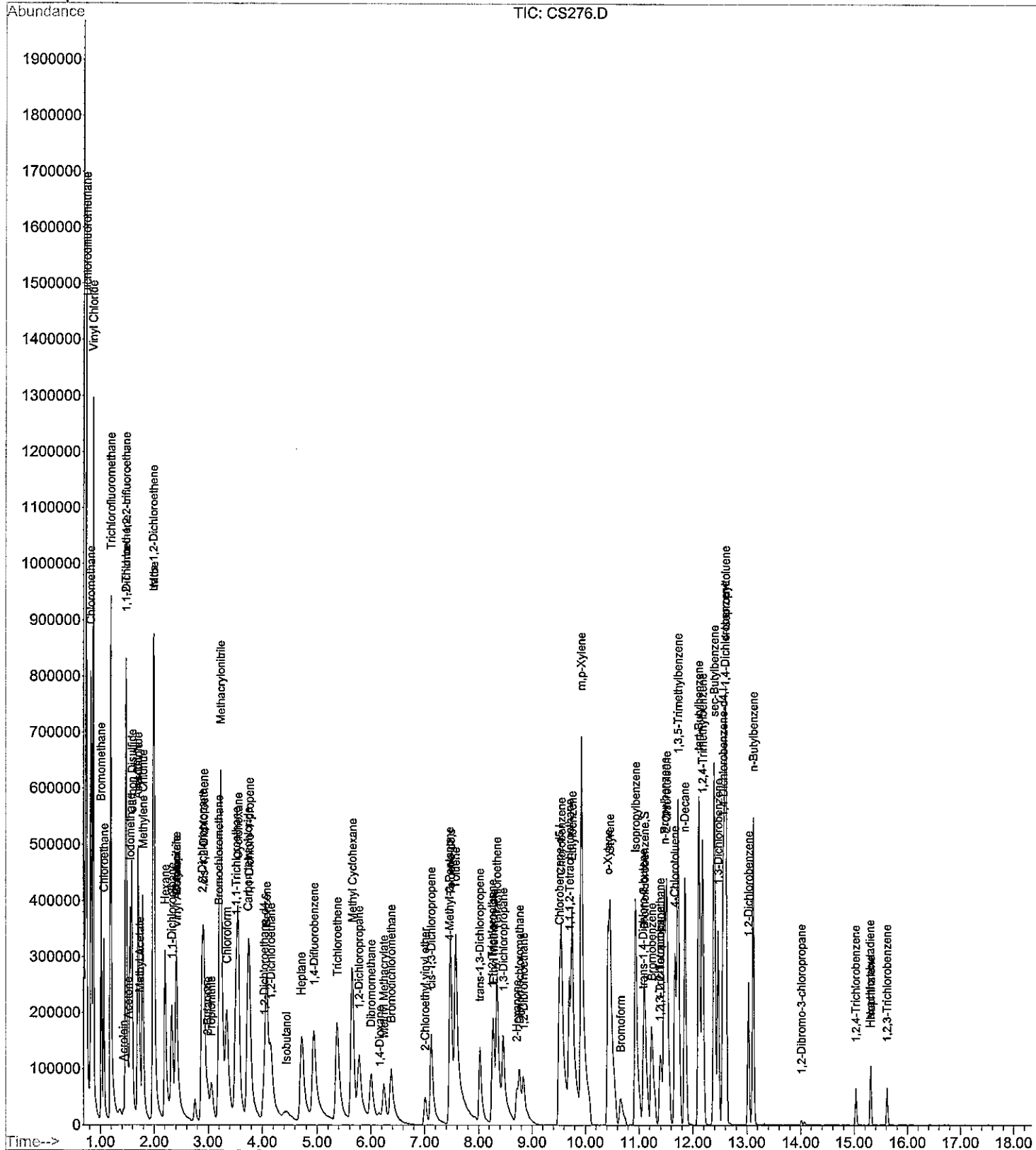
Quantitation Report

Data File : C:\HPCHEM\1\DATA\110908\CS276.D
Acq On : 8 Sep 2011 10:32
Sample : VSTD050
Misc :
MS Integration Params: LSCINT.P
Quant Time: Sep 8 11:11 2011

vial: 2
Operator:
Inst : GCMS-C
Multiplr: 1.00

Quant Results File: CLP.RES

```
Method      : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
Title       : Voa NBL Plus Calibration
Last Update : Fri Sep 02 11:53:44 2011
Response via : Initial Calibration
```



Data File : C:\HPCHEM\1\DATA\110908\CS276.D

Vial: 2

Acq On : 8 Sep 2011 10:32

Operator:

Sample : VSTD050

Inst : GCMS-C

Misc :

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 8 11:11 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration

Last Update : Fri Sep 02 11:53:44 2011

Response via : Initial Calibration

DataAcq Meth : METHOC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.95	114	491015	50.00	ug	0.00
37) Chlorobenzene-d5	9.51	117	390558	50.00	ug	0.00
71) 1,4-Dichlorobenzene-d4	12.56	150	246962m	50.00	ug	0.00

System Monitoring Compounds

32) 1,2-Dichloroethane-d4	4.03	65	143010	49.17	ug	0.00
58) Toluene-d8	7.48	98	546709	47.79	ug	0.00
69) Bromofluorobenzene	11.10	176	167741	59.71	ug	0.00

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.74	85	1009287	115.77	ug	92
3) Chloromethane	0.82	50	812113m	116.10	ug	
4) Vinyl Chloride	0.87	62	782568m	115.65	ug	
5) Bromomethane	1.01	96	255908	104.77	ug	89
6) Chloroethane	1.07	64	216353	107.54	ug	96
7) Trichlorofluoromethane	1.19	101	825784	116.96	ug	99
8) Acrolein	1.43	56	14639	135.48	ug	100
9) 1,1-Dichloroethene	1.47	96	182066	52.98	ug	100
10) 1,1,2-Trichloro-1,2,2-trif	1.47	101	206896	53.41	ug	# 50
11) Iodomethane	1.55	142	392926	57.20	ug	# 4
12) Carbon Disulfide	1.59	76	600524	54.97	ug	# 32
13) Acetone	1.52	43	68320m	77.71	ug	
14) Methyl Acetate	1.73	43	101071	56.34	ug	97
15) Allyl Chloride	1.70	41	419148	55.15	ug	# 56
16) Methylene Chloride	1.79	49	254747	46.39	ug	93
17) trans-1,2-Dichloroethene	1.98	96	196042	51.74	ug	# 39
18) Acrylonitrile	2.41	53	248073	201.30	ug	94
19) Mtbe	1.99	73	660899	102.08	ug	93
20) Hexane	2.21	43	136784	44.07	ug	89
21) 1,1-Dichloroethane	2.33	63	309060	50.79	ug	97
22) Chloroprene	2.41	53	248073	50.32	ug	# 83
23) Vinyl Acetate	2.42	43	176666	45.32	ug	# 94
24) cis-1,2-Dichloroethene	2.92	61	287866	50.41	ug	92
25) 2,2-Dichloropropane	2.89	77	275472	50.71	ug	92
26) Acetonitrile	1.70	41	419148	551.48	ug	# 100
27) Propionitrile	3.05	54	121456	487.70	ug	100
28) Bromochloromethane	3.20	49	122591	49.26	ug	96
29) Methacrylonitrile	3.23	67	386628	483.95	ug	# 78
30) Chloroform	3.35	83	286304	47.17	ug	94
31) 1,1-Dichloro-1-propene	3.76	75	244480	46.97	ug	94
33) 1,2-Dichloroethane	4.16	62	172739	43.32	ug	92
34) 2-Butanone	2.99	43	86915	97.02	ug	# 68
36) 1,4-Dioxane	6.16	88	26881	1192.66	ug	100
38) 1,1,1-Trichloroethane	3.52	97	279524	48.02	ug	90
39) Cyclohexane	3.55	84	237879	50.07	ug	# 71
40) Carbon tetrachloride	3.74	117	232516	45.60	ug	91
41) Benzene	4.08	78	608585	44.64	ug	# 64
42) Isobutanol	4.44	43	49343	1106.20	ug	97
43) Heptane	4.71	43	193700	48.55	ug	98
44) Trichloroethene	5.38	130	187699	44.89	ug	# 60
45) Methyl cyclohexane	5.66	83	261089	49.15	ug	93
46) 1,2-Dichloropropane	5.78	63	117187	41.34	ug	90
47) Dibromomethane	6.01	174	93196	44.39	ug	91
48) Methyl Methacrylate	6.24	69	63081	50.57	ug	# 70
49) Bromodichloromethane	6.38	83	175877	45.08	ug	97
50) 2-Chloroethyl vinyl ether	7.01	63	46130	48.06	ug	90

(#)=qualifier out of range (m)=manual integration

CS276.D CLP.M Tue Sep 13 14:24:36 2011

Data File : C:\HPCHEM\1\DATA\110908\CS276.D

Vial: 2

Acq On : 8 Sep 2011 10:32

Operator:

Sample : VSTD050

Inst : GCMS-C

Misc :

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 8 11:11 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration

Last Update : Fri Sep 02 11:53:44 2011

Response via : Initial Calibration

DataAcq Meth : METH0C

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) cis-1,3-Dichloropropene	7.12	75	217884	47.99	ug	99
52) trans-1,3-Dichloropropene	8.03	75	179645	48.99	ug	90
53) Ethyl Methacrylate	8.28	69	117961	47.79	ug	# 65
54) 1,1,2-Trichloroethane	8.26	83	80189	44.43	ug	95
55) Dibromochloromethane	8.77	129	135175	48.15	ug	# 91
56) 1,2-Dibromoethane	8.84	107	103883	47.59	ug	97
57) 4-Methyl-2-Pentanone	7.46	43	141621	82.57	ug	# 1
59) Toluene	7.57	91	632308	46.72	ug	97
60) Tetrachloroethene	8.34	164	147815	48.98	ug	97
61) 1,3-Dichloropropane	8.47	76	167706	47.45	ug	96
62) 2-Hexanone	8.71	43	113745	93.01	ug	# 82
63) Chlorobenzene	9.55	112	377136	47.63	ug	92
64) Ethylbenzene	9.75	106	172375	48.21	ug	94
65) m,p-Xylene	9.92	91	1017308	96.29	ug	100
66) o-Xylene	10.43	106	222987	51.71	ug	# 46
67) Styrene	10.46	104	347574	51.52	ug	91
68) Isopropylbenzene	10.93	105	573167	54.10	ug	98
70) 1,1,2,2-Tetrachloroethane	11.40	83	76267	48.11	ug	99
72) Bromoform	10.66	173	62850	36.48	ug	97
73) trans-1,4-Dichloro-2-buten	11.08	88	36795	31.08	ug	# 1
74) Bromobenzene	11.24	77	185771	40.31	ug	91
75) 1,2,3-Trichloropropane	11.39	75	49027	34.68	ug	92
76) 1,1,1,2-Tetrachloroethane	9.71	133	133215	38.60	ug	# 27
77) n-Propylbenzene	11.48	91	552528	47.35	ug	92
78) 2-Chlorotoluene	11.51	91	547766m	44.00	ug	
79) 4-Chlorotoluene	11.67	91	419858	41.53	ug	92
80) n-Decane	11.85	57	231972	48.78	ug	94
81) 1,3,5-Trimethylbenzene	11.72	105	498566	43.11	ug	95
82) tert-Butylbenzene	12.11	119	535554	45.55	ug	91
83) 1,2,4-Trimethylbenzene	12.17	105	478232	46.46	ug	# 82
84) sec-Butylbenzene	12.39	105	735211	60.10	ug	95
85) 1,3-Dichlorobenzene	12.47	146	236356	55.13	ug	99
86) 1,4-Dichlorobenzene	12.59	146	225916	53.31	ug	98
87) 4-Isopropyltoluene	12.60	119	534992	56.72	ug	99
88) 1,2-Dichlorobenzene	13.03	146	149315	58.87	ug	# 83
89) n-Butylbenzene	13.12	91	402802	59.70	ug	95
90) 1,2-Dibromo-3-chloropropan	14.01	157	3190	58.86	ug	91
91) 1,2,4-Trichlorobenzene	15.03	180	27526	53.68	ug	92
92) Hexachlorobutadiene	15.30	225	13217	55.57	ug	96
93) Naphthalene	15.31	128	53112	49.81	ug	100
94) 1,2,3-Trichlorobenzene	15.61	180	25571	48.20	ug	99

(#) = qualifier out of range (m) = manual integration

CS276.D CLP.M Tue Sep 13 14:24:38 2011

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Instrument ID: MSVOAC Calibration Date/Time: 9/9/2011 10:22

Lab File ID: CS277.D Init. Calib. Date(s): 9/1/2011 9/1/2011

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:10 12:03

GC Column: DB624 ID: 0.18 (mm)

COMPOUND	RRF	RRF	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.888	0.811	0.010	-8.67	40.0
Chloromethane	0.712	0.799	0.010	12.22	40.0
Vinyl Chloride	0.689	0.741	0.100	7.55	25.0
Bromomethane	0.249	0.156	0.100	-37.35	25.0
Chloroethane	0.205	0.121	0.010	-40.98	40.0
Trichlorofluoromethane	0.719	0.582	0.010	-19.05	40.0
1,1-Dichloroethene	0.350	0.314	0.100	-10.29	25.0
1,1,2-Trichloro-1,2,2-tri	0.394	0.350	0.010	-11.17	40.0
Carbon Disulfide	1.112	1.068	0.010	-3.96	40.0
Acetone	0.090	0.081	0.010	-10.00	40.0
Methyl Acetate	0.183	0.187	0.010	2.19	40.0
Methylene Chloride	0.559	0.472	0.010	-15.56	40.0
trans-1,2-Dichloroethene	0.386	0.375	0.010	-2.85	40.0
Mtbe	0.659	0.579	0.010	-12.14	40.0
1,1-Dichloroethane	0.620	0.586	0.200	-5.48	25.0
cis-1,2-Dichloroethene	0.581	0.693	0.010	19.28	40.0
Bromochloromethane	0.253	0.277	0.100	9.49	25.0
Chloroform	0.618	0.719	0.200	16.34	25.0
Cyclohexane	0.608	0.733	0.010	20.56	40.0
1,2-Dichloroethane	0.406	0.435	0.100	7.14	25.0
2-Butanone	0.091	0.106	0.010	16.48	40.0
Methyl Cyclohexane	0.680	0.720	0.010	5.88	40.0
1,1,1-Trichloroethane	0.745	0.807	0.100	8.32	25.0
Carbon tetrachloride	0.653	0.699	0.100	7.04	25.0
Benzene	1.746	2.029	0.500	16.21	25.0
Trichloroethene	0.535	0.583	0.300	8.97	25.0
1,2-Dichloropropane	0.363	0.365	0.010	0.55	40.0
Bromodichloromethane	0.500	0.505	0.200	1.00	25.0
cis-1,3-Dichloropropene	0.581	0.609	0.200	4.82	25.0
trans-1,3-Dichloropropene	0.469	0.467	0.100	-0.43	25.0
1,1,2-Trichloroethane	0.231	0.248	0.100	7.36	25.0
Dibromochloromethane	0.359	0.359	0.100	0.00	25.0
1,2-Dibromoethane	0.279	0.296	0.010	6.09	40.0
Bromoform	0.349	0.267	0.100	-23.50	25.0
4-Methyl-2-Pentanone	0.220	0.222	0.010	0.91	40.0
Toluene	1.733	1.821	0.400	5.08	25.0
Tetrachloroethene	0.386	0.430	0.200	11.40	25.0
2-Hexanone	0.157	0.158	0.010	0.64	40.0
Chlorobenzene	1.014	1.071	0.500	5.62	25.0
Ethylbenzene	0.458	0.480	0.100	4.80	25.0
m,p-Xylene	1.353	1.388	0.010	2.59	40.0

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Instrument ID: MSVOAC Calibration Date/Time: 9/9/2011 10:22

Lab File ID: CS277.D Init. Calib. Date(s): 9/1/2011 9/1/2011

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:10 12:03

GC Column: DB624 ID: 0.18 (mm)

COMPOUND	RRF	RRF	MIN RRF	%D	MAX%D
o-Xylene	0.552	0.585	0.300	5.98	25.0
Styrene	0.864	0.887	0.300	2.66	25.0
Isopropylbenzene	1.356	1.406	0.010	3.69	40.0
1,1,2,2-Tetrachloroethane	0.203	0.189	0.300	-6.90	25.0
1,3-Dichlorobenzene	0.868	0.838	0.600	-3.46	25.0
1,4-Dichlorobenzene	0.858	0.837	0.500	-2.45	25.0
1,2-Dichlorobenzene	0.514	0.509	0.400	-0.97	25.0
1,2-Dibromo-3-chloropropa	0.011	0.010	0.010	-9.09	40.0
1,2,4-Trichlorobenzene	0.104	0.105	0.200	0.96	25.0
1,2-Dichloroethane-d4	0.296	0.310	0.010	4.73	40.0
Toluene-d8	1.464	1.505	0.010	2.80	40.0
Bromofluorobenzene	0.360	0.363	0.200	0.83	25.0

All other compounds must meet a minimum RRF of 0.010.

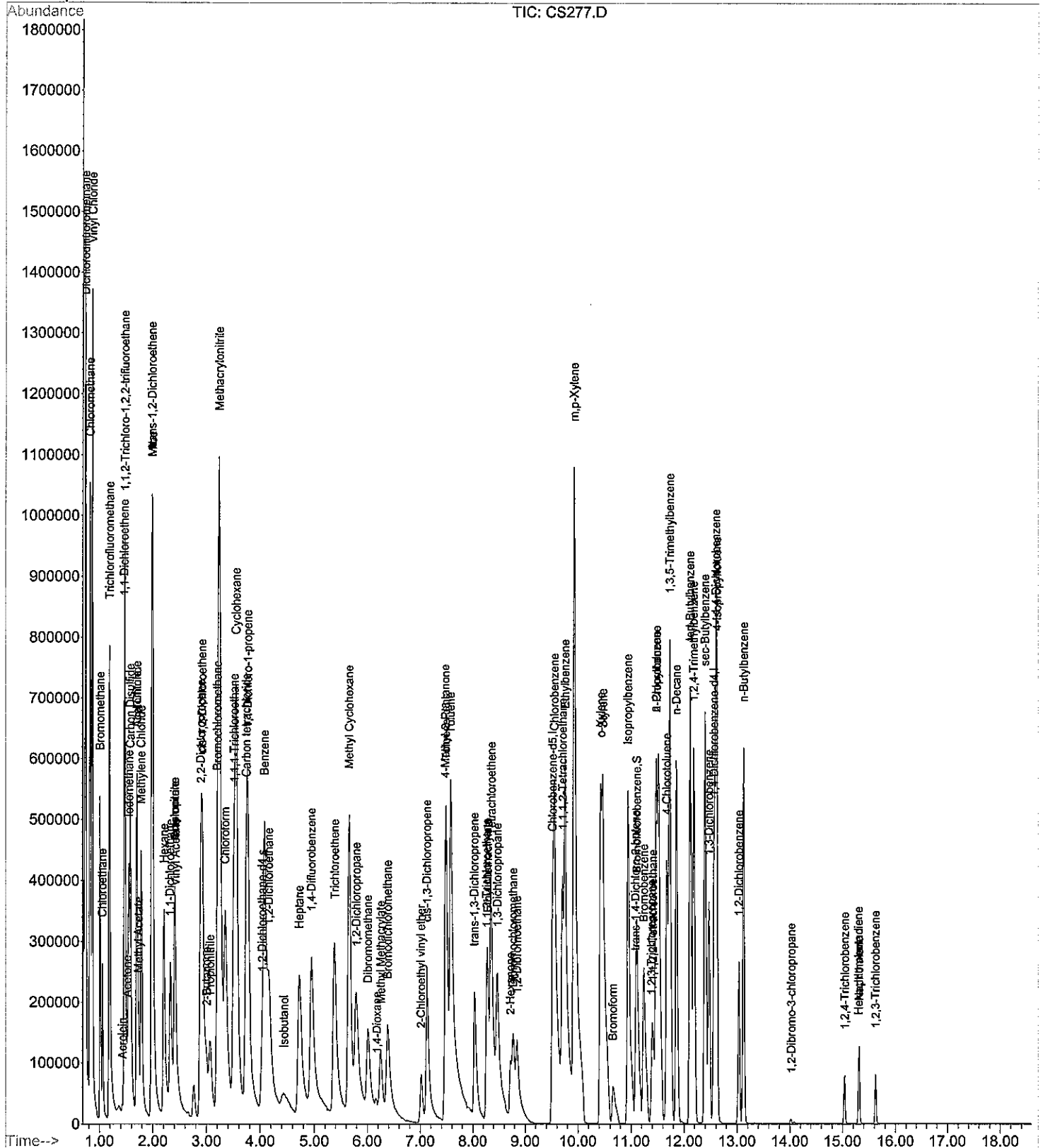
Quantitation Report

Data File : C:\HPCHEM\1\DATA\110909\CS277.D
Acq On : 9 Sep 2011 10:22
Sample : VSTD050
Misc : CCV EPA_8260_WATER
MS Integration Params: LSCINT.P
Quant Time: Sep 9 14:25 2011

Vial: 2
Operator:
Inst : GCMS-C
Multiplr: 1.00

Quant Results File: CLP.RES

```
Method       : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
Title        : Voa NBL Plus Calibration
Last Update   : Fri Sep 02 11:53:44 2011
Response via  : Initial Calibration
```



Data File : C:\HPCHEM\1\DATA\110909\CS277.D

Vial: 2

Acq On : 9 Sep 2011 10:22

Operator:

Sample : VSTD050

Inst : GCMS-C

Misc : CCV EPA_8260_WATER

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 9 14:25 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration

Last Update : Fri Sep 02 11:53:44 2011

Response via : Initial Calibration

DataAcq Meth : METH0C

Internal standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.95	114	666448m	50.00	ug	0.01
37) Chlorobenzene-d5	9.52	117	566780	50.00	ug	0.01
71) 1,4-Dichlorobenzene-d4	12.56	150	305218	50.00	ug	0.00

System Monitoring Compounds

32) 1,2-Dichloroethane-d4	4.04	65	206465	52.30	ug	0.00
58) Toluene-d8	7.49	98	852755	51.37	ug	0.00
69) Bromofluorobenzene	11.11	176	205762	50.47	ug	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.73	85	1081642	91.41	ug	92
3) Chloromethane	0.82	50	1065468	112.23	ug	96
4) Vinyl Chloride	0.87	62	987494	107.52	ug	# 86
5) Bromomethane	1.02	96	208539m	62.90	ug	
6) Chloroethane	1.06	64	161776m	59.24	ug	
7) Trichlorofluoromethane	1.20	101	776344	81.01	ug	98
8) Acrolein	1.43	56	15365	104.77	ug	93
9) 1,1-Dichloroethene	1.47	96	209210	44.86	ug	99
10) 1,1,2-Trichloro-1,2,2-trif	1.48	101	233164	44.35	ug	# 43
11) Iodomethane	1.56	142	452780	48.56	ug	# 4
12) Carbon Disulfide	1.58	76	711474	47.98	ug	# 31
13) Acetone	1.52	43	107478m	90.07	ug	
14) Methyl Acetate	1.74	43	124561	51.16	ug	94
15) Allyl Chloride	1.70	41	498386	48.31	ug	# 53
16) Methylene Chloride	1.78	49	314583m	42.20	ug	
17) trans-1,2-Dichloroethene	1.99	96	250226	48.65	ug	# 34
18) Acrylonitrile	2.41	53	287836	172.08	ug	94
19) Mtbe	2.00	73	771299	87.77	ug	93
20) Hexane	2.21	43	169236	40.18	ug	97
21) 1,1-Dichloroethane	2.32	63	390222	47.25	ug	97
22) Chloroprene	2.41	53	287836	43.02	ug	# 79
23) Vinyl Acetate	2.43	43	219311	41.45	ug	# 93
24) cis-1,2-Dichloroethene	2.92	61	461657	59.56	ug	95
25) 2,2-Dichloropropane	2.90	77	405243	54.96	ug	# 90
26) Acetonitrile	1.70	41	498386	483.12	ug	# 100
27) Propionitrile	3.07	54	180606m	534.31	ug	
28) Bromochloromethane	3.20	49	184537m	54.63	ug	
29) Methacrylonitrile	3.24	67	593422m	547.27	ug	
30) Chloroform	3.35	83	478930m	58.14	ug	
31) 1,1-Dichloro-1-propene	3.77	75	432147	61.17	ug	97
33) 1,2-Dichloroethane	4.16	62	289862	53.55	ug	99
34) 2-Butanone	3.00	43	141750m	116.58	ug	
36) 1,4-Dioxane	6.18	88	41509m	1356.88	ug	
38) 1,1,1-Trichloroethane	3.52	97	457325	54.14	ug	89
39) Cyclohexane	3.55	84	415687m	60.30	ug	
40) Carbon tetrachloride	3.74	117	396017	53.52	ug	96
41) Benzene	4.08	78	1149946	58.12	ug	# 61
42) Isobutanol	4.44	43	76879m	1187.65	ug	
43) Heptane	4.73	43	324607	56.07	ug	95
44) Trichloroethene	5.39	130	330341	54.44	ug	# 58
45) Methyl cyclohexane	5.66	83	407995m	52.92	ug	
46) 1,2-Dichloropropane	5.80	63	207117	50.35	ug	99
47) Dibromomethane	6.01	174	154284	50.64	ug	94
48) Methyl Methacrylate	6.26	69	104209	57.57	ug	# 76
49) Bromodichloromethane	6.38	83	286310	50.56	ug	# 92
50) 2-Chloroethyl vinyl ether	7.01	63	76280	54.77	ug	89

(#)=qualifier out of range (m)=manual integration

CS277.D CLP.M Tue Sep 13 14:32:39 2011

Data File : C:\HPCHEM\1\DATA\110909\CS277.D

Vial: 2

Acq On : 9 Sep 2011 10:22

Operator:

Sample : VSTD050

Inst : GCMS-C

Misc : CCV EPA_8260_WATER

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 9 14:25 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration

Last Update : Fri Sep 02 11:53:44 2011

Response via : Initial Calibration

DataAcq Meth : METH0C

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51) cis-1,3-Dichloropropene	7.13	75	345441	52.43	ug	98
52) trans-1,3-Dichloropropene	8.03	75	264956	49.79	ug	95
53) Ethyl Methacrylate	8.29	69	196777	54.94	ug	# 73
54) 1,1,2-Trichloroethane	8.27	83	140388	53.60	ug	94
55) Dibromochloromethane	8.77	129	203534	49.96	ug	# 91
56) 1,2-Dibromoethane	8.84	107	167852	52.99	ug	99
57) 4-Methyl-2-Pentanone	7.48	43	251095	100.88	ug	# 1
59) Toluene	7.58	91	1031846	52.54	ug	94
60) Tetrachloroethene	8.36	164	243513	55.60	ug	95
61) 1,3-Dichloropropane	8.47	76	266128	51.88	ug	98
62) 2-Hexanone	8.72	43	179292	101.03	ug	# 84
63) Chlorobenzene	9.55	112	607013	52.83	ug	93
64) Ethylbenzene	9.76	106	272203	52.46	ug	93
65) m,p-Xylene	9.92	91	1572902	102.58	ug	98
66) o-Xylene	10.43	106	331693	53.01	ug	# 43
67) Styrene	10.47	104	502590	51.33	ug	95
68) Isopropylbenzene	10.94	105	796657	51.82	ug	99
70) 1,1,2,2-Tetrachloroethane	11.41	83	106907	46.47	ug	95
72) Bromoform	10.66	173	81579	38.31	ug	97
73) trans-1,4-Dichloro-2-buten	11.09	88	48424	33.10	ug	# 1
74) Bromobenzene	11.24	77	259958	45.64	ug	89
75) 1,2,3-Trichloropropane	11.39	75	65884	37.71	ug	93
76) 1,1,1,2-Tetrachloroethane	9.71	133	199851	46.86	ug	# 29
77) n-Propylbenzene	11.48	91	789773	54.77	ug	93
78) 2-Chlorotoluene	11.48	91	789773	51.33	ug	93
79) 4-Chlorotoluene	11.67	91	582171	46.60	ug	91
80) n-Decane	11.85	57	320781	54.58	ug	95
81) 1,3,5-Trimethylbenzene	11.73	105	690394	48.31	ug	94
82) tert-Butylbenzene	12.11	119	655667	45.13	ug	92
83) 1,2,4-Trimethylbenzene	12.18	105	586355	46.10	ug	# 82
84) sec-Butylbenzene	12.39	105	792490	52.41	ug	94
85) 1,3-Dichlorobenzene	12.47	146	255696	48.26	ug	99
86) 1,4-Dichlorobenzene	12.60	146	255523	48.79	ug	94
87) 4-Isopropyltoluene	12.62	119	602548	51.69	ug	99
88) 1,2-Dichlorobenzene	13.04	146	155379	49.57	ug	# 85
89) n-Butylbenzene	13.13	91	455277	54.60	ug	96
90) 1,2-Dibromo-3-chloropropan	14.03	157	3176	47.42	ug	98
91) 1,2,4-Trichlorobenzene	15.04	180	31998	50.49	ug	93
92) Hexachlorobutadiene	15.30	225	16404	55.81	ug	97
93) Naphthalene	15.31	128	60550	45.94	ug	100
94) 1,2,3-Trichlorobenzene	15.62	180	31400	47.89	ug	96

(#) = qualifier out of range (m) = manual integration

CS277.D CLP.M Tue Sep 13 14:32:41 2011

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	491015	4.95	390558	9.51	246962	12.56
UPPER LIMIT	982030	5.45	781116	10.01	493924	13.06
LOWER LIMIT	245508	4.45	195279	9.01	123481	12.06
SAMPLE NO.						
VSTD050	491015	4.95	390558	9.51	246962	12.56
VBLK01	879603	4.94	684966	9.51	325242	12.56
MW-1R	728062	4.94	585744	9.51	255594	12.57
MW-10	455635	4.96	364613	9.51	171111	12.57
Trip Blank Lot #2	844073	4.95	649321	9.51	286049	12.56
MW-13	786752	4.95	629152	9.51	285181	12.56
MW-19	646395	4.95	521266	9.51	237943	12.57
MW-14	751929	4.94	564303	9.51	252437	12.56
MW-16	536580	4.94	596499	9.51	280723	12.57
MW-15	784079	4.94	621776	9.51	288979	12.56
MW-20	453540	4.94	580371	9.52	258312	12.56
MW-18	516711	4.94	514794	9.51	239811	12.57
MW-11	577898	4.94	618778	9.52	270720	12.56
Trip Blank Lot #2	707692	4.95	574584	9.51	250753	12.57
MW-4	701137	4.94	538479	9.52	230119	12.56
MW-4R	749856	4.94	595578	9.52	261467	12.56
MW-Dup	787278	4.94	617098	9.51	262832	12.56
VMSB	856230	4.95	671369	9.51	304515	12.57

IS1 = 1,4-Difluorobenzene
IS2 = Chlorobenzene-d5
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

```
# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.
```

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	666448	4.95	566780	9.52	305218	12.56
UPPER LIMIT	1332896	5.45	1133560	10.02	610436	13.06
LOWER LIMIT	333224	4.45	283390	9.02	152609	12.06
SAMPLE NO.						
VSTD050	666448	4.95	566780	9.52	305218	12.56
VBLK02	517892	4.96	480725	9.51	303543	12.57
MW-17	739417	4.95	572811	9.52	268283	12.56
MW-13MS	523638	4.95	510508	9.52	303133	12.56
MW-13MSD	829086	4.96	627934	9.52	290303	12.57

DISCUSSION

RAW QC

DATA

Data File : C:\HPCHEM\1\DATA\110901\CT268.D

vial: 1

Acq On : 1 Sep 2011 9:41

Operator:

Sample : Bfb -purged

Inst : GCMS-C

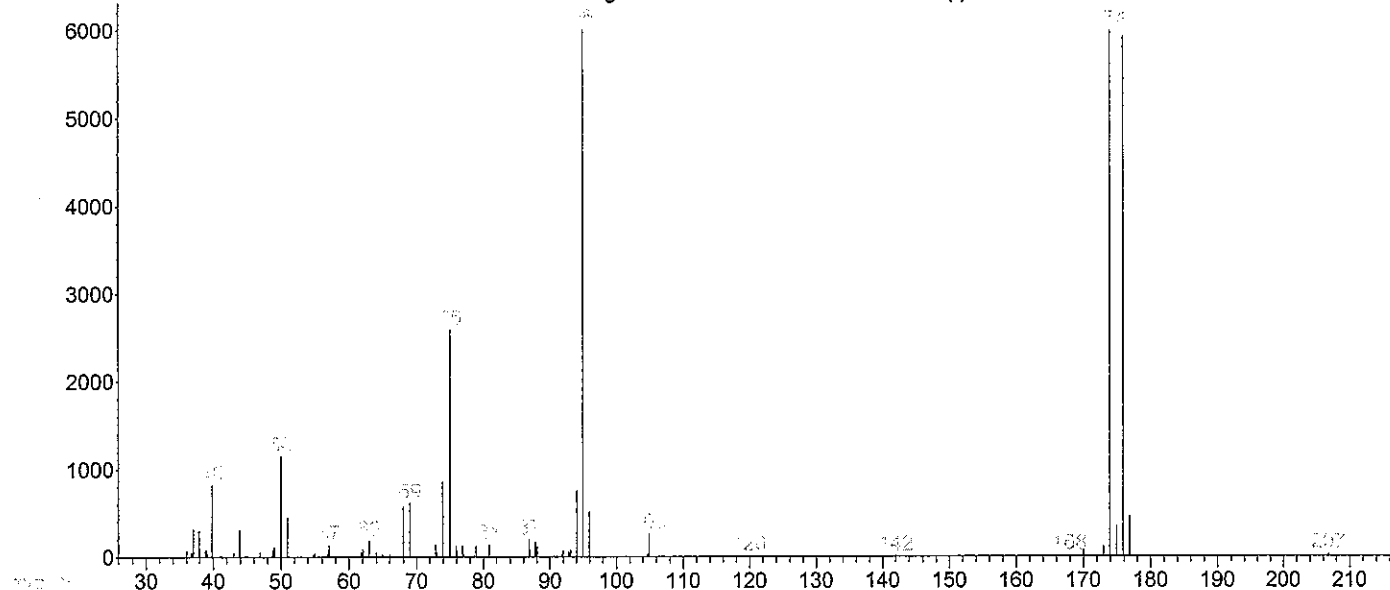
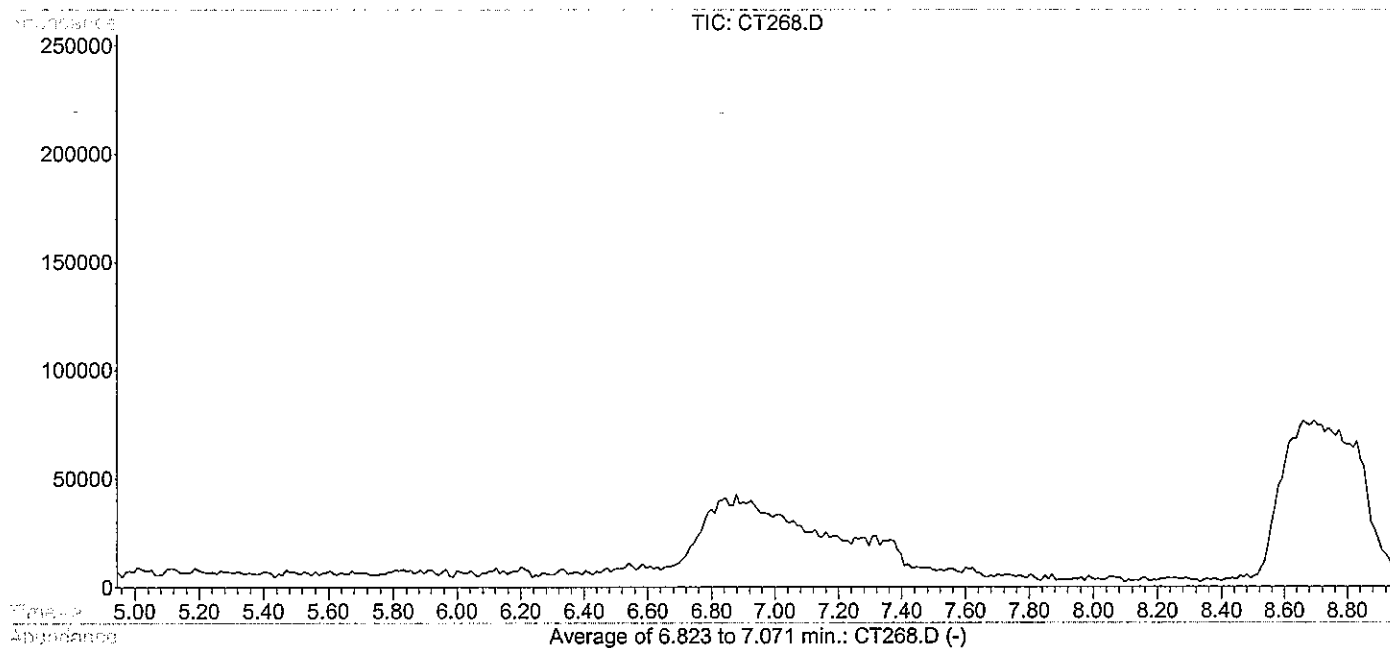
Misc :

Multiplr: 1.00

MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration



Spectrum Information: Average of 6.823 to 7.071 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.1	1147	PASS
75	95	30	60	43.1	2589	PASS
95	95	100	100	100.0	6010	PASS
96	95	5	9	8.4	506	PASS
173	174	0.00	2	1.9	112	PASS
174	95	50	100	99.7	5992	PASS
175	174	5	9	5.8	347	PASS
176	174	95	101	99.0	5935	PASS
177	176	5	9	7.5	447	PASS

Data File : C:\HPCHEM\1\DATA\110908\CT276.D

Vial: 1

Acq On : 8 Sep 2011 10:04

Operator:

Sample : Bfb -purged

Inst : GCMS-C

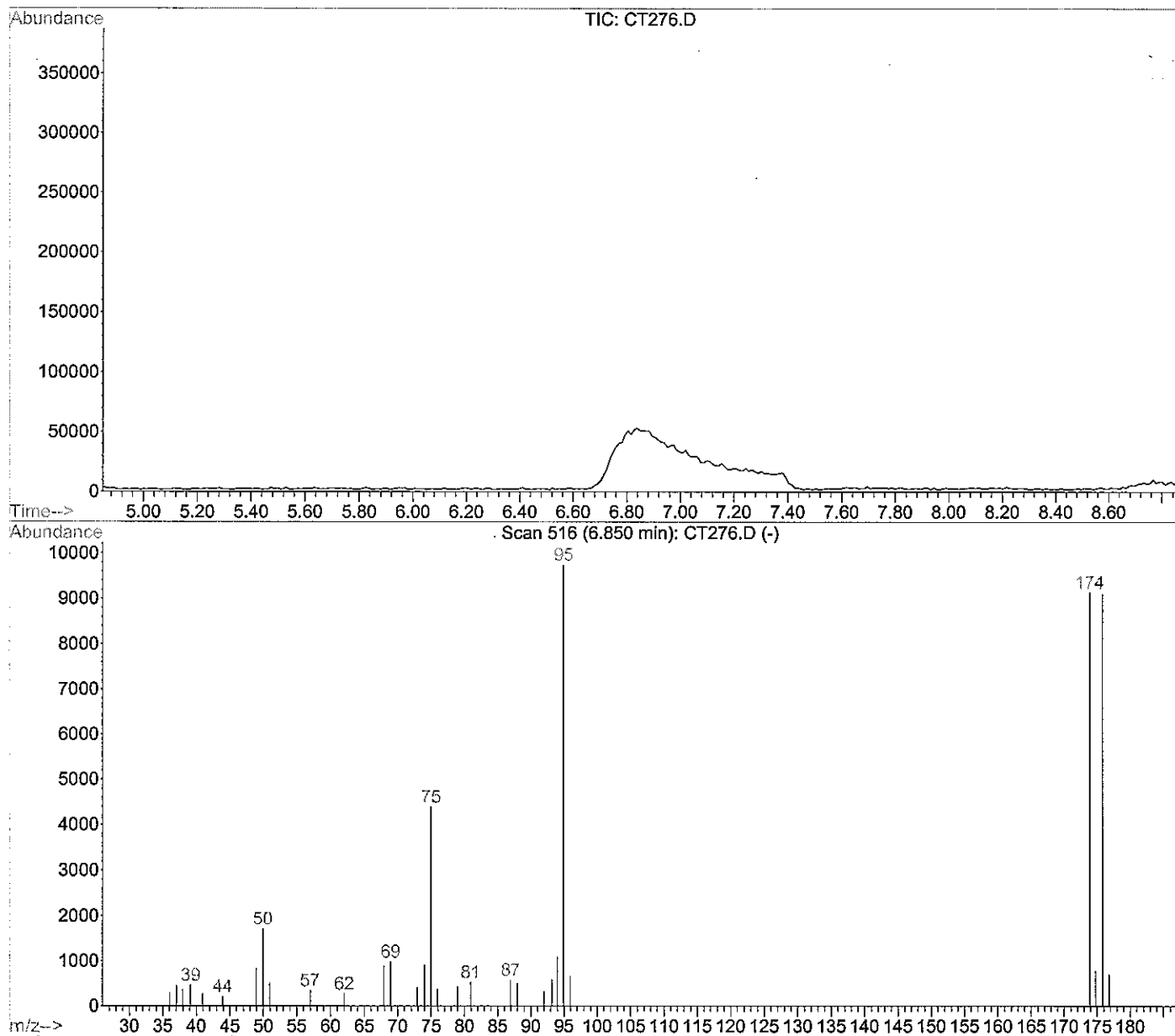
Misc :

Multiplr: 1.00

MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration



Spectrum Information: Scan 516

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.6	1710	PASS
75	95	30	60	45.1	4394	PASS
95	95	100	100	100.0	9734	PASS
96	95	5	9	6.8	663	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	93.8	9131	PASS
175	174	5	9	8.5	772	PASS
176	174	95	101	99.6	9096	PASS
177	176	5	9	7.6	694	PASS

BFB

Data File : C:\HPCHEM\1\DATA\110909\CT277.D

Vial: 1

Acq On : 9 Sep 2011 9:55

Operator:

Sample : Bfb -purged

Inst : GCMS-C

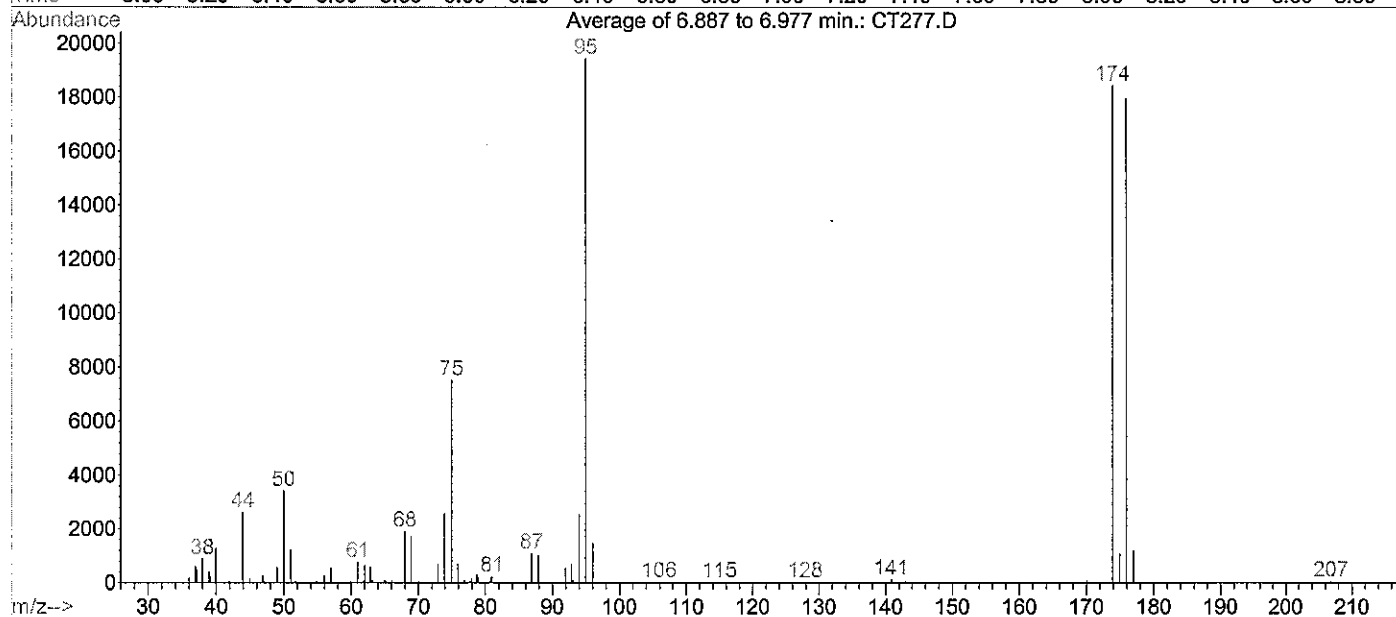
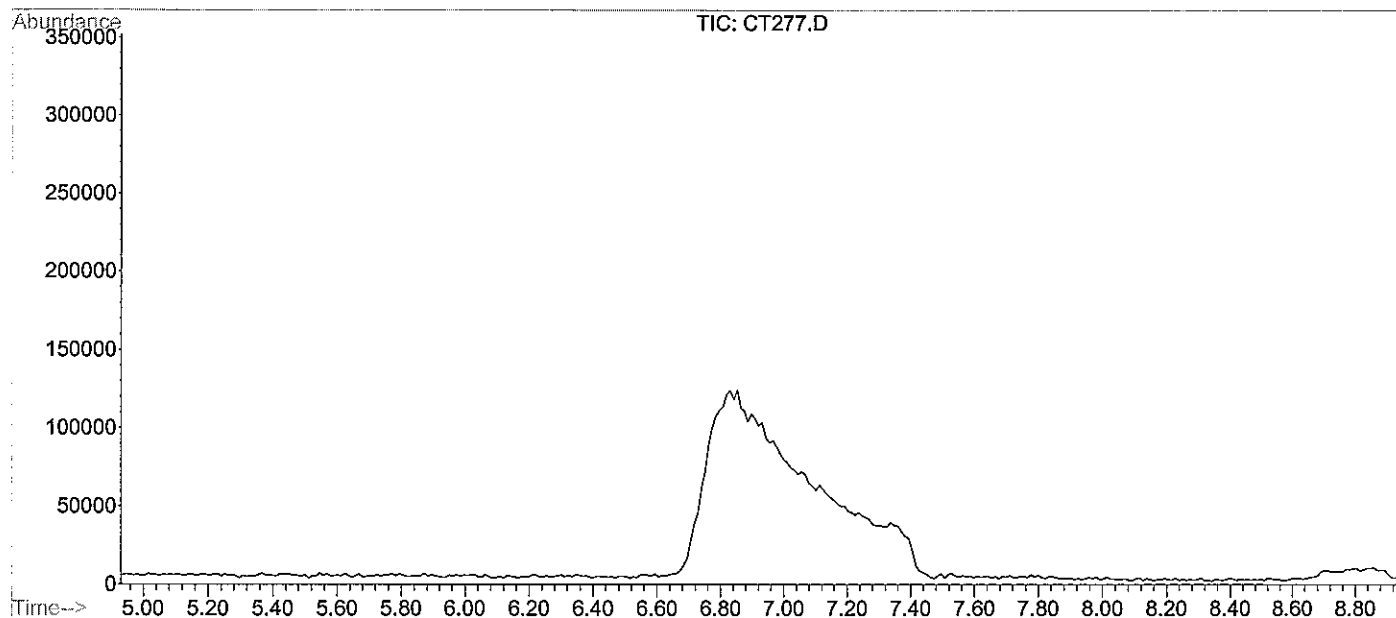
Misc :

Multiplr: 1.00

MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration



Spectrum Information: Average of 6.887 to 6.977 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.6	3416	PASS
75	95	30	60	38.7	7520	PASS
95	95	100	100	100.0	19428	PASS
96	95	5	9	7.6	1469	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	94.9	18438	PASS
175	174	5	9	5.8	1074	PASS
176	174	95	101	97.3	17949	PASS
177	176	5	9	6.7	1204	PASS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VELK01

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: VELK01

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: CB276.D

Level (low/med): _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
67-64-1	Acetone	9.7	J	
79-20-9	Methyl Acetate	5.0	U	
75-09-2	Methylene Chloride	5.4		
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl tert-butyl Ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
156-59-2	cis-1,2-Dichloroethene	5.0	U	
74-97-5	Bromochloromethane	5.0	U	
67-66-3	Chloroform	5.0	U	
110-82-7	Cyclohexane	5.0	U	
107-06-2	1,2-Dichloroethane	5.0	U	
78-93-3	2-Butanone	10	U	
108-87-2	Methyl Cyclohexane	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
56-23-5	Carbon Tetrachloride	5.0	U	
71-43-2	Benzene	5.0	U	
79-01-6	Trichloroethene	5.0	U	
78-87-5	1,2-Dichloropropane	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
124-48-1	Dibromochloromethane	5.0	U	
106-93-4	1,2-Dibromoethane	5.0	U	
75-25-2	Bromoform	5.0	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: VBLK01

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: CB276.D

Level (low/med): _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone	10	U	
108-88-3	Toluene	5.0	U	
127-18-4	Tetrachloroethene	5.0	U	
591-78-6	2-Hexanone	10	U	
108-90-7	Chlorobenzene	5.0	U	
100-41-4	Ethyl Benzene	5.0	U	
126777-61-2	m,p-Xylenes	5.0	U	
95-47-6	o-Xylene	5.0	U	
100-42-5	Styrene	5.0	U	
98-82-8	Isopropylbenzene	5.0	U	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	
541-73-1	1,3-Dichlorobenzene	5.0	U	
106-46-7	1,4-Dichlorobenzene	5.0	U	
95-50-1	1,2-Dichlorobenzene	5.0	U	
96-12-8	1,2-Dibromo-3-Chloropropane	50	U	
120-82-1	1,2,4-Trichlorobenzene	5.0	U	

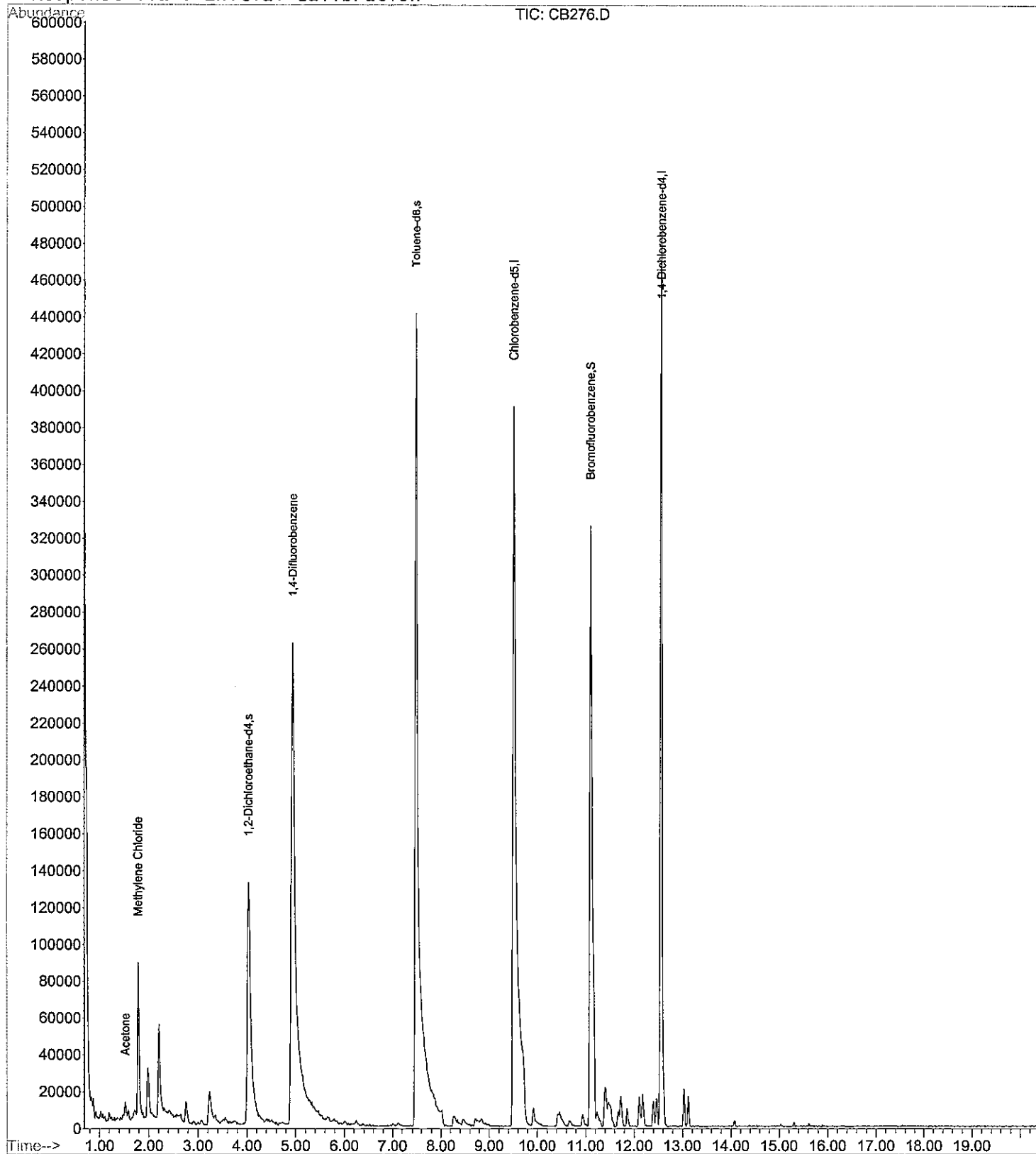
Quantitation Report

Data File : C:\HPCHEM\1\DATA\110908\CB276.D
 Acq On : 8 Sep 2011 11:00
 Sample : VBLK
 Misc : MBLK EPA_8260_WATER
 MS Integration Params: LSCINT.P
 Quant Time: Sep 9 11:38 2011

Vial: 3
 Operator:
 Inst : GCMS-C
 Multiplr: 1.00

Quant Results File: CLP.RES

Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
 Title : Voa NBL Plus Calibration
 Last update : Fri Sep 02 11:53:44 2011
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\110908\CB276.D

Vial: 3

Acq On : 8 Sep 2011 11:00

Operator:

Sample : VBLK

Inst : GCMS-C

Misc : MBLK EPA_8260_WATER

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 9 11:38 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration

Last Update : Fri Sep 02 11:53:44 2011

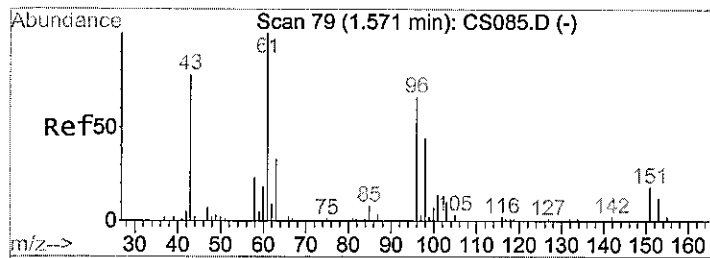
Response via : Initial Calibration

DataAcq Meth : METH0C

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.94	114	879603	50.00	ug	0.00
37) Chlorobenzene-d5	9.51	117	684966	50.00	ug	0.00
71) 1,4-Dichlorobenzene-d4	12.56	150	325242	50.00	ug	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	4.03	65	240334	46.13	ug	-0.01
58) Toluene-d8	7.48	98	944807	47.09	ug	-0.01
69) Bromofluorobenzene	11.10	176	233972	47.49	ug	-0.01
Target Compounds						
13) Acetone	1.52	43	15341	9.74	ug	Qvalue # 39
16) Methylene Chloride	1.78	49	53051	5.39	ug	89

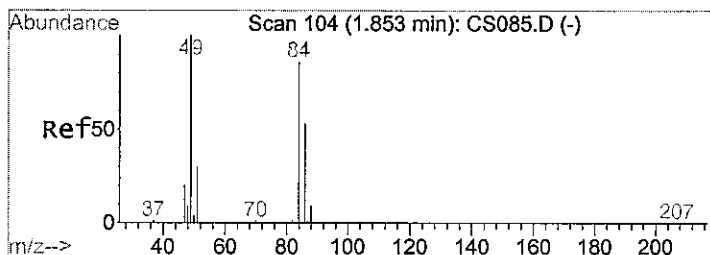
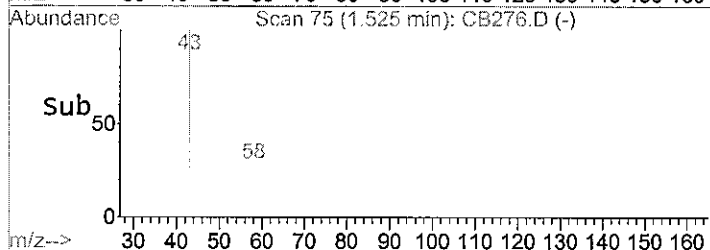
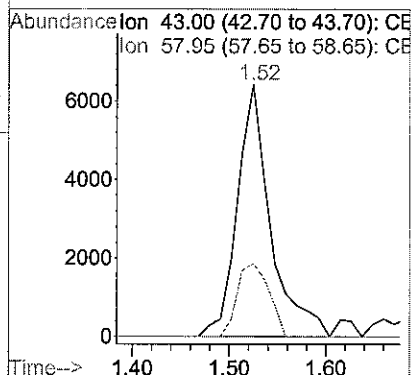
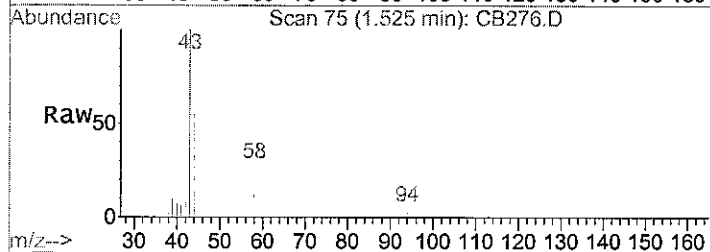
(#) = qualifier out of range (m) = manual integration

CB276.D CLP.M Tue Sep 13 14:25:08 2011



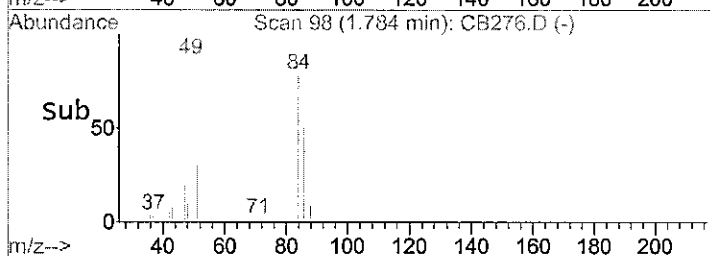
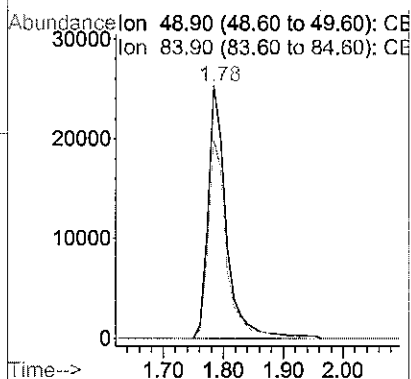
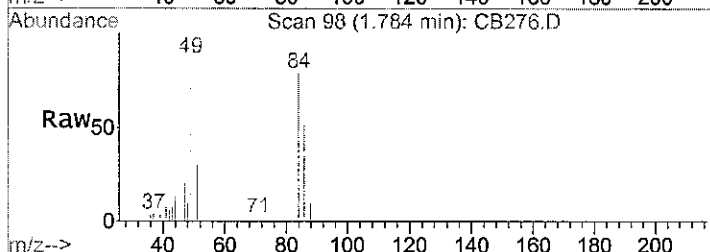
#13
Acetone
Concen: 9.74 ug
RT: 1.52 min Scan# 75
Delta R.T. 0.00 min
Lab File: CB276.D
Acq: 8 Sep 2011 11:00

Tgt Ion: 43 Resp: 15341
Ion Ratio Lower Upper
43 100
58 27.7 5.4 8.2#



#16
Methylene Chloride
Concen: 5.39 ug
RT: 1.78 min Scan# 98
Delta R.T. 0.00 min
Lab File: CB276.D
Acq: 8 Sep 2011 11:00

Tgt Ion: 49 Resp: 53051
Ion Ratio Lower Upper
49 100
84 78.4 70.9 106.3



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: VBLK02

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: CB277.D

Level (low/med): _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 9/9/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
67-64-1	Acetone	10		
79-20-9	Methyl Acetate	5.0	U	
75-09-2	Methylene Chloride	4.8	J	
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl tert-butyl Ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
156-59-2	cis-1,2-Dichloroethene	5.0	U	
74-97-5	Bromochloromethane	5.0	U	
67-66-3	Chloroform	5.0	U	
110-82-7	Cyclohexane	5.0	U	
107-06-2	1,2-Dichloroethane	5.0	U	
78-93-3	2-Butanone	10	U	
108-87-2	Methyl Cyclohexane	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
56-23-5	Carbon Tetrachloride	5.0	U	
71-43-2	Benzene	5.0	U	
79-01-6	Trichloroethene	5.0	U	
78-87-5	1,2-Dichloropropane	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
124-48-1	Dibromochloromethane	5.0	U	
106-93-4	1,2-Dibromoethane	5.0	U	
75-25-2	Bromoform	5.0	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: VBLK02

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: CB277.D

Level (low/med): _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 9/9/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		5.0	U
127-18-4	Tetrachloroethene		5.0	U
591-78-6	2-Hexanone		10	U
108-90-7	Chlorobenzene		5.0	U
100-41-4	Ethyl Benzene		5.0	U
126777-61-2	m,p-Xylenes		5.0	U
95-47-6	o-Xylene		5.0	U
100-42-5	Styrene		5.0	U
98-82-8	Isopropylbenzene		5.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.0	U
541-73-1	1,3-Dichlorobenzene		5.0	U
106-46-7	1,4-Dichlorobenzene		5.0	U
95-50-1	1,2-Dichlorobenzene		5.0	U
96-12-8	1,2-Dibromo-3-Chloropropane		50	U
120-82-1	1,2,4-Trichlorobenzene		5.0	U

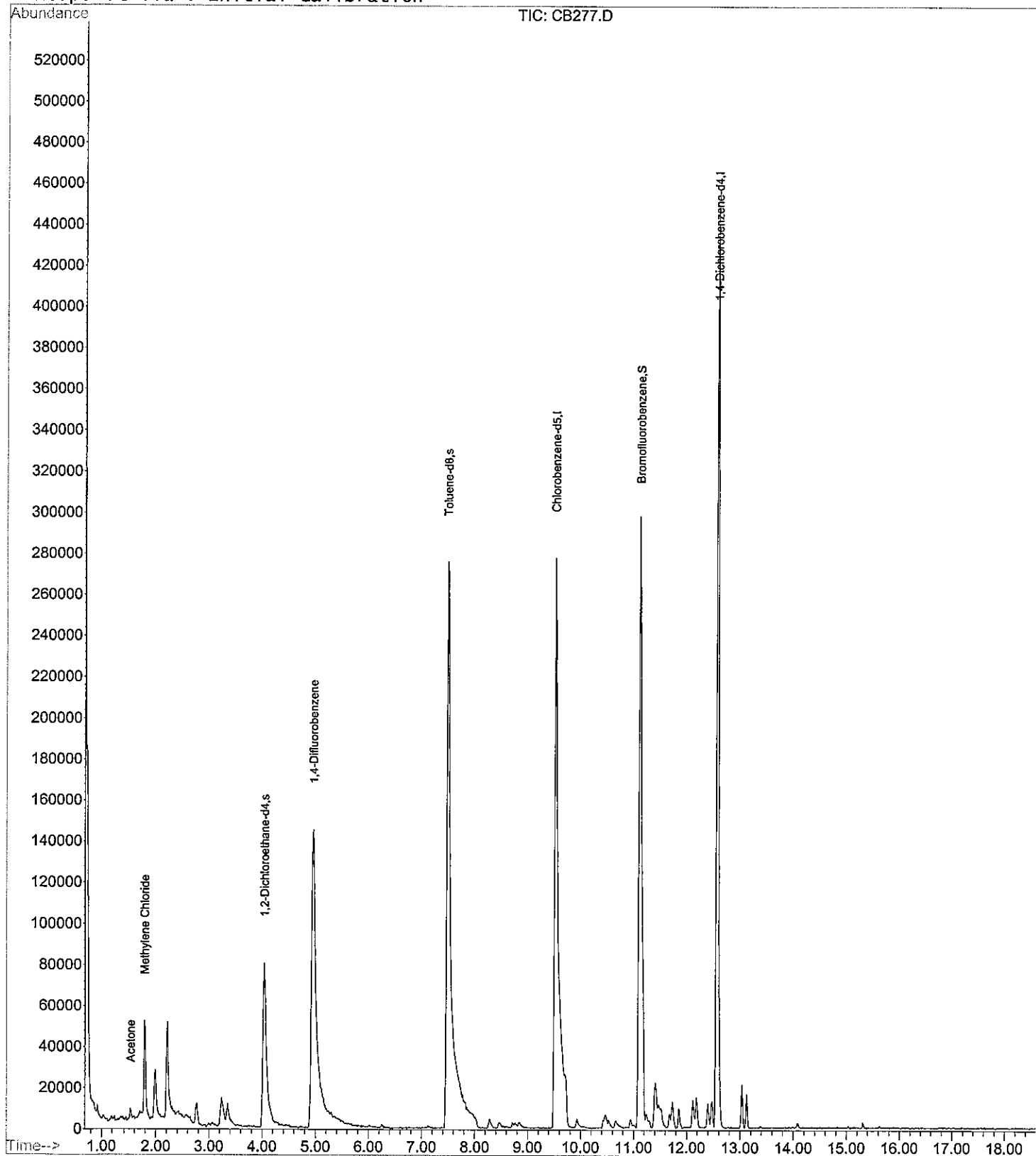
Quantitation Report

Data File : C:\HPCHEM\1\DATA\110909\CB277.D
 Acq On : 9 Sep 2011 10:50
 Sample : VBLK
 Misc : MBLK EPA_8260_WATER
 MS Integration Params: LSCINT.P
 Quant Time: Sep 9 14:09 2011

Vial: 3
 Operator:
 Inst : GCMS-C
 Multiplr: 1.00

Quant Results File: CLP.RES

Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
 Title : Voa NBL Plus Calibration
 Last Update : Fri Sep 02 11:53:44 2011
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\110909\CB277.D

Vial: 3

Acq On : 9 Sep 2011 10:50

Operator:

Sample : VBLK

Inst : GCMS-C

Misc : MBLK EPA_8260_WATER

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 9 14:09 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration

Last Update : Fri Sep 02 11:53:44 2011

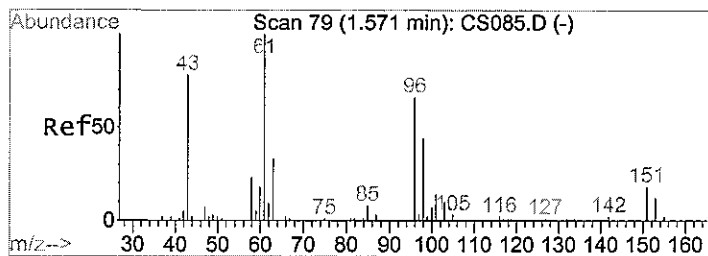
Response via : Initial Calibration

DataAcq Meth : METH0C

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.96	114	517892m	50.00	ug	0.01
37) Chlorobenzene-d5	9.51	117	480725	50.00	ug	0.00
71) 1,4-Dichlorobenzene-d4	12.57	150	303543	50.00	ug	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	4.04	65	153517	50.05	ug	0.00
58) Toluene-d8	7.48	98	624285m	44.34	ug	0.00
69) Bromofluorobenzene	11.11	176	187962m	54.36	ug	0.00
Target Compounds						
13) Acetone	1.53	43	9534	10.28	ug	Qvalue # 62
16) Methylene Chloride	1.79	49	27674	4.78	ug	92

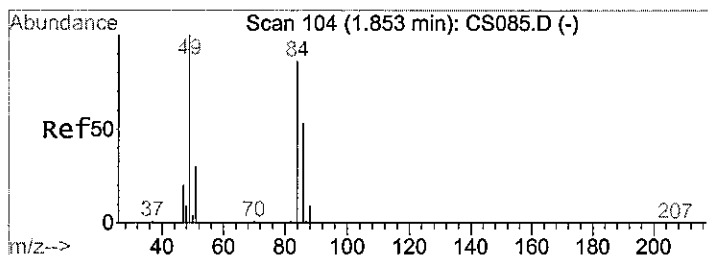
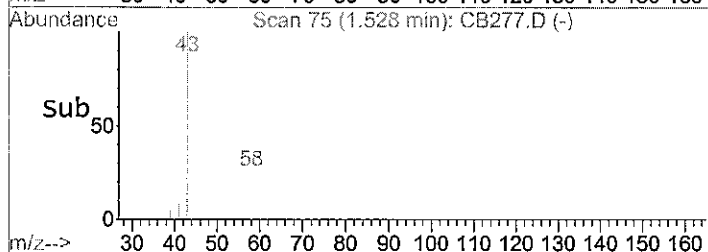
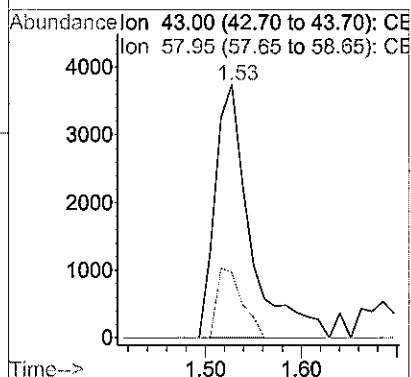
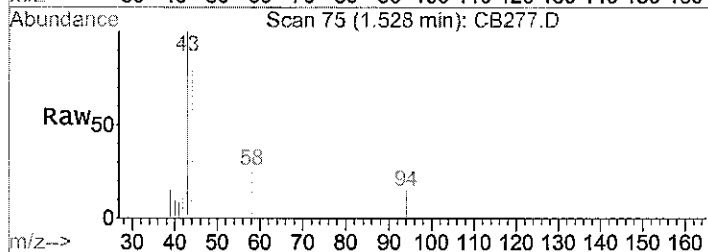
(#) = qualifier out of range (m) = manual integration

CB277.D CLP.M Tue Sep 13 14:33:04 2011



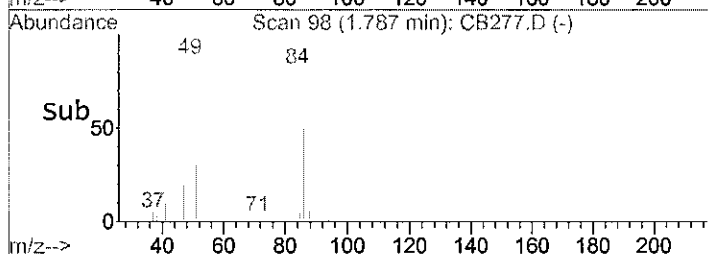
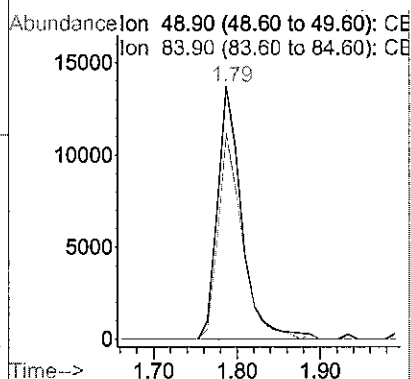
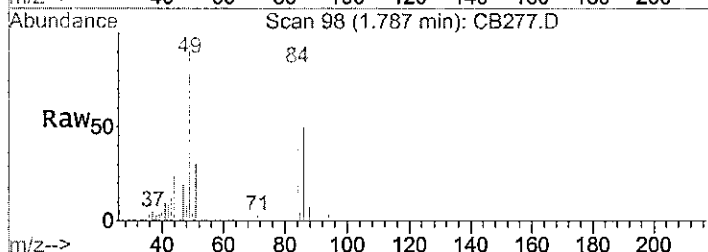
#13
 Acetone
 Concen: 10.28 ug
 RT: 1.53 min Scan# 75
 Delta R.T. 0.00 min
 Lab File: CB277.D
 Acq: 9 Sep 2011 10:50

Tgt Ion: 43 Resp: 9534
 Ion Ratio Lower Upper
 43 100
 58 19.9 5.4 8.2#



#16
 Methylene Chloride
 Concen: 4.78 ug
 RT: 1.79 min Scan# 98
 Delta R.T. 0.00 min
 Lab File: CB277.D
 Acq: 9 Sep 2011 10:50

Tgt Ion: 49 Resp: 27674
 Ion Ratio Lower Upper
 49 100
 84 80.7 70.9 106.3



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VMSB

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

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

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3993.D

Level (low/med): _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS. No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	5.0	U	
75-35-4	1,1-Dichloroethene	38		
76-13-1	1,1,2-Trichloro-1,2,2-tri	5.0	U	
75-15-0	Carbon disulfide	5.0	U	
67-64-1	Acetone	4.4	JB	
79-20-9	Methyl Acetate	5.0	U	
75-09-2	Methylene Chloride	4.8	JB	
156-60-5	trans-1,2-Dichloroethene	5.0	U	
1634-04-4	Methyl tert-butyl Ether	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
156-59-2	cis-1,2-Dichloroethene	5.0	U	
74-97-5	Bromochloromethane	5.0	U	
67-66-3	Chloroform	5.0	U	
110-82-7	Cyclohexane	5.0	U	
107-06-2	1,2-Dichloroethane	5.0	U	
78-93-3	2-Butanone	10	U	
108-87-2	Methyl Cyclohexane	5.0	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
56-23-5	Carbon Tetrachloride	5.0	U	
71-43-2	Benzene	49		
79-01-6	Trichloroethene	49		
78-87-5	1,2-Dichloropropane	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
124-48-1	Dibromochloromethane	5.0	U	
106-93-4	1,2-Dibromoethane	5.0	U	
75-25-2	Bromoform	5.0	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VMSE

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

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

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3993.D

Level (low/med): _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 9/8/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone	10	U	
108-88-3	Toluene	46		
127-18-4	Tetrachloroethene	5.0	U	
591-78-6	2-Hexanone	10	U	
108-90-7	Chlorobenzene	45		
100-41-4	Ethyl Benzene	5.0	U	
126777-61-2	m,p-Xylenes	5.0	U	
95-47-6	o-Xylene	5.0	U	
100-42-5	Styrene	5.0	U	
98-82-8	Isopropylbenzene	5.0	U	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	
541-73-1	1,3-Dichlorobenzene	5.0	U	
106-46-7	1,4-Dichlorobenzene	5.0	U	
95-50-1	1,2-Dichlorobenzene	5.0	U	
96-12-8	1,2-Dibromo-3-Chloropropane	50	U	
120-82-1	1,2,4-Trichlorobenzene	5.0	U	

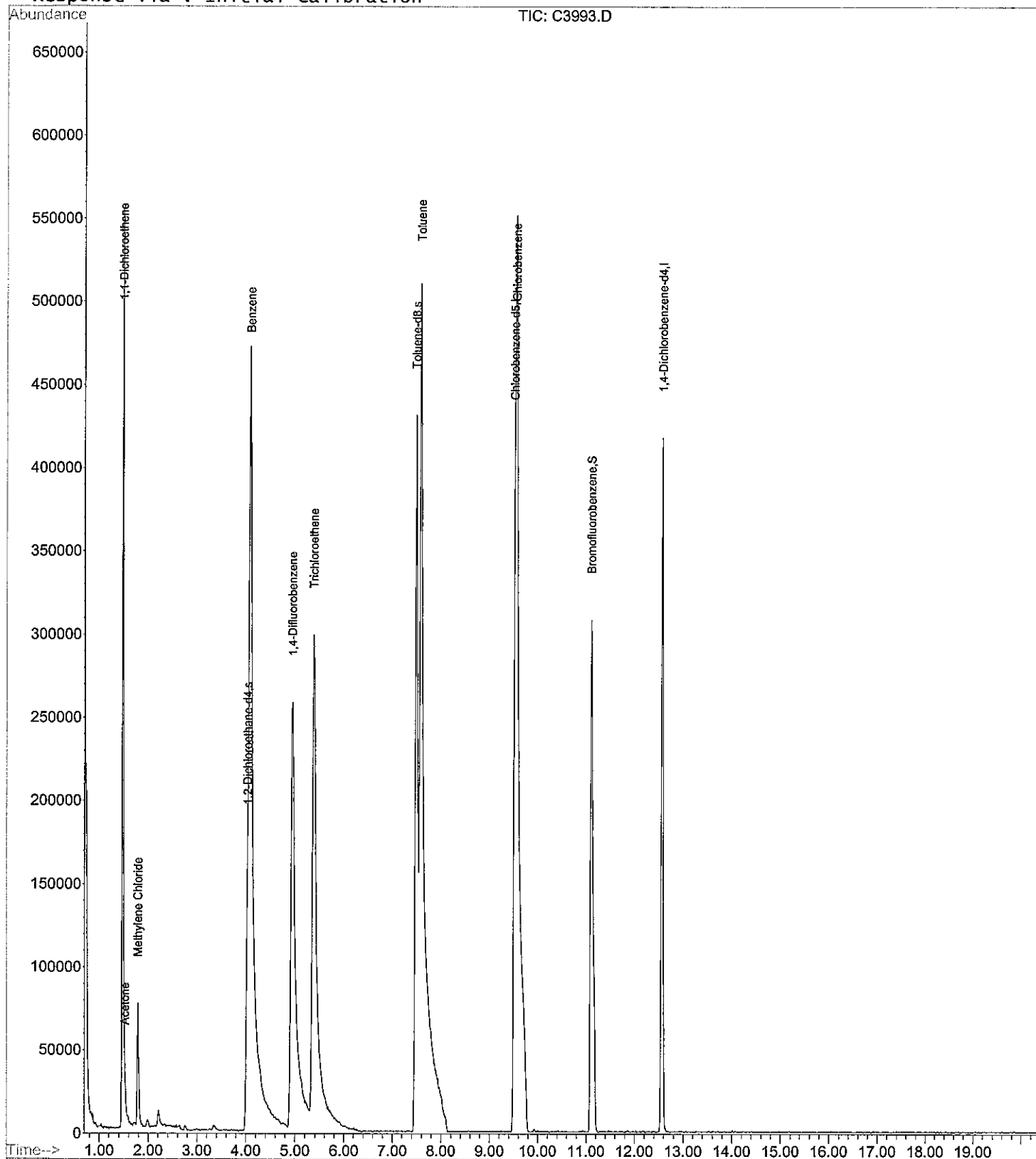
Quantitation Report

Data File : C:\HPCHEM\1\DATA\110908\C3993.D
 Acq On : 8 Sep 2011 21:39
 Sample : VMSB
 Misc : LCS EPA_8260_WATER
 MS Integration Params: LSCINT.P
 Quant Time: Sep 9 11:45 2011

Vial: 25
 Operator:
 Inst : GCMS-C
 Multiplr: 1.00

Quant Results File: CLP.RES

Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
 Title : Voa NBL Plus Calibration
 Last Update : Fri Sep 02 11:53:44 2011
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\110908\C3993.D

Vial: 25

Acq On : 8 Sep 2011 21:39

Operator:

Sample : VMSB

Inst : GCMS-C

Misc : LCS EPA_8260_WATER

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 9 11:45 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration

Last Update : Fri Sep 02 11:53:44 2011

Response via : Initial Calibration

DataAcq Meth : METH0C

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.95	114	856230	50.00	ug	0.00
37) Chlorobenzene-d5	9.51	117	671369	50.00	ug	0.00
71) 1,4-Dichlorobenzene-d4	12.57	150	304515	50.00	ug	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	4.03	65	239502	47.22	ug	0.00
58) Toluene-d8	7.48	98	930206	47.31	ug	0.00
69) Bromofluorobenzene	11.10	176	222328	46.04	ug	0.00
Target Compounds						
9) 1,1-Dichloroethene	1.47	96	227551	37.97	ug	Qvalue 100
13) Acetone	1.52	43	6769	4.42	ug	# 64
16) Methylene Chloride	1.79	49	45509	4.75	ug	92
41) Benzene	4.09	78	1155832	49.31	ug	# 60
44) Trichloroethene	5.37	130	350989	48.83	ug	# 55
59) Toluene	7.58	91	1068424	45.93	ug	97
63) Chlorobenzene	9.55	112	607152	44.61	ug	95

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-13MS

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-006CMS

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3996.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/9/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 5.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	50	U	
74-87-3	Chloromethane	50	U	
75-01-4	Vinyl chloride	50	U	
74-83-9	Bromomethane	50	U	
75-00-3	Chloroethane	50	U	
75-69-4	Trichlorofluoromethane	25	U	
75-35-4	1,1-Dichloroethene	250		
76-13-1	1,1,2-Trichloro-1,2,2-tri	25	U	
75-15-0	Carbon disulfide	25	U	
67-64-1	Acetone	130	B	
79-20-9	Methyl Acetate	25	U	
75-09-2	Methylene Chloride	28	B	
156-60-5	trans-1,2-Dichloroethene	25	U	
1634-04-4	Methyl tert-butyl Ether	25	U	
75-34-3	1,1-Dichloroethane	25	U	
156-59-2	cis-1,2-Dichloroethene	22	J	
74-97-5	Bromochloromethane	25	U	
67-66-3	Chloroform	25	U	
110-82-7	Cyclohexane	25	U	
107-06-2	1,2-Dichloroethane	25	U	
78-93-3	2-Butanone	50	U	
108-87-2	Methyl Cyclohexane	25	U	
71-55-6	1,1,1-Trichloroethane	25	U	
56-23-5	Carbon Tetrachloride	25	U	
71-43-2	Benzene	210		
79-01-6	Trichloroethene	550		
78-87-5	1,2-Dichloropropane	25	U	
75-27-4	Bromodichloromethane	25	U	
10061-01-5	cis-1,3-Dichloropropene	25	U	
10061-02-6	trans-1,3-Dichloropropene	25	U	
79-00-5	1,1,2-Trichloroethane	25	U	
124-48-1	Dibromochloromethane	25	U	
106-93-4	1,2-Dibromoethane	25	U	
75-25-2	Bromoform	25	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-13MS

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-006CMS

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3996.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/9/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 5.0

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

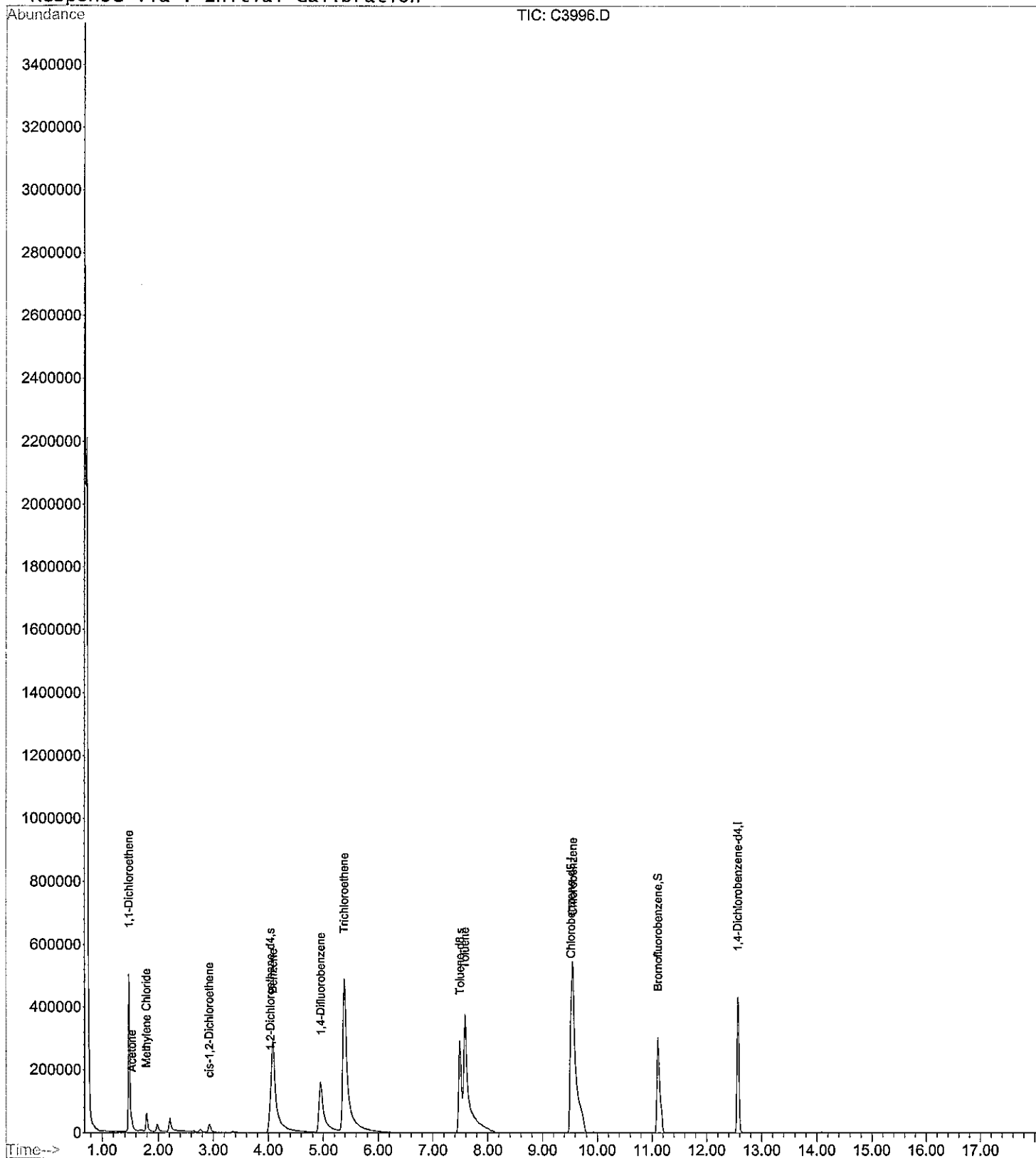
CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone	50	U	
108-88-3	Toluene	210		
127-18-4	Tetrachloroethene	25	U	
591-78-6	2-Hexanone	50	U	
108-90-7	Chlorobenzene	260		
100-41-4	Ethyl Benzene	25	U	
126777-61-2	m,p-Xylenes	25	U	
95-47-6	o-Xylene	25	U	
100-42-5	Styrene	25	U	
98-82-8	Isopropylbenzene	25	U	
79-34-5	1,1,2,2-Tetrachloroethane	25	U	
541-73-1	1,3-Dichlorobenzene	25	U	
106-46-7	1,4-Dichlorobenzene	25	U	
95-50-1	1,2-Dichlorobenzene	25	U	
96-12-8	1,2-Dibromo-3-Chloropropane	250	U	
120-82-1	1,2,4-Trichlorobenzene	25	U	

Quantitation Report

Data File : C:\HPCHEM\1\DATA\110909\C3996.D Vial: 5
 Acq On : 9 Sep 2011 11:46 Operator:
 Sample : 110830062-006CMS Inst : GCMS-C
 Misc : MS EPA_8260_WATER Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Sep 9 14:23 2011 Quant Results File: CLP.RES

Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
 Title : Voa NBL Plus Calibration
 Last Update : Fri Sep 02 11:53:44 2011
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\110909\C3996.D

Vial: 5

Acq On : 9 Sep 2011 11:46

Operator:

Sample : 110830062-006CMS

Inst : GCMS-C

Misc : MS EPA_8260_WATER

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 9 14:23 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : Voa NBL Plus Calibration

Last Update : Fri Sep 02 11:53:44 2011

Response via : Initial Calibration

DataAcq Meth : METH0C

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.95	114	523638	50.00	ug	0.01
37) Chlorobenzene-d5	9.52	117	510508m	50.00	ug	0.01
71) 1,4-Dichlorobenzene-d4	12.56	150	303133	50.00	ug	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	4.04	65	159510	51.43	ug	0.00
58) Toluene-d8	7.49	98	657134m	43.95	ug	0.00
69) Bromofluorobenzene	11.11	176	207121m	56.41	ug	0.00
Target Compounds						Qvalue
9) 1,1-Dichloroethene	1.47	96	185724m	50.68	ug	
13) Acetone	1.52	43	23953m	25.55	ug	
16) Methylene chloride	1.78	49	32791	5.60	ug	96
24) cis-1,2-Dichloroethene	2.92	61	27358	4.49	ug	92
41) Benzene	4.08	78	752511m	42.22	ug	
44) Trichloroethene	5.38	130	597210m	109.27	ug	
59) Toluene	7.58	91	747238	42.24	ug	97
63) Chlorobenzene	9.55	112	528349m	51.05	ug	

(#) = qualifier out of range (m) = manual integration

C3996.D CLP.M Tue Sep 13 14:33:37 2011

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-13MSD

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-006CMSD

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: C3997.D

Level (low/med): _____ Date Received: 9/1/11

% Moisture: not dec. 100 Date Analyzed: 9/9/11

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 5.0

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

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	50	U	
74-87-3	Chloromethane	50	U	
75-01-4	Vinyl chloride	50	U	
74-83-9	Bromomethane	50	U	
75-00-3	Chloroethane	50	U	
75-69-4	Trichlorofluoromethane	25	U	
75-35-4	1,1-Dichloroethene	220		
76-13-1	1,1,2-Trichloro-1,2,2-tri	25	U	
75-15-0	Carbon disulfide	25	U	
67-64-1	Acetone	85	B	
79-20-9	Methyl Acetate	25	U	
75-09-2	Methylene Chloride	22	JB	
156-60-5	trans-1,2-Dichloroethene	25	U	
1634-04-4	Methyl tert-butyl Ether	25	U	
75-34-3	1,1-Dichloroethane	25	U	
156-59-2	cis-1,2-Dichloroethene	23	J	
74-97-5	Bromochloromethane	25	U	
67-66-3	Chloroform	25	U	
110-82-7	Cyclohexane	25	U	
107-06-2	1,2-Dichloroethane	25	U	
78-93-3	2-Butanone	50	U	
108-87-2	Methyl Cyclohexane	25	U	
71-55-6	1,1,1-Trichloroethane	25	U	
56-23-5	Carbon Tetrachloride	25	U	
71-43-2	Benzene	240		
79-01-6	Trichloroethene	600		
78-87-5	1,2-Dichloropropane	25	U	
75-27-4	Bromodichloromethane	25	U	
10061-01-5	cis-1,3-Dichloropropene	25	U	
10061-02-6	trans-1,3-Dichloropropene	25	U	
79-00-5	1,1,2-Trichloroethane	25	U	
124-48-1	Dibromochloromethane	25	U	
106-93-4	1,2-Dibromoethane	25	U	
75-25-2	Bromoform	25	U	

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-13MSD

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: AEC1102 SAS No.: _____ SDG No.: MW-1RMatrix (soil/water): WATERLab Sample ID: 110830062-006CMSDSample wt/vol: 5.0 (g/mL) mlLab File ID: C3997.D

Level (low/med): _____

Date Received: 9/1/11% Moisture: not dec. 100Date Analyzed: 9/9/11GC Column: DB624 ID: 0.18 (mm)Dilution Factor: 5.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

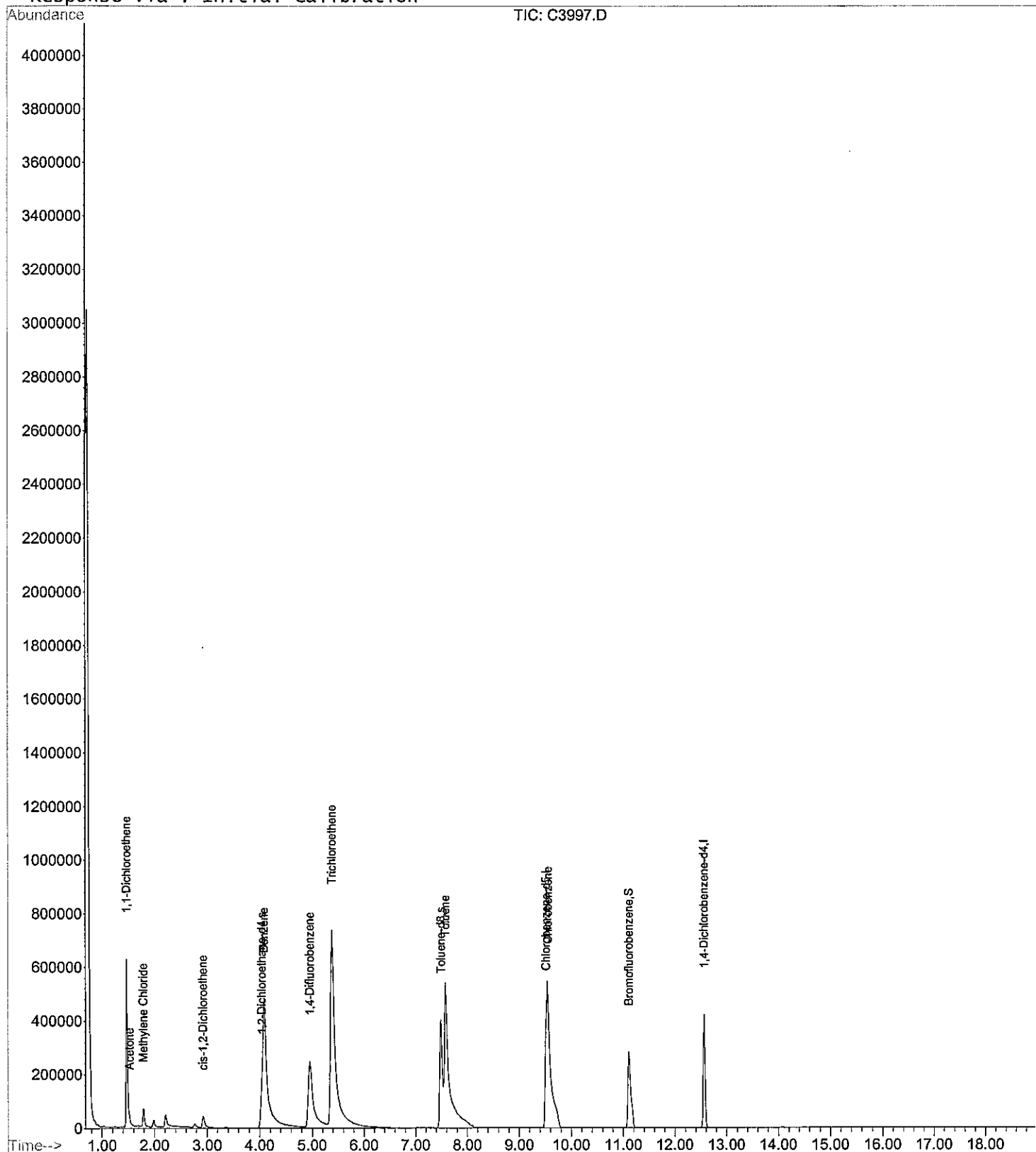
CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-10-1	4-Methyl-2-Pentanone		50	U
108-88-3	Toluene		250	
127-18-4	Tetrachloroethene		25	U
591-78-6	2-Hexanone		50	U
108-90-7	Chlorobenzene		240	
100-41-4	Ethyl Benzene		25	U
126777-61-2	m,p-Xylenes		25	U
95-47-6	o-Xylene		25	U
100-42-5	Styrene		25	U
98-82-8	Isopropylbenzene		25	U
79-34-5	1,1,2,2-Tetrachloroethane		25	U
541-73-1	1,3-Dichlorobenzene		25	U
106-46-7	1,4-Dichlorobenzene		25	U
95-50-1	1,2-Dichlorobenzene		25	U
96-12-8	1,2-Dibromo-3-Chloropropane		250	U
120-82-1	1,2,4-Trichlorobenzene		25	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\110909\C3997.D Vial: 6
 Acq On : 9 Sep 2011 12:13 Operator:
 Sample : 110830062-006CMSD Inst : GCMS-C
 Misc : MSD EPA_8260_WATER Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Sep 9 14:22 2011 Quant Results File: CLP.RES

Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)
 Title : Voa NBL Plus Calibration
 Last Update : Fri Sep 02 11:53:44 2011
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\110909\C3997.D

Vial: 6

Acq On : 9 Sep 2011 12:13

Operator:

Sample : 110830062-006CMSD

Inst : GCMS-C

Misc : MSD EPA_8260_WATER

Multiplier: 1.00

MS Integration Params: LSCINT.P

Quant Time: Sep 9 14:22 2011

Quant Results File: CLP.RES

Quant Method : C:\HPCHEM\1\METHODS\CLP.M (RTE Integrator)

Title : voa NBL Plus Calibration

Last Update : Fri Sep 02 11:53:44 2011

Response via : Initial Calibration

DataAcq Meth : METHOC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	4.96	114	829086	50.00	ug	0.01
37) Chlorobenzene-d5	9.52	117	627934	50.00	ug	0.01
71) 1,4-Dichlorobenzene-d4	12.57	150	290303	50.00	ug	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	4.04	65	231536	47.15	ug	0.00
58) Toluene-d8	7.49	98	825573	44.89	ug	0.00
69) Bromofluorobenzene	11.11	176	207270	45.89	ug	0.00
Target Compounds						Qvalue
9) 1,1-Dichloroethene	1.47	96	260818	44.95	ug	99
13) Acetone	1.53	43	25169	16.95	ug	# 55
16) Methylene chloride	1.79	49	40238	4.34	ug	94
24) cis-1,2-Dichloroethene	2.93	61	44532	4.62	ug	93
41) Benzene	4.09	78	1056071m	48.17	ug	
44) Trichloroethene	5.38	130	802621m	119.40	ug	
59) Toluene	7.58	91	1080827	49.67	ug	97
63) Chlorobenzene	9.56	112	599303	47.08	ug	96

 (#) = qualifier out of range (m) = manual integration

C3997.D CLP.M Tue Sep 13 14:33:47 2011

CLP

SAMPLE CALCULATIONS FOR VOLATILE ORGANICS:

1) RRF of Trichloroethene from the VSTD050 analyzed on 9/8/11:

$$\begin{aligned} &= \frac{\text{area of Trichloroethene in std.}}{\text{area of internal std}} \times \frac{\text{concentration of internal standard.}}{\text{concentration of standard}} \\ &= \frac{187699}{390558} \times \frac{50}{50} = 0.481 \end{aligned}$$

Average response factor for Trichloroethene in the initial calibration = 0.535

2) Amount of Trichloroethene in sample MW-13 (AES sample number 110830062-006):

$$\begin{aligned} \text{ug/L} &= \frac{\text{area of Trichloroethene in sample}}{\text{area of internal standard in sample}} \times \frac{\text{amount of internal std. (ng)}}{(\text{ml of sample purged})(\text{RRF})} \\ &= \frac{587769}{629152} \times \frac{(250)}{(1.0)(0.535)} = 436.6 \text{ ug/L} \end{aligned}$$

which is reported as 440 ug/L on the Form I for Volatile Organics

3) Calculation of spike recovery for Trichloroethene in sample MW-13 Matrix Spike:

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

$$\% \text{ recovery of Trichloroethene} = \frac{(546.4 - 436.6)}{250.0} \times 100 = 43.9 \%$$

Analyst	Date	Time	File ID	Sample ID	DF	pH	QA/QC Checks		Comments
							Surrogate Check	Internal Std Check	
ML	9/8/11	10:44 AM	CT276	BFB-purged			OK	OK	SAVED
			3 CS276	VSTD050					
BFB=VMAH0-2210		QX4	CB276	VBK			OK	OK	
DIS=	-24B	QX5	C3972	0830002-LSM	1		OK	OK	TCE=92
G=	-26A	PE6	73	-2C 1/5	1		OK	OK	TCE=20
SD=	-26C	↓7	74	-3C 1/200	1		OK	OK	TCE=233
MS=	-23D	QX8	75	-4C 1/10	1		OK	OK	TCE=94
491015		QX9	76	-5A 5ml	1		OK	OK	
390558		QX10	77	-6C 1/5	1		OK	OK	TCE=87 #1
246962		QX12	78	-7C 5ml	1		OK	OK	
		QX14	79	-8C	1		OK	OK	
		QX15	80	-9C	1		OK	OK	ACE=34
		QX16	81	-10C	1		OK	OK	
		QX2	82	-11C ✓	1		OK	OK	
		PE3	83	-12C 1/20	1		OK	OK	TCE=13
		QX4	84	-13C 5ml	1		OK	OK	
		QX5	85	-14C	1		OK	OK	
		QX6	86	-16A ↓	1		OK	OK	
		QX7	87	-2C ↓			OK	OK	TCE=162
		QX9	88	-3C 1/500			OK	OK	TCE=94
		-10	89	-6C 1/2			OK	OK	TCE=250 #1
		QX11	90	-15C 5ml	1		OK	OK	
		PE12	91	-6C 1/5 1/2			OK	OK	TCE=72 #1
		↓13	92	-6C MSD			OK	OK	=76 ↓
9:39pm		QX15	93	VMSB			OK	OK	
		PE16	94	08300241A 1/20	1		OK	OK	TCE=8

Analyst	Date	Time	File ID	Sample ID	DF	pH	QA/QC Checks		Comments
							Surrogate Check	Internal Std Check	
ML	9/9/11		2 CT277	BFB-purged-OK saved					
			√3 CS277	VST0050					
BFB=VPA10-220		QX4	CB277	VBCK			OK	OK	
IS=	24B	QX5	C3995	0830062-12C1/2			OK	OK	TCE=141
G=	26A	QX6	96	-6C18 1/5			OK	OK	#1
SD=	26C.D	QX7	97	-6C180 ↓			OK	OK	↓
MS=	230	QX8	98	0901047-1A 5ml	1		OK	OK	
666448		QX9	99	0904029-1A 1/5	12		OK	OK	1,4DCB=8
566780		QX11	C4000	-3A 0.5g			OK	OK	
305218		QX12	C4001	0901047-4A 5ml	1		OK	OK	EB=600
		QX13	2	-5A 1/10	1		OK	OK	avg1=252
		QX15	3	-6A 5ml	1		OK	OK	
		QX16	4	-7A 1/2	1		OK	OK	mp=482
		QX2	5	-2A 5ml	1			low	
		QX3	6	-3A ↓	1		OK	OK	
		QX4	7	-5A 1/20			OK	OK	avg1=144
		QX5	8	-8A 5ml	1		OK	OK	
		QX6	9	-9A	1		OK	OK	
		QX7	10	-10A	1		OK	OK	
		QX9	11	-11A ✓	1		OK	OK	
		QX10	12	-10A MS			OK	OK	
		QX11	13	-10A MSD ↓			OK	OK	
		QX12	14	VMSB			OK	OK	
		QX14	15	0901047-7A 1/5			OK	OK	mp=201
		QX15	16	-2A 5ml	1		OK	OK	
		QX16	17	0830029-1A 5ml			OK	OK	cis=194
		QX18	18	0906001-3B 1/10	1		OK	OK	TD=2

REVIEW

DATE : 00262

INORGANIC - METALS

ANALYSIS

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Adirondack Environmental Contract: Ward ProductsLab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1RSOW No.: N/A

EPA Sample No.	Lab Sample ID.
MW-1R	110830062-001B
MW-4	110830062-002B
MW-4R	110830062-003B
MW-10	110830062-004B
MW-13	110830062-006B
MW-19	110830062-007B
MW-14	110830062-008B
MW-16	110830062-009B
MW-15	110830062-010B
MW-20	110830062-011B
MW-17	110830062-012B
MW-18	110830062-013B
MW-11	110830062-014B
MW-Dup	110830062-015B

Were ICP interelement corrections applied? Yes/No YESWere ICP background corrections applied? Yes/No YESIf yes-were raw data generated before
application of background corrections? Yes/No NOComments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name: Sheryl MartucciDate: 10/12/11Title: Inorganics Manager

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-1R

Lab Name: Adirondack Environmental Contract: Ward Products

Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-001B

Level (low/med): LOW Date Received: 8/30/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	127			P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-4

Lab Name: Adirondack Environmental Contract: Ward Products
 Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R
 Matrix (soil/water): WATER Lab Sample ID: 110830062-002B
 Level (low/med): LOW Date Received: 8/30/2011
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-4R

Lab Name: Adirondack Environmental Contract: Ward Products

Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-003B

Level (low/med): LOW Date Received: 8/30/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-10

Lab Name: Adirondack Environmental Contract: Ward Products

Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-004B

Level (low/med): LOW Date Received: 8/30/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-11

Lab Name: Adirondack Environmental Contract: Ward Products

Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-014B

Level (low/med): LOW Date Received: 8/30/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-13

Lab Name: Adirondack Environmental Contract: Ward Products
 Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R
 Matrix (soil/water): WATER Lab Sample ID: 110830062-006B
 Level (low/med): LOW Date Received: 8/30/2011
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-14

Lab Name: Adirondack Environmental Contract: Ward Products

Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-008B

Level (low/med): LOW Date Received: 8/30/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-15

Lab Name: Adirondack Environmental Contract: Ward Products

Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-010B

Level (low/med): LOW Date Received: 8/30/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-16

Lab Name: Adirondack Environmental Contract: Ward Products

Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-009B

Level (low/med): LOW Date Received: 8/30/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-17

Lab Name: Adirondack Environmental Contract: Ward Products

Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-012B

Level (low/med): LOW Date Received: 8/30/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-18

Lab Name: Adirondack Environmental Contract: Ward Products
 Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R
 Matrix (soil/water): WATER Lab Sample ID: 110830062-013B
 Level (low/med): LOW Date Received: 8/30/2011
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-19

Lab Name: Adirondack Environmental Contract: Ward Products

Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-007B

Level (low/med): LOW Date Received: 8/30/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-20

Lab Name: Adirondack Environmental Contract: Ward Products

Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Lab Sample ID: 110830062-011B

Level (low/med): LOW Date Received: 8/30/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-Dup

Lab Name: Adirondack Environmental Contract: Ward Products
 Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R
 Matrix (soil/water): WATER Lab Sample ID: 110830062-015B
 Level (low/med): LOW Date Received: 8/30/2011
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Adirondack Environmental Contract: Ward ProductsLab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1RInitial Calibration Source: EPA-ICVContinuing Calibration Source: EPA-LV

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Chromium	2000.0	2039.78	102.0	2000.0	2063.13	103.2	2083.26	104.2	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Adirondack Environmental Contract: Ward Products
 Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R
 Initial Calibration Source: EPA-ICV
 Continuing Calibration Source: EPA-LV

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Chromium				2000.0	2066.25	103.3	2059.30	103.0	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Adirondack Environmental Contract: Ward Products
 Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R
 Initial Calibration Source: EPA-ICV
 Continuing Calibration Source: EPA-LV

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Chromium				2000.0	2062.34	103.1	1991.62	99.6	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

BLANKS

Lab Name: Adirondack Environmental Contract: Ward Products

Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank			
	C		1	C	2	C	3	C		C	M	
Chromium	4.7	U	4.7	U	4.7	U	4.7	U		4.670	U	P

BLANKS

Lab Name: Adirondack Environmental Contract: Ward Products

Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
		1	C	2	C	3	C			
Chromium		4.7	U	4.7	U	4.7	U			P

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Adirondack Environmental Contract: Ward ProductsLab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1RICP ID Number: ICP4 ICS Source: EPAConcentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	500000	500000	478743	472405.1	94.5	488638	471339.2	94.3
Calcium	500000	500000	407108	400748.4	80.1	440532	424486.0	84.9
Chromium		500		491.9	98.4		595.6	119.1
Iron	200000	200000	136397	134458.6	67.2	142971	139258.7	69.6
Magnesium	500000	500000	505821	498521.5	99.7	512405	495784.0	99.2

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

MW-13MS

Lab Name: Adirondack Environmental Contract: Ward ProductsLab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1RMatrix (soil/water): WATER Level (low/med): LOW% Solids for Sample: 0.0Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Chromium	75 - 125	222.8176		4.6700	U	200.00	111.4		P

Comments:

5B

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

MW-13A

Lab Name: Adirondack EnvironmentalContract: Ward ProductsLab Code: AESCase No.: AEC 1102

SAS No.: _____

SDG No.: MW-1RMatrix (soil/water): WATERLevel (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Chromium		415.42		4.67	U	400.0	103.9		P

Comments: _____

DUPLICATES

SAMPLE NO.

MW-13DP

Lab Name: Adirondack Environmental Contract: Ward Products

Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Chromium		4.6700	U	4.6700	U			P

LABORATORY CONTROL SAMPLE

Lab Name: Adirondack Environmental Contract: Ward ProductsLab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R

Solid LCS Source: _____

Aqueous LCS Source: EPA-ICV

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Chromium	2000.0	2035.6780	101.8					

9
ICP SERIAL DILUTIONS

SAMPLE NO.

MW-13L

Lab Name: Adirondack Environmental

Contract: Ward Produc

Lab Code: AES Case No.: AEC 1102

SAS No.: _____ SDG No.: MW-1R

Matrix (soil/water): WATER

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- ence	Q	M
Chromium	4.67 U	23.35 U			P

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Adirondack Environmental Contract: Ward ProductsLab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1RICP ID Number: ICP4 Date: 10/19/2009

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Chromium	357.87		10	4.7	P

Comments: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Adirondack Environmental Contract: Ward Products

Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R

ICP ID Number: ICP4 Date: 7/13/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for:			
		Al	Ca	Fe	Mg
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.80	0.0000000	0.0000000	0.0001461	0.0000000
Arsenic	193.76	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.68	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	357.87	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0005837	0.0000000	0.0000000	0.0000000
Magnesium	383.83	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.00	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	588.99	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.90	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	309.311	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.86	0.0000000	0.0000000	0.0002508	0.0000000

Comments: _____

ICP LINEAR RANGES (QUARTERLY)

Lab Name: Adirondack Environmental Contract: Ward ProductsLab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1RICP ID Number: ICP4 Date: 7/20/2010

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Chromium	60.00	10000.0	P

Comments: _____

PREPARATION LOG

Lab Name: Adirondack Environmental Contract: Ward ProductsLab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1RMethod: P

EPA Sample No.	Preparation Date	Initial Volume mL	Volume (mL)
LCS, IW	9/8/2011	100.0	100.0
MB, IW	9/8/2011	100.0	100.0
MW-10	9/8/2011	100.0	100.0
MW-11	9/8/2011	100.0	100.0
MW-13	9/8/2011	100.0	100.0
MW-13DP	9/8/2011	100.0	100.0
MW-13MS	9/8/2011	100.0	100.0
MW-14	9/8/2011	100.0	100.0
MW-15	9/8/2011	100.0	100.0
MW-16	9/8/2011	100.0	100.0
MW-17	9/8/2011	100.0	100.0
MW-18	9/8/2011	100.0	100.0
MW-19	9/8/2011	100.0	100.0
MW-1R	9/8/2011	100.0	100.0
MW-20	9/8/2011	100.0	100.0
MW-4	9/8/2011	100.0	100.0
MW-4R	9/8/2011	100.0	100.0
MW-Dup	9/8/2011	100.0	100.0

ANALYSIS RUN LOG

Lab Name: Adirondack EnvironmentalContract: Ward ProductsLab Code: AESCase No.: AEC 1102

SAS No.: _____

SDG No.: MW-1RInstrument ID Number: ICP4Method: PStart Date: 10/11/2011End Date: 10/11/2011

EPA Sample No.	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S G	A A	N L	T V	Z N
ICV-1	1.00	1008									X														
ICB-1	1.00	1030									X														
CRI-1	1.00	1059									X														
ICSA-1	1.00	1110		X						X				X		X									
ICSAB-1	1.00	1115		X						X	X			X		X									
CCV-1	1.00	1125									X														
CCB-1	1.00	1134									X														
MB, IW	1.00	1139									X														
LCS, IW	1.00	1143									X														
MW-1R	1.00	1148									X														
MW-4	1.00	1153									X														
MW-4R	1.00	1156									X														
MW-10	1.00	1200									X														
MW-13	1.00	1205									X														
MW-13DP	1.00	1209									X														
MW-13MS	1.00	1213									X														
MW-13A	1.00	1218									X														
CCV-2	1.00	1233									X														
CCB-2	1.00	1234									X														
MW-13L	5.00	1238									X														
MW-19	1.00	1243									X														
MW-14	1.00	1249									X														
MW-16	1.00	1255									X														
MW-15	1.00	1259									X														
MW-20	1.00	1303									X														
MW-17	1.00	1309									X														
MW-18	1.00	1314									X														
MW-11	1.00	1320									X														
MW-Dup	1.00	1324									X														
CCV-3	1.00	1331									X														
CCB-3	1.00	1335									X														
CCV-4	1.00	1501									X														
CCB-4	1.00	1512									X														
CCV-5	1.00	1606									X														
CCB-5	1.00	1612									X														
CRI-2	1.00	1621									X														
ICSA-2	1.00	1625		X						X				X		X									
ICSAB-2	1.00	1629		X						X	X			X		X									

ANALYSIS RUN LOG

Lab Name: Adirondack Environmental Contract: Ward Products
 Lab Code: AES Case No.: AEC 1102 SAS No.: _____ SDG No.: MW-1R
 Instrument ID Number: ICP4 Method: P
 Start Date: 10/11/2011 End Date: 10/11/2011

EPA Sample No.	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V
CCV-6	1.00	1639									X														
CCB-6	1.00	1654									X														

RAW QC

DATA

Method: SPEX Sample Name: 200.7-4 Operator:
Comment:
Run Time: 10/11/11 09:11 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Mo2020	Sb2068	Ti3361
Line	202.030 {166}	206.833 {162}	336.121 {100}
Units	Cts/S	Cts/S	Cts/S
Avg	281.7	58.25	200.2
Stddev	.3	.09	.5
%RSD	.0995	.1528	.2266
#1	281.9	58.31	199.9
#2	281.5	58.19	200.5

Method: SPEX Sample Name: 200.7-3 Operator:

Comment:

Run Time: 10/11/11 09:16 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	B 2496	Cd2288	Pb2203	Tl1908
Line	249.678 {135}	228.802 {147}	220.353 {152}	190.864 {176}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	16.56	53.09	7.089	2.569
Stddev	.10	.02	.009	.001
%RSD	.6115	.0409	.1270	.0487
#1	16.63	53.07	7.095	2.570
#2	16.49	53.10	7.082	2.568

Method: SPEX

Sample Name: 200.7-2

Operator:

Comment:

Run Time: 10/11/11 09:21 Type: Std

Mode: IR

Corr.Fact: 1.000000

Elem	Ba4934	Be3130	Co2286	Cu3247	Fe2599	Mn2576
Line	493.409 { 68}	313.042 {107}	228.616 {147}	324.754 {103}	259.940 {129}	257.610 {131}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	557.6	217.2	148.0	8.518	1457.	484.7
Stddev	2.1	.7	.4	.106	4.	1.3
%RSD	.3844	.3006	.2751	1.251	.2614	.2699
#1	559.2	217.6	148.3	8.593	1460.	485.6
#2	556.1	216.7	147.8	8.443	1454.	483.8

Elem	Sr3464
Line	346.446 { 97}
Units	Cts/S
Avg	51.14
Stddev	.14
%RSD	.2755
#1	51.24
#2	51.04

Method: SPEX Sample Name: 200.7-1 Operator:
Comment:
Run Time: 10/11/11 09:28 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al3944	Al3961	Ca3179	K 7664	Mg3838	Na5889
Line	394.401 { 85}	396.152 { 85}	317.933 {105}	766.490 { 44}	383.826 { 87}	588.995 { 57}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	31.95	47.44	36.19	316.6	20.72	1938.
Stddev	.20	.04	.13	.5	.15	1.
%RSD	.6234	.0859	.3477	.1680	.7284	.0478
#1	32.09	47.47	36.28	316.9	20.82	1938.
#2	31.81	47.41	36.10	316.2	20.61	1937.

Elem	Na5895	Ni2316	Zn2138
Line	589.592 { 57}	231.604 {145}	213.856 {157}
Units	Cts/S	Cts/S	Cts/S
Avg	989.8	245.9	749.7
Stddev	4.1	.0	.8
%RSD	.4187	.0174	.1051
#1	992.7	245.9	749.1
#2	986.8	245.9	750.3

Method: SPEX

Sample Name: 200.7

Operator:

Comment:

Run Time: 10/11/11 09:33 Type: Std

Mode: IR

Corr.Fact: 1.000000

Elem	As1937	Cr3578	Li6103	Se1960	Sn1899	V_3093
Line	193.759 {173}	357.869 { 94}	610.362 { 55}	196.090 {171}	189.989 {176}	309.311 {108}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9.454	8.140	73.86	8.933	17.46	15.91
Stddev	.046	.143	.91	.068	.06	.20
%RSD	.4843	1.761	1.234	.7568	.3695	1.236
#1	9.421	8.039	73.22	8.885	17.42	15.77
#2	9.486	8.242	74.51	8.981	17.51	16.05

Method: SPEX Sample Name: 1 PPM AG Operator:
Comment:
Run Time: 10/11/11 09:39 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Ag3280
Line	328.068 {102}
Units	Cts/S
Avg	6.801
Stddev	.044
%RSD	.6520
#1	6.833
#2	6.770

Method: SPEX Sample Name: Blank

Operator:

Comment:

Run Time: 10/11/11 09:43 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0083	.0000	.0069	.0043	-.0555	5.722
Stddev	.0234	.0234	.0020	.0070	.0113	.034
%RSD	282.9	1311000.	28.30	161.6	20.42	.5991

#1	.0249	-.0166	.0055	.0093	-.0475	5.747
#2	-.0083	.0166	.0083	-.0006	-.0635	5.698

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/s	Cts/s
Avg	.2859	.0718	.0123	.0097	.0348	-.0426
Stddev	.0957	.0156	.0148	.0020	.0039	.0218
%RSD	33.46	21.77	120.2	20.19	11.27	51.24

#1	.3535	.0608	.0228	.0110	.0376	-.0271
#2	.2182	.0829	.0019	.0083	.0321	-.0580

Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	Cts/S	Cts/S	Cts/S	Cts/s	Cts/s	Cts/s
Avg	-.0041	-.0138	.6541	.0284	1.416	-6.541
Stddev	.0059	.0078	.0205	.0131	.013	.036
%RSD	141.4	56.58	3.129	46.12	.9520	.5519

#1	.0000	-.0083	.6396	.0376	1.426	-6.516
#2	-.0083	-.0193	.6686	.0191	1.406	-6.567

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/s	Cts/s
Avg	-.0318	.0752	.0493	.3564	7.391	-.0102
Stddev	.0020	.0000	.0087	.1641	.001	.0170
%RSD	6.163	.0045	17.68	46.06	.0121	167.1

#1	-.0304	.0752	.0555	.2403	7.391	.0019
#2	-.0332	.0752	.0432	.4724	7.390	-.0222

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.1058	-.0311	-.0097	.0089	.0327	.0173
Stddev	.0039	.0057	.0176	.0031	.0017	.0166
%RSD	3.706	18.21	181.8	34.14	5.341	95.96

#1	-.1030	-.0352	.0028	.0111	.0339	.0056
#2	-.1085	-.0271	-.0221	.0068	.0315	.0290

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0160	.0525	-.0046	-.0138	-.0136	-.0207
Stddev	.0009	.0117	.0031	.0000	.0079	.0215
%RSD	5.434	22.34	66.00	.0150	57.86	103.7

#1	.0154	.0442	-.0068	-.0138	-.0191	-.0359
#2	.0167	.0608	-.0025	-.0138	-.0080	-.0055

Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0302	-.8508	.0207	.1101	-.0566
Stddev	.0017	.0038	.0048	.0022	.0137
%RSD	5.777	.4448	23.22	1.985	24.16

#1	-.0315	-.8535	.0173	.1116	-.0470
#2	-.0290	-.8481	.0241	.1085	-.0663

El Name	Slope	Y-int	Correlation	Date Stdized
Ag3280	0.0068	0.0083	1.0000000	10/11/11 09:46:57
Al3944	0.0032	0.0000	1.0000000	10/11/11 09:46:57
Al3961	0.0047	0.0069	1.0000000	10/11/11 09:46:57
As1937	0.0047	0.0043	1.0000000	10/11/11 09:46:57
Au2427	0.0286	-0.0555	1.0000000	10/11/11 09:46:57
B_2496	0.0542	5.7224	1.0000000	10/11/11 09:46:57
Ba4934	0.5574	0.2859	1.0000000	10/11/11 09:46:57
Be3130	0.2171	0.0718	1.0000000	10/11/11 09:46:57
Bi1902	0.0029	0.0123	1.0000000	10/11/11 09:46:57
Ca3179	0.0036	0.0097	1.0000000	10/11/11 09:46:57
Cd2288	0.1061	0.0348	1.0000000	10/11/11 09:46:57
Co2286	0.0740	-0.0426	1.0000000	10/11/11 09:46:57
Cr3578	0.0041	-0.0041	1.0000000	10/11/11 09:46:57
Cu3247	0.0085	-0.0138	1.0000000	10/11/11 09:46:57
Fe2599	0.1456	0.6541	1.0000000	10/11/11 09:46:57
In2306	0.0073	0.0284	1.0000000	10/11/11 09:46:57
K_7664	0.0315	1.4160	1.0000000	10/11/11 09:46:57
Li6103	0.0402	-6.5412	1.0000000	10/11/11 09:46:57
Mg3838	0.0021	-0.0318	1.0000000	10/11/11 09:46:57
Mn2576	0.4846	0.0752	1.0000000	10/11/11 09:46:57
Mo2020	0.0282	0.0493	1.0000000	10/11/11 09:46:57
Na5889	0.1937	0.3564	1.0000000	10/11/11 09:46:57
Na5895	0.0982	7.3906	1.0000000	10/11/11 09:46:57
Ni2316	0.0492	-0.0102	1.0000000	10/11/11 09:46:57
Os2255	0.0227	-0.1058	1.0000000	10/11/11 09:46:57
Pb2203	0.0071	-0.0311	1.0000000	10/11/11 09:46:57
Pd3242	0.0018	-0.0097	1.0000000	10/11/11 09:46:57
Pt2036	0.0043	0.0089	1.0000000	10/11/11 09:46:57
Pt2144	0.0207	0.0327	1.0000000	10/11/11 09:46:57
Sb2068	0.0058	0.0173	1.0000000	10/11/11 09:46:57
Se1960	0.0045	0.0160	1.0000000	10/11/11 09:46:57
Si2881	0.0007	0.0525	1.0000000	10/11/11 09:46:57
Sn1899	0.0087	-0.0046	1.0000000	10/11/11 09:46:57
Sr3464	0.0051	-0.0138	1.0000000	10/11/11 09:46:57
Te2142	0.0062	-0.0136	1.0000000	10/11/11 09:46:57
Ti3361	0.0200	-0.0207	1.0000000	10/11/11 09:46:57
Tl1908	0.0026	-0.0302	1.0000000	10/11/11 09:46:57
V_3093	0.0084	-0.8508	1.0000000	10/11/11 09:46:57
W_2397	0.0163	0.0207	1.0000000	10/11/11 09:46:57
Zn2138	0.1499	0.1101	1.0000000	10/11/11 09:46:57
Zr3391	0.0001	-0.0566	1.0000000	10/11/11 09:46:57

Method: SPEX

Sample Name: ICV-1

Operator:

Comment:

Run Time: 10/11/11 10:08 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B_2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	429.2	1984.	2060.	2024.	<.0000	2017.
Stddev	2.0	4.	1.	6.	.5194	.
%RSD	.4697	.2176	.0592	.3114	.9255	.0036

#1	427.8	1987.	2059.	2019.	<.0000	2017.
#2	430.7	1981.	2061.	2028.	<.0000	2017.

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	2112.	2104.	<.0000	1943.	2073.	2002.
Stddev	3.	1.	2.886	14.	3.	1.
%RSD	.1619	.0485	704.2	.6983	.1255	.0582

#1	2114.	2105.	<.0000	1953.	2071.	2001.
#2	2109.	2103.	1.631	1933.	2075.	2003.

Elem	Cr3578	Cu3247	Fe2599	In2306	K_7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2040.	2158.	2012.	<.0000	9502.	2025.
Stddev	11.	12.	4.	.0607	7.	1.
%RSD	.5183	.5527	.1905	.1213	.0783	.0563

#1	2032.	2150.	2010.	<.0000	9507.	2026.
#2	2047.	2167.	2015.	<.0000	9497.	2024.

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1948.	1981.	2087.	2041.	1909.	2060.
Stddev	6.	1.	2.	4.	1.	5.
%RSD	.2921	.0469	.0879	.1934	.0334	.2664

#1	1952.	1981.	2088.	2044.	1909.	2056.
#2	1944.	1980.	2086.	2038.	1908.	2064.

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	2095.	<.0000	18.82	<.0000	2161.
Stddev	.4412	3.	6.402	3.01	12.85	5.
%RSD	20.31	.1275	280.4	16.01	73.29	.2312

#1	<.0000	2097.	<.0000	16.69	<.0000	2165.
#2	<.0000	2094.	2.244	20.95	<.0000	2158.

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2025.	3639.	2046.	2034.	<.0000	<.0000
Stddev	12.	11.	4.	9.	1.415	3.134
%RSD	.6102	.2915	.1745	.4514	2.404	155.7

#1	2016.	3631.	2043.	2027.	<.0000	.2037
#2	2033.	3646.	2048.	2040.	<.0000	<.0000

Elem	Tl1908	V_3093	W_2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	1992.	2008.	<.0000	2119.	143.4
Stddev	12.	5.	2.319	5.	336.1
%RSD	.5826	.2574	.2571	.2433	234.4

#1	1984.	2011.	<.0000	2116.	381.1
#2	2000.	2004.	<.0000	2123.	<.0000

Method: SPEX

Sample Name: ICB-1

Operator:

Comment:

Run Time: 10/11/11 10:30 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B_2496
Line	328.068 {102}	394.401 {85}	396.152 {85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	<.0000	<.0000	4.368	<.0000	<.0000	<.0000
Stddev	1.150	10.39	6.589	.8308	.1830	.2655
%RSD	56.57	480.6	150.9	424.4	84.81	.7749

#1	<.0000	5.187	<.0000	.3917	<.0000	<.0000
#2	<.0000	<.0000	9.027	<.0000	<.0000	<.0000

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 {68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	.0248	.0063	<.0000	<.0000	.1831	<.0000
Stddev	.4030	.0450	3.646	2.699	.1233	.0236
%RSD	1626.	709.3	242.5	50.50	67.34	10.10

#1	<.0000	.0381	1.074	<.0000	.2703	<.0000
#2	.3098	<.0000	<.0000	<.0000	.0959	<.0000

Elem	Cr3578	Cu3247	Fe2599	In2306	K_7664	Li6103
Line	357.869 {94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 {44}	610.362 {55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	1.943	<.0000	<.0000	<.0000	.3175
Stddev	.4806	2.289	.1527	.5409	1.304	.8143
%RSD	70.62	117.8	41.48	10.02	13.65	256.5

#1	<.0000	.3240	<.0000	<.0000	<.0000	<.0000
#2	<.0000	3.562	<.0000	<.0000	<.0000	.8933

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 {87}	257.610 {131}	202.030 {166}	588.995 {57}	589.592 {57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	<.0000	<.0000	<.0000	<.0000	.6270
Stddev	3.767	.0378	.5729	.2409	.5811	.0443
%RSD	80.86	185.7	60.15	1.413	4.664	7.072

#1	<.0000	.0064	<.0000	<.0000	<.0000	.5957
#2	<.0000	<.0000	<.0000	<.0000	<.0000	.6584

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1625	1.429	40.59	<.0000	.4759	1.377
Stddev	.3644	.857	1.06	.1003	.1683	1.049
%RSD	224.2	59.95	2.613	23.57	35.35	76.14

#1	.4201	2.034	41.33	<.0000	.5949	2.119
#2	<.0000	.8230	39.84	<.0000	.3570	.6358

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 {97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2077	29.98	<.0000	<.0000	<.0000	<.0000
Stddev	2.054	15.90	.4495	.0004	.9199	.0001
%RSD	989.0	53.02	2195000.	.0135	39.11	.0287

#1	1.660	41.22	<.0000	<.0000	<.0000	<.0000
#2	<.0000	18.74	.3178	<.0000	<.0000	<.0000

Elem	Tl1908	V_3093	W_2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 {99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	<.0000	2.182	<.0000	3588.
Stddev	.8390	.6920	1.449	.0261	566.
%RSD	13.86	141.4	66.40	13.25	15.79

#1	<.0000	<.0000	1.158	<.0000	3988.
#2	<.0000	<.0000	3.207	<.0000	3187.

Method: SPEX Sample Name: CRI-1

Operator:

Comment:

Run Time: 10/11/11 10:59 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	12.61	2.161	2.330	21.02	<.0000	<.0000
Stddev	1.73	.612	7.001	.00	.8387	.9900
%RSD	13.69	28.29	300.5	.0003	40.72	1.805

#1	13.83	1.729	<.0000	21.02	<.0000	<.0000
#2	11.39	2.594	7.281	21.02	<.0000	<.0000

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	.0769	9.283	.9663	<.0000	9.728	95.87
Stddev	.1823	.027	1.975	.0000	.164	.09
%RSD	237.0	.2905	204.3	.0000	1.690	.0980

#1	<.0000	9.302	2.363	<.0000	9.612	95.94
#2	.2058	9.264	<.0000	<.0000	9.844	95.80

Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.66	37.07	.6460	<.0000	<.0000	<.0000
Stddev	.00	.69	.0180	.5409	1.054	5.004
%RSD	.0004	1.852	2.784	32.63	9.621	120.0

#1	16.66	37.56	.6333	<.0000	<.0000	<.0000
#2	16.66	36.59	.6587	<.0000	<.0000	<.0000

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	28.58	<.0000	<.0000	<.0000	79.69
Stddev	6.590	.07	1.084	2.148	.1788	.10
%RSD	164.9	.2579	9.252	11.47	1.729	.1227

#1	<.0000	28.63	<.0000	<.0000	<.0000	79.63
#2	.6643	28.53	<.0000	<.0000	<.0000	79.76

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.031	6.063	15.79	<.0000	<.0000	125.0
Stddev	.556	3.249	10.63	1.606	.4206	1.3
%RSD	53.96	53.59	67.34	323.2	157.1	1.019

#1	1.424	8.360	23.30	.6387	.0297	124.1
#2	.6373	3.765	8.269	<.0000	<.0000	125.9

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.779	39.37	.7416	1.890	<.0000	<.0000
Stddev	.391	18.56	.3995	6.492	.7784	.4878
%RSD	5.773	47.14	53.87	343.5	34.57	39.28

#1	6.502	26.25	1.024	6.481	<.0000	<.0000
#2	7.055	52.49	.4591	<.0000	<.0000	<.0000

Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	20.17	70.22	<.0000	41.49	2787.
Stddev	1.01	.93	.6710	.17	721.
%RSD	4.991	1.328	1.610	.4134	25.88

#1	19.46	69.56	<.0000	41.61	3297.
#2	20.88	70.88	<.0000	41.36	2277.

: 00308

Method: SPEX

Sample Name: ICSCA-1

Operator:

Comment:

Run Time: 10/11/11 11:10 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	<.0000	538500.	478700.	<.0000	<.0000	<.0000
Stddev	.2893	480.	822.	.4682	8.028	1.228
%RSD	7.468	.0891	.1716	.5116	1.361	1.857

#1	<.0000	538200.	478200.	<.0000	<.0000	<.0000
#2	<.0000	538900.	479300.	<.0000	<.0000	<.0000

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	.5519	.0460	<.0000	407100.	.4040	<.0000
Stddev	.0143	.0090	6.353	55.	.1152	.0708
%RSD	2.592	19.45	26.98	.0136	28.50	7.590

#1	.5620	.0397	<.0000	407100.	.3226	<.0000
#2	.5417	.0523	<.0000	407100.	.4855	<.0000

Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	<.0000	136400.	<.0000	<.0000	<.0000
Stddev	8.205	1.835	66.	2.036	1.743	26.37
%RSD	85.99	10.85	.0482	2.326	4.037	2.460

#1	<.0000	<.0000	136400.	<.0000	<.0000	<.0000
#2	<.0000	<.0000	136400.	<.0000	<.0000	<.0000

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	505800.	<.0000	<.0000	<.0000	<.0000	<.0000
Stddev	492.	.0899	.3718	.0509	.7745	.0363
%RSD	.0972	6.614	9.871	14.23	40.36	.3813

#1	505500.	<.0000	<.0000	<.0000	<.0000	<.0000
#2	506200.	<.0000	<.0000	<.0000	<.0000	<.0000

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	528.5	<.0000	7.526	711.1	<.0000	<.0000
Stddev	10.8	2.842	3.202	1.7	.6123	1.584
%RSD	2.034	.6713	42.54	.2453	2.081	17.86

#1	536.1	<.0000	9.790	712.3	<.0000	<.0000
#2	520.9	<.0000	5.262	709.8	<.0000	<.0000

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	<.0000	2.013	3.513	14.51	<.0000
Stddev	1.465	13.31	.000	1.150	.00	.1933
%RSD	5.363	20.29	.0067	32.73	.0075	1.754

#1	<.0000	<.0000	2.013	2.700	14.51	<.0000
#2	<.0000	<.0000	2.013	4.327	14.51	<.0000

Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	<.0000	221.4	<.0000	2210.
Stddev	.5059	192.0	.5	.1461	1242.
%RSD	2.981	.7385	.2093	.8768	56.19

#1	<.0000	<.0000	221.8	<.0000	3088.
#2	<.0000	<.0000	221.1	<.0000	1332.

Method: SPEX

Sample Name: ICSAB-1

Operator:

Comment:

Run Time: 10/11/11 11:15 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B_2496
Line	328.068 {102}	394.401 {85}	396.152 {85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	1090.	525400.	472400.	<.0000	<.0000	<.0000
Stddev	9.	730.	1145.	3.410	5.143	.2900
%RSD	.8503	.1389	.2423	3.695	.8235	.4061

#1	1083.	525900.	471600.	<.0000	<.0000	<.0000
#2	1096.	524900.	473200.	<.0000	<.0000	<.0000

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 {68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	522.0	477.5	<.0000	400700.	1038.	440.5
Stddev	1.4	1.2	.1910	151.	1.	1.7
%RSD	.2701	.2581	.6772	.0378	.1334	.3762

#1	521.0	476.6	<.0000	400600.	1037.	439.3
#2	523.0	478.4	<.0000	400900.	1039.	441.7

Elem	Cr3578	Cu3247	Fe2599	In2306	K_7664	Li6103
Line	357.869 {94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 {44}	610.362 {55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	491.9	517.0	134500.	<.0000	<.0000	<.0000
Stddev	5.9	6.5	524.	2.525	1.493	22.70
%RSD	1.202	1.266	.3895	2.676	3.337	2.373

#1	496.1	512.4	134100.	<.0000	<.0000	<.0000
#2	487.7	521.6	134800.	<.0000	<.0000	<.0000

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 {87}	257.610 {131}	202.030 {166}	588.995 {57}	589.592 {57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	498500.	438.8	<.0000	<.0000	<.0000	883.3
Stddev	1647.	.6	.1394	.3601	.2709	2.5
%RSD	.3304	.1463	3.239	1.376	.9899	.2835

#1	497400.	438.3	<.0000	<.0000	<.0000	881.5
#2	499700.	439.2	<.0000	<.0000	<.0000	885.1

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	505.4	1108.	7.525	714.7	<.0000	<.0000
Stddev	5.3	6.	3.201	.7	3.682	5.771
%RSD	1.051	.5204	42.54	.0981	10.76	98.25

#1	509.2	1104.	5.262	715.2	<.0000	<.0000
#2	501.7	1112.	9.789	714.2	<.0000	<.0000

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 {97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	<.0000	.8477	.2611	.5997	<.0000
Stddev	7.242	.0054	.8494	6.517	.4248	2.054
%RSD	23.79	.0111	100.2	2496.	70.83	17.44

#1	<.0000	<.0000	.2471	4.869	.9001	<.0000
#2	<.0000	<.0000	1.448	<.0000	.2994	<.0000

Elem	Tl1908	V_3093	W_2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 {99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	520.1	41.40	993.0	2868.
Stddev	3.022	1.1	.11	4.4	362.
%RSD	13.98	.2059	.2594	.4466	12.64

#1	<.0000	519.3	41.33	989.9	3124.
#2	<.0000	520.9	41.48	996.2	2612.

Method: SPEX Sample Name: CCV-1

Operator:

Comment:

Run Time: 10/11/11 11:25 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	437.4	2025.	2104.	2057.	<.0000	1968.
Stddev	4.9	10.	9.	2.	.1377	.
%RSD	1.121	.5146	.4514	.1084	.2402	.0081

#1	440.9	2033.	2111.	2058.	<.0000	1968.
#2	433.9	2018.	2097.	2055.	<.0000	1967.

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	2124.	2135.	1.839	1999.	2096.	2022.
Stddev	4.	9.	.001	1.	.	1.
%RSD	.1754	.4326	.0526	.0547	.0170	.0491

#1	2127.	2141.	1.838	1998.	2095.	2022.
#2	2122.	2128.	1.840	1999.	2096.	2021.

Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2063.	2178.	2033.	<.0000	9518.	2049.
Stddev	6.	3.	3.	3.487	10.	2.
%RSD	.2802	.1577	.1345	6.756	.1068	.0876

#1	2067.	2181.	2035.	< .0000	9511.	2050.
#2	2059.	2176.	2031.	< .0000	9525.	2048.

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2025.	1996.	2101.	1989.	1855.	2083.
Stddev	26.	.	8.	3.	1.	3.
%RSD	1.260	.0150	.3702	.1420	.0748	.1203

#1	2043.	1996.	2096.	1991.	1856.	2081.
#2	2007.	1995.	2107.	1987.	1854.	2084.

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	2018.	26.39	18.89	<.0000	2178.
Stddev	.1727	6.	4.27	.10	4.839	8.
%RSD	5.302	.2881	16.17	.5309	32.59	.3447

#1	<.0000	2014.	23.37	18.82	< .0000	2183.
#2	<.0000	2022.	29.41	18.96	< .0000	2172.

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2052.	3466.	2073.	2054.	<.0000	<.0000
Stddev	6.	64.	5.	8.	3.115	.8814
%RSD	.3046	1.842	.2272	.4101	5.627	70.48

#1	2047.	3511.	2077.	2060.	< .0000	<.0000
#2	2056.	3421.	2070.	2048.	< .0000	<.0000

Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	2017.	2134.	<.0000	2144.	1807.
Stddev	4.	12.	.7042	2.	155.
%RSD	.1991	.5707	.0772	.0921	8.584

#1	2014.	2126.	<.0000	2142.	1917.
#2	2020.	2143.	<.0000	2145.	1697.

Method: SPEX

Sample Name: CCB-1

Operator:

Comment:

Run Time: 10/11/11 11:34 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	<.0000	5.637	26.30	<.0000	.8412	<.0000
Stddev	1.731	10.43	20.25	.2769	.5184	.6280
%RSD	428.9	185.0	77.00	84.85	61.63	1.017

#1	<.0000	13.01	11.98	<.0000	.4746	<.0000
#2	.8204	<.0000	40.62	<.0000	1.208	<.0000

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	.2528	<.0000	3.973	<.0000	<.0000	<.0000
Stddev	.0212	.1715	.759	3.250	.0329	.0707
%RSD	8.404	128.9	19.11	94.52	225.9	23.57

#1	.2377	<.0000	3.436	<.0000	.0087	<.0000
#2	.2678	<.0000	4.510	<.0000	<.0000	<.0000

Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000
Stddev	.9861	1.377	.0360	1.022	.2524	1.591
%RSD	9.478	84.55	6.040	34.84	.9635	68.78

#1	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000
#2	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.300	<.0000	<.0000	<.0000	<.0000	<.0000
Stddev	2.832	.0279	.4335	.4676	.6020	.0355
%RSD	30.45	45.19	29.11	.7017	1.068	566.3

#1	7.297	<.0000	<.0000	<.0000	<.0000	<.0000
#2	11.30	<.0000	<.0000	<.0000	<.0000	.0188

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	<.0000	33.91	<.0000	<.0000	1.483
Stddev	.8054	1.345	2.13	.4014	.5257	1.348
%RSD	191.8	133.8	6.272	51.41	392.5	90.92

#1	<.0000	<.0000	35.42	<.0000	<.0000	.5294
#2	.1495	<.0000	32.41	<.0000	.2378	2.436

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	<.0000	.3179	4.868	<.0000	<.0000
Stddev	1.174	23.94	.0999	3.831	.9198	1.664
%RSD	84.84	143.4	31.42	78.71	68.10	593.5

#1	<.0000	<.0000	.2472	2.159	<.0000	.8963
#2	<.0000	.2370	.3885	7.577	<.0000	<.0000

Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	13.40	1.214	<.0000	2793.
Stddev	.5035	1.65	.295	.1193	206.
%RSD	10.35	12.34	24.31	34.94	7.387

#1	<.0000	14.57	1.423	<.0000	2939.
#2	<.0000	12.23	1.006	<.0000	2647.

Method: SPEX

Sample Name: MB,IW

Operator:

Comment:

Run Time: 10/11/11 11:39 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	.4116	1.298	13.73	.2583	.9058	<.0000
Stddev	2.307	19.01	6.61	2.215	1.433	.2638
%RSD	560.5	1465.	48.10	857.6	158.2	.5474

#1	2.043	14.74	18.40	1.825	<.0000	<.0000
#2	<.0000	<.0000	9.062	<.0000	1.919	<.0000

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	.5883	<.0000	2.894	<.0000	.3604	<.0000
Stddev	.0039	.0091	4.404	4.332	.0699	.1531
%RSD	.6549	6.231	152.2	379.6	19.39	122.5

#1	.5855	<.0000	6.009	1.922	.3110	<.0000
#2	.5910	<.0000	<.0000	<.0000	.4098	<.0000

Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	<.0000	14.06	<.0000	<.0000	<.0000
Stddev	5.389	3.905	.28	1.562	1.068	4.242
%RSD	30.46	792.5	1.998	45.96	13.89	132.7

#1	<.0000	2.268	14.26	<.0000	<.0000	<.0000
#2	<.0000	<.0000	13.86	<.0000	<.0000	<.0000

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	31.33	.3532	<.0000	<.0000	<.0000	1.047
Stddev	7.55	.0405	.4026	5.600	4.071	.195
%RSD	24.09	11.47	29.18	21.71	24.68	18.63

#1	36.67	.3245	<.0000	<.0000	<.0000	1.185
#2	26.00	.3818	<.0000	<.0000	<.0000	.9092

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5832	<.0000	23.36	.4258	.1189	3.175
Stddev	.3067	1.784	2.13	1.706	.0841	1.498
%RSD	52.59	204.9	9.107	400.7	70.67	47.16

#1	.3663	<.0000	24.86	<.0000	.1784	4.234
#2	.8000	.3907	21.85	1.632	.0595	2.116

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.591	<.0000	1.236	4.326	<.0000	.9656
Stddev	1.467	18.60	.100	.767	1.698	.2936
%RSD	92.24	43.24	8.079	17.72	80.81	30.40

#1	.5532	<.0000	1.307	3.783	<.0000	.7580
#2	2.629	<.0000	1.165	4.868	<.0000	1.173

Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	15.56	.6451	4.061	2300.
Stddev	.3360	.96	.0268	.486	1163.
%RSD	23.60	6.181	4.148	11.96	50.58

#1	<.0000	16.24	.6641	4.404	1477.
#2	<.0000	14.88	.6262	3.718	3122.

Method: SPEX

Sample Name: LCS, IW

Operator:

Comment:

Run Time: 10/11/11 11:43 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Ag3280	Al13944	Al13961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	506.0	2016.	2071.	1973.	<.0000	1970.
Stddev	4.9	18.	11.	7.	.2585	17.
%RSD	.9686	.8817	.5178	.3588	.4709	.8642

#1	502.5	2003.	2063.	1968.	<.0000	1958.
#2	509.4	2028.	2079.	1978.	<.0000	1982.

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	2107.	2180.	.4384	1931.	2049.	1971.
Stddev	13.	14.	2.284	22.	10.	13.
%RSD	.6114	.6417	521.0	1.150	.4682	.6580

#1	2098.	2170.	2.054	1915.	2042.	1962.
#2	2116.	2190.	< .0000	1946.	2056.	1980.

Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2036.	2197.	2043.	<.0000	8504.	2045.
Stddev	11.	17.	13.	2.705	26.	3.
%RSD	.5291	.7939	.6326	5.547	.3085	.1396

#1	2028.	2184.	2034.	< .0000	8523.	2043.
#2	2043.	2209.	2052.	< .0000	8486.	2047.

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1970.	1992.	2119.	2004.	1892.	2068.
Stddev	26.	11.	19.	12.	20.	17.
%RSD	1.342	.5608	.9049	.6100	1.070	.8103

#1	1952.	1984.	2106.	1996.	1878.	2056.
#2	1989.	2000.	2133.	2013.	1907.	2080.

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	1994.	13.56	19.24	<.0000	2130.
Stddev	.6522	10.	1.07	1.41	3.409	11.
%RSD	21.94	.5083	7.867	7.307	6.650	.4944

#1	<.0000	1987.	12.81	20.24	< .0000	2123.
#2	<.0000	2001.	14.32	18.25	< .0000	2138.

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1917.	8126.	2023.	2067.	<.0000	<.0000
Stddev	1.	184.	13.	20.	1.344	1.077
%RSD	.0547	2.258	.6529	.9818	2.171	129.0

#1	1917.	7996.	2014.	2052.	< .0000	< .0000
#2	1918.	8256.	2033.	2081.	< .0000	< .0000

Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	1874.	2137.	<.0000	2074.	3178.
Stddev	16.	6.	6.565	13.	1008.
%RSD	.8407	.2836	.7365	.6159	31.73

#1	1863.	2133.	< .0000	2065.	3891.
#2	1885.	2141.	< .0000	2083.	2465.

Method: SPEX

Sample Name: 110830062-001B, IW

Operator:

Comment:

Run Time: 10/11/11 11:48 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	<.0000	686.1	910.0	3.084	<.0000	366.3
Stddev	4.330	20.2	16.5	1.846	.2593	1.9
%RSD	141.6	2.949	1.814	59.85	21.26	.5145
#1	<.0000	671.8	898.3	1.779	<.0000	367.6
#2	.0049	700.4	921.6	4.390	<.0000	365.0
Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	110.8	<.0000	<.0000	98990.	.4538	1.112
Stddev	.0	.0361	3.345	273.	.1028	.065
%RSD	.0222	23.76	177.4	.2754	22.66	5.827
#1	110.8	<.0000	.4792	98800.	.3811	1.066
#2	110.8	<.0000	<.0000	99180.	.5265	1.158
Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	127.0	21.77	1641.	<.0000	2388.	<.0000
Stddev	21.6	2.30	5.	2.405	9.	.4156
%RSD	16.99	10.56	.3024	236.1	.3668	.0714
#1	111.8	23.39	1637.	<.0000	2382.	<.0000
#2	142.3	20.14	1644.	.6819	2394.	<.0000
Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24320.	459.1	5.740	6835.	6720.	24.87
Stddev	222.	.7	3.129	48.	28.	.48
%RSD	.9138	.1534	54.51	.6961	.4112	1.926
#1	24160.	458.6	7.953	6801.	6700.	24.53
#2	24480.	459.6	3.528	6869.	6739.	25.21
Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.940	<.0000	17.33	7.953	.0156	6.013
Stddev	.249	2.195	8.54	1.908	.6943	.299
%RSD	4.199	874.3	49.24	23.99	4455.	4.972
#1	6.116	<.0000	11.30	6.604	<.0000	5.802
#2	5.764	1.301	23.37	9.302	.5065	6.225
Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.285	8790.	.4591	297.3	.4496	15.72
Stddev	.294	16.	.3997	2.7	1.770	.59
%RSD	12.85	.1785	87.07	.8994	393.7	3.736
#1	2.078	8779.	.1764	295.4	1.701	15.30
#2	2.493	8801.	.7417	299.2	<.0000	16.13
Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391	
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}	
Units	ppb	ppb	ppb	ppb	ppb	
Avg	3.556	38.50	4.367	109.7	2758.	
Stddev	3.022	3.04	1.745	.2	569.	
%RSD	84.98	7.907	39.96	.2217	20.62	
#1	5.693	36.35	3.133	109.5	2356.	
#2	1.419	40.65	5.601	109.9	3160.	

Method: SPEX

Sample Name: 110830062-002B,IW

Operator:

Comment:

Run Time: 10/11/11 11:53 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	.4132	<.0000	118.4	2.359	1.272	1345.
Stddev	.5773	20.87	2.5	.092	1.099	3.
%RSD	139.7	22.26	2.094	3.918	86.36	.1923
#1	.8214	< .0000	120.1	2.425	2.049	1347.
#2	.0050	< .0000	116.6	2.294	.4953	1343.
Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	29.73	<.0000	.1066	53430.	.0729	.3664
Stddev	.25	.0632	2.128	156.	.1974	.3300
%RSD	.8392	58.92	1996.	.2914	270.9	90.07
#1	29.91	<.0000	< .0000	53540.	.2125	.5998
#2	29.56	<.0000	1.611	53320.	<.0000	.1331
Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7181	6.982	302.6	<.0000	3695.	<.0000
Stddev	2.944	.230	.5	1.323	16.	34.67
%RSD	410.0	3.291	.1714	155.9	.4404	2.935
#1	2.800	7.144	303.0	.0871	3706.	< .0000
#2	< .0000	6.819	302.2	< .0000	3683.	< .0000
Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11120.	16.10	<.0000	17560.	18180.	3.375
Stddev	10.	.06	.5113	74.	65.	.098
%RSD	.0927	.3463	246.7	.4230	.3573	2.896
#1	11130.	16.14	.1543	17610.	18230.	3.444
#2	11120.	16.06	<.0000	17500.	18130.	3.306
Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.504	<.0000	6.016	2.415	.2537	1.282
Stddev	.192	2.199	3.201	.502	.4840	3.522
%RSD	12.75	123.1	53.21	20.78	190.8	274.7
#1	1.639	< .0000	8.280	2.060	.5960	3.772
#2	1.368	< .0000	3.753	2.770	<.0000	< .0000
Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	5265.	.9184	184.0	2.452	2.212
Stddev	.1959	32.	.4497	2.7	1.770	.098
%RSD	28.38	.6057	48.97	1.457	72.19	4.428
#1	<.0000	5287.	1.236	185.9	3.704	2.143
#2	<.0000	5242.	.6004	182.1	1.200	2.281
Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391	
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}	
Units	ppb	ppb	ppb	ppb	ppb	
Avg	.5876	21.78	1.652	475.6	2411.	
Stddev	.8390	1.87	.376	.1	78.	
%RSD	142.8	8.592	22.76	.0136	3.217	
#1	1.181	20.46	1.918	475.6	2465.	
#2	< .0000	23.11	1.387	475.5	2356.	

Method: SPEX Sample Name: 110830062-003B,IW Operator:
 Comment:
 Run Time: 10/11/11 11:56 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	2.659	<.0000	<.0000	4.693	3.904	52470.
Stddev	.866	3.081	10.75	.739	.641	67.
%RSD	32.58	.9066	10.08	15.74	16.41	.1276
#1	3.271	<.0000	<.0000	5.215	4.357	52430.
#2	2.046	<.0000	<.0000	4.170	3.451	52520.
Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	27.24	<.0000	1.918	115400.	<.0000	<.0000
Stddev	.01	.0181	.608	308.	.0000	.1591
%RSD	.0294	8.893	31.69	.2666	.0000	56.93
#1	27.24	<.0000	2.347	115600.	<.0000	<.0000
#2	27.23	<.0000	1.488	115100.	<.0000	<.0000
Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	4.382	50.43	<.0000	9762.	<.0000
Stddev	4.907	.689	.52	3.848	56.	2.994
%RSD	26.22	15.73	1.034	167.7	.5773	.0618
#1	<.0000	3.894	50.80	.4269	9802.	<.0000
#2	<.0000	4.869	50.06	<.0000	9723.	<.0000
Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37400.	251.9	.1651	122300.	169300.	1.556
Stddev	39.	.3	.6041	418.	376.	.133
%RSD	.1046	.1316	366.0	.3418	.2222	8.554
#1	37430.	252.1	.5923	122600.	169000.	1.461
#2	37370.	251.7	<.0000	122100.	169500.	1.650
Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1607	<.0000	26.39	<.0000	1.191	.1530
Stddev	.3645	3.313	14.94	.4016	.084	1.124
%RSD	226.8	3752.	56.61	29.79	7.067	734.6
#1	<.0000	2.255	36.95	<.0000	1.131	<.0000
#2	.4185	<.0000	15.83	<.0000	1.250	.9478
Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	7688.	1.554	539.7	61.32	<.0000
Stddev	.1957	75.	.550	4.2	2.05	1.175
%RSD	20.23	.9726	35.36	.7849	3.348	99.47
#1	<.0000	7741.	1.166	542.7	62.77	<.0000
#2	<.0000	7635.	1.943	536.7	59.87	<.0000
Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391	
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}	
Units	ppb	ppb	ppb	ppb	ppb	
Avg	<.0000	94.10	1.178	27.25	2996.	
Stddev	3.190	1.64	.993	.02	77.	
%RSD	2.208	1.741	84.36	.0850	2.587	
#1	<.0000	92.94	1.880	27.27	2941.	
#2	<.0000	95.26	.4752	27.23	3050.	

Method: SPEX Sample Name: 110830062-004B, IW Operator:
 Comment:
 Run Time: 10/11/11 12:00 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	1.638	<.0000	<.0000	3.840	3.710	3024.
Stddev	1.155	3.683	8.268	1.201	.153	71.
%RSD	70.50	1.463	123.1	31.27	4.112	2.344

#1	.8213	<.0000	<.0000	4.689	3.602	3074.
#2	2.454	<.0000	<.0000	2.991	3.818	2974.

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	63.65	<.0000	<.0000	104900.	.1368	<.0000
Stddev	.28	.0542	2.431	149.	.0165	.2770
%RSD	.4424	38.92	93.41	.1424	12.02	228.7

#1	63.85	<.0000	<.0000	104800.	.1252	.0747
#2	63.45	<.0000	<.0000	105000.	.1484	<.0000

Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	52.65	70.68	1.192	3156.	<.0000
Stddev	2.945	1.38	.10	1.443	8.	12.59
%RSD	53.25	2.619	.1484	121.0	.2442	.5874

#1	<.0000	51.67	70.60	2.212	3151.	<.0000
#2	<.0000	53.62	70.75	.1717	3162.	<.0000

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39590.	966.1	<.0000	38180.	44970.	12.07
Stddev	76.	1.3	.4957	60.	19.	.22
%RSD	.1931	.1359	141.7	.1584	.0413	1.838

#1	39540.	967.0	<.0000	38220.	44960.	11.91
#2	39650.	965.2	.0008	38130.	44980.	12.23

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5134	1.677	23.37	3.338	.8338	<.0000
Stddev	.6331	.121	19.21	3.012	1.094	.0000
%RSD	123.3	7.230	82.18	90.24	131.2	.0020

#1	.0657	1.762	36.95	1.208	.0602	<.0000
#2	.9611	1.591	9.789	5.468	1.607	<.0000

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7629	7466.	<.0000	424.2	2.352	<.0000
Stddev	1.664	64.	1.049	2.7	4.318	1.665
%RSD	218.1	.8551	1480.	.6323	183.6	239.0

#1	<.0000	7420.	<.0000	422.3	<.0000	.4807
#2	1.939	7511.	.6710	426.1	5.405	<.0000

Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	100.9	2.696	155.7	3654.
Stddev	2.350	2.3	.403	.2	284.
%RSD	16.77	2.320	14.94	.1234	7.784

#1	<.0000	99.23	2.981	155.5	3453.
#2	<.0000	102.5	2.412	155.8	3855.

Method: SPEX

Sample Name: 110830062-006B,IW

Operator:

Comment:

Run Time: 10/11/11 12:05 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	.2090	812.5	1036.	6.399	<.0000	772.9
Stddev	3.752	11.0	6.	.924	.7172	1.9
%RSD	1796.	1.353	.5917	14.44	18.21	.2502

#1	< .0000	804.7	1032.	7.052	<.0000	774.3
#2	2.862	820.3	1040.	5.745	<.0000	771.6

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	62.23	<.0000	.6429	67920.	.1049	1.237
Stddev	.04	.0271	.1525	418.	.0288	.006
%RSD	.0609	28.65	23.72	.6156	27.45	.4762

#1	62.20	<.0000	.7507	67620.	.1252	1.233
#2	62.25	<.0000	.5350	68220.	.0845	1.242

Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	6.982	2074.	<.0000	3177.	<.0000
Stddev	10.31	2.069	1.	.2405	11.	37.93
%RSD	129.6	29.63	.0699	7.257	.3553	2.460

#1	< .0000	8.445	2073.	<.0000	3169.	< .0000
#2	< .0000	5.519	2075.	<.0000	3185.	< .0000

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17990.	79.52	.8117	22400.	23750.	4.730
Stddev	50.	.08	.1859	128.	211.	.257
%RSD	.2768	.0952	22.91	.5699	.8893	5.439

#1	17960.	79.57	.9431	22310.	23600.	4.548
#2	18030.	79.47	.6802	22490.	23900.	4.912

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.388	.0647	15.07	9.730	1.385	.2286
Stddev	.269	2.385	1.07	.402	.400	4.496
%RSD	4.205	3684.	7.085	4.129	28.87	1967.

#1	6.198	< .0000	15.83	10.01	1.102	< .0000
#2	6.578	1.751	14.32	9.445	1.667	3.408

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6942	6151.	.0350	241.8	<.0000	14.12
Stddev	1.958	66.	.5996	8.4	1.062	1.47
%RSD	282.0	1.075	1711.	3.495	162.9	10.40

#1	2.078	6104.	<.0000	247.8	.0989	13.09
#2	< .0000	6198.	.4591	235.8	< .0000	15.16

Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	23.77	4.823	112.2	2648.
Stddev	.0000	1.87	2.175	.1	569.
%RSD	.0014	7.855	45.09	.0489	21.49

#1	<.0000	25.09	6.361	112.2	3051.
#2	<.0000	22.45	3.285	112.3	2246.

Method: SPEX

Sample Name: 110830062-006BDP,IW

Operator:

Comment:

Run Time: 10/11/11 12:09 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	1.025	268.6	465.6	6.730	<.0000	729.7
Stddev	2.020	9.2	9.9	.738	.5952	4.4
%RSD	197.0	3.428	2.130	10.97	44.10	.6021
#1	<.0000	275.1	458.6	6.208	<.0000	726.6
#2	2.454	262.1	472.7	7.252	<.0000	732.8
Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	51.39	<.0000	<.0000	63720.	.0322	.6623
Stddev	.21	.0271	.6069	1897.	.0247	.0766
%RSD	.4032	28.66	42.05	2.977	76.76	11.57
#1	51.25	<.0000	<.0000	62370.	.0496	.6081
#2	51.54	<.0000	<.0000	65060.	.0147	.7164
Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.063	6.656	1017.	<.0000	2874.	<.0000
Stddev	20.12	4.366	2.	.6013	12.	27.40
%RSD	1893.	65.60	.2306	23.59	.4235	1.809
#1	<.0000	9.744	1015.	<.0000	2866.	<.0000
#2	15.29	3.569	1018.	<.0000	2883.	<.0000
Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16720.	54.34	.7239	21750.	23080.	3.080
Stddev	39.	.18	.3098	35.	13.	.107
%RSD	.2310	.3363	42.79	.1589	.0567	3.460
#1	16690.	54.21	.5049	21720.	23090.	3.156
#2	16750.	54.47	.9430	21770.	23070.	3.005
Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.688	2.340	22.61	4.120	.1050	<.0000
Stddev	.364	.368	7.47	.903	.0632	.3002
%RSD	9.885	15.72	33.03	21.93	60.18	732.9
#1	3.946	2.600	27.90	3.481	.1497	.1713
#2	3.430	2.080	17.33	4.758	.0603	<.0000
Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	5163.	1.484	235.8	<.0000	5.259
Stddev	.6852	37.	.350	6.9	1.487	.685
%RSD	66.13	.7222	23.57	2.927	118.7	13.04
#1	<.0000	5189.	1.236	240.7	<.0000	5.744
#2	<.0000	5136.	1.731	230.9	<.0000	4.774
Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391	
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}	
Units	ppb	ppb	ppb	ppb	ppb	
Avg	4.149	26.75	2.469	64.66	2228.	
Stddev	.840	.00	.994	.20	491.	
%RSD	20.24	.0018	40.24	.3107	22.05	
#1	3.555	26.75	3.171	64.52	2575.	
#2	4.743	26.75	1.766	64.81	1880.	

Method: SPEX

Sample Name: 110830062-006BMS,IW

Operator:

Comment:

Run Time: 10/11/11 12:13 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Ag3280	Al13944	Al13961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	38.17	6176.	6368.	61.19	<.0000	803.1
Stddev	2.02	38.	3.	2.77	.4268	2.8
%RSD	5.293	.6159	.0452	4.530	1.290	.3538

#1	39.60	6203.	6370.	59.23	<.0000	805.2
#2	36.74	6149.	6366.	63.15	<.0000	801.1

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	2382.	58.34	<.0000	69840.	54.74	535.6
Stddev	2.	.08	6.836	88.	.03	.1
%RSD	.0735	.1396	4359.	.1260	.0536	.0122

#1	2383.	58.28	4.677	69780.	54.72	535.7
#2	2380.	58.40	< .0000	69910.	54.76	535.6

Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	222.8	296.2	7210.	<.0000	4437.	<.0000
Stddev	5.9	.2	5.	4.209	18.	16.64
%RSD	2.643	.0773	.0733	51.04	.3994	1.094

#1	227.0	296.4	7214.	< .0000	4449.	< .0000
#2	218.7	296.1	7207.	< .0000	4424.	< .0000

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19110.	716.0	1.480	22430.	23830.	557.0
Stddev	55.	1.1	.139	7.	52.	.1
%RSD	.2866	.1552	9.425	.0303	.2188	.0213

#1	19140.	716.8	1.381	22430.	23870.	557.1
#2	19070.	715.3	1.578	22440.	23790.	556.9

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.27	23.42	20.35	34.65	<.0000	591.5
Stddev	.88	.62	8.54	1.30	.3156	1.9
%RSD	4.829	2.669	41.94	3.766	23.85	.3155

#1	18.90	22.98	14.32	35.57	<.0000	592.9
#2	17.65	23.86	26.39	33.73	<.0000	590.2

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.413	11040.	.7417	241.0	<.0000	45.77
Stddev	.783	69.	.6995	4.2	.4957	2.74
%RSD	8.316	.6266	94.31	1.750	2.821	5.991

#1	9.966	11000.	.2471	243.9	<.0000	43.83
#2	8.859	11090.	1.236	238.0	<.0000	47.71

Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	39.41	489.9	<.0000	893.5	2868.
Stddev	1.34	.2	.7004	.5	362.
%RSD	3.409	.0476	.3043	.0580	12.62

#1	38.46	490.1	<.0000	893.2	3124.
#2	40.36	489.8	<.0000	893.9	2612.

: 00321

Method: SPEX

Sample Name: 110830062-006BA,IW

Operator:

Comment:

Run Time: 10/11/11 12:18 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	86.55	5136.	5300.	87.11	<.0000	763.0
Stddev	7.51	17.	13.	3.51	.0154	.8
%RSD	8.673	.3328	.2400	4.029	.0431	.1113

#1	81.24	5148.	5309.	89.59	<.0000	762.4
#2	91.85	5124.	5291.	84.62	<.0000	763.6

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	4366.	110.5	<.0000	63100.	101.9	999.2
Stddev	4.	.5	3.797	45.	.1	1.7
%RSD	.1010	.4922	234.5	.0712	.1255	.1697

#1	4369.	110.1	< .0000	63130.	101.8	998.0
#2	4363.	110.9	1.066	63060.	102.0	1000.

Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	415.4	542.1	4150.	<.0000	3124.	<.0000
Stddev	13.2	.5	4.	1.383	20.	7.637
%RSD	3.188	.0866	.1022	10.88	.6414	.5513

#1	424.8	541.8	4147.	< .0000	3138.	< .0000
#2	406.1	542.5	4153.	< .0000	3110.	< .0000

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17350.	1104.	1.326	21740.	23000.	1023.
Stddev	1.	2.	.170	16.	17.	2.
%RSD	.0073	.2240	12.85	.0734	.0753	.2051

#1	17350.	1102.	1.206	21760.	23010.	1021.
#2	17350.	1106.	1.447	21730.	22980.	1024.

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.812	38.68	21.11	18.67	<.0000	1111.
Stddev	.633	2.20	18.14	1.41	.4418	3.
%RSD	8.104	5.680	85.94	7.528	12.86	.2431

#1	8.260	40.24	33.93	17.68	<.0000	1109.
#2	7.364	37.13	8.280	19.67	<.0000	1113.

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.69	6173.	1.342	224.7	<.0000	16.89
Stddev	.10	45.	.250	3.5	.5665	1.47
%RSD	.4733	.7309	18.61	1.537	1.509	8.694

#1	20.62	6205.	1.166	222.3	<.0000	17.93
#2	20.76	6141.	1.519	227.1	<.0000	15.85

Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	82.86	1034.	<.0000	1180.	3343.
Stddev	.67	6.	.3240	4.	724.
%RSD	.8102	.5643	.0722	.3187	21.66

#1	83.33	1038.	<.0000	1178.	2831.
#2	82.38	1030.	<.0000	1183.	3855.

: 00322

Method: SPEX

Sample Name: CCV-2

Operator:

Comment:

Run Time: 10/11/11 12:33 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	441.7	2096.	2136.	2038.	<.0000	2012.
Stddev	.0	4.	5.	8.	.8390	6.
%RSD	.0012	.2062	.2335	.3941	1.505	.2905

#1	441.7	2099.	2139.	2032.	<.0000	2008.
#2	441.7	2093.	2132.	2044.	<.0000	2016.

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	2145.	2165.	2.046	2037.	2108.	2051.
Stddev	2.	4.	2.128	2.	1.	2.
%RSD	.0844	.1956	104.0	.0786	.0464	.0952

#1	2144.	2162.	3.551	2035.	2109.	2050.
#2	2147.	2168.	.5409	2038.	2107.	2053.

Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2083.	2190.	2055.	<.0000	9651.	2054.
Stddev	21.	12.	2.	2.705	10.	2.
%RSD	1.012	.5340	.1159	5.510	.1044	.1081

#1	2068.	2182.	2054.	< .0000	9659.	2052.
#2	2098.	2198.	2057.	< .0000	9644.	2055.

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2047.	2032.	2150.	2037.	1928.	2110.
Stddev	25.	1.	15.	4.	1.	3.
%RSD	1.199	.0315	.7015	.1885	.0323	.1571

#1	2029.	2031.	2140.	2034.	1928.	2107.
#2	2064.	2032.	2161.	2040.	1928.	2112.

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	2081.	31.67	20.31	<.0000	1849.
Stddev	.0768	1.	9.60	.30	5.680	5.
%RSD	3.953	.0412	30.32	1.484	6.541	.2551

#1	<.0000	2081.	38.46	20.52	< .0000	1846.
#2	<.0000	2082.	24.88	20.09	< .0000	1853.

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2050.	3575.	2105.	2135.	<.0000	<.0000
Stddev	9.	122.	6.	6.	.9204	.2938
%RSD	.4199	3.422	.2870	.2861	1.403	26.42

#1	2044.	3488.	2101.	2131.	<.0000	<.0000
#2	2056.	3662.	2110.	2139.	<.0000	<.0000

Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	2014.	2156.	<.0000	2147.	2886.
Stddev	1.	9.	.9142	3.	233.
%RSD	.0335	.4331	.0982	.1565	8.065

#1	2015.	2149.	<.0000	2145.	3050.
#2	2014.	2162.	<.0000	2150.	2721.

: 00323

Method: SPEX

Sample Name: CCB-2

Operator:

Comment:

Run Time: 10/11/11 12:34 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	7.755	14.74	37.98	<.0000	.3881	<.0000
Stddev	1.728	6.13	4.56	3.139	.1524	1.402
%RSD	22.28	41.57	12.00	2378.	39.27	1.915

#1	6.533	10.41	41.20	2.087	.4959	<.0000
#2	8.977	19.08	34.76	<.0000	.2803	<.0000

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	.4988	.0138	3.756	<.0000	.2006	.2832
Stddev	.1228	.1082	2.582	1.625	.0165	.2592
%RSD	24.61	784.1	68.73	53.18	8.210	91.51

#1	.4120	<.0000	1.931	<.0000	.2122	.4665
#2	.5856	.0903	5.582	<.0000	.1889	.1000

Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	3.568	8.182	<.0000	<.0000	<.0000
Stddev	33.83	.460	.203	2.404	3.490	.7299
%RSD	1390.	12.89	2.482	157.1	17.42	9.579

#1	<.0000	3.893	8.038	<.0000	<.0000	<.0000
#2	21.49	3.243	8.325	.1699	<.0000	<.0000

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39.35	.3296	4.150	<.0000	<.0000	.2633
Stddev	7.56	.0378	2.462	.2166	.9084	.2394
%RSD	19.22	11.46	59.34	.3840	2.062	90.92

#1	44.70	.3029	5.891	<.0000	<.0000	.0940
#2	34.00	.3564	2.409	<.0000	<.0000	.4326

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	<.0000	18.08	3.336	<.0000	4.342
Stddev	.1532	1.042	7.47	.201	.7151	.898
%RSD	32.26	287.7	41.30	6.026	400.9	20.69

#1	<.0000	.3745	23.36	3.478	.3273	3.706
#2	<.0000	<.0000	12.80	3.194	<.0000	4.977

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0693	<.0000	<.0000	<.0000	<.0000	.4119
Stddev	.6846	2.673	.3995	.7680	1.769	.2934
%RSD	987.6	11.04	102.8	23.56	72.14	71.24

#1	<.0000	<.0000	<.0000	<.0000	<.0000	.6194
#2	.5534	<.0000	<.0000	<.0000	<.0000	.2044

Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	14.56	.4554	.9134	2848.
Stddev	2.350	2.83	1.905	.0292	78.
%RSD	198.0	19.45	418.3	3.200	2.744

#1	<.0000	12.56	<.0000	.9341	2903.
#2	.4746	16.56	1.803	.8927	2793.

: 00324

Method: SPEX

Sample Name: 110830062-006BL,IW

Operator:

Comment:

Run Time: 10/11/11 12:38 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	1.842	145.4	236.2	2.992	.1716	80.52
Stddev	2.021	10.4	12.0	.277	.4881	1.15
%RSD	109.7	7.178	5.077	9.271	284.4	1.433
#1	.4131	138.0	227.7	3.188	.5167	81.34
#2	3.271	152.8	244.7	2.796	<.0000	79.71
Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	12.45	<.0000	<.0000	13030.	.0903	.3956
Stddev	.15	.0452	4.407	7.	.1233	.2063
%RSD	1.214	31.01	183.3	.0528	136.6	52.15
#1	12.56	<.0000	.7125	13040.	.0031	.2497
#2	12.34	<.0000	<.0000	13030.	.1775	.5414
Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	3.732	410.2	<.0000	461.2	<.0000
Stddev	.9812	1.149	.3	1.082	2.7	2.346
%RSD	14.19	30.79	.0776	84.96	.5922	.8929
#1	<.0000	4.544	410.4	<.0000	463.1	<.0000
#2	<.0000	2.919	410.0	<.0000	459.2	<.0000
Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3464.	16.30	<.0000	3687.	3517.	1.142
Stddev	39.	.01	.3409	.	.	.204
%RSD	1.120	.0731	57.73	.0023	.0101	17.88
#1	3436.	16.29	<.0000	3687.	3517.	1.286
#2	3491.	16.31	<.0000	3687.	3516.	.9973
Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.996	3.527	9.789	1.563	.0157	4.763
Stddev	.537	.177	6.402	.703	.0212	2.024
%RSD	17.94	5.029	65.40	44.94	134.8	42.49
#1	2.616	3.401	5.262	1.066	.0307	6.195
#2	3.376	3.652	14.32	2.060	.0007	3.332
Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	894.0	.1057	45.53	.9502	3.805
Stddev	.5870	8.0	.0000	.00	2.336	.588
%RSD	42.47	.8943	.0411	.0012	245.9	15.45
#1	<.0000	888.3	.1057	45.53	2.602	3.389
#2	<.0000	899.6	.1058	45.53	<.0000	4.220
Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391	
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}	
Units	ppb	ppb	ppb	ppb	ppb	
Avg	1.063	9.869	1.766	25.90	2557.	
Stddev	3.525	2.807	1.665	.00	440.	
%RSD	331.7	28.44	94.26	.0015	17.19	
#1	3.555	7.884	2.944	25.90	2246.	
#2	<.0000	11.85	.5891	25.90	2868.	

Method: SPEX Sample Name: 110830062-007B,IW Operator:
 Comment:
 Run Time: 10/11/11 12:43 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	2.658	<.0000	<.0000	2.261	1.639	<.0000
Stddev	1.443	29.46	.8266	.555	.427	1.689
%RSD	54.29	10.74	2.227	24.55	26.07	4.075

#1	1.638	< .0000	<.0000	2.654	1.337	< .0000
#2	3.679	< .0000	<.0000	1.869	1.941	< .0000

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	182.6	<.0000	<.0000	154600.	<.0000	5.605
Stddev	.9	.0000	.9135	1391.	.0123	.018
%RSD	.5114	.0039	88.63	.9000	10.61	.3121

#1	181.9	<.0000	<.0000	153600.	<.0000	5.592
#2	183.2	<.0000	<.0000	155600.	<.0000	5.617

Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	7.307	474.9	.1296	6566.	<.0000
Stddev	5.889	.230	4.2	1.383	67.	10.42
%RSD	47.23	3.145	.8801	1067.	1.016	.6364

#1	< .0000	7.469	472.0	1.108	6519.	< .0000
#2	< .0000	7.144	477.9	< .0000	6613.	< .0000

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	56420.	537.6	.4391	28620.	32650.	3.099
Stddev	622.	4.6	.2789	131.	181.	.417
%RSD	1.103	.8568	63.53	.4577	.5532	13.46

#1	55980.	534.3	.6364	28530.	32520.	3.394
#2	56860.	540.8	.2419	28710.	32780.	2.804

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.897	3.426	12.05	3.622	.2537	9.523
Stddev	.019	.499	7.47	1.808	.5680	.224
%RSD	1.017	14.56	61.97	49.90	223.8	2.349

#1	1.883	3.073	17.33	4.901	<.0000	9.364
#2	1.911	3.778	6.771	2.344	.6554	9.681

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	8410.	1.519	585.2	1.100	.4114
Stddev	2.838	69.	.000	4.2	1.274	1.077
%RSD	1380.	.8233	.0032	.7213	115.8	261.8

#1	1.801	8361.	1.519	582.2	2.001	1.173
#2	< .0000	8459.	1.519	588.2	.1992	< .0000

Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	3.674	150.0	.1336	97.49	2447.
Stddev	.839	3.5	.6444	.71	1060.
%RSD	22.84	2.340	482.5	.7325	43.32

#1	4.268	147.5	<.0000	96.99	3197.
#2	3.081	152.5	.5892	98.00	1697.

Method: SPEX

Sample Name: 110830062-008B,IW

Operator:

Comment:

Run Time: 10/11/11 12:49 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B_2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	2.046	<.0000	<.0000	14.33	<.0000	<.0000
Stddev	.000	2.439	3.302	1.66	.2133	.4047
%RSD	.0082	.7414	3.413	11.60	11.10	1.472

#1	2.046	<.0000	<.0000	13.15	<.0000	<.0000
#2	2.046	<.0000	<.0000	15.50	<.0000	<.0000

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	204.1	<.0000	.8187	100300.	.1659	2.183
Stddev	.2	.0632	3.799	246.	.0329	.047
%RSD	.0825	39.91	464.0	.2448	19.85	2.154

#1	204.3	<.0000	<.0000	100500.	.1892	2.150
#2	204.0	<.0000	3.505	100100.	.1426	2.216

Elem	Cr3578	Cu3247	Fe2599	In2306	K_7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	5.844	1590.	<.0000	4869.	<.0000
Stddev	5.888	.919	1.	2.044	26.	.3703
%RSD	40.46	15.73	.0371	104.6	.5289	.0300

#1	<.0000	6.494	1591.	<.0000	4887.	<.0000
#2	<.0000	5.194	1590.	<.0000	4850.	<.0000

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43910.	56.27	1.195	17410.	17930.	2.798
Stddev	152.	.08	.480	43.	52.	.204
%RSD	.3449	.1342	40.21	.2451	.2879	7.301

#1	44020.	56.32	1.535	17440.	17960.	2.942
#2	43810.	56.21	.8551	17380.	17890.	2.653

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.068	4.239	23.37	7.314	.7446	11.74
Stddev	.863	2.208	6.40	.603	.2944	.00
%RSD	21.23	52.09	27.40	8.247	39.53	.0089

#1	3.457	2.678	27.90	7.741	.5365	11.74
#2	4.678	5.800	18.84	6.888	.9528	11.74

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	6914.	<.0000	640.8	<.0000	.2037
Stddev	.2935	14.	1.249	10.0	2.548	.3918
%RSD	15.72	.1974	196.3	1.560	508.1	192.3

#1	<.0000	6924.	<.0000	647.8	1.300	<.0000
#2	<.0000	6905.	.2471	633.7	<.0000	.4807

Elem	Tl1908	V_3093	W_2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	.1131	112.0	2.943	93.51	2520.
Stddev	3.189	.7	.752	.15	595.
%RSD	2820.	.6274	25.55	.1634	23.59

#1	2.368	112.5	3.475	93.62	2100.
#2	<.0000	111.5	2.411	93.40	2941.

: 00327

Method: SPEX Sample Name: 110830062-009B,TW Operator:
 Comment:
 Run Time: 10/11/11 12:55 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	2.862	<.0000	<.0000	3.195	.5277	672.5
Stddev	1.732	12.89	8.268	.739	.4729	.1
%RSD	60.50	5.350	69.02	23.13	89.62	.0195

#1	4.087	< .0000	< .0000	3.717	.8621	672.4
#2	1.638	< .0000	< .0000	2.672	.1933	672.6

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	67.37	<.0000	<.0000	89580.	.1921	1.141
Stddev	.07	.0813	5.015	387.	.0370	.071
%RSD	.0983	55.82	110.5	.4317	19.27	6.196

#1	67.42	<.0000	< .0000	89300.	.2182	1.191
#2	67.32	<.0000	< .0000	89850.	.1659	1.091

Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	7.144	373.3	<.0000	8180.	<.0000
Stddev	4.417	4.596	.5	.5412	46.	7.277
%RSD	26.01	64.34	.1291	430.3	.5585	.8289

#1	< .0000	3.894	373.6	.2569	8147.	< .0000
#2	< .0000	10.39	372.9	<.0000	8212.	< .0000

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	29070.	143.2	.0994	11440.	11510.	1.963
Stddev	197.	.0	.1704	71.	74.	.266
%RSD	.6772	.0112	171.4	.6225	.6425	13.56

#1	28930.	143.2	<.0000	11390.	11460.	2.152
#2	29200.	143.2	.2199	11490.	11560.	1.775

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.924	1.762	19.60	3.409	.4768	2.543
Stddev	.902	1.354	1.07	3.113	.0421	.674
%RSD	46.86	76.87	5.445	91.31	8.835	26.52

#1	2.562	2.719	18.84	5.610	.5066	3.020
#2	1.287	.8041	20.35	1.208	.4470	2.066

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	4952.	.7770	435.9	<.0000	.2729
Stddev	.6851	27.	1.049	5.4	.6372	.4897
%RSD	14.78	.5382	135.0	1.232	29.59	179.4

#1	<.0000	4933.	.0351	432.1	<.0000	.6192
#2	<.0000	4971.	1.519	439.7	<.0000	<.0000

Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	2.250	70.77	2.336	132.3	2977.
Stddev	4.869	4.21	.376	.2	310.
%RSD	216.4	5.952	16.10	.1259	10.42

#1	5.693	67.79	2.601	132.1	3197.
#2	< .0000	73.75	2.070	132.4	2758.

Method: SPEX

Sample Name: 110830062-010B,IW

Operator:

Comment:

Run Time: 10/11/11 12:59 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B_2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	<.0000	<.0000	210.2	2.929	<.0000	<.0000
Stddev	1.155	13.50	9.1	.185	.4272	.8938
%RSD	142.3	45.75	4.329	6.312	48.23	3.112

#1	< .0000	< .0000	216.6	3.059	<.0000	<.0000
#2	.0049	< .0000	203.7	2.798	<.0000	<.0000

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	66.88	<.0000	<.0000	117100.	.2008	.5873
Stddev	.21	.0181	5.623	268.	.1152	.3123
%RSD	.3125	5.679	313.9	.2289	57.34	53.19

#1	67.03	<.0000	2.185	116900.	.2823	.8081
#2	66.73	<.0000	< .0000	117300.	.1194	.3664

Elem	Cr3578	Cu3247	Fe2599	In2306	K_7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	6.169	1087.	.8949	2811.	<.0000
Stddev	4.416	.919	1.	.1804	4.	4.217
%RSD	257.9	14.90	.0699	20.16	.1394	.4856

#1	< .0000	6.819	1086.	.7673	2808.	< .0000
#2	1.410	5.519	1088.	1.022	2814.	< .0000

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37190.	77.64	.6472	10980.	11000.	2.064
Stddev	20.	.13	.0155	11.	19.	.461
%RSD	.0537	.1662	2.393	.1039	.1762	22.35

#1	37170.	77.55	.6363	10980.	11010.	1.738
#2	37200.	77.73	.6582	10990.	10980.	2.390

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.512	1.202	15.82	6.818	.1199	5.936
Stddev	.499	3.684	2.13	3.113	.2104	1.124
%RSD	14.21	306.5	13.48	45.66	175.5	18.94

#1	3.159	< .0000	14.32	9.019	<.0000	6.731
#2	3.864	3.807	17.33	4.617	.2686	5.141

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	7166.	.5297	341.5	.4494	2.420
Stddev	.5872	40.	.6995	1.5	.0708	1.567
%RSD	47.21	.5547	132.1	.4512	15.76	64.76

#1	<.0000	7138.	.0351	342.6	.4995	1.312
#2	<.0000	7195.	1.024	340.4	.3994	3.528

Elem	Tl1908	V_3093	W_2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	92.94	1.918	129.9	3178.
Stddev	3.190	4.21	.215	.2	129.
%RSD	141.0	4.532	11.20	.1388	4.069

#1	< .0000	95.92	2.070	130.0	3270.
#2	< .0000	89.96	1.766	129.7	3087.

: 00329

Method: SPEX

Sample Name: 110830062-011B,IW

Operator:

Comment:

Run Time: 10/11/11 13:03 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	<.0000	4596.	4864.	12.88	<.0000	19.04
Stddev	3.174	60.	29.	.39	.8236	1.28
%RSD	1589.	1.297	.6042	3.006	2.772	6.731
#1	<.0000	4554.	4843.	13.15	<.0000	18.13
#2	2.045	4638.	4884.	12.61	<.0000	19.94
Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	125.7	.1991	<.0000	173700.	.5090	6.283
Stddev	.8	.2798	.1863	861.	.0082	.165
%RSD	.6217	140.5	4.207	.4960	1.616	2.625
#1	125.1	.0013	<.0000	173100.	.5032	6.400
#2	126.2	.3970	<.0000	174300.	.5148	6.167
Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	17.70	11260.	<.0000	6110.	<.0000
Stddev	13.73	.23	94.	3.247	82.	71.56
%RSD	110.1	1.275	.8377	67.01	1.345	4.122
#1	<.0000	17.54	11200.	<.0000	6051.	<.0000
#2	<.0000	17.86	11330.	<.0000	6168.	<.0000
Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45020.	247.1	.9537	21890.	23180.	19.45
Stddev	215.	1.7	.1085	268.	324.	.12
%RSD	.4769	.6860	11.37	1.223	1.398	.6392
#1	44870.	245.9	.8770	21700.	22950.	19.36
#2	45170.	248.3	1.030	22080.	23400.	19.54
Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	34.02	14.22	25.63	46.22	<.0000	3.177
Stddev	.94	.21	11.73	.60	.3366	1.560
%RSD	2.764	1.475	45.77	1.303	103.1	49.10
#1	33.36	14.37	17.33	46.65	<.0000	2.074
#2	34.69	14.08	33.92	45.80	<.0000	4.280
Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	12120.	1.872	415.2	1.651	54.00
Stddev	2.153	16.	.600	4.5	1.345	.08
%RSD	70.75	.1288	32.02	1.083	81.47	.1571
#1	<.0000	12110.	1.448	412.0	.6999	53.94
#2	<.0000	12130.	2.296	418.4	2.602	54.06
Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391	
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}	
Units	ppb	ppb	ppb	ppb	ppb	
Avg	<.0000	22.96	18.62	78.81	2410.	
Stddev	1.175	1.15	.21	.36	181.	
%RSD	51.99	5.012	1.153	.4619	7.525	
#1	<.0000	23.77	18.78	78.55	2539.	
#2	<.0000	22.14	18.47	79.06	2282.	

Method: SPEX

Sample Name: 110830062-012B,IW

Operator:

Comment:

Run Time: 10/11/11 13:09 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	2.250	<.0000	67.82	2.551	1.294	596.9
Stddev	1.443	18.41	15.29	.185	.793	.5
%RSD	64.14	11.59	22.55	7.235	61.33	.0900

#1	1.230	< .0000	57.01	2.420	.7326	597.3
#2	3.271	< .0000	78.64	2.681	1.855	596.5

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	42.63	<.0000	<.0000	99890.	.1049	.1372
Stddev	.23	.0181	3.191	356.	.1275	.1355
%RSD	.5349	7.482	123.3	.3567	121.6	98.78

#1	42.47	<.0000	< .0000	99640.	.0147	.2330
#2	42.80	<.0000	< .0000	100100.	.1950	.0414

Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	9.094	325.3	.5547	11100.	<.0000
Stddev	10.80	.000	.6	.6615	56.	3.571
%RSD	82.02	.0010	.1997	119.2	.5077	.6101

#1	< .0000	9.094	324.8	1.022	11060.	< .0000
#2	< .0000	9.094	325.7	.0870	11140.	< .0000

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14640.	57.40	<.0000	7100.	6953.	6.367
Stddev	13.	.02	.6352	43.	6.	.106
%RSD	.0890	.0306	531.1	.6033	.0887	1.673

#1	14630.	57.39	<.0000	7070.	6949.	6.443
#2	14640.	57.42	.3295	7130.	6958.	6.292

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.110	1.454	12.81	3.906	.3728	4.299
Stddev	.556	2.818	.00	.201	.3156	1.349
%RSD	50.12	193.8	.0009	5.139	84.66	31.37

#1	1.504	3.447	12.81	3.764	.1496	3.345
#2	.7167	< .0000	12.81	4.048	.5959	5.252

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8324	3441.	<.0000	402.0	<.0000	2.143
Stddev	.7830	88.	.1499	4.2	1.416	2.546
%RSD	94.07	2.550	42.39	1.048	703.2	118.8

#1	1.386	3379.	<.0000	399.0	< .0000	.3422
#2	.2787	3503.	<.0000	405.0	.7999	3.943

Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	1.181	29.73	2.450	256.9	2337.
Stddev	.672	1.87	1.128	.7	1370.
%RSD	56.86	6.295	46.03	.2598	58.63

#1	.7062	31.05	3.247	256.4	3306.
#2	1.656	28.40	1.652	257.4	1368.

: 00331

Method: SPEX

Sample Name: 110830062-013B, IW

Operator:

Comment:

Run Time: 10/11/11 13:14 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B_2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	3.475	178.7	383.7	3.780	<.0000	156.9
Stddev	6.639	2.4	7.7	1.662	.3510	1.8
%RSD	191.1	1.316	1.996	43.98	1050.	1.134
#1	8.169	177.1	389.1	4.955	<.0000	158.2
#2	<.0000	180.4	378.2	2.604	.2148	155.7
Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	112.2	<.0000	<.0000	72890.	.0351	.5414
Stddev	.7	.0450	.3033	310.	.0781	.4243
%RSD	.6303	37.46	43.64	.4252	222.8	78.37
#1	112.7	<.0000	<.0000	73110.	<.0000	.2414
#2	111.7	<.0000	<.0000	72670.	.0903	.8414
Elem	Cr3578	Cu3247	Fe2599	In2306	K_7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	7.306	733.2	.9374	6227.	<.0000
Stddev	6.887	4.827	2.3	.4807	27.	5.902
%RSD	142.1	66.08	.3185	51.28	.4295	.5677
#1	.0235	10.72	734.9	.5975	6246.	<.0000
#2	<.0000	3.892	731.6	1.277	6208.	<.0000
Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18130.	61.01	<.0000	13900.	14130.	4.686
Stddev	78.	.26	.1395	47.	35.	.568
%RSD	.4317	.4254	1391.	.3370	.2477	12.11
#1	18180.	61.19	.0886	13930.	14160.	4.285
#2	18070.	60.83	<.0000	13860.	14110.	5.087
Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.535	.2236	12.05	5.327	.2389	4.239
Stddev	.269	.7336	11.73	1.205	.4630	.450
%RSD	10.60	328.1	97.36	22.61	193.8	10.61
#1	2.345	.7424	3.753	4.475	.5663	4.557
#2	2.725	<.0000	20.34	6.178	<.0000	3.921
Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	6763.	.1057	407.8	.9500	6.780
Stddev	.1956	36.	.3997	4.0	.0707	.101
%RSD	47.31	.5291	378.0	.9775	7.446	1.492
#1	<.0000	6788.	.3884	405.0	1.000	6.852
#2	<.0000	6738.	<.0000	410.6	.9000	6.709
Elem	Tl1908	V_3093	W_2397	Zn2138	Zr3391	
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}	
Units	ppb	ppb	ppb	ppb	ppb	
Avg	1.181	33.40	2.981	315.1	3123.	
Stddev	1.008	.97	.751	1.1	622.	
%RSD	85.36	2.917	25.21	.3386	19.91	
#1	.4682	32.71	2.450	315.9	3562.	
#2	1.894	34.08	3.513	314.4	2683.	

Method: SPEX

Sample Name: 110830062-014B,IW

Operator:

Comment:

Run Time: 10/11/11 13:20 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	.6172	1377.	1601.	44.08	<.0000	<.0000
Stddev	3.175	4.	20.	.83	.8390	.6764
%RSD	514.4	.2676	1.239	1.883	3.051	1.378
#1	2.862	1374.	1587.	43.49	<.0000	<.0000
#2	< .0000	1379.	1615.	44.66	<.0000	<.0000
Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	132.9	<.0000	<.0000	95390.	.7038	7.333
Stddev	.2	.0090	3.189	469.	.1439	.024
%RSD	.1615	5.276	86.35	.4921	20.45	.3212
#1	132.8	<.0000	< .0000	95050.	.6021	7.350
#2	133.1	<.0000	< .0000	95720.	.8056	7.317
Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	21.77	11010.	<.0000	2192.	<.0000
Stddev	4.908	2.76	7.	.1202	4.	5.658
%RSD	178.3	12.67	.0663	2.143	.1703	.6296
#1	.7177	23.72	11010.	<.0000	2190.	< .0000
#2	< .0000	19.82	11020.	<.0000	2195.	< .0000
Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37510.	904.7	2.213	11480.	11510.	7.697
Stddev	248.	.6	.403	43.	44.	.231
%RSD	.6626	.0686	18.20	.3721	.3841	2.997
#1	37340.	905.2	2.498	11450.	11480.	7.860
#2	37690.	904.3	1.929	11510.	11550.	7.534
Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	33.66	5.066	21.86	46.36	<.0000	3.690
Stddev	.08	.974	2.13	1.00	.0421	.898
%RSD	.2278	19.22	9.762	2.165	47.52	24.34
#1	33.71	4.377	23.37	47.07	<.0000	3.055
#2	33.60	5.754	20.35	45.65	<.0000	4.325
Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5552	11900.	81.33	424.5	.9501	25.76
Stddev	2.153	61.	1.25	6.1	.0708	.10
%RSD	387.8	.5143	1.536	1.445	7.450	.3802
#1	< .0000	11860.	82.21	420.1	.9001	25.83
#2	2.078	11940.	80.45	428.8	1.000	25.69
Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391	
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}	
Units	ppb	ppb	ppb	ppb	ppb	
Avg	1.538	68.28	16.42	65.94	2319.	
Stddev	2.182	.23	.00	.01	155.	
%RSD	141.9	.3427	.0003	.0195	6.690	
#1	< .0000	68.45	16.42	65.93	2209.	
#2	3.081	68.12	16.42	65.95	2429.	

: 00333

Method: SPEX Sample Name: 110830062-015B,IW Operator:
 Comment:
 Run Time: 10/11/11 13:24 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B_2496
Line	328.068 {102}	394.401 {85}	396.152 {85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	4.495	<.0000	5.559	<.0000	2.319	<.0000
Stddev	3.464	35.60	3.307	2.678	.412	.6079
%RSD	77.05	15.90	59.48	154.1	17.77	1.280
#1	6.944	<.0000	7.898	<.0000	2.027	<.0000
#2	2.046	<.0000	3.221	.1557	2.610	<.0000
Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 {68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	177.2	<.0000	.0140	150300.	.1281	5.784
Stddev	.3	.0452	.9122	904.	.0206	.142
%RSD	.1931	15.78	6501.	.6015	16.07	2.451
#1	177.0	<.0000	.6591	149700.	.1136	5.683
#2	177.4	<.0000	<.0000	151000.	.1427	5.884
Elem	Cr3578	Cu3247	Fe2599	In2306	K_7664	Li6103
Line	357.869 {94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 {44}	610.362 {55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	5.844	556.7	<.0000	6270.	<.0000
Stddev	4.417	.460	1.9	.5410	9.	69.95
%RSD	85.23	7.865	.3436	85.09	.1484	4.387
#1	<.0000	5.519	555.3	<.0000	6263.	<.0000
#2	<.0000	6.169	558.0	<.0000	6277.	<.0000
Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 {87}	257.610 {131}	202.030 {166}	588.995 {57}	589.592 {57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53990.	565.5	<.0000	27550.	31330.	3.739
Stddev	35.	2.9	.0621	40.	236.	.452
%RSD	.0642	.5109	144.8	.1439	.7530	12.10
#1	54010.	563.4	<.0000	27530.	31170.	4.059
#2	53970.	567.5	.0010	27580.	31500.	3.419
Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.209	2.228	22.61	4.830	.2240	21.43
Stddev	.921	1.419	5.33	.502	.9888	.90
%RSD	41.70	63.69	23.59	10.39	441.5	4.202
#1	2.860	3.232	18.84	5.184	.9231	20.80
#2	1.558	1.225	26.39	4.475	<.0000	22.07
Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 {97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	8141.	.6711	555.7	.9502	<.0000
Stddev	.0002	40.	1.099	3.8	3.469	.0979
%RSD	.0137	.4897	163.8	.6904	365.1	14.06
#1	<.0000	8169.	<.0000	553.0	<.0000	<.0000
#2	<.0000	8113.	1.448	558.4	3.403	<.0000
Elem	Tl1908	V_3093	W_2397	Zn2138	Zr3391	
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 {99}	
Units	ppb	ppb	ppb	ppb	ppb	
Avg	2.012	146.4	1.178	111.5	2868.	
Stddev	2.183	3.0	.725	.3	414.	
%RSD	108.5	2.078	61.56	.2542	14.43	
#1	3.556	148.5	.6651	111.3	3160.	
#2	.4681	144.2	1.691	111.7	2575.	

Method: SPEX

Sample Name: CCV-3

Operator:

Comment:

Run Time: 10/11/11 13:31 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	445.6	2105.	2118.	2040.	<.0000	1993.
Stddev	6.1	17.	7.	9.	.2898	1.
%RSD	1.360	.8161	.3322	.4255	.5180	.0641

#1	441.3	2093.	2123.	2034.	<.0000	1994.
#2	449.9	2117.	2113.	2046.	<.0000	1992.

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	2145.	2172.	<.0000	2046.	2106.	2056.
Stddev	4.	2.	.4547	6.	2.	7.
%RSD	.1775	.1135	14.12	.3175	.0727	.3265

#1	2148.	2174.	<.0000	2042.	2107.	2060.
#2	2142.	2170.	<.0000	2051.	2105.	2051.

Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2066.	2176.	2058.	<.0000	9638.	2071.
Stddev	25.	6.	3.	.0601	11.	5.
%RSD	1.187	.2539	.1561	.1222	.1112	.2476

#1	2049.	2180.	2060.	<.0000	9645.	2075.
#2	2084.	2172.	2056.	<.0000	9630.	2068.

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2043.	2035.	2157.	2038.	1934.	2117.
Stddev	15.	6.	9.	14.	16.	4.
%RSD	.7399	.3184	.4122	.6851	.8043	.1803

#1	2032.	2039.	2150.	2048.	1945.	2119.
#2	2053.	2030.	2163.	2028.	1923.	2114.

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	2092.	27.14	19.67	<.0000	1849.
Stddev	.3453	15.	9.60	2.61	13.65	3.
%RSD	14.70	.7355	35.38	13.27	14.57	.1823

#1	<.0000	2103.	33.93	21.51	<.0000	1847.
#2	<.0000	2081.	20.35	17.82	<.0000	1852.

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2043.	3519.	2118.	2147.	<.0000	<.0000
Stddev	2.	16.	3.	7.	.3539	.6855
%RSD	.1005	.4534	.1581	.3396	.5172	49.35

#1	2042.	3507.	2120.	2152.	<.0000	<.0000
#2	2044.	3530.	2115.	2142.	<.0000	<.0000

Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	2008.	2149.	<.0000	2148.	2484.
Stddev	9.	1.	4.377	2.	595.
%RSD	.4348	.0432	.4669	.0753	23.94

#1	2001.	2148.	<.0000	2146.	2063.
#2	2014.	2150.	<.0000	2149.	2904.

: 00335

Method: SPEX

Sample Name: CCB-3

Operator:

Comment:

Run Time: 10/11/11 13:35 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	1.840	10.41	23.96	.1959	.8195	<.0000
Stddev	2.596	9.81	5.38	.2769	.1830	3.139
%RSD	141.1	94.28	22.43	141.3	22.33	3.843
#1	3.676	17.35	20.16	.3917	.6901	<.0000
#2	.0044	3.470	27.76	.0001	.9489	<.0000
Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	.2354	<.0000	<.0000	<.0000	<.0000	<.0000
Stddev	.0599	.1083	5.620	4.877	.0205	.0707
%RSD	25.44	50.16	5234.	49.01	23.57	49.92
#1	.1931	<.0000	3.867	<.0000	<.0000	<.0000
#2	.2778	<.0000	<.0000	<.0000	<.0000	<.0000
Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	2.919	<.0000	<.0000	<.0000	<.0000
Stddev	2.446	5.054	.2455	1.142	5.097	1.687
%RSD	141.4	173.1	57.12	92.67	23.48	20.76
#1	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000
#2	<.0000	6.492	<.0000	<.0000	<.0000	<.0000
Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	26.00	<.0000	8.387	<.0000	<.0000	.0815
Stddev	9.45	.0342	6.441	.0701	.3638	.1064
%RSD	36.34	72.62	76.80	.1082	.7636	130.6
#1	19.32	<.0000	12.94	<.0000	<.0000	.1567
#2	32.68	<.0000	3.832	<.0000	<.0000	.0063
Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2440	<.0000	33.16	.1420	<.0000	5.932
Stddev	.3645	2.390	16.00	1.305	.0211	.899
%RSD	149.4	130.7	48.25	919.0	6.748	15.16
#1	.5017	<.0000	21.85	1.065	<.0000	5.296
#2	<.0000	<.0000	44.48	<.0000	<.0000	6.567
Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	2.116	<.0000	8.931	<.0000	.0658
Stddev	1.174	2.672	1.299	5.746	.8491	.7829
%RSD	212.2	126.3	3675.	64.34	169.7	1190.
#1	.2767	.2267	.8829	12.99	<.0000	<.0000
#2	<.0000	4.005	<.0000	4.868	.1000	.6194
Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391	
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}	
Units	ppb	ppb	ppb	ppb	ppb	
Avg	<.0000	14.22	.5883	<.0000	1642.	
Stddev	2.853	.92	.2683	.1134	181.	
%RSD	96.17	6.476	45.61	98.53	11.01	
#1	<.0000	13.57	.7780	<.0000	1770.	
#2	<.0000	14.87	.3986	<.0000	1514.	

Method: SPEX

Sample Name: CCV-4

Operator:

Comment:

Run Time: 10/11/11 15:01 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	447.8	2134.	2148.	2042.	<.0000	2005.
Stddev	2.9	15.	15.	16.	.3661	1.
%RSD	.6450	.6909	.6934	.8046	.6501	.0652

#1	445.8	2123.	2137.	2031.	<.0000	2006.
#2	449.9	2144.	2158.	2054.	<.0000	2004.

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	2137.	2136.	<.0000	2155.	2144.	2116.
Stddev	4.	8.	2.126	9.	5.	6.
%RSD	.1803	.3583	217.6	.4029	.2520	.2745

#1	2134.	2130.	<.0000	2149.	2140.	2112.
#2	2139.	2141.	.5262	2161.	2147.	2120.

Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2059.	2164.	2094.	<.0000	9865.	2127.
Stddev	17.	10.	5.	.4207	10.	7.
%RSD	.8098	.4572	.2483	.8001	.1014	.3444

#1	2071.	2157.	2090.	<.0000	9858.	2122.
#2	2048.	2171.	2097.	<.0000	9872.	2132.

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2041.	2082.	2128.	2109.	2037.	2176.
Stddev	25.	1.	1.	6.	3.	8.
%RSD	1.204	.0707	.0300	.2844	.1710	.3581

#1	2024.	2081.	2129.	2114.	2040.	2170.
#2	2059.	2083.	2128.	2105.	2035.	2181.

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	2191.	28.65	21.09	<.0000	1852.
Stddev	.8633	2.	1.07	2.21	24.61	2.
%RSD	44.15	.0844	3.724	10.47	15.57	.1091

#1	<.0000	2192.	29.41	19.53	<.0000	1851.
#2	<.0000	2190.	27.90	22.65	<.0000	1853.

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2040.	3579.	2137.	2118.	<.0000	<.0000
Stddev	17.	85.	12.	6.	1.416	1.077
%RSD	.8536	2.380	.5566	.2711	1.878	33.77

#1	2028.	3519.	2145.	2122.	<.0000	<.0000
#2	2053.	3639.	2129.	2114.	<.0000	<.0000

Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	2047.	2181.	<.0000	2171.	2118.
Stddev	8.	3.	1.073	9.	1008.
%RSD	.3853	.1507	.1105	.4235	47.61

#1	2042.	2179.	<.0000	2164.	2831.
#2	2053.	2183.	<.0000	2177.	1405.

: 00337

Method: SPEX

Sample Name: CCB-4

Operator:

Comment:

Run Time: 10/11/11 15:12 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B_2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	.4116	<.0000	17.53	<.0000	.1832	<.0000
Stddev	2.884	6.748	14.46	.8308	1.022	.3620
%RSD	700.6	47.15	82.49	66.99	557.7	.3977

#1	<.0000	<.0000	27.75	<.0000	.9057	<.0000
#2	2.451	<.0000	7.305	<.0000	<.0000	<.0000

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	.6777	<.0000	2.471	<.0000	<.0000	<.0000
Stddev	.0318	.0174	4.101	8.123	.0041	.0354
%RSD	4.694	.3700	166.0	354.9	14.17	70.70

#1	.7001	<.0000	5.370	3.455	<.0000	<.0000
#2	.6552	<.0000	<.0000	<.0000	<.0000	<.0000

Elem	Cr3578	Cu3247	Fe2599	In2306	K_7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	<.0000	<.0000	<.0000	45.03	<.0000
Stddev	5.399	3.443	.0031	.4206	6.36	.8032
%RSD	1530.	51.69	.6353	14.77	14.11	5.808

#1	3.465	<.0000	<.0000	<.0000	49.52	<.0000
#2	<.0000	<.0000	<.0000	<.0000	40.53	<.0000

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23.99	<.0000	<.0000	<.0000	<.0000	.0188
Stddev	23.61	.0513	.1703	1.735	.3282	.2306
%RSD	98.40	63.48	9.663	4.616	2.850	1228.

#1	40.68	<.0000	<.0000	<.0000	<.0000	.1818
#2	7.299	<.0000	<.0000	<.0000	<.0000	<.0000

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	<.0000	24.86	2.413	.2380	3.866
Stddev	.5562	.7330	6.40	.502	.3785	1.124
%RSD	227.7	33.16	25.74	20.80	159.0	29.06

#1	.1490	<.0000	29.39	2.058	.5056	3.072
#2	<.0000	<.0000	20.34	2.768	<.0000	4.661

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	<.0000	<.0000	1.888	<.0000	<.0000
Stddev	3.033	13.29	.3496	2.681	.4247	1.468
%RSD	487.3	41.86	49.50	142.0	32.64	132.2

#1	<.0000	<.0000	<.0000	3.784	<.0000	<.0000
#2	1.522	<.0000	<.0000	<.0000	<.0000	<.0000

Elem	Tl1908	V_3093	W_2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	13.42	.6642	<.0000	1185.
Stddev	4.531	2.12	.3221	.0233	568.
%RSD	224.6	15.78	48.49	7.401	47.95

#1	1.186	11.92	.4365	<.0000	783.3
#2	<.0000	14.91	.8920	<.0000	1587.

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Method: SPEX Sample Name: CCV-5

Operator:

Comment:

Run Time: 10/11/11 16:06 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	451.3	2154.	2165.	2082.	<.0000	1991.
Stddev	.9	10.	7.	1.	.2735	10.
%RSD	.1913	.4553	.3432	.0683	.4669	.5029

#1	450.7	2147.	2159.	2083.	<.0000	1984.
#2	451.9	2161.	2170.	2081.	<.0000	1998.

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	2136.	2152.	<.0000	2197.	2162.	2143.
Stddev	2.	11.	1.062	7.	6.	8.
%RSD	.0918	.5185	44.59	.3213	.2556	.3512

#1	2135.	2144.	<.0000	2202.	2158.	2138.
#2	2137.	2160.	<.0000	2192.	2166.	2148.

Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2062.	2180.	2116.	<.0000	10010.	2190.
Stddev	4.	11.	4.	1.083	28.	5.
%RSD	.2136	.4843	.2124	2.137	.2765	.2467

#1	2059.	2173.	2113.	<.0000	9994.	2186.
#2	2065.	2188.	2119.	<.0000	10030.	2194.

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2083.	2099.	2123.	2161.	2118.	2182.
Stddev	4.	5.	11.	1.	1.	9.
%RSD	.1809	.2613	.4952	.0530	.0411	.4300

#1	2080.	2095.	2115.	2162.	2119.	2176.
#2	2085.	2103.	2130.	2160.	2117.	2189.

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	2150.	12.05	20.73	<.0000	1869.
Stddev	.9594	10.	3.20	.50	3.515	1.
%RSD	54.76	.4655	26.56	2.419	3.316	.0343

#1	<.0000	2143.	14.32	20.38	<.0000	1869.
#2	<.0000	2157.	9.789	21.09	<.0000	1870.

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2076.	3607.	2163.	2126.	<.0000	<.0000
Stddev	7.	56.	4.	5.	4.744	.0980
%RSD	.3141	1.549	.1865	.2338	6.755	2.944

#1	2071.	3567.	2166.	2122.	<.0000	<.0000
#2	2080.	3646.	2160.	2129.	<.0000	<.0000

Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	2097.	2100.	<.0000	2173.	1112.
Stddev	4.	8.	3.527	7.	776.
%RSD	.1984	.3782	.3582	.3271	69.73

#1	2094.	2095.	<.0000	2168.	1661.
#2	2100.	2106.	<.0000	2178.	563.9

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Method: SPEX Sample Name: CCB-5

Operator:

Comment:

Run Time: 10/11/11 16:12 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	6.534	9.541	22.79	2.219	1.078	<.0000
Stddev	11.54	1.223	5.38	1.846	.213	2.416
%RSD	176.6	12.82	23.61	83.18	19.79	2.734

#1	< .0000	10.41	18.99	.9139	1.229	< .0000
#2	14.70	8.677	26.60	3.524	.9274	< .0000

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	1.043	<.0000	3.974	<.0000	.0872	<.0000
Stddev	.231	.1155	3.797	2.705	.1275	.1708
%RSD	22.18	2.532	95.55	25.24	146.2	241.2

#1	1.207	<.0000	1.289	< .0000	.1773	.0499
#2	.8797	<.0000	6.658	< .0000	<.0000	<.0000

Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	1.781	<.0000	<.0000	132.3	<.0000
Stddev	3.908	2.986	.1681	1.021	4.0	3.735
%RSD	563.4	167.7	41.11	77.52	3.046	15.70

#1	2.070	3.892	<.0000	< .0000	135.1	< .0000
#2	< .0000	< .0000	<.0000	< .0000	129.4	< .0000

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15.98	<.0000	7.215	<.0000	39.81	.9656
Stddev	8.50	.0324	5.002	3.296	2.04	.2571
%RSD	53.20	72.70	69.32	49.91	5.134	26.62

#1	21.99	<.0000	10.75	< .0000	38.36	.7838
#2	9.966	<.0000	3.678	< .0000	41.25	1.147

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1357	1.810	30.14	<.0000	.4460	5.613
Stddev	.2873	1.287	1.06	.7024	.3783	.899
%RSD	211.7	71.13	3.502	98.97	84.83	16.02

#1	.3389	2.720	30.89	<.0000	.1785	6.249
#2	<.0000	.8996	29.40	<.0000	.7136	4.977

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	<.0000	<.0000	<.0000	.2003	.0657
Stddev	1.467	18.64	1.548	5.365	.4244	.3919
%RSD	124.8	111.7	548.2	54320.	211.9	596.4

#1	< .0000	< .0000	.8122	3.784	.5004	.3428
#2	< .0000	< .0000	< .0000	< .0000	<.0000	<.0000

Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	14.06	.6262	<.0000	2153.
Stddev	4.865	.27	2.469	.0668	1266.
%RSD	1369.	1.928	394.2	6.687	58.77

#1	3.085	14.25	2.372	<.0000	3048.
#2	< .0000	13.87	< .0000	<.0000	1259.

Method: SPEX Sample Name: CRI-2

Operator:

Comment:

Run Time: 10/11/11 16:21 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	16.12	8.674	14.32	21.35	<.0000	<.0000
Stddev	3.17	4.907	.83	1.02	.3660	1.135
%RSD	19.69	56.57	5.766	4.758	17.14	1.241

#1	13.87	5.204	14.90	20.63	<.0000	<.0000
#2	18.36	12.14	13.73	22.06	<.0000	<.0000

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	.7673	4.309	3.652	<.0000	10.17	104.4
Stddev	.0387	.063	2.127	2.166	.01	.4
%RSD	5.046	1.462	58.24	63.01	.1216	.3551

#1	.7399	4.353	2.148	<.0000	10.16	104.7
#2	.7947	4.264	5.155	<.0000	10.18	104.2

Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.77	41.89	.7860	<.0000	55.73	<.0000
Stddev	1.47	2.75	.0239	1.142	.68	1.323
%RSD	7.433	6.575	3.045	45.55	1.218	7.108

#1	20.80	43.84	.8029	<.0000	56.21	<.0000
#2	18.73	39.95	.7691	<.0000	55.25	<.0000

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	33.34	30.55	<.0000	<.0000	<.0000	86.60
Stddev	6.61	.24	.1239	3.659	1.857	.04
%RSD	19.83	.7774	9.429	6.303	21.07	.0515

#1	28.66	30.72	<.0000	<.0000	<.0000	86.56
#2	38.01	30.38	<.0000	<.0000	<.0000	86.63

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.017	8.830	14.31	1.562	<.0000	109.4
Stddev	.153	2.633	17.06	4.115	.9674	2.9
%RSD	15.09	29.82	119.2	263.5	203.3	2.671

#1	.9083	6.968	26.37	<.0000	<.0000	111.4
#2	1.125	10.69	2.246	4.471	.2083	107.3

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.578	2.104	.5650	2.700	<.0000	1.242
Stddev	3.717	13.29	.3496	1.532	4.034	.489
%RSD	43.34	631.7	61.88	56.75	90.57	39.39

#1	11.21	11.50	.3178	1.617	<.0000	.8963
#2	5.949	<.0000	.8123	3.784	<.0000	1.588

Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	21.48	86.66	<.0000	42.59	2318.
Stddev	6.54	1.40	2.066	.26	207.
%RSD	30.47	1.619	4.507	.6008	8.915

#1	16.85	85.67	<.0000	42.77	2464.
#2	26.11	87.65	<.0000	42.41	2172.

Method: SPEX

Sample Name: ICSA-2

Operator:

Comment:

Run Time: 10/11/11 16:25 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B_2496
Line	328.068 {102}	394.401 {85}	396.152 {85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	<.0000	559100.	488600.	<.0000	<.0000	<.0000
Stddev	1.154	1161.	1029.	6.812	.7446	.1691
%RSD	14.89	.2077	.2106	6.811	.1226	.1607

#1	<.0000	559900.	487900.	<.0000	<.0000	<.0000
#2	<.0000	558300.	489400.	<.0000	<.0000	<.0000

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 {68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	1.616	<.0000	<.0000	440500.	.4650	<.0000
Stddev	.183	.1262	.3539	772.	.0535	.1768
%RSD	11.33	2.815	1.138	.1751	11.50	20.22

#1	1.746	<.0000	<.0000	441100.	.5029	<.0000
#2	1.487	<.0000	<.0000	440000.	.4272	<.0000

Elem	Cr3578	Cu3247	Fe2599	In2306	K_7664	Li6103
Line	357.869 {94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 {44}	610.362 {55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	<.0000	143000.	<.0000	41.34	<.0000
Stddev	9.322	2.756	132.	3.178	5.79	28.13
%RSD	544.2	12.11	.0921	3.432	14.01	2.224

#1	<.0000	<.0000	142900.	<.0000	45.43	<.0000
#2	4.879	<.0000	143100.	<.0000	37.24	<.0000

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 {87}	257.610 {131}	202.030 {166}	588.995 {57}	589.592 {57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	512400.	<.0000	<.0000	<.0000	31.66	<.0000
Stddev	386.	.1000	.0155	5.445	6.51	.0084
%RSD	.0753	5.231	.8184	450.2	20.57	.1368

#1	512700.	<.0000	<.0000	2.641	36.27	<.0000
#2	512100.	<.0000	<.0000	<.0000	27.05	<.0000

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	601.0	<.0000	15.07	801.0	<.0000	<.0000
Stddev	4.1	4.151	5.33	3.2	.5069	3.615
%RSD	.6876	1.021	35.40	.3964	1.706	43.61

#1	603.9	<.0000	11.30	803.2	<.0000	<.0000
#2	598.0	<.0000	18.84	798.7	<.0000	<.0000

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 {97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	<.0000	<.0000	11.65	13.06	<.0000
Stddev	.2913	18.62	.5492	8.05	.64	1.664
%RSD	.9379	111.8	64.81	69.13	4.870	15.60

#1	<.0000	<.0000	<.0000	17.34	12.61	<.0000
#2	<.0000	<.0000	<.0000	5.953	13.51	<.0000

Elem	Tl1908	V_3093	W_2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 {99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	<.0000	236.3	<.0000	<.0000
Stddev	1.177	213.3	1.8	.0353	362.1
%RSD	9.097	.7638	.7687	.1922	30.40

#1	<.0000	<.0000	237.6	<.0000	<.0000
#2	<.0000	<.0000	235.0	<.0000	<.0000

: 00342

Method: SPEX

Sample Name: ICSAB-2

Operator:

Comment:

Run Time: 10/11/11 16:29 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B_2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	1110.	538600.	471300.	<.0000	<.0000	<.0000
Stddev	4.	744.	2352.	.2618	.6866	.0000
%RSD	.3578	.1380	.4989	.2679	.1121	.0000

#1	1112.	538100.	469700.	<.0000	<.0000	<.0000
#2	1107.	539200.	473000.	<.0000	<.0000	<.0000

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	519.4	477.2	<.0000	424500.	1060.	458.0
Stddev	.8	.0	1.853	1118.	.	.5
%RSD	.1521	.0045	9.336	.2634	.0155	.1042

#1	519.9	477.2	<.0000	425300.	1060.	457.6
#2	518.8	477.2	<.0000	423700.	1060.	459.3

Elem	Cr3578	Cu3247	Fe2599	In2306	K_7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	595.6	502.8	139300.	<.0000	20.67	<.0000
Stddev	6.8	4.2	80.	.0602	5.91	2.888
%RSD	1.147	.8292	.0577	.0631	28.58	.2402

#1	600.4	499.9	139300.	<.0000	24.85	<.0000
#2	590.7	505.8	139200.	<.0000	16.49	<.0000

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	495800.	452.6	<.0000	<.0000	<.0000	916.5
Stddev	962.	.0	.0774	2.756	2.830	2.7
%RSD	.1940	.0089	2.162	6.565	31.33	.2933

#1	495100.	452.7	<.0000	<.0000	<.0000	914.6
#2	496500.	452.6	<.0000	<.0000	<.0000	918.4

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	589.8	1191.	12.81	789.5	<.0000	<.0000
Stddev	.9	6.	4.27	4.9	.4838	3.135
%RSD	.1464	.4646	33.33	.6232	.6065	134.2

#1	590.4	1187.	9.789	793.0	<.0000	<.0000
#2	589.1	1195.	15.83	786.1	<.0000	<.0000

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	<.0000	<.0000	6.767	.4997	<.0000
Stddev	4.404	18.62	1.249	.383	1.133	1.078
%RSD	14.37	111.8	73.65	5.662	226.7	9.975

#1	<.0000	<.0000	<.0000	7.037	<.0000	<.0000
#2	<.0000	<.0000	<.0000	6.496	1.301	<.0000

Elem	Tl1908	V_3093	W_2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	<.0000	44.71	990.6	<.0000
Stddev	5.204	1.023	.05	.5	517.0
%RSD	27.56	.0038	.1197	.0485	31.02

#1	<.0000	<.0000	44.75	990.3	<.0000
#2	<.0000	<.0000	44.67	991.0	<.0000

Method: SPEX

Sample Name: CCV-6

Operator:

Comment:

Run Time: 10/11/11 16:39 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	443.5	2132.	2102.	1977.	<.0000	1965.
Stddev	1.4	17.	7.	.	.6711	18.
%RSD	.3261	.7779	.3351	.0142	1.214	.9326

#1	444.5	2144.	2107.	1976.	<.0000	1952.
#2	442.5	2120.	2097.	1977.	<.0000	1977.

Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	2105.	2115.	<.0000	2115.	2101.	2075.
Stddev	.	4.	1.211	14.	9.	14.
%RSD	.0077	.1785	59.53	.6412	.4455	.6826

#1	2105.	2118.	<.0000	2125.	2094.	2065.
#2	2105.	2113.	<.0000	2106.	2107.	2085.

Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1992.	2139.	2049.	<.0000	9560.	2089.
Stddev	37.	9.	12.	.7214	8.	7.
%RSD	1.849	.4292	.5848	1.529	.0827	.3509

#1	2018.	2132.	2040.	<.0000	9565.	2094.
#2	1966.	2145.	2057.	<.0000	9554.	2083.

Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1998.	2044.	2117.	1973.	1966.	2103.
Stddev	23.	13.	16.	9.	6.	15.
%RSD	1.134	.6539	.7752	.4541	.3009	.7091

#1	1982.	2035.	2106.	1966.	1961.	2092.
#2	2015.	2054.	2129.	1979.	1970.	2113.

Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	2164.	17.33	17.47	<.0000	1810.
Stddev	.4604	10.	19.21	.10	9.973	6.
%RSD	25.88	.4735	110.8	.5752	4.943	.3356

#1	<.0000	2157.	3.753	17.40	<.0000	1806.
#2	<.0000	2171.	30.91	17.54	<.0000	1814.

Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1987.	3500.	2097.	2117.	<.0000	<.0000
Stddev	8.	.	10.	15.	1.275	1.077
%RSD	.4141	.0007	.4650	.7056	1.601	33.78

#1	1981.	3500.	2090.	2106.	<.0000	<.0000
#2	1992.	3500.	2104.	2127.	<.0000	<.0000

Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}
Units	ppb	ppb	ppb	ppb	ppb
Avg	1985.	2039.	<.0000	2091.	1533.
Stddev	2.	12.	8.192	12.	698.
%RSD	.0843	.5961	.8592	.5748	45.54

#1	1986.	2031.	<.0000	2082.	2027.
#2	1984.	2048.	<.0000	2099.	1039.

Method: SPEX

Sample Name: CCB-6

Operator:

Comment:

Run Time: 10/11/11 16:54 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Ag3280	Al3944	Al3961	As1937	Au2427	B 2496
Line	328.068 {102}	394.401 { 85}	396.152 { 85}	193.759 {173}	242.795 {138}	249.678 {135}
Units	ppb	ppm	ppm	ppb	ppb	ppb
Avg	2.861	4.335	31.85	<.0000	.8518	<.0000
Stddev	8.079	9.812	11.58	.6462	.1373	.8453
%RSD	282.3	226.4	36.36	58.24	16.11	.8887
#1	8.574	<.0000	40.04	<.0000	.9488	<.0000
#2	<.0000	11.27	23.66	<.0000	.7547	<.0000
Elem	Ba4934	Be3130	Bi1902	Ca3179	Cd2288	Co2286
Line	493.409 { 68}	313.042 {107}	190.241 {176}	317.933 {105}	228.802 {147}	228.616 {147}
Units	ppb	ppb	ppm	ppb	ppb	ppb
Avg	.7276	<.0000	4.726	<.0000	<.0000	<.0000
Stddev	.1306	.0796	3.646	1.084	.0904	.0471
%RSD	17.94	1.770	77.13	31.51	94.31	51.40
#1	.8199	<.0000	2.149	<.0000	<.0000	<.0000
#2	.6353	<.0000	7.304	<.0000	<.0000	<.0000
Elem	Cr3578	Cu3247	Fe2599	In2306	K 7664	Li6103
Line	357.869 { 94}	324.754 {103}	259.940 {129}	230.606 {146}	766.490 { 44}	610.362 { 55}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.818	<.0000	<.0000	.2552	9.910	<.0000
Stddev	14.24	1.377	.1288	2.765	3.568	.3139
%RSD	372.9	84.52	22.70	1083.	36.00	1.806
#1	13.89	<.0000	<.0000	<.0000	12.43	<.0000
#2	<.0000	<.0000	<.0000	2.210	7.387	<.0000
Elem	Mg3838	Mn2576	Mo2020	Na5889	Na5895	Ni2316
Line	383.826 { 87}	257.610 {131}	202.030 {166}	588.995 { 57}	589.592 { 57}	231.604 {145}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28.00	<.0000	<.0000	<.0000	<.0000	.7901
Stddev	4.72	.0018	.2632	.7359	.3881	.1685
%RSD	16.85	2.319	17.30	.7407	.7496	21.32
#1	24.66	<.0000	<.0000	<.0000	<.0000	.6709
#2	31.33	<.0000	<.0000	<.0000	<.0000	.9092
Elem	Os2255	Pb2203	Pd3242	Pt2036	Pt2144	Sb2068
Line	225.585 {149}	220.353 {152}	324.270 {103}	203.646 {164}	214.423 {156}	206.833 {162}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7727	2.372	12.81	<.0000	<.0000	5.455
Stddev	.5370	.367	25.60	2.108	.4416	3.370
%RSD	69.50	15.48	199.9	1486.	102.4	61.78
#1	1.152	2.631	30.91	<.0000	<.0000	3.072
#2	.3929	2.112	<.0000	1.349	<.0000	7.839
Elem	Se1960	Si2881	Sn1899	Sr3464	Te2142	Ti3361
Line	196.090 {171}	288.158 {116}	189.989 {176}	346.446 { 97}	214.281 {157}	336.121 {100}
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	<.0000	<.0000	<.0000	8.931	.9006	1.381
Stddev	.8805	47.84	.3496	2.684	1.274	.098
%RSD	84.88	322.8	26.05	30.05	141.4	7.079
#1	<.0000	<.0000	<.0000	10.83	1.801	1.312
#2	<.0000	19.01	<.0000	7.033	<.0000	1.450
Elem	Tl1908	V 3093	W 2397	Zn2138	Zr3391	
Line	190.864 {176}	309.311 {108}	239.709 {140}	213.856 {157}	339.198 { 99}	
Units	ppb	ppb	ppb	ppb	ppb	
Avg	<.0000	16.38	2.144	<.0000	2062.	
Stddev	.5035	1.20	.376	.0059	517.	
%RSD	12.85	7.344	17.52	.6199	25.08	
#1	<.0000	15.53	1.879	<.0000	2428.	
#2	<.0000	17.23	2.410	<.0000	1697.	

: 00345

Adirondack Environmental Services, Inc

PREP BATCH REPORT

Page: 1 of 1

Prep Start Date: 9/8/2011 3:15:43 P

Prep End Date: 9/8/2011 4:45:00 P

Prep Factor Units:

mL / mL

Prep Batch 29262 Prep Code: 3010A Technician William Blom

Sample ID	Matrix	pH	Res Cl	SampAmt	Sol Added	Fin Vol	factor	PrepStart	PrepEnd
110830062-001B	Water		No	100	0	100	1.000	9/8/2011	9/8/2011
110830062-002B	Water		No	100	0	100	1.000	9/8/2011	9/8/2011
110830062-003B	Water		No	100	0	100	1.000	9/8/2011	9/8/2011
110830062-004B	Water		No	100	0	100	1.000	9/8/2011	9/8/2011
110830062-006B	Water		No	100	0	100	1.000	9/8/2011	9/8/2011
110830062-008BDP	Water		No	100	0	100	1.000	9/8/2011	9/8/2011
110830062-006BMS	Water		No	100	0	100	1.000	9/8/2011	9/8/2011
110830062-007B	Water		No	100	0	100	1.000	9/8/2011	9/8/2011
110830062-008B	Water		No	100	0	100	1.000	9/8/2011	9/8/2011
110830062-009B	Water		No	100	0	100	1.000	9/8/2011	9/8/2011
110830062-010B	Water		No	100	0	100	1.000	9/8/2011	9/8/2011
110830062-011B	Water		No	100	0	100	1.000	9/8/2011	9/8/2011
110830062-012B	Water		No	100	0	100	1.000	9/8/2011	9/8/2011
110830062-013B	Water		No	100	0	100	1.000	9/8/2011	9/8/2011
110830062-014B	Water		No	100	0	100	1.000	9/8/2011	9/8/2011
110830062-015B	Water		No	100	0	100	1.000	9/8/2011	9/8/2011
LCS-29262			No	100	0	100	1.000	9/8/2011	9/8/2011
MB-29262			No	100	0	100	1.000	9/8/2011	9/8/2011

Number	Reagent Name
2160	Hydrochloric Acid-metals
2169	Nitric Acid

Spk ID	Spike Name	SampType	AmtAdd
MT-LCS-W-ICP	LCS-W-ICP		50
MT-SPIKE-ICP	ICPSSWS-M		0.5

HotBlock/Bath Temp _____ °C

BathStartTime: _____ StopTime _____

9/8/2011

INORGANIC
ANALYSIS

U.S. EPA - CLP

1

CONVENTIONALS ANALYSIS DATA SHEET

MW-1R

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water):

Water

Lab Sample ID:

110830062-001

Level (Low/Med):

Low

Date Received:

8/30/11

% Solids:

0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	110			SM 3500 CR D

Comments

FORM I - CONV

: 00348

U.S. EPA - CLP

1

CONVENTIONALS ANALYSIS DATA SHEET

MW-4

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Lab Sample ID: 110830062-002

Level (Low/Med): Low

Date Received: 8/30/11

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	20	U		SM 3500 CR D

Comments

FORM I - CONV

: 00340

U.S. EPA - CLP

1

CONVENTIONALS ANALYSIS DATA SHEET

MW-4R

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Lab Sample ID: 110830062-003

Level (Low/Med): Low

Date Received: 8/30/11

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	20	U		SM 3500 CR D

Comments

U.S. EPA - CLP

1

CONVENTIONALS ANALYSIS DATA SHEET

MW-10

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Lab Sample ID: 110830062-004

Level (Low/Med): Low

Date Received: 8/30/11

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	20	U		SM 3500 CR D

Comments

FORM I - CONV

: 00351

U.S. EPA - CLP

1

CONVENTIONALS ANALYSIS DATA SHEET

MW-11

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: ABC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water):

Water

Lab Sample ID:

110830062-014

Level (Low/Med):

Low

Date Received:

9/1/11

% Solids:

0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	20	U		SM 3500 CR D

Comments

FORM I - CONV

: 00352

U.S. EPA - CLP

1

CONVENTIONALS ANALYSIS DATA SHEET

MW-13

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Lab Sample ID: 110830062-006

Level (Low/Med): Low

Date Received: 9/1/11

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	20	U		SM 3500 CR D

Comments

U.S. EPA - CLP

1

CONVENTIONALS ANALYSIS DATA SHEET

MW-14

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Lab Sample ID: 110830062-008

Level (Low/Med): Low

Date Received: 9/1/11

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	20	U		SM 3500 CR D

Comments

U.S. EPA - CLP

1

CONVENTIONALS ANALYSIS DATA SHEET

MW-15

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Lab Sample ID: 110830062-010

Level (Low/Med): Low

Date Received: 9/1/11

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 NO3 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 NO2 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	20	U		SM 3500 CR D

Comments

U.S. EPA - CLP

1

CONVENTIONALS ANALYSIS DATA SHEET

MW-16

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Lab Sample ID: 110830062-009

Level (Low/Med): Low

Date Received: 9/1/11

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	20	U		SM 3500 CR D

Comments

U.S. EPA - CLP

1

CONVENTIONALS ANALYSIS DATA SHEET

MW-17

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Lab Sample ID: 110830062-012

Level (Low/Med): Low

Date Received: 9/1/11

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	20	U		SM 3500 CR D

Comments

U.S. EPA - CLP

1

CONVENTIONALS ANALYSIS DATA SHEET

MW-18

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: ABC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water):

Water

Lab Sample ID:

110830062-013

Level (Low/Med):

Low

Date Received:

9/1/11

% Solids:

0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	20	U		SM 3500 CR D

Comments

U.S. EPA - CLP

1

CONVENTIONALS ANALYSIS DATA SHEET

MW-19

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water):

Water

Lab Sample ID:

110830062-007

Level (Low/Med):

Low

Date Received:

9/1/11

% Solids:

0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 NO3 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 NO2 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	20	U		SM 3500 CR D

Comments

U.S. EPA - CLP

1

CONVENTIONALS ANALYSIS DATA SHEET

MW-20

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Lab Sample ID: 110830062-011

Level (Low/Med): Low

Date Received: 9/1/11

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	20	U		SM 3500 CR D

Comments

FORM I - CONV

: 00360

U.S. EPA - CLP

1

CONVENTIONALS ANALYSIS DATA SHEET

MW-DUP

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Lab Sample ID: 110830062-015

Level (Low/Med): Low

Date Received: 9/1/11

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 NO3 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)				SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 NO2 B
Specific Conductance				EPA 120.1
Cyanide				EPA 335.4
pH				SM 4500 H+ B
Turbidity				EPA 180.1
Color				SM 2120B
Hexavalent Chromium	20	U		SM 3500 CR D

Comments

FORM I - CONV

: 00361

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units : ug/L

Analyte	Initial Calibration			Continuing Calibration			Method
	TRUE	Found	% R	TRUE	Found	% R	
TKN as N							SM 4500 NH3 C
Ammonia, as N							EPA 350.1
Nitrate							SM 4500 N03 H
COD							EPA 410.4
BOD 5							SM 5210B
TOC							SM 5310C
TDS							SM 2540C
Sulfate							EPA 300.0
Alkalinity							SM 2320B
Total Phenols							EPA 420.1
Chloride							EPA 300.0
Bromide							EPA 300.0
Nitrite							SM 4500 N02 B
Specific Conductance							EPA 120.1
Cyanide							EPA 335.4
pH							SM 4500 H+ B
Turbidity							EPA 180.1
Color							SM 2120B
Hexavalent Chromium	200	206	103	200	205	103	SM 3500 CR D

Comments

FORM II (Part 1) - CONV

: 00362

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units : ug/L

Analyte	Initial Calibration			Continuing Calibration			Method
	TRUE	Found	% R	TRUE	Found	% R	
TKN as N							SM 4500 NH3 C
Ammonia, as N							EPA 350.1
Nitrate							SM 4500 N03 H
COD							EPA 410.4
BOD 5							SM 5210B
TOC							SM 5310C
TDS							SM 2540C
Sulfate							EPA 300.0
Alkalinity							SM 2320B
Total Phenols							EPA 420.1
Chloride							EPA 300.0
Bromide							EPA 300.0
Nitrite							SM 4500 N02 B
Specific Conductance							EPA 120.1
Cyanide							EPA 335.4
pH							SM 4500 H+ B
Turbidity							EPA 180.1
Color							SM 2120B
Hexavalent Chromium	200	211	106	200	211	106	SM 3500 CRD

Comments

FORM II (Part 1) - CONV

: 00363

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units : ug/L

Analyte	Continuing Calibration			Continuing Calibration			Method
	TRUE	Found	% R	TRUE	Found	% R	
TKN as N							SM 4500 NH3 C
Ammonia, as N							EPA 350.1
Nitrate							SM 4500 N03 H
COD							EPA 410.4
BOD 5							SM 5210B
TOC							SM 5310C
TDS							SM 2540C
Sulfate							EPA 300.0
Alkalinity							SM 2320B
Total Phenols							EPA 420.1
Chloride							EPA 300.0
Bromide							EPA 300.0
Nitrite							SM 4500 N02 B
Specific Conductance							EPA 120.1
Cyanide							EPA 335.4
pH							SM 4500 H+ B
Turbidity							EPA 180.1
Color							SM 2120B
Hexavalent Chromium	200	208	104				SM 3500 CR D

Comments

FORM II (Part 1) - CONV

: 00364

U.S. EPA - CLP

2A

CRQL STANDARDS FOR CONVENTIONALS

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units :

ug/L

Analyte	Initial Calibration			Initial Calibration			Method
	TRUE	Found	% R	TRUE	Found	% R	
TKN as N							SM 4500 NH3 C
Ammonia, as N							EPA 350.1
Nitrate							SM 4500 N03 H
COD							EPA 410.4
BOD 5							SM 5210B
TOC							SM 5310C
TDS							SM 2540C
Sulfate							EPA 300.0
Alkalinity							SM 2320B
Total Phenols							EPA 420.1
Chloride							EPA 300.0
Bromide							EPA 300.0
Nitrite							SM 4500 N02 B
Specific Conductance							EPA 120.1
Cyanide							EPA 335.4
pH							SM 4500 H+ B
Turbidity							EPA 180.1
Color							SM 2120B
Hexavalent Chromium	20	20	100	20	25	125	SM 3500 CR D

Comments

FORM II (Part 2) - CONV

: 00365

U.S. EPA - CLP

3
BLANKS

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Preparation Blank Matrix:

Water

Preparation Blank Concentration Units:

ug/L

Analyte	Initial Calib. Blank(ug/L)	C	Continuing Calibration						Prep. Blank		Method
			1	C	2	C	3	C	C	C	
TKN as N											SM 4500 NH3 C
Ammonia, as N											EPA 350.1
Nitrate											SM 4500 N03 H
COD											EPA 410.4
BOD 5											SM 5210B
TOC											SM 5310C
TDS											SM 2540C
Sulfate											EPA 300.0
Alkalinity											SM 2320B
Total Phenols											EPA 420.1
Chloride											EPA 300.0
Bromide											EPA 300.0
Nitrite											SM 4500 N02 B
Specific Conductance											EPA 120.1
Cyanide											EPA 335.4
pH											SM 4500 H+ B
Turbidity											EPA 180.1
Color											SM 2120B
Hexavalent Chromium	20	U	20	U					20	U	SM 3500 CR D

Comments

FORM III - CONV

: 00366

U.S. EPA - CLP

3
BLANKS

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.: SDG No.: MW-1R

Preparation Blank Matrix:

Water

Preparation Blank Concentration Units:

ug/L

Analyte	Initial Calib. Blank(ug/L)	C	Continuing Calibration						Prep. Blank		Method
			1	C	2	C	3	C	C	C	
TKN as N											SM 4500 NH3 C
Ammonia, as N											EPA 350.1
Nitrate											SM 4500 N03 H
COD											EPA 410.4
BOD 5											SM 5210B
TOC											SM 5310C
TDS											SM 2540C
Sulfate											EPA 300.0
Alkalinity											SM 2320B
Total Phenols											EPA 420.1
Chloride											EPA 300.0
Bromide											EPA 300.0
Nitrite											SM 4500 N02 B
Specific Conductance											EPA 120.1
Cyanide											EPA 335.4
pH											SM 4500 H+ B
Turbidity											EPA 180.1
Color											SM 2120B
Hexavalent Chromium	20	U	20	U	20	U			20	U	SM 3500 CR D

Comments

FORM III - CONV

: 00367

U.S. EPA - CLP

5

SPIKE SAMPLE RECOVERY

MW-4R

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.:

AEC 1102- SAS No.:

SDG No.: MW-1R

Matrix (soil/water):

Water

Level (Low/Med):

Low

% Solids:

0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Control Limit % R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	% R	Q	M
TKN as N									
Ammonia, as N									
Nitrate									
COD									
BOD 5									
TOC									
TDS									
Sulfate									
Alkalinity									
Total Phenols									
Chloride									
Bromide									
Nitrite									
Specific Conductance									
Cyanide									
pH									
Turbidity									
Color									
Hexavalent Chromium	75-125	197		20	U	200	99		

Comments

FORM V (Part 1) - CONV

: 00358

U.S. EPA - CLP

5

SPIKE SAMPLE RECOVERY

MW-13

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.:

AEC 1102 SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Level (Low/Med): Low

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Control Limit % R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	% R	Q	M
TKN as N									
Ammonia, as N									
Nitrate									
COD									
BOD 5									
TOC									
TDS									
Sulfate									
Alkalinity									
Total Phenols									
Chloride									
Bromide									
Nitrite									
Specific Conductance									
Cyanide									
pH									
Turbidity									
Color									
Hexavalent Chromium	75-125	196		20	U	200	98		

Comments

FORM V (Part 1) - CONV

: 00369

U.S. EPA - CLP

6

DUPLICATES

MW-4R

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Level (Low/Med): Low

% Solids for Sample: 0.0

% Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Control Limit % R	Sample (S)	C	Duplicate (D)	C	% R	Q	M
TKN as N								
Ammonia, as N								
Nitrate								
COD								
BOD 5								
TOC								
TDS								
Sulfate								
Alkalinity								
Total Phenols								
Chloride								
Bromide								
Nitrite								
Specific Conductance								
Cyanide								
pH								
Turbidity								
Color								
Hexavalent Chromium	20	197		213		7.8		

Comments

Hexavalent Chromium duplicate from MS/MSD

FORM VI - CONV

: 00370

U.S. EPA - CLP

6

DUPLICATES

MW-13

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.: AEC 1102

SAS No.:

SDG No.: MW-1R

Matrix (soil/water): Water

Level (Low/Med):

Low

% Solids for Sample: 0.0

% Solids for Duplicate:

0.0

Concentration Units (ug/L or mg/Kg dry weight):

ug/L

Analyte	Control Limit % R	Sample (S)	C	Duplicate (D)	C	% R	Q	M
TKN as N								
Ammonia, as N								
Nitrate								
COD								
BOD 5								
TOC								
TDS								
Sulfate								
Alkalinity								
Total Phenols								
Chloride								
Bromide								
Nitrite								
Specific Conductance								
Cyanide								
pH								
Turbidity								
Color								
Hexavalent Chromium	20	196		197		0.5		

Comments

Hexavalent Chromium duplicate from MS/MSD

FORM VI - CONV

: 00371

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.:

AEC 1102

SAS No.:

SDG: MW-1R

Aqueous LCS Source:

Solid LCS Source:

Concentration Units : ug/L

Analyte	Aqueous (ug/L)			Solid (mg/Kg)					
	TRUE	Found	% R	TRUE	Found	C	Limits	% R	
TKN as N									
Ammonia, as N									
Nitrate									
COD									
BOD 5									
TOC									
TDS									
Sulfate									
Alkalinity									
Total Phenols									
Chloride									
Bromide									
Nitrite									
Specific Conductance									
Cyanide									
pH									
Turbidity									
Color									
Hexavalent Chromium	200	214	107						

Comments

FORM VII - CONV

: 00372

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

LAB NAME: Adirondack Environmental

CONTRACT:

LAB CODE: AES

Case No.:

AEC 1102

SAS No.:

SDG: MW-1R

Aqueous LCS Source:

Solid LCS Source:

Concentration Units :

ug/L

Analyte	Aqueous (ug/L)			Solid (mg/Kg)					
	TRUE	Found	% R	TRUE	Found	C	Limits	% R	
TKN as N									
Ammonia, as N									
Nitrate									
COD									
BOD 5									
TOC									
TDS									
Sulfate									
Alkalinity									
Total Phenols									
Chloride									
Bromide									
Nitrite									
Specific Conductance									
Cyanide									
pH									
Turbidity									
Color									
Hexavalent Chromium	200	210	105						

Comments

FORM VII - CONV

: 00373

RAW QC

DATA

Cr⁶⁺

AECOM CLR

D-12

AF ADU/PLA	SAMPLE	VOL (mL)	Obs	mg/L	TIME	DATE/INIT
	ICB	50	.000/.000	-.004/-.004	8:20	8.31.11
2511PLA	ICV (.2mg/L)		.171	.206		103% _{SL}
1611PL	LCS (.2mg/L)		.178	.214		107% _{SL}
	CR1 (.02mg/L)		.019	.020		100% _{SL}
	0830 062-1		.095	.113		
	-2		.005	.002		
	-3		.003	.000		
	-3MS (.2mg/L)		.164	.197		98.5% _{SL}
	-3msd		.177	.213		106.5% _{SL}
	-4		.006	.004		7.8% _{SL}
	CCV		.170	.205		
	CCB		.000	-.004		
	ICB	50	.000/.000	-.004/-.004	11:15	9.1.11 JG
2511PLA	ICV (.2mg/L)		.175	.211		105.5% _{SL}
2611PLA	LCS (.2mg/L)		.174	.210		105% _{SL}
R	CR1 (.02mg/L)		.023	.025		125% _{SL}
2111PLA	0830 062-6		.007	.005		
	-6MS(2)		.163	.196		98% _{SL}
	-6msd		.164	.197		98.5% _{SL}
	-7		.004	.001		51% _{SL}
	-8		.001	-.002		
	-9		.001	-.002		
	CCV		.175	.211		
	CCB		.001	-.002		
	-10		.001	-.002		
	-11		.002	-.001		
	-12		.003	.012		
	-13		.013	.012		
	-14		.005	.002		
	-15		.000	-.004		
	CCV		.173	.208		
	CCB		.004	.001		