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Ms. Ruth Curley
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**Subject: Results from August 2017 Water Quality Samples
Former Ward Products Site, 61 Edson Street, Amsterdam, NY
NYSDEC Site ID #429004**

Dear Ms. Curley,

This letter provides a summary of the results from the groundwater quality samples collected from the Former Ward Products Site (the Site) in August and October 2017. This letter provides the data from the monitoring event. Analysis and discussion of the results will be included in the next Periodic Review Report (PRR), due January 2022. This letter also reports on 2017 Sediment Basin Monitoring.

Groundwater Monitoring

On January 23, 2017, NYSDEC issued a letter modifying the previously approved "Site Management Plan, Ward Products Site, Site # 4-29-004, Amsterdam, New York" (SMP) (AECOM, February 2011) and these modifications were implemented in 2017. To summarize the modifications:

- Sampling frequency was decreased to annually for seven wells, biannually for six other wells in odd numbers years (beginning in 2017), and biannually for six different wells in even numbers years (beginning in 2018).
- Analysis for hexavalent chromium was removed from the program.
- Analysis for total chromium was reduced to a subset of wells.

The modified SMP requires annual measurement of groundwater levels in 22 monitoring wells plus the groundwater recovery wells, and collection of groundwater quality samples for analysis of volatile organic compounds (VOCs) and total chromium in 2017 from 13 of the 22 monitoring wells, as listed below:

Monitoring Well	VOCs	Total Cr	Monitoring Well	VOCs	Total Cr
MW-1R	X	X	MW-9	X	X
MW-4	X	X	MW-10	X	
MW-4R	X	X	MW-12	X	
MW-5	X		MW-13	X	
MW-6	X	X	MW-16	X	
MW-7	X	X	MW-17	X	
MW-8	X	X			

On August 21 and 22, 2017, AECOM conducted the annual groundwater monitoring event for 2017. During this event, monitoring wells MW-2, MW-7, MW-9, and MW-18 could not be located due to overgrowth of vegetation. After the event was conducted, field staff returned to Site on October 5, 2017, located the wells, and sampled wells MW-7 and MW-9 (wells MW-2 and MW-18 were only scheduled to be gauged for water level during this event). A summary of the August/October 2017 concentrations of trichloroethylene (TCE)

and total and hexavalent chromium (the primary constituents of concern) is provided in Table 1. Groundwater elevation data and field water quality data from the August 2017 event are summarized in Table 2. The results of laboratory analyses (over time) for select constituents in the 13 wells sampled during this event are summarized in Table 3. The Form 1 laboratory data sheets for the August and October 2017 events are included in Attachment A.

Prior to sampling the wells, depth to groundwater was measured using a water level indicator. All wells were purged and sampled with a submersible or peristaltic pump using methods specified by the USEPA for low flow/low stress sampling [USEPA, 1996]. Samples were analyzed for VOCs by Method 8260C and total chromium by Method E200.7. A duplicate sample (DUP) was collected from well MW-4 for quality assurance/quality control (QA/QC).

Sediment Basin Monitoring

The three sedimentation basins (located off of Route 5, Chapman Road, and Sam Stratton Road) were inspected for sediment accumulation and sampled to determine if the sediments need to be removed for off-site disposal. AECOM field technicians inspected all three sediment basins on August 21-22, 2017.

The results of the inspection indicate that the Chapman Road sedimentation basin had a sediment accumulation of more than 4 inches since the last inspection. Therefore, a sediment sample was collected from the Chapman Road sedimentation basin and analyzed for the required metals (total cadmium, chromium, nickel, and zinc). Table 4 summarizes the sediment analytical results from August 2017. The cadmium, chromium, and nickel results were greater than the NYSDEC Sediment Criteria for Protection of Benthic Organisms Lowest Effect Level (LEL) and Severe Effect Level (SEL). Therefore in accordance with Section 3.5.1 of the SMP, AECOM now is seeking contractor proposals so as to obtain client approval to schedule removal of the sediment in the Chapman Road basin, following the procedures set forth in the Excavation Plan (Section 2.4 of the SMP).

If you have any questions regarding this letter, please feel free to contact Laura Warren at 978.905.2449 or by e-mail.

Yours sincerely,



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Attachments: Table 1 – Summary of Primary Constituents
Table 2 – Summary of Field Measurements
Table 3 – Summary of Analytical Results
Table 4 – August 2017 Settling Basin Sediment Sampling Results
Attachment A – August and October 2017 Groundwater Laboratory Results *(only included with the original)*

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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: August 21-22 & October 5, 2017

Well Number	Trichloroethene µg/L	Total Chromium µg/L
NYSDEC GQS	5	50
MW-1R	78	155
MW-4*	65.5	14.35
MW-4R	19000 N	16.9
MW-5	43	NA
MW-6	440	14.1
MW-7**	110	<5
MW-8	14	<5
MW-9**	25	<5
MW-10	210	NA
MW-12	39	NA
MW-13	100	NA
MW-16	<5	NA
MW-17	<5	NA

Notes:

BOLD values are greater than NYSDEC Groundwater Quality Standards

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

NA - samples were not analyzed for total chromium

N - matrix spike recovery below accepted limits

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

** Wells MW-7 and MW-9 could not be located during the August event. They were subsequently sampled on 10/5/2017.

Semiannual groundwater monitoring conducted according to the "Site Management Plan, Ward Products Site, Site # 4-29-004, Amsterdam, New York" (AECOM, February 2011), as modified by NYSDEC's letter dated January 23, 2017 amending the Site Management Plan.

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

Sampling Date: August 21-22 & October 5, 2017

Monitoring Well	Top of Casing Elevation (Ft)	Depth to Water (Ft)	Water Elevation (Ft)	Turbidity (NTU)	D.O. (mg/L)	ORP (mV)	Conductivity (uohms/cm)	pH (SU)	Temperature (°C)
MW-1	471.55	5.73	465.82	-	-	-	-	-	-
MW-1R	471.46	5.85	465.61	11.9	1.77	49.6	0.416	7.35	17.01
MW-2	471.20	NM [b]	NM	-	-	-	-	-	-
MW-3	473.03	7.90	465.13	-	-	-	-	-	-
MW-4	470.17	7.95	462.22	3.05	0.73	-37.7	0.474	7.04	17.22
MW-4R	470.29	20.69	449.60	3.07	1.33	167.6	0.942	7.29	16.50
MW-5	475.62	17.20	458.42	6.60	5.83	65.3	0.507	7.22	13.39
MW-6	470.97	20.60	450.37	23.5	0.61	91.0	0.802	7.35	16.09
MW-7 [c]	469.14	NM [b]	NM	0.88	2.73	-80.5	0.688	7.28	14.60
MW-8	467.38	17.05	450.33	6.44	2.78	15.6	0.821	7.29	17.70
MW-9 [c]	465.43	NM [b]	NM	9.36	2.30	-97.3	0.845	7.26	18.19
MW-10	466.77	19.95	446.82	10.1	0.63	82.0	0.558	7.35	15.43
MW-11	485.37	16.12	469.25	-	-	-	-	-	-
MW-12	468.18	22.06	446.12	7.98	1.20	78.5	0.473	7.27	15.59
MW-13	462.12	16.00	446.12	24.6	0.42	-64.8	0.564	7.36	16.19
MW-14	453.66	10.09	443.57	-	-	-	-	-	-
MW-15	445.20	8.62	436.58	-	-	-	-	-	-
MW-16	449.50	21.70	427.80	9.54	0.56	-34.6	0.150	6.96	11.89
MW-17	450.84	7.45	443.39	26.0	0.32	-101.9	0.419	7.22	15.15
MW-18	463.76	NM [b]	NM	-	-	-	-	-	-
MW-19	441.64	30.88	410.76	-	-	-	-	-	-
MW-20 [a]	442.46	23.16	419.30	-	-	-	-	-	-
RW-01	472.08	70.40	401.68	-	-	-	-	-	-
RW-02*	465.57	35.65	429.92	-	-	-	-	-	-

Notes:

- Not Sampled

NM - water level not measured

*RW-02 was formerly IW-01. RW-02 TOC estimated.

[a] MW-20 was observed to be damaged in August 2014, and was repaired and re-surveyed in November 2014.

[b] Well could not be located during the sampling event.

[c] Wells MW-7 and MW-9 could not be located during the August 2017 event. They were subsequently located and sampled on 10/5/2017.

Semiannual groundwater monitoring conducted according to the "Site Management Plan, Ward Products Site, Site # 4-29-004, Amsterdam, New York" (AECOM, February 2011), as modified by NYSDEC's letter dated January 23, 2017 amending the Site Management Plan.

Table 3
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	<.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
5/23/12	0.06	0.0582	<5	<5	<5	<10	<5	<5	<5	<5	58	<10
8/22/12	0.37	0.855	4.3 J	<5	<5	<10	<5	5.1	<5	<5	130	<10
5/13/13	0.08	0.117	2.1 J	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	53	< 10
8/28/13	0.2	0.195	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	86	< 10
5/20/14	0.047	0.0634	<5	<5	<5	<10	<5	<5	<5	<5	46	<10
8/13/14	0.08	0.107	<5	<5	<5	<10	<5	<5	<5	<5	61	<10
5/26/15	0.08	0.097	<5	<5	<5	<10	<5	<5	<5	<5	54	<10
8/25/15	0.24	0.241	<5	<5	<5	<10	<5	<5	<5	<5	88	<10
5/10/16	0.065	0.059	<5	<5	<5	<10	<5	<5	<5	<5	44	<10
8/18/16	0.27	0.27	<5	<5	<5	<10	<5	<5	<5	<5	79	<10
8/22/17	NA	0.155	<5	<5	<5	<10	<5	<5	<5	<5	78	<10

Table 3
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
5/22/12	<0.02	0.0082 B	<5	<5	<5	<10	<5	<5	<5	<5	110	<10
8/22/12	<0.02	0.0748	<5	<5	<5	<10	<5	20	<5	31	1900 D	<10
5/13/13	< 0.02	0.0285	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	130	< 10
8/26/13	< 0.02	0.0027 B	< 5.0	< 5.0	< 5.0	< 10	< 5.0	47	< 5.0	< 5.0	190	< 10
5/20/14	<0.02	<0.0027	<5	<5	<5	<10	<5	<5	<5	<5	32	<10
8/11/14	<0.02	0.0171	<5	<5	<5	<10	<5	17	<5	<5	66	<10
5/26/15	<0.02	0.0031 B	<5	<5	<5	<10	<5	6.8	<5	<5	65	<10
8/25/15*	<0.020	<0.0099	<5	<5	<5	<10	<5	34	<5	<5	110	<10
5/10/16	<0.020	0.0186	<5	<5	<5	<10	<5	<5	<5	<5	50	<10
8/18/16	<0.020	0.0148	<5	<5	<5	<10	<5	44	<5	<5	140	<10
8/21/17	NA	0.0149	<5	<5	<5	<10	<5	34	<5	<5	86	<10
8/21/17*	NA	0.0138	<5	<5	<5	<10	<5	42	<5	<5	45	<10

Table 3
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
5/22/12	0.04	0.111	<1200	<1200	<1200	<2500	<1200	<1200	<1200	1000 J	37000	<2500
8/22/12	<0.02	<0.0051	<1200	<1200	350 J	<2500	<1200	<1200	<1200	1300	41000	<2500
5/13/13	< 0.02	0.122	< 1200	< 1200	< 1200	< 2500	< 1200	< 1200	< 1200	400 J	12000	< 2500
8/26/13	< 0.02	0.0196	< 1000	< 1000	1200	< 2000	< 1000	< 1000	< 1000	940 J	27000	< 2000
5/20/14	<0.02	0.095	<1000	<1000	<1000	<2000	<1000	<1000	<1000	1400	40000 E	<2000
8/11/14	<0.02	0.042	<2000	<2000	<2000	<4000	<2000	<2000	<2000	<2000	22000	<4000
5/26/15	<0.02	0.0123	<1000	<1000	<1000	<2000	<1000	<1000	<1000	<1000	24000	<2000
8/25/15	<0.020	<0.0099	<1000	<1000	<1000	<2000	<1000	<1000	<1000	1100	29000	<2000
5/10/16	<0.020	<0.0099	<1000	<1000	<1000	<2000	<1000	<1000	<1000	<1000	12000	<2000
8/18/16	<0.020	0.0104	<500	<500	<500	<1000	<500	<500	<500	<500	9200	<1000
8/21/17	NA	0.0169	<500	<500	<500	<1000	<500	<500	<500	660	19000	<1000

Table 3
Relevant Groundwater Analytical Results
61 Edson Street, Amsterdam, NY
NYSDEC Site #4-029-004

	MW-5											
	METALS (mg/L)		VOCs (ug/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
9/5/1997	0.0065	<0.0066	<5	<5	10	<10	<5	NA	NA	<5	180	<10
11/3/1997	0.004J	<0.0060	<5	<5	<5	<10	<5	NA	NA	<5	290	<10
5/7/1998	<0.02	<0.005	<25	<25	<25	<50	<25	NA	NA	<25	460	<50
8/25/1998	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	210	<10
11/17/1998	<0.02	0.006	<25	<25	<25	<50	<25	NA	NA	<25	440	<50
5/24/1999	<0.02	<0.005	<10	<10	<10	<20	<10	NA	NA	<10	280	<20
8/23/1999	<0.02	0.013	<10	<10	<10	<20	<10	NA	NA	<10	280	<20
11/15/1999	<0.02	<0.005	<25	<25	<25	<50	<25	NA	NA	<25	300	<50
5/23/2000	<0.02	0.006	<10	<10	<10	<20	<10	NA	NA	<10	280	<20
8/23/2000	<0.02	<0.005	<15	<15	<15	<30	<15	NA	NA	<15	270	<30
5/22/2001	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	110	<10
8/30/2001	<0.02	0.008	<10	<10	<10	<20	<10	NA	NA	<10	250	<20
6/18/2002	<0.02	0.005	<12	<12	<12	<25	<12	<12	<12	<12	190	<25
9/16/2002	<0.02	0.006	<5	<5	<5	NA	<5	6.3	<5	<5	120	<10
9/11/2003	<0.02	0.005	<20	<20	<20	NA	<20	<20	<20	<20	260	<20
5/19/2004	NA	NA	<20	<20	<20	<20	<20	7J	<20	<20	250	<20
8/17/2004	NA	NA	<50	<50	5J	<50	<50	16J	<50	<50	480	<50
5/11/2005	<0.020	0.0059B	<20	<20	<20	<20	<20	7J	<20	<20	250	<20
9/22/2005	<0.020	<0.0023	<50	<50	5J	<50	<50	16J	<50	<50	480	<50
5/22/2006	NA	NA	<10	<10	<10	<10	<10	6J	<10	<10	210E	<20
8/23/2006	NA	NA	<20	<20	<20	<20	<20	9J	<20	<20	230	<20
5/30/2007	NA	NA	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	120	<10.0
8/6/2007	NA	NA	<5	<5	<5	<10	<5	6.2	<5	<5	140	<10
6/25/2008	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	68	<10
8/26/2008	NA	NA	<25	<25	<25	<50	<25	<25	<25	<25	650	<50
5/20/2009	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	77	<10
8/12/2009	NA	NA	<5	<5	<5	<10	<5	7	<5	<5	120	<10
5/6/2010	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	60	<10
8/31/2010	NA	NA	<5	<5	<5	<10	<5	8	<5	<5	63	<10
8/22/17	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	43	<10

Table 3
Relevant Groundwater Analytical Results
61 Edson Street, Amsterdam, NY
NYSDEC Site #4-029-004

	MW-6											
	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
9/4/1997	0.0187	<0.030	<25	<25	<25	NA	<25	<25	<25	48	4900	<25
11/3/1997	<0.00040	<0.0066	<5	<5	<5	NA	<5	<5	<5	22J	3200	<10
5/7/1998	0.26	0.29	<100	<100	<100	<200	<100	NA	NA	<100	11000	<200
8/26/1998	0.18	0.14	<500	<500	<500	<1000	<500	NA	NA	<500	14000	<1000
11/17/1998	0.1	0.108	<500	<500	<500	<1000	<500	NA	NA	<500	10000	<1000
5/24/1999	0.23	0.212	<500	<500	<500	1000	<500	NA	NA	<500	12000	<1000
8/24/1999	0.17	0.159	<250	<250	<250	<500	<250	NA	NA	<250	5700	<500
11/15/1999	0.2	0.129	<250	<250	<250	<500	<250	NA	NA	<250	5400	<500
5/23/2000	0.28	0.271	<250	<250	<250	<500	<250	NA	NA	<250	7000	<500
8/23/2000	0.27	0.237	<500	<500	<500	<1000	<500	NA	NA	<500	3500	<1000
5/21/2001	0.12	0.104	<250	<250	<250	<500	<250	NA	NA	<250	6000	<500
8/29/2001	0.08	0.15	<100	<100	<100	<200	<100	NA	NA	<100	3000	<200
6/18/2002	0.14	0.136	<500	<500	<500	<1000	<500	NA	NA	<500	3000	<1000
9/16/2002	0.08	0.096	<100	<100	<100	<200	<100	NA	NA	<100	1700	<200
9/10/2003	0.14	0.112	<100	<100	<100	<200	<100	<100	<100	<100	2800	<200
5/19/2004	0.14	0.145	<250	<250	<250	<200	<250	<250	<250	<250	3500	<500
8/18/2004	0.14	0.152	<100	<100	<100	NA	<100	<100	<100	34J	1700	<100
5/11/2005	0.13	0.135	<200	<200	<200	<200	<200	<200	<200	<200	3400	<200
9/22/2005	0.04	0.0434	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	19000	<1000
5/22/2006	0.11	0.105	<200	<200	<200	<200	<200	<200	<200	48J	3700	<200
8/23/2006	0.07	0.0674	<200	<200	<200	<200	<200	<200	<200	<200	3800	<200
5/30/2007	0.041	0.091	<200	<200	<200	<200	<200	<200	<200	<200	2400	<200
8/6/2007	0.04	0.044	<100	<100	<100	<200	<100	<100	<100	<100	4000	<200
6/25/2008	0.04	0.01	<200	<200	<200	<200	<200	<200	<200	<200	3600	<200
8/26/2008	0.04	0.038	<250	<250	<250	<500	<250	<250	<250	<250	5700	<500
5/20/2009	0.06	0.0546	<250	<250	<250	<500	<250	<250	<250	<250	6400	<500
8/11/2009	0.05	0.0475	<100	<100	<100	<200	<100	<100	<100	71J	4000	<200
5/5/2010	<0.020	<0.0047	<100	<100	<100	<200	<100	<100	<100	<100	2300	<200
8/31/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8/22/17	NA	0.0141	<25	<25	<25	<50	<25	<25	<25	<25	440	<50

Table 3
Relevant Groundwater Analytical Results
61 Edson Street, Amsterdam, NY
NYSDEC Site #4-029-004

	MW-7											
	METALS (mg/L)		VOCs (ug/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
9/4/1997	0.018	<0.030	<5	<5	<5	NA	<5	<5	<5	<5	450	<5
11/4/1997	0.0065	0.0077J	<1	<1	<1	NA	<1	3J	<2	1J	450	<2
5/7/1998	0.18	0.188	<50	<50	<50	<100	<50	NA	NA	<50	730	<100
8/25/1998	0.08	0.057	<25	<25	<25	<50	<25	NA	NA	<25	800	<50
11/16/1998	0.07	0.079	<25	<25	<25	<50	<25	NA	NA	<25	360	<50
5/25/1999	0.13	0.087	<25	<25	<25	<50	<25	NA	NA	<25	1300	<50
8/23/1999	0.04	0.041	<25	<25	<25	<50	<25	NA	NA	<25	420	<50
11/15/1999	0.07	0.039	<25	<25	<25	<50	<25	NA	NA	<25	650	<50
5/23/2000	0.17	0.154	<25	<25	<25	<50	<25	NA	NA	<25	1800	<50
8/23/2000	0.07	0.066	<50	<50	<50	<100	<50	NA	NA	<50	680	<100
5/21/2001	0.12	0.127	<100	<100	<100	<200	<100	NA	NA	<100	2200	<200
8/29/2001	<0.02	0.068	<50	<50	<50	<100	<50	NA	NA	<50	600	<100
6/18/2002	0.07	0.068	<25	<25	<25	<50	<25	NA	NA	<25	600	<50
9/16/2002	0.04	0.048	<10	<10	<10	<20	<10	NA	NA	<10	280	<20
9/10/2003	0.06	0.057	<25	<25	<25	<50	<25	<25	<25	<25	750	<50
5/19/2004	0.04	0.025	<10	<10	<10	NA	<10	<10	<10	<10	210	<20
8/18/2004	<0.020	0.0232	<20	<20	<20	NA	<20	<20	<20	<20	250	<20
5/11/2005	<0.020	0.0397	<20	<20	<20	<20	<20	<20	<20	<20	270	<20
9/22/2005	<0.020	0.0232	<50	<50	<50	<50	<50	<50	<50	<50	790	<50
5/22/2006	0.05	0.105	<100	<100	<100	<100	<100	<100	<100	<100	1500	<100
8/23/2006	0.04	0.0442	<50	<50	<50	<50	<50	<50	<50	<50	990	<50
5/30/2007	0.046	0.046	<100	<100	<100	<100	<100	<100	<100	<100	1900	<100
8/6/2007	0.02	0.02	<25	<25	<25	<50	<25	<25	<25	<25	530	<50
6/25/2008	<0.02	0.017	<50	<50	<50	<50	<50	<50	<50	<50	730	<50
8/26/2008	0.02	0.022	<50	<50	<50	<100	<50	<50	<50	<50	1200	<100
5/21/2009	<0.02	0.0266	<50	<50	<50	<100	<50	<50	<50	<50	1700	<100
8/11/2009	0.03	0.0242	<10	<10	<10	<20	<10	<10	<10	<10	390	<20
5/6/2010	<0.020	<0.0047	<10	<10	<10	<20	<10	<10	<10	<10	210	<20
9/1/2010	<0.020	<0.0047	<5	<5	<5	<10	<5	<5	<5	<5	92	<10
10/5/2017 [a]	NA	<0.005	<5	<5	<5	<10	<5	<5	<5	<5	110	<10

Table 3
Relevant Groundwater Analytical Results
61 Edson Street, Amsterdam, NY
NYSDEC Site #4-029-004

	MW-8											
	METALS (mg/L)		VOCs (ug/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
9/4/1997	<0.0050	<0.030	<5	<5	<5	NA	<5	<5	<5	<5	51J	<5
11/4/1997	<0.00040	<0.0066	<1	<1	<1	NA	<1	<2	<2	<1	34	<2
5/7/1998	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	250	<10
8/25/1998	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	77	<10
11/16/1998	0.03	0.021	<5	<5	<5	<10	<5	NA	NA	<5	120	<10
5/24/1999	<0.02	0.005	<5	18	<5	<10	<5	NA	NA	<5	190	<10
8/23/1999	<0.02	0.009	<5	<5	<5	<10	<5	NA	NA	<5	61	<10
11/15/1999	<0.02	0.005	<50	<50	<50	<100	<50	NA	NA	<50	550	<100
5/23/2000	0.03	0.019	<10	<10	<10	<20	<10	NA	NA	<10	720	<20
8/23/2000	<0.02	0.006	<5	<5	<5	<10	<5	NA	NA	<5	130	<10
5/21/2001	<0.02	0.007	<10	<10	<10	<20	<10	NA	NA	<10	340	<20
8/29/2001	<0.02	0.009	<5	<5	<5	<10	<5	NA	NA	<5	55	<10
6/18/2002	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	170	<10
9/17/2002	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	32	<10
9/10/2003	<0.02	<0.005	<5	<5	<5	<10	<5	<5	<5	<5	130	<10
5/18/2004	NA	NA	<5	<5	<5	NA	<5	<5	<5	<5	74	<10
8/17/2004	NA	NA	<10	<10	<10	NA	<10	<10	<10	<10	180	<10
5/11/2005	NA	NA	<20	<20	<20	<20	<20	<20	<20	<20	320	<20
9/22/2005	<0.02	0.0083B	<10	<10	<10	<10	<10	2J	<10	<10	100	<10
5/22/2006	NA	NA	<20	<20	<20	<20	<20	<20	<20	<20	190	<20
8/23/2006	NA	NA	<10	<10	<10	<10	<10	2J	<10	<10	85	<10
5/30/2007	NA	NA	<20	<20	<20	<20	<20	<20	<20	<20	260	<20
8/6/2007	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	72	<10
6/25/2008	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	52	<10
8/26/2008	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	61	<10
5/19/2009	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	140	<10
8/12/2009	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	64	<10
5/6/2010	<0.020	<0.0047	<5	<5	<5	<10	<5	<5	<5	<5	80	<10
8/30/2010	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	23	<10
8/21/17	NA	<0.005	<5	<5	<5	<10	<5	<5	<5	<5	14	<10

Table 3
Relevant Groundwater Analytical Results
61 Edson Street, Amsterdam, NY
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	MW-9											
	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
1/22/1998	0.00051J	<0.0066	<1	<1	<1	NA	<1	<2	<2	<1	200	<2
5/8/1998	0.02	0.007	<5	<5	<5	<10	<5	NA	NA	<5	150	<10
8/26/1998	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	200	<10
11/17/1998	<0.02	0.006	<5	<5	<5	<10	<5	NA	NA	<5	180	<10
5/25/1999	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	180	<10
8/23/1999	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	200	<10
11/16/1999	<0.02	0.813	<5	<5	<5	<10	<5	NA	NA	<5	240	<10
5/23/2000	<0.02	0.006	<5	<5	<5	<10	<5	NA	NA	<5	190	<10
8/23/2000	<0.02	0.005	<5	<5	<5	<10	<5	NA	NA	<5	150	<10
5/22/2001	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	150	<10
8/30/2001	<0.02	<0.007	<5	<5	<5	<10	<5	NA	NA	<5	120	<10
6/18/2002	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	100	<10
9/18/2002	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	140	<10
9/11/2003	<0.02	<0.005	<5	<5	<5	<10	<5	<5	<5	<5	170	<10
5/19/2004	<0.02	<0.005	<5	<5	<5	NA	<5	<5	<5	<5	110	<10
8/18/2004	<0.020	0.011	<10	<10	<10	NA	<10	<10	<10	<10	160	<10
5/12/2005	<0.020	0.016	<10	<10	<10	<10	<10	1J	<10	<10	120	<10
9/22/2005	<0.020	0.0288	<10	<10	<10	<10	<10	<10	<10	<10	180	<10
5/23/2006	<0.020	<0.0037	<10	<10	<10	<10	<10	<10	<10	<10	110	<10
8/24/2006	<0.020	0.0047B	<10	<10	<10	<10	<10	<10	<10	<10	130	<10
5/30/2007	<0.020	0.0061 J	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	120	<10.0
8/6/2007	<0.02	0.557	<5	<5	<5	<10	<5	<5	<5	<5	150	<10
6/25/2008	<0.02	<0.005	<10	<10	<10	<10	<10	<10	<10	<10	100	<10
8/26/2008	<0.02	<0.005	<5	<5	<5	<10	<5	<5	<5	<5	120	<10
5/21/2009	<0.02	<0.0052	<5	<5	<5	<10	<5	<5	<5	<5	140	<10
8/12/2009	<0.02	<0.0052	<5	<5	<5	<10	<5	<5	<5	<5	110	<10
5/6/2010	<0.020	<0.0047	<5	<5	<5	<10	<5	<5	<5	<5	97	<10
9/1/2010	<0.020	<0.0047	<5	<5	<5	<10	<5	<5	<5	<5	120	<10
10/5/2017 [a]	NA	<0.005	<5	<5	<5	<10	<5	15	<5	<5	25	<10

Table 3
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	0.0146 J	<2	<2	5 J	NA	7 J	39	6 J	8 J	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
5/23/12	<0.02	<0.0051	<25	<25	<25	<50	<25	14 J	<25	<25	700	<50
8/22/12	<0.02	<0.0051	<50	<50	<50	<100	<50	18 J	<50	<50	980	<100
5/14/13	< 0.02	< 0.0027	< 10	< 10	< 10	< 20	< 10	6.1 J	< 10	< 10	240	< 20
8/28/13	< 0.02	0.0035 B	< 10	< 10	< 10	< 20	2.7 J	8.5 J	< 10	< 10	260	< 20
5/20/14	<0.02	0.010 B	<10	<10	<10	<20	<10	<10	<10	<10	230	<20
8/12/14	<0.02	0.0159	<10	<10	<10	<20	<10	<10	<10	<10	210	<20
5/26/15	<0.02	0.0088 B	<10	<10	<10	<20	<10	<10	<10	<10	250	<20
8/25/15	<0.020	<0.0099	<10	<10	<10	<20	<10	<10	<10	<10	290	<20
5/10/16	<0.020	<0.0099	<25	<25	<25	<50	<25	<25	<25	<25	550	<50
8/18/16	<0.020	<0.0069	<25	<25	<25	<50	<25	<25	<25	<25	510	<50
8/22/17	NA	NA	<10	<10	<10	<20	<10	<10	<10	<10	210	<20

Table 3
Relevant Groundwater Analytical Results
61 Edson Street, Amsterdam, NY
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MW-11												
	METALS (mg/L)		Carbon Tetrachloride	Chloro- benzene	Chloroform	Dichloro- difluoromethane	VOCs (µg/L)					
	Hexavalent Chromium	Total Chromium					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
5/24/12	<0.02	<0.0051	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/24/12	<0.02	<0.0051	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/13/13	< 0.02	< 0.0027	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
8/27/13	< 0.02	<0.0027	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
5/20/14	<0.02	0.0062 B	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/11/14	<0.02	<0.0028	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/27/15	<0.02	<0.0028	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/25/15	<0.020	<0.0099	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/10/16	<0.020	<0.0099	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/18/16	<0.020	<0.0069	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10

Table 3
Relevant Groundwater Analytical Results
61 Edson Street, Amsterdam, NY
NYSDEC Site #4-029-004

	MW-12											
	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
8/23/1999	<0.02	0.008	<5	<5	<5	<10	<5	NA	NA	<5	110	<10
11/16/1999	<0.02	0.005	<5	<5	<5	<10	<5	NA	NA	<5	120	<10
5/24/2000	<0.02	0.006	<5	<5	<5	<10	<5	NA	NA	<5	120	<10
8/22/2000	<0.02	<0.005	<5	<5	7	<10	<5	NA	NA	<5	83	<10
5/21/2001	<0.02	<0.005	<5	<5	7	<10	<5	NA	NA	<5	79	<10
8/30/2001	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	86	<10
6/19/2002	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	75	<10
9/17/2002	<0.02	<0.005	<5	<5	<5	<10	<5	NA	NA	<5	110	<10
9/11/2003	<0.02	<0.005	<5	<5	<5	<10	<5	9.8	<5	<5	120	<10
5/18/2004	NA	NA	<5	<5	<5	NA	<5	8.5	<5	<5	96	<10
8/17/2004	NA	NA	<10	<10	<10	NA	<10	<10	<10	<10	110	<10
5/12/2005	NA	NA	<10	<10	<10	<10	3J	6J	2J	<10	160	<10
9/23/2005	NA	NA	<10	<10	<10	<10	3J	6J	2J	<10	160	<10
5/23/2006	NA	NA	<20	<20	<20	<20	<20	10J	<20	<10	210	<10
8/24/2006	NA	NA	<20	<20	<20	<20	<20	13J	<20	<10	380	<10
5/30/2007	NA	NA	<10.0	<10.0	<10.0	<10.0	<10.0	5 J	<10.0	<10.0	170	<10.0
8/6/2007	NA	NA	<10	<10	<10	<20	<10	<10	<10	<10	270	<20
6/25/2008	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	120	<10
8/25/2008	NA	NA	<5	<5	<5	<10	<5	8.7	<5	<5	190	<10
5/20/2009	NA	NA	<5	<5	<5	<10	<5	5.7	<5	<5	140	<10
8/13/2009	NA	NA	<5	<5	<5	<10	<5	7.4	<5	<5	130	<10
5/7/2010	NA	NA	<5	<5	<5	<10	<5	4.4 J	<5	<5	93	<10
8/30/2010	NA	NA	<5	<5	<5	<10	<5	5.6	<5	<5	99	<10
8/22/17	NA	NA	<5	<5	<5	<10	<5	13	<5	<5	39	<10

Table 3
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MW-13												
	METALS (mg/L)		Carbon Tetrachloride	Chloro- benzene	Chloroform	Dichloro- difluoromethane	VOCs (µg/L)					
	Hexavalent Chromium	Total Chromium					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
5/23/12	<0.02	0.0076 B	<25	<25	<25	<50	15 J	69	13 J	<25	560	<50
8/23/12	<0.02	<0.0051	<25	<25	<25	<50	20 J	120	16 J	<25	850	<50
5/14/13	< 0.02	0.0053 B	< 10	< 10	< 10	< 20	5.7 J	39	6 J	< 10	390	< 20
8/28/13	< 0.02	<0.0027	< 25	< 25	< 25	< 50	< 25	51	< 25	< 25	320	< 50
5/21/14	<0.02	0.0117	<5	<5	<5	<10	<5	59	<5	<5	130	<10
8/12/14	<0.02	<0.0028	<5	<5	<5	<10	<5	69	<5	<5	26	<10
5/27/15	<0.02	<0.0028	<50	<50	<50	<100	<50	<50	<50	<50	480	<100
8/26/15	<0.020	0.0732	<50	<50	<50	<100	<50	<50	<50	<50	470	<100
5/10/16	<0.020	<0.0099	<25	<25	<25	<50	<25	40	<25	<25	390	<50
8/18/16	<0.020	<0.0069	<10	<10	<10	<20	<10	56	<10	<10	190	<20
8/22/17	NA	NA	<10	<10	<10	<20	<10	60	<10	<10	100	<20

Table 3
Relevant Groundwater Analytical Results
61 Edson Street, Amsterdam, NY
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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
5/23/12	<0.02	<0.0051	<5	<5	<5	<10	<5	<5	<5	<5	10	<10
8/23/12	<0.02	<0.0051	<5	<5	<5	<10	<5	<5	<5	<5	3.5 J	<10
5/14/13	< 0.02	< 0.0027	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
8/28/13	< 0.02	<0.0027	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
5/21/14	<0.02	<0.0027	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/12/14	<0.02	<0.0028	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/27/15	<0.02	<0.0028	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/25/15	<0.020	<0.0099	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/10/16	<0.020	<0.0099	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/19/16	<0.020	<0.0069	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10

Table 3
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
5/22/12	<0.02	<0.0051	<5	<5	<5	<10	<5	<5	<5	<5	57	<10
8/23/12	<0.02	<0.0051	<5	<5	<5	<10	<5	<5	<5	<5	4.8 J	<10
5/15/13	< 0.02	< 0.0027	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
8/29/13	< 0.02	<0.0027	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
5/21/14	<0.02	<0.0027	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/12/14	<0.02	<0.0028	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/28/15	<0.02	<0.0028	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/26/15	<0.020	<0.0099	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/10/16	<0.020	<0.0099	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/19/16	<0.020	<0.0069	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10

Table 3
Relevant Groundwater Analytical Results
61 Edson Street, Amsterdam, NY
NYSDEC Site #4-029-004

MW-16												
	METALS (mg/L)		Carbon Tetrachloride	Chloro-benzene	Chloroform	Dichloro-difluoromethane	VOCs (µg/L)					
	Hexavalent Chromium	Total Chromium					1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	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
5/24/12	<0.02	0.0071 B	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/23/12	<0.02	<0.0051	<5	<5	<5	<10	<5	<5	<5	<5	1.8 J	<10
5/14/13	< 0.02	0.0125	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	7.7	< 10
8/27/13	< 0.02	<0.0027	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
5/21/14	<0.02	0.0246	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/12/14	<0.02	<0.0028	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/27/15	<0.02	0.004 B	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/26/15	<0.020	<0.0099	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/11/16	<0.020	<0.0099	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/19/16	<0.020	0.0096 B	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/22/17	NA	NA	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10

Table 3
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
5/24/12	<0.02	0.0055 B	<5	<5	<5	<10	<5	6.2	<5	<5	99	<10
8/23/12	<0.02	<0.0051	<50	<50	<50	<100	25 J	65	<50	<50	1600	<100
5/14/13	< 0.02	< 0.0027	< 10	< 10	< 10	< 20	12	550 D	7.8 J	< 10	320	< 20
8/27/13	< 0.02	0.0040 B	< 25	< 25	< 25	< 50	< 25	36	< 25	< 25	170	< 50
5/21/14	<0.02	0.0056 B	<25	<25	<25	<50	<25	68	<25	<25	400	<50
8/12/14	<0.02	<0.0028	<25	<25	<25	<50	<25	280	<25	<25	<25	<50
5/26/15	<0.02	<0.0028	<5	<5	<5	<10	<5	20	<5	<5	33	<10
8/25/15	<0.020	<0.0099	<5	<5	<5	<10	<5	46	<5	<5	<5	<10
5/11/16	<0.020	<0.0099	<5	<5	<5	<10	<5	13	<5	<5	<5	<10
8/19/16	<0.020	<0.0069	<5	<5	<5	<10	<5	28	<5	<5	<5	<10
8/22/17	NA	NA	<5	<5	<5	<10	<5	9.1	<5	<5	<5	<10

Table 3
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
5/23/12	<0.02	<0.0051	<5	<5	<5	<10	<5	<5	<5	<5	12	<10
8/24/12	<0.02	<0.0051	<5	<5	<5	<10	<5	<5	<5	<5	2.5 J	<10
5/14/13	< 0.02	< 0.0027	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	2.9 J	< 10
8/28/13	< 0.02	0.0052 B	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
5/20/14	<0.02	<0.0027	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/11/14	<0.02	<0.0028	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/27/15	<0.02	<0.0028	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/26/15	<0.020	<0.0099	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/11/16	<0.020	<0.0099	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/18/16	<0.020	<0.0069	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10

Table 3
Relevant Groundwater Analytical Results
61 Edson Street, Amsterdam, NY
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MW-19												
	METALS (mg/L)		VOCs (ug/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
5/23/12	<0.02	<0.0051	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/24/12	<0.02	<0.0051	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/15/13	< 0.02	< 0.0027	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	5.3	< 10
8/27/13	< 0.02	<0.0027	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
5/21/14	<0.02	0.0096 B	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/12/14	<0.02	0.0118	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/27/15	<0.02	<0.0028	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/26/15	<0.020	<0.0099	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/11/16	<0.020	<0.0099	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/19/16	<0.020	<0.0069	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10

Table 3
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
5/22/12	<0.02	<0.0051	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/24/12	<0.02	<0.0051	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/15/13	< 0.02	0.0166	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
8/27/13	< 0.02	<0.0027	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10
5/21/14	<0.02	0.0101	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/12/14	<0.02	0.116	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/27/15	<0.02	0.0119	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/26/15	<0.020	<0.0099	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
5/11/16	<0.020	<0.0099	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
8/19/16	<0.020	<0.0069	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10

Table 3
Relevant Groundwater Analytical Results
61 Edson Street, Amsterdam, NY
NYSDEC Site #4-029-004

Notes:

* From duplicate sample

NA - not analyzed

NS - not sampled

BOLD = parameter was detected

BOLD & shaded = value exceeds the NYSDEC Standard

B - Contamination in associated method blank

D - Initial result was outside the calibration range; sample re-analyzed at dilution

E - estimated value outside of the calibration range

J - estimated value below the detection limit

[a] In the August 2017 event, wells MW-7 and MW-9 could not be located. They were subsequently located and sampled on 10/5/2017.

Beginning in 2017, semiannual groundwater monitoring conducted according to the "Site Management Plan, Ward Products Site, Site # 4-29-004, Amsterdam, New York" (AECOM, February 2011), as modified by NYSDEC's letter dated January 23, 2017 amending the Site Management Plan. This modification added six wells back into the sampling program, removed the requirement for hexavalent chromium analysis, changed the wells to be sampled for total chromium, and changed the sampling frequency to annual, with some wells on a biannual schedule.

Table 4
August 2017 Settling Basin Sediment Sampling Results
 61 Edson Street, Amsterdam, NY
 NYSDEC Site #4-029-004

Constituent	Units	Screening Levels ⁽¹⁾			Sample Results
		NYSDEC LEL ⁽²⁾	NYSDEC SEL ⁽²⁾	Recreational Soil/ Sediment ⁽³⁾	Chapman 8/22/2017
Cadmium	mg/kg	0.6	9	450	19.7
Chromium (total)	mg/kg	26	110	450	128
Nickel	mg/kg	16	50	20,000	109
Zinc	mg/kg	120	270	100,000	117

Notes:

(1) From Table 3-1 of the *Feasibility Study Report and Risk Assessment, Ward Products Corporation Site, Amsterdam, New York, Site Code 4-29-004* (RETEC, September 25, 2006).

(2) NYSDEC Sediment Criteria for Protection of Benthic Organisms. LEL = Lowest Effect Level. SEL = Severe Effect Level.

(3) Protection of Human Health, Recreational Soil/Sediment value based on EPA Region IX Preliminary Remediation Goals , dated October 2004 (risk factor = 10^{-6} or Hazard Quotient = 1.0), assuming recreational exposure is less than the industrial exposure scenario.

**Attachment A –
August and October
2017 Laboratory
Results (*only included
with the original*)**



Experience is the solution

314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

September 18, 2017

Jennifer Atkins
AECOM Environment
250 Apollo Drive
Chelmsford, MA 01824

TEL: (978) 905-2112
FAX: (978) 905-2101

Work Order No: 170821039

PO#: 70990ACM

RE: Ward Products Amsterdam

Dear Jennifer Atkins:

Adirondack Environmental Services, Inc received 12 samples on 8/21/2017 for the analyses presented in the following report.

"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 in the Case Narrative. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature."

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

Tara Daniels
Laboratory Director

Workorder Sample Summary

Client: AECOM Environment

Work Order: 170821039

ProjectName: Ward Products Amsterdam

ProjLocation:

AES Sample No	ClientSampID	Matrix	CollectionDate	DateReceived
170821039-001	MW-4R	Groundwater	8/21/2017	8/21/2017
170821039-002	MW-4	Groundwater	8/21/2017	8/21/2017
170821039-003	DUP-1	Groundwater	8/21/2017	8/21/2017
170821039-004	MW-8	Groundwater	8/21/2017	8/21/2017
170821039-005	MW-1R	Groundwater	8/22/2017	8/21/2017
170821039-006	MW-5	Groundwater	8/22/2017	8/21/2017
170821039-007	MW-10	Groundwater	8/22/2017	8/21/2017
170821039-008	MW-12	Groundwater	8/22/2017	8/21/2017
170821039-009	MW-6	Groundwater	8/22/2017	8/21/2017
170821039-010	MW-13	Groundwater	8/22/2017	8/21/2017
170821039-011	MW-17	Groundwater	8/22/2017	8/21/2017
170821039-012	MW-16	Groundwater	8/22/2017	8/21/2017
170821039-013	Chapman	Soil	8/22/2017	8/21/2017



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www.adirondackenvironmental.com

Case Narrative

Client: AECOM/ Chelmsford – Ward Products

Case: 170821039

SDG: MW-1R

Volatile Organics

- 1) The samples were analyzed using EPA Method 8260 following the criteria for NYSDEC ASP.
- 2) The samples received on 8/21/17 had a temperature of 8 °C. The samples received on 8/23/17 had a temperature of 5 °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 calibration curve was judged against the limits listed in NYSDEC ASP manual, Exhibit E Table 10.
- 5) Sample MW-4R (AES sample number 170821039-001) was used for the water matrix spike and the matrix spike duplicate analysis. The matrix spike recoveries for 1,1,2-Trichloro-1,2,2-trifluoroethane, Dichlorodifluoromethane and Methyl Acetate were higher than the specified limits and the compound Trichloroethene was lower than the specified limits. The matrix spike duplicate recoveries for 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1-Dichloroethene, Carbon Disulfide, Dichlorodifluoromethane, Methyl Acetate, methyl-tert-butyl ether and Styrene were higher than the specified limits and the compound Trichloroethene was lower than the specified limits. All other recoveries were within acceptable limits. Sample MW-4R (AES sample number 170821039-001) has the compound Trichloroethene flagged with a “N” to denote the low recovery.
- 6) The Laboratory Control Sample (LCS) analyzed on 8/30/17 had high recoveries for the compounds 1,2,4-Trichlorobenzene and Dichlorodifluoromethane, and a low recovery for the compound Bromomethane. The samples associated with this LCS are flagged with an “S” to denote the low recovery for Bromomethane.
- 7) The Laboratory Control Sample (LCS) analyzed on 9/1/17 had a low recovery for the compound Methyl Acetate. The samples associated with this LCS are flagged with an “S” to denote the low recovery for Methyl Acetate.
- 8) The column used in Instrument D 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.



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Inorganics – Total Metals

- 1) The samples were analyzed for Total Chromium only.
- 2) The recovery for Aluminum, Calcium, Iron and Magnesium 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, 500,000 ug/L, 200,000 ug/L and 500,000 ug/L, respectively. The linear range on this instrument for Aluminum, Calcium, Iron and Magnesium is 250,000 ug/L, 250,000 ug/L, 100,000 ug/L and 250,000 ug/L, respectively. At this level accurate recovery of Aluminum, Calcium, Iron and Magnesium in the check standards is not possible. No further action is required.
- 3) Sample MW-4R (AES sample number 170821039-001) was used as the matrix spike and duplicate sample. 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 "Tara Davis", is written over a horizontal line.

Laboratory Director

Date: 9/18/17



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

CHAIN OF CUSTODY RECORD

AES Work Order #

170821039

Experience is the solution

A full service analytical research laboratory offering solutions to environmental concerns

Client Name: AECOM		Address: 40 British American Blvd Latham NY 12110						
Send Report To: JENNIFER ATKINS		Project Name (Location): Ward Products		Samplers: (Names) Kieth Stahlke, Joe Seale				
Client Phone No: 978-905-2112		Client Email: JENNIFER.ATKINS@AECOM.COM		PO Number: 85949		Samplers: (Signature) <i>[Signature]</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		
10	MW-4R	8/21/17	A	AQ		X	6	VOCs 8260
			P					TOTAL Chromium 6010
11	MW-4R MS	8/21/17	A	AQ		X	3	
			P					
12	MW-4R MSD	8/21/17	A	AQ		X	3	
			P					
22	MW-4	8/21/17	A	AQ		X	3	
			P					
33	DUP-1	8/21/17	A	AQ		X	3	
			P					
44	MW-8	8/21/17	A	AQ		X	3	
			P					
			A					
			P					
			A					
			P					
			A					
			P					
			A					
			P					
			A					
			P					
			A					
			P					

Shipment Arrived Via:

FedEx UPS Client AES Other: _____

CC Report To / Special Instructions/Remarks:

Turnaround Time Request:

☐ 1 Day ☐ 3 Day ☐ Normal
☐ 2 Day ☐ 5 Day

Note: Samples received after 3:30 pm are considered next business day

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received for Laboratory by: <i>[Signature]</i>	Date/Time 8/21/17 4:53 PM

TEMPERATURE Ambient or Chilled Notes: 80°C	AES Bottles ☒ Y ☐ N	PROPERLY PRESERVED ☒ Y ☐ N	RECEIVED WITHIN HOLDING TIMES ☒ Y ☐ N

WHITE - Lab Copy

YELLOW - Sampler Copy

Adirondack Environmental Services



170821039



CHAIN OF CUSTODY RECORD

AES Work Order #

ES Work Order # 170821039

A full service analytical research laboratory offering solutions to environmental concerns

Client Name: AECOM		Address: 40 British American Blvd, Latham, NY 12110	
Send Report To: JENNIFER ATKINS		Project Name (Location): Ward Med. Amsterdam	Samplers: (Names): KS, JS
Client Phone No: 978-905-2112	Client Email: JENNIFER.ATKINS@aecom.com	PO Number: 85949	Samplers: (Signature): [Signature] / [Signature]

[illegible]

Shipment Arrived Via: FedEx UPS Client AES Other: _____		CC Report To / Special Instructions/Remarks:	
Turnaround Time Request: ☐ 1 Day ☐ 3 Day ☒ Normal ☐ 2 Day ☐ 5 Day Note: Samples received after 3:30 pm are considered next business day			
Relinquished by: (Signature)		Received by: (Signature)	Date/Time
Relinquished by: (Signature)		Received by: (Signature)	Date/Time
Relinquished by: (Signature)		Received for Laboratory by:	Date/Time
TEMPERATURE Ambient or Chilled Notes: _____		AES Bottles ☒ Y ☐ N	PROPERLY PRESERVED ☒ Y ☐ N
		RECEIVED WITHIN HOLDING TIMES ☒ Y ☐ N	

PINK - Generator Copy

Adirondack Environmental Services, Inc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-4R

Work Order: 170821039

Collection Date: 8/21/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-001

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA 200.7						Analyst: KH
(Prep: SW3010A - 8/28/2017)						
Chromium	16.9	5.00		µg/L	1	9/1/2017 12:14:00 PM
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	1000		µg/L	100	8/30/2017 8:54:00 PM
Bromomethane	ND	1000	S	µg/L	100	8/30/2017 8:54:00 PM
Vinyl chloride	ND	1000		µg/L	100	8/30/2017 8:54:00 PM
Chloroethane	ND	1000		µg/L	100	8/30/2017 8:54:00 PM
Methylene chloride	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Acetone	ND	1000		µg/L	100	8/30/2017 8:54:00 PM
Carbon disulfide	ND	500		µg/L	100	8/30/2017 8:54:00 PM
1,1-Dichloroethene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
1,1-Dichloroethane	ND	500		µg/L	100	8/30/2017 8:54:00 PM
trans-1,2-Dichloroethene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
cis-1,2-Dichloroethene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Chloroform	ND	500		µg/L	100	8/30/2017 8:54:00 PM
1,2-Dichloroethane	ND	500		µg/L	100	8/30/2017 8:54:00 PM
2-Butanone	ND	1000		µg/L	100	8/30/2017 8:54:00 PM
1,1,1-Trichloroethane	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Carbon tetrachloride	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Bromodichloromethane	ND	500		µg/L	100	8/30/2017 8:54:00 PM
1,2-Dichloropropane	ND	500		µg/L	100	8/30/2017 8:54:00 PM
cis-1,3-Dichloropropene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Trichloroethene	19000	500	N	µg/L	100	8/30/2017 8:54:00 PM
Dibromochloromethane	ND	500		µg/L	100	8/30/2017 8:54:00 PM
1,1,2-Trichloroethane	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Benzene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
trans-1,3-Dichloropropene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Bromoform	ND	500		µg/L	100	8/30/2017 8:54:00 PM
4-Methyl-2-pentanone	ND	1000		µg/L	100	8/30/2017 8:54:00 PM
2-Hexanone	ND	1000		µg/L	100	8/30/2017 8:54:00 PM
Tetrachloroethene	660	500		µg/L	100	8/30/2017 8:54:00 PM
1,1,2,2-Tetrachloroethane	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Toluene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Chlorobenzene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Ethylbenzene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Styrene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
m,p-Xylene	ND	500		µg/L	100	8/30/2017 8:54:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

X - Value exceeds Maximum Contaminant Level

E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)

Z - RPD outside accepted recovery limits

N - Matrix Spike below accepted limits (+ above)

T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-4R

Work Order: 170821039

Collection Date: 8/21/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-001

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
o-Xylene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Methyl tert-butyl ether	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Dichlorodifluoromethane	ND	1000		µg/L	100	8/30/2017 8:54:00 PM
Methyl Acetate	ND	500		µg/L	100	8/30/2017 8:54:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Trichlorofluoromethane	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Cyclohexane	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Methyl Cyclohexane	ND	500		µg/L	100	8/30/2017 8:54:00 PM
1,2-Dibromoethane	ND	500		µg/L	100	8/30/2017 8:54:00 PM
1,3-Dichlorobenzene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Isopropylbenzene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
1,2-Dichlorobenzene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
1,4-Dichlorobenzene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
1,2-Dibromo-3-chloropropane	ND	1000		µg/L	100	8/30/2017 8:54:00 PM
1,2,4-Trichlorobenzene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Surr: 1,2-Dichloroethane-d4	95.3	80.3-122		%REC	100	8/30/2017 8:54:00 PM
Surr: 4-Bromofluorobenzene	96.0	74.1-124		%REC	100	8/30/2017 8:54:00 PM
Surr: Toluene-d8	93.5	79.6-110		%REC	100	8/30/2017 8:54:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-4

Work Order: 170821039

Collection Date: 8/21/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-002

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA 200.7						Analyst: KH
(Prep: SW3010A - 8/28/2017)						
Chromium	14.9	5.00		µg/L	1	9/1/2017 1:11:00 PM
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	10		µg/L	1	8/30/2017 5:37:00 PM
Bromomethane	ND	10	S	µg/L	1	8/30/2017 5:37:00 PM
Vinyl chloride	ND	10		µg/L	1	8/30/2017 5:37:00 PM
Chloroethane	ND	10		µg/L	1	8/30/2017 5:37:00 PM
Methylene chloride	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Acetone	ND	10		µg/L	1	8/30/2017 5:37:00 PM
Carbon disulfide	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
cis-1,2-Dichloroethene	34	5.0		µg/L	1	8/30/2017 5:37:00 PM
Chloroform	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
2-Butanone	ND	10		µg/L	1	8/30/2017 5:37:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
1,2-Dichloropropane	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Trichloroethene	86	5.0		µg/L	1	8/30/2017 5:37:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Benzene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Bromoform	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/30/2017 5:37:00 PM
2-Hexanone	ND	10		µg/L	1	8/30/2017 5:37:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Toluene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Chlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Styrene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
m,p-Xylene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-4

Work Order: 170821039

Collection Date: 8/21/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-002

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
o-Xylene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Dichlorodifluoromethane	ND	10		µg/L	1	8/30/2017 5:37:00 PM
Methyl Acetate	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Cyclohexane	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Methyl Cyclohexane	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
1,2-Dibromoethane	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Isopropylbenzene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	8/30/2017 5:37:00 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Surr: 1,2-Dichloroethane-d4	102	80.3-122		%REC	1	8/30/2017 5:37:00 PM
Surr: 4-Bromofluorobenzene	97.4	74.1-124		%REC	1	8/30/2017 5:37:00 PM
Surr: Toluene-d8	93.2	79.6-110		%REC	1	8/30/2017 5:37:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: DUP-1

Work Order: 170821039

Collection Date: 8/21/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-003

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA 200.7						Analyst: KH
(Prep: SW3010A - 8/28/2017)						
Chromium	13.8	5.00		µg/L	1	9/1/2017 1:15:00 PM
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	10		µg/L	1	9/1/2017 11:32:00 AM
Bromomethane	ND	10		µg/L	1	9/1/2017 11:32:00 AM
Vinyl chloride	ND	10		µg/L	1	9/1/2017 11:32:00 AM
Chloroethane	ND	10		µg/L	1	9/1/2017 11:32:00 AM
Methylene chloride	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Acetone	ND	10		µg/L	1	9/1/2017 11:32:00 AM
Carbon disulfide	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
1,1-Dichloroethene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
1,1-Dichloroethane	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
cis-1,2-Dichloroethene	42	5.0		µg/L	1	9/1/2017 11:32:00 AM
Chloroform	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
1,2-Dichloroethane	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
2-Butanone	ND	10		µg/L	1	9/1/2017 11:32:00 AM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Carbon tetrachloride	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Bromodichloromethane	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
1,2-Dichloropropane	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Trichloroethene	45	5.0		µg/L	1	9/1/2017 11:32:00 AM
Dibromochloromethane	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Benzene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Bromoform	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	9/1/2017 11:32:00 AM
2-Hexanone	ND	10		µg/L	1	9/1/2017 11:32:00 AM
Tetrachloroethene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Toluene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Chlorobenzene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Ethylbenzene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Styrene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
m,p-Xylene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

X - Value exceeds Maximum Contaminant Level

E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)

Z - RPD outside accepted recovery limits

N - Matrix Spike below accepted limits (+ above)

T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: DUP-1

Work Order: 170821039

Collection Date: 8/21/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-003

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
o-Xylene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Methyl tert-butyl ether	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Dichlorodifluoromethane	ND	10		µg/L	1	9/1/2017 11:32:00 AM
Methyl Acetate	ND	5.0	S	µg/L	1	9/1/2017 11:32:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Trichlorofluoromethane	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Cyclohexane	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Methyl Cyclohexane	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
1,2-Dibromoethane	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Isopropylbenzene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	9/1/2017 11:32:00 AM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Surr: 1,2-Dichloroethane-d4	103	80.3-122		%REC	1	9/1/2017 11:32:00 AM
Surr: 4-Bromofluorobenzene	98.3	74.1-124		%REC	1	9/1/2017 11:32:00 AM
Surr: Toluene-d8	96.1	79.6-110		%REC	1	9/1/2017 11:32:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-8

Work Order: 170821039

Collection Date: 8/21/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-004

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA 200.7						Analyst: KH
(Prep: SW3010A - 8/28/2017)						
Chromium	ND	5.00		µg/L	1	9/1/2017 1:24:00 PM
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	10		µg/L	1	8/30/2017 6:20:00 PM
Bromomethane	ND	10	S	µg/L	1	8/30/2017 6:20:00 PM
Vinyl chloride	ND	10		µg/L	1	8/30/2017 6:20:00 PM
Chloroethane	ND	10		µg/L	1	8/30/2017 6:20:00 PM
Methylene chloride	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Acetone	ND	10		µg/L	1	8/30/2017 6:20:00 PM
Carbon disulfide	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Chloroform	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
2-Butanone	ND	10		µg/L	1	8/30/2017 6:20:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
1,2-Dichloropropane	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Trichloroethene	14	5.0		µg/L	1	8/30/2017 6:20:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Benzene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Bromoform	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/30/2017 6:20:00 PM
2-Hexanone	ND	10		µg/L	1	8/30/2017 6:20:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Toluene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Chlorobenzene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Styrene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
m,p-Xylene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-8

Work Order: 170821039

Collection Date: 8/21/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-004

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
o-Xylene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Dichlorodifluoromethane	ND	10		µg/L	1	8/30/2017 6:20:00 PM
Methyl Acetate	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Cyclohexane	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Methyl Cyclohexane	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
1,2-Dibromoethane	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Isopropylbenzene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	8/30/2017 6:20:00 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Surr: 1,2-Dichloroethane-d4	106	80.3-122		%REC	1	8/30/2017 6:20:00 PM
Surr: 4-Bromofluorobenzene	99.1	74.1-124		%REC	1	8/30/2017 6:20:00 PM
Surr: Toluene-d8	88.5	79.6-110		%REC	1	8/30/2017 6:20:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-1R

Work Order: 170821039

Collection Date: 8/22/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-005

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA 200.7						Analyst: KH
(Prep: SW3010A - 8/28/2017)						
Chromium	155	5.00		µg/L	1	9/1/2017 1:41:00 PM
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	10		µg/L	1	8/30/2017 5:59:00 PM
Bromomethane	ND	10	S	µg/L	1	8/30/2017 5:59:00 PM
Vinyl chloride	ND	10		µg/L	1	8/30/2017 5:59:00 PM
Chloroethane	ND	10		µg/L	1	8/30/2017 5:59:00 PM
Methylene chloride	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Acetone	ND	10		µg/L	1	8/30/2017 5:59:00 PM
Carbon disulfide	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Chloroform	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
2-Butanone	ND	10		µg/L	1	8/30/2017 5:59:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
1,2-Dichloropropane	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Trichloroethene	78	5.0		µg/L	1	8/30/2017 5:59:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Benzene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Bromoform	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/30/2017 5:59:00 PM
2-Hexanone	ND	10		µg/L	1	8/30/2017 5:59:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Toluene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Chlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Styrene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
m,p-Xylene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-1R

Work Order: 170821039

Collection Date: 8/22/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-005

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
o-Xylene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Dichlorodifluoromethane	ND	10		µg/L	1	8/30/2017 5:59:00 PM
Methyl Acetate	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Cyclohexane	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Methyl Cyclohexane	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
1,2-Dibromoethane	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Isopropylbenzene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	8/30/2017 5:59:00 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Surr: 1,2-Dichloroethane-d4	103	80.3-122		%REC	1	8/30/2017 5:59:00 PM
Surr: 4-Bromofluorobenzene	98.6	74.1-124		%REC	1	8/30/2017 5:59:00 PM
Surr: Toluene-d8	91.7	79.6-110		%REC	1	8/30/2017 5:59:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-5

Work Order: 170821039

Collection Date: 8/22/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-006

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	10		µg/L	1	8/30/2017 6:41:00 PM
Bromomethane	ND	10	S	µg/L	1	8/30/2017 6:41:00 PM
Vinyl chloride	ND	10		µg/L	1	8/30/2017 6:41:00 PM
Chloroethane	ND	10		µg/L	1	8/30/2017 6:41:00 PM
Methylene chloride	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Acetone	ND	10		µg/L	1	8/30/2017 6:41:00 PM
Carbon disulfide	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Chloroform	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
2-Butanone	ND	10		µg/L	1	8/30/2017 6:41:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
1,2-Dichloropropane	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Trichloroethene	43	5.0		µg/L	1	8/30/2017 6:41:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Benzene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Bromoform	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/30/2017 6:41:00 PM
2-Hexanone	ND	10		µg/L	1	8/30/2017 6:41:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Toluene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Chlorobenzene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Styrene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
m,p-Xylene	ND	10		µg/L	1	8/30/2017 6:41:00 PM
o-Xylene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Dichlorodifluoromethane	ND	10		µg/L	1	8/30/2017 6:41:00 PM
Methyl Acetate	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc**Date:** 18-Sep-17**CLIENT:** AECOM Environment**Client Sample ID:** MW-5**Work Order:** 170821039**Collection Date:** 8/22/2017**Reference:** Ward Products Amsterdam /**Lab Sample ID:** 170821039-006**PO#:** 70990ACM**Matrix:** GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Cyclohexane	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Methyl Cyclohexane	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
1,2-Dibromoethane	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Isopropylbenzene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	8/30/2017 6:41:00 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Surr: 1,2-Dichloroethane-d4	115	80.3-122		%REC	1	8/30/2017 6:41:00 PM
Surr: 4-Bromofluorobenzene	97.2	74.1-124		%REC	1	8/30/2017 6:41:00 PM
Surr: Toluene-d8	87.7	79.6-110		%REC	1	8/30/2017 6:41:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-10

Work Order: 170821039

Collection Date: 8/22/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-007

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	20		µg/L	2	9/1/2017 11:56:00 AM
Bromomethane	ND	20		µg/L	2	9/1/2017 11:56:00 AM
Vinyl chloride	ND	20		µg/L	2	9/1/2017 11:56:00 AM
Chloroethane	ND	20		µg/L	2	9/1/2017 11:56:00 AM
Methylene chloride	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Acetone	ND	20		µg/L	2	9/1/2017 11:56:00 AM
Carbon disulfide	ND	10		µg/L	2	9/1/2017 11:56:00 AM
1,1-Dichloroethene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
1,1-Dichloroethane	ND	10		µg/L	2	9/1/2017 11:56:00 AM
trans-1,2-Dichloroethene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
cis-1,2-Dichloroethene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Chloroform	ND	10		µg/L	2	9/1/2017 11:56:00 AM
1,2-Dichloroethane	ND	10		µg/L	2	9/1/2017 11:56:00 AM
2-Butanone	ND	20		µg/L	2	9/1/2017 11:56:00 AM
1,1,1-Trichloroethane	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Carbon tetrachloride	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Bromodichloromethane	ND	10		µg/L	2	9/1/2017 11:56:00 AM
1,2-Dichloropropane	ND	10		µg/L	2	9/1/2017 11:56:00 AM
cis-1,3-Dichloropropene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Trichloroethene	210	10		µg/L	2	9/1/2017 11:56:00 AM
Dibromochloromethane	ND	10		µg/L	2	9/1/2017 11:56:00 AM
1,1,2-Trichloroethane	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Benzene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
trans-1,3-Dichloropropene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Bromoform	ND	10		µg/L	2	9/1/2017 11:56:00 AM
4-Methyl-2-pentanone	ND	20		µg/L	2	9/1/2017 11:56:00 AM
2-Hexanone	ND	20		µg/L	2	9/1/2017 11:56:00 AM
Tetrachloroethene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
1,1,2,2-Tetrachloroethane	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Toluene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Chlorobenzene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Ethylbenzene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Styrene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
m,p-Xylene	ND	20		µg/L	2	9/1/2017 11:56:00 AM
o-Xylene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Methyl tert-butyl ether	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Dichlorodifluoromethane	ND	20		µg/L	2	9/1/2017 11:56:00 AM
Methyl Acetate	ND	10	S	µg/L	2	9/1/2017 11:56:00 AM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc**Date:** 18-Sep-17**CLIENT:** AECOM Environment**Client Sample ID:** MW-10**Work Order:** 170821039**Collection Date:** 8/22/2017**Reference:** Ward Products Amsterdam /**Lab Sample ID:** 170821039-007**PO#:** 70990ACM**Matrix:** GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Trichlorofluoromethane	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Cyclohexane	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Methyl Cyclohexane	ND	10		µg/L	2	9/1/2017 11:56:00 AM
1,2-Dibromoethane	ND	10		µg/L	2	9/1/2017 11:56:00 AM
1,3-Dichlorobenzene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Isopropylbenzene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
1,2-Dichlorobenzene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
1,4-Dichlorobenzene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	2	9/1/2017 11:56:00 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Surr: 1,2-Dichloroethane-d4	97.9	80.3-122		%REC	2	9/1/2017 11:56:00 AM
Surr: 4-Bromofluorobenzene	98.7	74.1-124		%REC	2	9/1/2017 11:56:00 AM
Surr: Toluene-d8	95.7	79.6-110		%REC	2	9/1/2017 11:56:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-12

Work Order: 170821039

Collection Date: 8/22/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-008

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	10		µg/L	1	8/30/2017 7:03:00 PM
Bromomethane	ND	10	S	µg/L	1	8/30/2017 7:03:00 PM
Vinyl chloride	ND	10		µg/L	1	8/30/2017 7:03:00 PM
Chloroethane	ND	10		µg/L	1	8/30/2017 7:03:00 PM
Methylene chloride	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Acetone	ND	10		µg/L	1	8/30/2017 7:03:00 PM
Carbon disulfide	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
cis-1,2-Dichloroethene	13	5.0		µg/L	1	8/30/2017 7:03:00 PM
Chloroform	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
2-Butanone	ND	10		µg/L	1	8/30/2017 7:03:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
1,2-Dichloropropane	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Trichloroethene	39	5.0		µg/L	1	8/30/2017 7:03:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Benzene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Bromoform	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/30/2017 7:03:00 PM
2-Hexanone	ND	10		µg/L	1	8/30/2017 7:03:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Toluene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Chlorobenzene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Styrene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
m,p-Xylene	ND	10		µg/L	1	8/30/2017 7:03:00 PM
o-Xylene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Dichlorodifluoromethane	ND	10		µg/L	1	8/30/2017 7:03:00 PM
Methyl Acetate	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-12

Work Order: 170821039

Collection Date: 8/22/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-008

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Cyclohexane	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Methyl Cyclohexane	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
1,2-Dibromoethane	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Isopropylbenzene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	8/30/2017 7:03:00 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Surr: 1,2-Dichloroethane-d4	105	80.3-122		%REC	1	8/30/2017 7:03:00 PM
Surr: 4-Bromofluorobenzene	101	74.1-124		%REC	1	8/30/2017 7:03:00 PM
Surr: Toluene-d8	86.8	79.6-110		%REC	1	8/30/2017 7:03:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-6

Work Order: 170821039

Collection Date: 8/22/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-009

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA 200.7						Analyst: KH
(Prep: SW3010A - 8/28/2017)						
Chromium	14.1	5.00		µg/L	1	9/1/2017 1:46:00 PM
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	50		µg/L	5	9/1/2017 12:44:00 PM
Bromomethane	ND	50		µg/L	5	9/1/2017 12:44:00 PM
Vinyl chloride	ND	50		µg/L	5	9/1/2017 12:44:00 PM
Chloroethane	ND	50		µg/L	5	9/1/2017 12:44:00 PM
Methylene chloride	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Acetone	ND	50		µg/L	5	9/1/2017 12:44:00 PM
Carbon disulfide	ND	25		µg/L	5	9/1/2017 12:44:00 PM
1,1-Dichloroethene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
1,1-Dichloroethane	ND	25		µg/L	5	9/1/2017 12:44:00 PM
trans-1,2-Dichloroethene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
cis-1,2-Dichloroethene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Chloroform	ND	25		µg/L	5	9/1/2017 12:44:00 PM
1,2-Dichloroethane	ND	25		µg/L	5	9/1/2017 12:44:00 PM
2-Butanone	ND	50		µg/L	5	9/1/2017 12:44:00 PM
1,1,1-Trichloroethane	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Carbon tetrachloride	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Bromodichloromethane	ND	25		µg/L	5	9/1/2017 12:44:00 PM
1,2-Dichloropropane	ND	25		µg/L	5	9/1/2017 12:44:00 PM
cis-1,3-Dichloropropene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Trichloroethene	440	25		µg/L	5	9/1/2017 12:44:00 PM
Dibromochloromethane	ND	25		µg/L	5	9/1/2017 12:44:00 PM
1,1,2-Trichloroethane	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Benzene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
trans-1,3-Dichloropropene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Bromoform	ND	25		µg/L	5	9/1/2017 12:44:00 PM
4-Methyl-2-pentanone	ND	50		µg/L	5	9/1/2017 12:44:00 PM
2-Hexanone	ND	50		µg/L	5	9/1/2017 12:44:00 PM
Tetrachloroethene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
1,1,2,2-Tetrachloroethane	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Toluene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Chlorobenzene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Ethylbenzene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Styrene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
m,p-Xylene	ND	50		µg/L	5	9/1/2017 12:44:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-6

Work Order: 170821039

Collection Date: 8/22/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-009

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
o-Xylene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Methyl tert-butyl ether	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Dichlorodifluoromethane	ND	50		µg/L	5	9/1/2017 12:44:00 PM
Methyl Acetate	ND	25	S	µg/L	5	9/1/2017 12:44:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Trichlorofluoromethane	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Cyclohexane	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Methyl Cyclohexane	ND	25		µg/L	5	9/1/2017 12:44:00 PM
1,2-Dibromoethane	ND	25		µg/L	5	9/1/2017 12:44:00 PM
1,3-Dichlorobenzene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Isopropylbenzene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
1,2-Dichlorobenzene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
1,4-Dichlorobenzene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
1,2-Dibromo-3-chloropropane	ND	50		µg/L	5	9/1/2017 12:44:00 PM
1,2,4-Trichlorobenzene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Surr: 1,2-Dichloroethane-d4	99.1	80.3-122		%REC	5	9/1/2017 12:44:00 PM
Surr: 4-Bromofluorobenzene	95.8	74.1-124		%REC	5	9/1/2017 12:44:00 PM
Surr: Toluene-d8	98.8	79.6-110		%REC	5	9/1/2017 12:44:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-13

Work Order: 170821039

Collection Date: 8/22/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-010

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	20		µg/L	2	9/1/2017 12:20:00 PM
Bromomethane	ND	20		µg/L	2	9/1/2017 12:20:00 PM
Vinyl chloride	ND	20		µg/L	2	9/1/2017 12:20:00 PM
Chloroethane	ND	20		µg/L	2	9/1/2017 12:20:00 PM
Methylene chloride	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Acetone	ND	20		µg/L	2	9/1/2017 12:20:00 PM
Carbon disulfide	ND	10		µg/L	2	9/1/2017 12:20:00 PM
1,1-Dichloroethene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
1,1-Dichloroethane	ND	10		µg/L	2	9/1/2017 12:20:00 PM
trans-1,2-Dichloroethene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
cis-1,2-Dichloroethene	60	10		µg/L	2	9/1/2017 12:20:00 PM
Chloroform	ND	10		µg/L	2	9/1/2017 12:20:00 PM
1,2-Dichloroethane	ND	10		µg/L	2	9/1/2017 12:20:00 PM
2-Butanone	ND	20		µg/L	2	9/1/2017 12:20:00 PM
1,1,1-Trichloroethane	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Carbon tetrachloride	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Bromodichloromethane	ND	10		µg/L	2	9/1/2017 12:20:00 PM
1,2-Dichloropropane	ND	10		µg/L	2	9/1/2017 12:20:00 PM
cis-1,3-Dichloropropene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Trichloroethene	100	10		µg/L	2	9/1/2017 12:20:00 PM
Dibromochloromethane	ND	10		µg/L	2	9/1/2017 12:20:00 PM
1,1,2-Trichloroethane	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Benzene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
trans-1,3-Dichloropropene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Bromoform	ND	10		µg/L	2	9/1/2017 12:20:00 PM
4-Methyl-2-pentanone	ND	20		µg/L	2	9/1/2017 12:20:00 PM
2-Hexanone	ND	20		µg/L	2	9/1/2017 12:20:00 PM
Tetrachloroethene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
1,1,2,2-Tetrachloroethane	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Toluene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Chlorobenzene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Ethylbenzene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Styrene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
m,p-Xylene	ND	20		µg/L	2	9/1/2017 12:20:00 PM
o-Xylene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Methyl tert-butyl ether	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Dichlorodifluoromethane	ND	20		µg/L	2	9/1/2017 12:20:00 PM
Methyl Acetate	ND	10	S	µg/L	2	9/1/2017 12:20:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-13

Work Order: 170821039

Collection Date: 8/22/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-010

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed

VOLATILE ORGANICS EPA 8260C (SW5030C PREP)

Analyst: SMD

1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Trichlorofluoromethane	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Cyclohexane	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Methyl Cyclohexane	ND	10		µg/L	2	9/1/2017 12:20:00 PM
1,2-Dibromoethane	ND	10		µg/L	2	9/1/2017 12:20:00 PM
1,3-Dichlorobenzene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Isopropylbenzene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
1,2-Dichlorobenzene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
1,4-Dichlorobenzene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	2	9/1/2017 12:20:00 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Surr: 1,2-Dichloroethane-d4	103	80.3-122		%REC	2	9/1/2017 12:20:00 PM
Surr: 4-Bromofluorobenzene	104	74.1-124		%REC	2	9/1/2017 12:20:00 PM
Surr: Toluene-d8	104	79.6-110		%REC	2	9/1/2017 12:20:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
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S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-17

Work Order: 170821039

Collection Date: 8/22/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-011

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	10		µg/L	1	8/30/2017 5:16:00 PM
Bromomethane	ND	10	S	µg/L	1	8/30/2017 5:16:00 PM
Vinyl chloride	ND	10		µg/L	1	8/30/2017 5:16:00 PM
Chloroethane	ND	10		µg/L	1	8/30/2017 5:16:00 PM
Methylene chloride	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Acetone	ND	10		µg/L	1	8/30/2017 5:16:00 PM
Carbon disulfide	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
cis-1,2-Dichloroethene	9.1	5.0		µg/L	1	8/30/2017 5:16:00 PM
Chloroform	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
2-Butanone	ND	10		µg/L	1	8/30/2017 5:16:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
1,2-Dichloropropane	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Trichloroethene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Benzene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Bromoform	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/30/2017 5:16:00 PM
2-Hexanone	ND	10		µg/L	1	8/30/2017 5:16:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Toluene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Chlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Styrene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
m,p-Xylene	ND	10		µg/L	1	8/30/2017 5:16:00 PM
o-Xylene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Dichlorodifluoromethane	ND	10		µg/L	1	8/30/2017 5:16:00 PM
Methyl Acetate	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc**Date:** 18-Sep-17**CLIENT:** AECOM Environment**Client Sample ID:** MW-17**Work Order:** 170821039**Collection Date:** 8/22/2017**Reference:** Ward Products Amsterdam /**Lab Sample ID:** 170821039-011**PO#:** 70990ACM**Matrix:** GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Cyclohexane	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Methyl Cyclohexane	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
1,2-Dibromoethane	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Isopropylbenzene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	8/30/2017 5:16:00 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Surr: 1,2-Dichloroethane-d4	106	80.3-122		%REC	1	8/30/2017 5:16:00 PM
Surr: 4-Bromofluorobenzene	96.4	74.1-124		%REC	1	8/30/2017 5:16:00 PM
Surr: Toluene-d8	98.7	79.6-110		%REC	1	8/30/2017 5:16:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-16

Work Order: 170821039

Collection Date: 8/22/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-012

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	10		µg/L	1	8/30/2017 4:55:00 PM
Bromomethane	ND	10	S	µg/L	1	8/30/2017 4:55:00 PM
Vinyl chloride	ND	10		µg/L	1	8/30/2017 4:55:00 PM
Chloroethane	ND	10		µg/L	1	8/30/2017 4:55:00 PM
Methylene chloride	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Acetone	ND	10		µg/L	1	8/30/2017 4:55:00 PM
Carbon disulfide	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Chloroform	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
2-Butanone	ND	10		µg/L	1	8/30/2017 4:55:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
1,2-Dichloropropane	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Trichloroethene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Benzene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Bromoform	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/30/2017 4:55:00 PM
2-Hexanone	ND	10		µg/L	1	8/30/2017 4:55:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Toluene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Chlorobenzene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Styrene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
m,p-Xylene	ND	10		µg/L	1	8/30/2017 4:55:00 PM
o-Xylene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Dichlorodifluoromethane	ND	10		µg/L	1	8/30/2017 4:55:00 PM
Methyl Acetate	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc**Date:** 18-Sep-17**CLIENT:** AECOM Environment**Client Sample ID:** MW-16**Work Order:** 170821039**Collection Date:** 8/22/2017**Reference:** Ward Products Amsterdam /**Lab Sample ID:** 170821039-012**PO#:** 70990ACM**Matrix:** GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Cyclohexane	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Methyl Cyclohexane	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
1,2-Dibromoethane	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Isopropylbenzene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	8/30/2017 4:55:00 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Surr: 1,2-Dichloroethane-d4	99.6	80.3-122		%REC	1	8/30/2017 4:55:00 PM
Surr: 4-Bromofluorobenzene	104	74.1-124		%REC	1	8/30/2017 4:55:00 PM
Surr: Toluene-d8	85.1	79.6-110		%REC	1	8/30/2017 4:55:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-4R

Work Order: 170821039

Collection Date: 8/21/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-001

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	1000		µg/L	100	8/30/2017 8:54:00 PM
Bromomethane	ND	1000	S	µg/L	100	8/30/2017 8:54:00 PM
Vinyl chloride	ND	1000		µg/L	100	8/30/2017 8:54:00 PM
Chloroethane	ND	1000		µg/L	100	8/30/2017 8:54:00 PM
Methylene chloride	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Acetone	ND	1000		µg/L	100	8/30/2017 8:54:00 PM
Carbon disulfide	ND	500		µg/L	100	8/30/2017 8:54:00 PM
1,1-Dichloroethene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
1,1-Dichloroethane	ND	500		µg/L	100	8/30/2017 8:54:00 PM
trans-1,2-Dichloroethene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
cis-1,2-Dichloroethene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Chloroform	ND	500		µg/L	100	8/30/2017 8:54:00 PM
1,2-Dichloroethane	ND	500		µg/L	100	8/30/2017 8:54:00 PM
2-Butanone	ND	1000		µg/L	100	8/30/2017 8:54:00 PM
1,1,1-Trichloroethane	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Carbon tetrachloride	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Bromodichloromethane	ND	500		µg/L	100	8/30/2017 8:54:00 PM
1,2-Dichloropropane	ND	500		µg/L	100	8/30/2017 8:54:00 PM
cis-1,3-Dichloropropene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Trichloroethene	19000	500	N	µg/L	100	8/30/2017 8:54:00 PM
Dibromochloromethane	ND	500		µg/L	100	8/30/2017 8:54:00 PM
1,1,2-Trichloroethane	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Benzene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
trans-1,3-Dichloropropene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Bromoform	ND	500		µg/L	100	8/30/2017 8:54:00 PM
4-Methyl-2-pentanone	ND	1000		µg/L	100	8/30/2017 8:54:00 PM
2-Hexanone	ND	1000		µg/L	100	8/30/2017 8:54:00 PM
Tetrachloroethene	660	500		µg/L	100	8/30/2017 8:54:00 PM
1,1,2,2-Tetrachloroethane	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Toluene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Chlorobenzene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Ethylbenzene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Styrene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
m,p-Xylene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
o-Xylene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Methyl tert-butyl ether	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Dichlorodifluoromethane	ND	1000		µg/L	100	8/30/2017 8:54:00 PM
Methyl Acetate	ND	500		µg/L	100	8/30/2017 8:54:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-4R

Work Order: 170821039

Collection Date: 8/21/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-001

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Trichlorofluoromethane	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Cyclohexane	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Methyl Cyclohexane	ND	500		µg/L	100	8/30/2017 8:54:00 PM
1,2-Dibromoethane	ND	500		µg/L	100	8/30/2017 8:54:00 PM
1,3-Dichlorobenzene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Isopropylbenzene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
1,2-Dichlorobenzene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
1,4-Dichlorobenzene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
1,2-Dibromo-3-chloropropane	ND	1000		µg/L	100	8/30/2017 8:54:00 PM
1,2,4-Trichlorobenzene	ND	500		µg/L	100	8/30/2017 8:54:00 PM
Surr: 1,2-Dichloroethane-d4	95.3	80.3-122		%REC	100	8/30/2017 8:54:00 PM
Surr: 4-Bromofluorobenzene	96.0	74.1-124		%REC	100	8/30/2017 8:54:00 PM
Surr: Toluene-d8	93.5	79.6-110		%REC	100	8/30/2017 8:54:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-4

Work Order: 170821039

Collection Date: 8/21/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-002

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	10		µg/L	1	8/30/2017 5:37:00 PM
Bromomethane	ND	10	S	µg/L	1	8/30/2017 5:37:00 PM
Vinyl chloride	ND	10		µg/L	1	8/30/2017 5:37:00 PM
Chloroethane	ND	10		µg/L	1	8/30/2017 5:37:00 PM
Methylene chloride	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Acetone	ND	10		µg/L	1	8/30/2017 5:37:00 PM
Carbon disulfide	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
cis-1,2-Dichloroethene	34	5.0		µg/L	1	8/30/2017 5:37:00 PM
Chloroform	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
2-Butanone	ND	10		µg/L	1	8/30/2017 5:37:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
1,2-Dichloropropane	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Trichloroethene	86	5.0		µg/L	1	8/30/2017 5:37:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Benzene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Bromoform	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/30/2017 5:37:00 PM
2-Hexanone	ND	10		µg/L	1	8/30/2017 5:37:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Toluene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Chlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Styrene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
m,p-Xylene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
o-Xylene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Dichlorodifluoromethane	ND	10		µg/L	1	8/30/2017 5:37:00 PM
Methyl Acetate	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-4

Work Order: 170821039

Collection Date: 8/21/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-002

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Cyclohexane	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Methyl Cyclohexane	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
1,2-Dibromoethane	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Isopropylbenzene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	8/30/2017 5:37:00 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:37:00 PM
Surr: 1,2-Dichloroethane-d4	102	80.3-122		%REC	1	8/30/2017 5:37:00 PM
Surr: 4-Bromofluorobenzene	97.4	74.1-124		%REC	1	8/30/2017 5:37:00 PM
Surr: Toluene-d8	93.2	79.6-110		%REC	1	8/30/2017 5:37:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: DUP-1

Work Order: 170821039

Collection Date: 8/21/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-003

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	10		µg/L	1	9/1/2017 11:32:00 AM
Bromomethane	ND	10		µg/L	1	9/1/2017 11:32:00 AM
Vinyl chloride	ND	10		µg/L	1	9/1/2017 11:32:00 AM
Chloroethane	ND	10		µg/L	1	9/1/2017 11:32:00 AM
Methylene chloride	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Acetone	ND	10		µg/L	1	9/1/2017 11:32:00 AM
Carbon disulfide	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
1,1-Dichloroethene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
1,1-Dichloroethane	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
cis-1,2-Dichloroethene	42	5.0		µg/L	1	9/1/2017 11:32:00 AM
Chloroform	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
1,2-Dichloroethane	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
2-Butanone	ND	10		µg/L	1	9/1/2017 11:32:00 AM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Carbon tetrachloride	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Bromodichloromethane	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
1,2-Dichloropropane	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Trichloroethene	45	5.0		µg/L	1	9/1/2017 11:32:00 AM
Dibromochloromethane	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Benzene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Bromoform	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	9/1/2017 11:32:00 AM
2-Hexanone	ND	10		µg/L	1	9/1/2017 11:32:00 AM
Tetrachloroethene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Toluene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Chlorobenzene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Ethylbenzene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Styrene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
m,p-Xylene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
o-Xylene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Methyl tert-butyl ether	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Dichlorodifluoromethane	ND	10		µg/L	1	9/1/2017 11:32:00 AM
Methyl Acetate	ND	5.0	S	µg/L	1	9/1/2017 11:32:00 AM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: DUP-1

Work Order: 170821039

Collection Date: 8/21/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-003

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Trichlorofluoromethane	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Cyclohexane	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Methyl Cyclohexane	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
1,2-Dibromoethane	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Isopropylbenzene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	9/1/2017 11:32:00 AM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	9/1/2017 11:32:00 AM
Surr: 1,2-Dichloroethane-d4	103	80.3-122		%REC	1	9/1/2017 11:32:00 AM
Surr: 4-Bromofluorobenzene	98.3	74.1-124		%REC	1	9/1/2017 11:32:00 AM
Surr: Toluene-d8	96.1	79.6-110		%REC	1	9/1/2017 11:32:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-8

Work Order: 170821039

Collection Date: 8/21/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-004

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	10		µg/L	1	8/30/2017 6:20:00 PM
Bromomethane	ND	10	S	µg/L	1	8/30/2017 6:20:00 PM
Vinyl chloride	ND	10		µg/L	1	8/30/2017 6:20:00 PM
Chloroethane	ND	10		µg/L	1	8/30/2017 6:20:00 PM
Methylene chloride	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Acetone	ND	10		µg/L	1	8/30/2017 6:20:00 PM
Carbon disulfide	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Chloroform	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
2-Butanone	ND	10		µg/L	1	8/30/2017 6:20:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
1,2-Dichloropropane	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Trichloroethene	14	5.0		µg/L	1	8/30/2017 6:20:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Benzene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Bromoform	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/30/2017 6:20:00 PM
2-Hexanone	ND	10		µg/L	1	8/30/2017 6:20:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Toluene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Chlorobenzene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Styrene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
m,p-Xylene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
o-Xylene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Dichlorodifluoromethane	ND	10		µg/L	1	8/30/2017 6:20:00 PM
Methyl Acetate	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-8

Work Order: 170821039

Collection Date: 8/21/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-004

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed

VOLATILE ORGANICS EPA 8260C (SW5030C PREP)

Analyst: SMD

1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Cyclohexane	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Methyl Cyclohexane	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
1,2-Dibromoethane	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Isopropylbenzene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	8/30/2017 6:20:00 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	8/30/2017 6:20:00 PM
Surr: 1,2-Dichloroethane-d4	106	80.3-122		%REC	1	8/30/2017 6:20:00 PM
Surr: 4-Bromofluorobenzene	99.1	74.1-124		%REC	1	8/30/2017 6:20:00 PM
Surr: Toluene-d8	88.5	79.6-110		%REC	1	8/30/2017 6:20:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-1R

Work Order: 170821039

Collection Date: 8/22/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-005

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	10		µg/L	1	8/30/2017 5:59:00 PM
Bromomethane	ND	10	S	µg/L	1	8/30/2017 5:59:00 PM
Vinyl chloride	ND	10		µg/L	1	8/30/2017 5:59:00 PM
Chloroethane	ND	10		µg/L	1	8/30/2017 5:59:00 PM
Methylene chloride	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Acetone	ND	10		µg/L	1	8/30/2017 5:59:00 PM
Carbon disulfide	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Chloroform	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
2-Butanone	ND	10		µg/L	1	8/30/2017 5:59:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
1,2-Dichloropropane	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Trichloroethene	78	5.0		µg/L	1	8/30/2017 5:59:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Benzene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Bromoform	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/30/2017 5:59:00 PM
2-Hexanone	ND	10		µg/L	1	8/30/2017 5:59:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Toluene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Chlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Styrene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
m,p-Xylene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
o-Xylene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Dichlorodifluoromethane	ND	10		µg/L	1	8/30/2017 5:59:00 PM
Methyl Acetate	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-1R

Work Order: 170821039

Collection Date: 8/22/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-005

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Cyclohexane	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Methyl Cyclohexane	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
1,2-Dibromoethane	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Isopropylbenzene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	8/30/2017 5:59:00 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:59:00 PM
Surr: 1,2-Dichloroethane-d4	103	80.3-122		%REC	1	8/30/2017 5:59:00 PM
Surr: 4-Bromofluorobenzene	98.6	74.1-124		%REC	1	8/30/2017 5:59:00 PM
Surr: Toluene-d8	91.7	79.6-110		%REC	1	8/30/2017 5:59:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-5

Work Order: 170821039

Collection Date: 8/22/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-006

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	10		µg/L	1	8/30/2017 6:41:00 PM
Bromomethane	ND	10	S	µg/L	1	8/30/2017 6:41:00 PM
Vinyl chloride	ND	10		µg/L	1	8/30/2017 6:41:00 PM
Chloroethane	ND	10		µg/L	1	8/30/2017 6:41:00 PM
Methylene chloride	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Acetone	ND	10		µg/L	1	8/30/2017 6:41:00 PM
Carbon disulfide	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Chloroform	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
2-Butanone	ND	10		µg/L	1	8/30/2017 6:41:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
1,2-Dichloropropane	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Trichloroethene	43	5.0		µg/L	1	8/30/2017 6:41:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Benzene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Bromoform	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/30/2017 6:41:00 PM
2-Hexanone	ND	10		µg/L	1	8/30/2017 6:41:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Toluene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Chlorobenzene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Styrene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
m,p-Xylene	ND	10		µg/L	1	8/30/2017 6:41:00 PM
o-Xylene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Dichlorodifluoromethane	ND	10		µg/L	1	8/30/2017 6:41:00 PM
Methyl Acetate	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-5

Work Order: 170821039

Collection Date: 8/22/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-006

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Cyclohexane	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Methyl Cyclohexane	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
1,2-Dibromoethane	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Isopropylbenzene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	8/30/2017 6:41:00 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	8/30/2017 6:41:00 PM
Surr: 1,2-Dichloroethane-d4	115	80.3-122		%REC	1	8/30/2017 6:41:00 PM
Surr: 4-Bromofluorobenzene	97.2	74.1-124		%REC	1	8/30/2017 6:41:00 PM
Surr: Toluene-d8	87.7	79.6-110		%REC	1	8/30/2017 6:41:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-10

Work Order: 170821039

Collection Date: 8/22/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-007

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	20		µg/L	2	9/1/2017 11:56:00 AM
Bromomethane	ND	20		µg/L	2	9/1/2017 11:56:00 AM
Vinyl chloride	ND	20		µg/L	2	9/1/2017 11:56:00 AM
Chloroethane	ND	20		µg/L	2	9/1/2017 11:56:00 AM
Methylene chloride	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Acetone	ND	20		µg/L	2	9/1/2017 11:56:00 AM
Carbon disulfide	ND	10		µg/L	2	9/1/2017 11:56:00 AM
1,1-Dichloroethene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
1,1-Dichloroethane	ND	10		µg/L	2	9/1/2017 11:56:00 AM
trans-1,2-Dichloroethene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
cis-1,2-Dichloroethene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Chloroform	ND	10		µg/L	2	9/1/2017 11:56:00 AM
1,2-Dichloroethane	ND	10		µg/L	2	9/1/2017 11:56:00 AM
2-Butanone	ND	20		µg/L	2	9/1/2017 11:56:00 AM
1,1,1-Trichloroethane	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Carbon tetrachloride	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Bromodichloromethane	ND	10		µg/L	2	9/1/2017 11:56:00 AM
1,2-Dichloropropane	ND	10		µg/L	2	9/1/2017 11:56:00 AM
cis-1,3-Dichloropropene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Trichloroethene	210	10		µg/L	2	9/1/2017 11:56:00 AM
Dibromochloromethane	ND	10		µg/L	2	9/1/2017 11:56:00 AM
1,1,2-Trichloroethane	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Benzene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
trans-1,3-Dichloropropene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Bromoform	ND	10		µg/L	2	9/1/2017 11:56:00 AM
4-Methyl-2-pentanone	ND	20		µg/L	2	9/1/2017 11:56:00 AM
2-Hexanone	ND	20		µg/L	2	9/1/2017 11:56:00 AM
Tetrachloroethene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
1,1,2,2-Tetrachloroethane	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Toluene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Chlorobenzene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Ethylbenzene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Styrene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
m,p-Xylene	ND	20		µg/L	2	9/1/2017 11:56:00 AM
o-Xylene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Methyl tert-butyl ether	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Dichlorodifluoromethane	ND	20		µg/L	2	9/1/2017 11:56:00 AM
Methyl Acetate	ND	10	S	µg/L	2	9/1/2017 11:56:00 AM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-10

Work Order: 170821039

Collection Date: 8/22/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-007

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Trichlorofluoromethane	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Cyclohexane	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Methyl Cyclohexane	ND	10		µg/L	2	9/1/2017 11:56:00 AM
1,2-Dibromoethane	ND	10		µg/L	2	9/1/2017 11:56:00 AM
1,3-Dichlorobenzene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Isopropylbenzene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
1,2-Dichlorobenzene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
1,4-Dichlorobenzene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	2	9/1/2017 11:56:00 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	2	9/1/2017 11:56:00 AM
Surr: 1,2-Dichloroethane-d4	97.9	80.3-122		%REC	2	9/1/2017 11:56:00 AM
Surr: 4-Bromofluorobenzene	98.7	74.1-124		%REC	2	9/1/2017 11:56:00 AM
Surr: Toluene-d8	95.7	79.6-110		%REC	2	9/1/2017 11:56:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-12

Work Order: 170821039

Collection Date: 8/22/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-008

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	10		µg/L	1	8/30/2017 7:03:00 PM
Bromomethane	ND	10	S	µg/L	1	8/30/2017 7:03:00 PM
Vinyl chloride	ND	10		µg/L	1	8/30/2017 7:03:00 PM
Chloroethane	ND	10		µg/L	1	8/30/2017 7:03:00 PM
Methylene chloride	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Acetone	ND	10		µg/L	1	8/30/2017 7:03:00 PM
Carbon disulfide	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
cis-1,2-Dichloroethene	13	5.0		µg/L	1	8/30/2017 7:03:00 PM
Chloroform	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
2-Butanone	ND	10		µg/L	1	8/30/2017 7:03:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
1,2-Dichloropropane	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Trichloroethene	39	5.0		µg/L	1	8/30/2017 7:03:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Benzene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Bromoform	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/30/2017 7:03:00 PM
2-Hexanone	ND	10		µg/L	1	8/30/2017 7:03:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Toluene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Chlorobenzene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Styrene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
m,p-Xylene	ND	10		µg/L	1	8/30/2017 7:03:00 PM
o-Xylene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Dichlorodifluoromethane	ND	10		µg/L	1	8/30/2017 7:03:00 PM
Methyl Acetate	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-12

Work Order: 170821039

Collection Date: 8/22/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-008

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed

VOLATILE ORGANICS EPA 8260C (SW5030C PREP)

Analyst: SMD

1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Cyclohexane	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Methyl Cyclohexane	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
1,2-Dibromoethane	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Isopropylbenzene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	8/30/2017 7:03:00 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	8/30/2017 7:03:00 PM
Surr: 1,2-Dichloroethane-d4	105	80.3-122		%REC	1	8/30/2017 7:03:00 PM
Surr: 4-Bromofluorobenzene	101	74.1-124		%REC	1	8/30/2017 7:03:00 PM
Surr: Toluene-d8	86.8	79.6-110		%REC	1	8/30/2017 7:03:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-6

Work Order: 170821039

Collection Date: 8/22/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-009

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	50		µg/L	5	9/1/2017 12:44:00 PM
Bromomethane	ND	50		µg/L	5	9/1/2017 12:44:00 PM
Vinyl chloride	ND	50		µg/L	5	9/1/2017 12:44:00 PM
Chloroethane	ND	50		µg/L	5	9/1/2017 12:44:00 PM
Methylene chloride	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Acetone	ND	50		µg/L	5	9/1/2017 12:44:00 PM
Carbon disulfide	ND	25		µg/L	5	9/1/2017 12:44:00 PM
1,1-Dichloroethene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
1,1-Dichloroethane	ND	25		µg/L	5	9/1/2017 12:44:00 PM
trans-1,2-Dichloroethene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
cis-1,2-Dichloroethene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Chloroform	ND	25		µg/L	5	9/1/2017 12:44:00 PM
1,2-Dichloroethane	ND	25		µg/L	5	9/1/2017 12:44:00 PM
2-Butanone	ND	50		µg/L	5	9/1/2017 12:44:00 PM
1,1,1-Trichloroethane	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Carbon tetrachloride	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Bromodichloromethane	ND	25		µg/L	5	9/1/2017 12:44:00 PM
1,2-Dichloropropane	ND	25		µg/L	5	9/1/2017 12:44:00 PM
cis-1,3-Dichloropropene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Trichloroethene	440	25		µg/L	5	9/1/2017 12:44:00 PM
Dibromochloromethane	ND	25		µg/L	5	9/1/2017 12:44:00 PM
1,1,2-Trichloroethane	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Benzene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
trans-1,3-Dichloropropene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Bromoform	ND	25		µg/L	5	9/1/2017 12:44:00 PM
4-Methyl-2-pentanone	ND	50		µg/L	5	9/1/2017 12:44:00 PM
2-Hexanone	ND	50		µg/L	5	9/1/2017 12:44:00 PM
Tetrachloroethene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
1,1,2,2-Tetrachloroethane	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Toluene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Chlorobenzene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Ethylbenzene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Styrene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
m,p-Xylene	ND	50		µg/L	5	9/1/2017 12:44:00 PM
o-Xylene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Methyl tert-butyl ether	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Dichlorodifluoromethane	ND	50		µg/L	5	9/1/2017 12:44:00 PM
Methyl Acetate	ND	25	S	µg/L	5	9/1/2017 12:44:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc**Date:** 18-Sep-17**CLIENT:** AECOM Environment**Client Sample ID:** MW-6**Work Order:** 170821039**Collection Date:** 8/22/2017**Reference:** Ward Products Amsterdam /**Lab Sample ID:** 170821039-009**PO#:** 70990ACM**Matrix:** GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Trichlorofluoromethane	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Cyclohexane	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Methyl Cyclohexane	ND	25		µg/L	5	9/1/2017 12:44:00 PM
1,2-Dibromoethane	ND	25		µg/L	5	9/1/2017 12:44:00 PM
1,3-Dichlorobenzene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Isopropylbenzene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
1,2-Dichlorobenzene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
1,4-Dichlorobenzene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
1,2-Dibromo-3-chloropropane	ND	50		µg/L	5	9/1/2017 12:44:00 PM
1,2,4-Trichlorobenzene	ND	25		µg/L	5	9/1/2017 12:44:00 PM
Surr: 1,2-Dichloroethane-d4	99.1	80.3-122		%REC	5	9/1/2017 12:44:00 PM
Surr: 4-Bromofluorobenzene	95.8	74.1-124		%REC	5	9/1/2017 12:44:00 PM
Surr: Toluene-d8	98.8	79.6-110		%REC	5	9/1/2017 12:44:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-13

Work Order: 170821039

Collection Date: 8/22/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-010

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	20		µg/L	2	9/1/2017 12:20:00 PM
Bromomethane	ND	20		µg/L	2	9/1/2017 12:20:00 PM
Vinyl chloride	ND	20		µg/L	2	9/1/2017 12:20:00 PM
Chloroethane	ND	20		µg/L	2	9/1/2017 12:20:00 PM
Methylene chloride	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Acetone	ND	20		µg/L	2	9/1/2017 12:20:00 PM
Carbon disulfide	ND	10		µg/L	2	9/1/2017 12:20:00 PM
1,1-Dichloroethene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
1,1-Dichloroethane	ND	10		µg/L	2	9/1/2017 12:20:00 PM
trans-1,2-Dichloroethene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
cis-1,2-Dichloroethene	60	10		µg/L	2	9/1/2017 12:20:00 PM
Chloroform	ND	10		µg/L	2	9/1/2017 12:20:00 PM
1,2-Dichloroethane	ND	10		µg/L	2	9/1/2017 12:20:00 PM
2-Butanone	ND	20		µg/L	2	9/1/2017 12:20:00 PM
1,1,1-Trichloroethane	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Carbon tetrachloride	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Bromodichloromethane	ND	10		µg/L	2	9/1/2017 12:20:00 PM
1,2-Dichloropropane	ND	10		µg/L	2	9/1/2017 12:20:00 PM
cis-1,3-Dichloropropene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Trichloroethene	100	10		µg/L	2	9/1/2017 12:20:00 PM
Dibromochloromethane	ND	10		µg/L	2	9/1/2017 12:20:00 PM
1,1,2-Trichloroethane	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Benzene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
trans-1,3-Dichloropropene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Bromoform	ND	10		µg/L	2	9/1/2017 12:20:00 PM
4-Methyl-2-pentanone	ND	20		µg/L	2	9/1/2017 12:20:00 PM
2-Hexanone	ND	20		µg/L	2	9/1/2017 12:20:00 PM
Tetrachloroethene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
1,1,2,2-Tetrachloroethane	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Toluene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Chlorobenzene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Ethylbenzene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Styrene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
m,p-Xylene	ND	20		µg/L	2	9/1/2017 12:20:00 PM
o-Xylene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Methyl tert-butyl ether	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Dichlorodifluoromethane	ND	20		µg/L	2	9/1/2017 12:20:00 PM
Methyl Acetate	ND	10	S	µg/L	2	9/1/2017 12:20:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc**Date:** 18-Sep-17**CLIENT:** AECOM Environment**Client Sample ID:** MW-13**Work Order:** 170821039**Collection Date:** 8/22/2017**Reference:** Ward Products Amsterdam /**Lab Sample ID:** 170821039-010**PO#:** 70990ACM**Matrix:** GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Trichlorofluoromethane	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Cyclohexane	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Methyl Cyclohexane	ND	10		µg/L	2	9/1/2017 12:20:00 PM
1,2-Dibromoethane	ND	10		µg/L	2	9/1/2017 12:20:00 PM
1,3-Dichlorobenzene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Isopropylbenzene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
1,2-Dichlorobenzene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
1,4-Dichlorobenzene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	2	9/1/2017 12:20:00 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	2	9/1/2017 12:20:00 PM
Surr: 1,2-Dichloroethane-d4	103	80.3-122		%REC	2	9/1/2017 12:20:00 PM
Surr: 4-Bromofluorobenzene	104	74.1-124		%REC	2	9/1/2017 12:20:00 PM
Surr: Toluene-d8	104	79.6-110		%REC	2	9/1/2017 12:20:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-17

Work Order: 170821039

Collection Date: 8/22/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-011

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	10		µg/L	1	8/30/2017 5:16:00 PM
Bromomethane	ND	10	S	µg/L	1	8/30/2017 5:16:00 PM
Vinyl chloride	ND	10		µg/L	1	8/30/2017 5:16:00 PM
Chloroethane	ND	10		µg/L	1	8/30/2017 5:16:00 PM
Methylene chloride	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Acetone	ND	10		µg/L	1	8/30/2017 5:16:00 PM
Carbon disulfide	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
cis-1,2-Dichloroethene	9.1	5.0		µg/L	1	8/30/2017 5:16:00 PM
Chloroform	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
2-Butanone	ND	10		µg/L	1	8/30/2017 5:16:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
1,2-Dichloropropane	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Trichloroethene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Benzene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Bromoform	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/30/2017 5:16:00 PM
2-Hexanone	ND	10		µg/L	1	8/30/2017 5:16:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Toluene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Chlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Styrene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
m,p-Xylene	ND	10		µg/L	1	8/30/2017 5:16:00 PM
o-Xylene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Dichlorodifluoromethane	ND	10		µg/L	1	8/30/2017 5:16:00 PM
Methyl Acetate	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-17

Work Order: 170821039

Collection Date: 8/22/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-011

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Cyclohexane	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Methyl Cyclohexane	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
1,2-Dibromoethane	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Isopropylbenzene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	8/30/2017 5:16:00 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	8/30/2017 5:16:00 PM
Surr: 1,2-Dichloroethane-d4	106	80.3-122		%REC	1	8/30/2017 5:16:00 PM
Surr: 4-Bromofluorobenzene	96.4	74.1-124		%REC	1	8/30/2017 5:16:00 PM
Surr: Toluene-d8	98.7	79.6-110		%REC	1	8/30/2017 5:16:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-16

Work Order: 170821039

Collection Date: 8/22/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-012

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	10		µg/L	1	8/30/2017 4:55:00 PM
Bromomethane	ND	10	S	µg/L	1	8/30/2017 4:55:00 PM
Vinyl chloride	ND	10		µg/L	1	8/30/2017 4:55:00 PM
Chloroethane	ND	10		µg/L	1	8/30/2017 4:55:00 PM
Methylene chloride	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Acetone	ND	10		µg/L	1	8/30/2017 4:55:00 PM
Carbon disulfide	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Chloroform	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
2-Butanone	ND	10		µg/L	1	8/30/2017 4:55:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
1,2-Dichloropropane	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Trichloroethene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Benzene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Bromoform	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/30/2017 4:55:00 PM
2-Hexanone	ND	10		µg/L	1	8/30/2017 4:55:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Toluene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Chlorobenzene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Styrene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
m,p-Xylene	ND	10		µg/L	1	8/30/2017 4:55:00 PM
o-Xylene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Dichlorodifluoromethane	ND	10		µg/L	1	8/30/2017 4:55:00 PM
Methyl Acetate	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 18-Sep-17

CLIENT: AECOM Environment

Client Sample ID: MW-16

Work Order: 170821039

Collection Date: 8/22/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 170821039-012

PO#: 70990ACM

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Cyclohexane	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Methyl Cyclohexane	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
1,2-Dibromoethane	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Isopropylbenzene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	8/30/2017 4:55:00 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	8/30/2017 4:55:00 PM
Surr: 1,2-Dichloroethane-d4	99.6	80.3-122		%REC	1	8/30/2017 4:55:00 PM
Surr: 4-Bromofluorobenzene	104	74.1-124		%REC	1	8/30/2017 4:55:00 PM
Surr: Toluene-d8	85.1	79.6-110		%REC	1	8/30/2017 4:55:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentitively Identified Compound-Estimated Conc.

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT**BatchID: R150803**

mbk	SeqNo: 2245687	TestNo: SW8260C	RunNo: 150803
	Samp ID: vblk	Units: µg/L	Analysis Date: 8/30/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2-Butanone	ND	10									
2-Hexanone	ND	10									
4-Methyl-2-pentanone	ND	10									
Acetone	ND	10									
Benzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	10									
Carbon disulfide	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	10									
Chloroform	ND	5.0									
Chloromethane	ND	10									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Cyclohexane	ND	5.0									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: R150803

mblk	SeqNo: 2245687	TestNo: SW8260C	RunNo: 150803
	Samp ID: vblk	Units: µg/L	Analysis Date: 8/30/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	ND	5.0									
Dichlorodifluoromethane	ND	10									
Ethylbenzene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methyl Acetate	ND	5.0									
Methyl Cyclohexane	ND	5.0									
Methyl tert-butyl ether	ND	5.0									
Methylene chloride	ND	5.0									
o-Xylene	ND	5.0									
Styrene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
trans-1,3-Dichloropropene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	10									
Surr: 1,2-Dichloroethane-d4	49.2	5.0	50	0	98.4	80.3	122	0	0		
Surr: 4-Bromofluorobenzene	50.65	5.0	50	0	101	74.1	124	0	0		
Surr: Toluene-d8	48.96	5.0	50	0	97.9	79.6	110	0	0		

mblk	SeqNo: 2247532	TestNo: SW8260C	RunNo: 150803
	Samp ID: vblk	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: R150803

mbk	SeqNo: 2247532	TestNo: SW8260C	RunNo: 150803
	Samp ID: vblk	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2-Butanone	ND	10									
2-Hexanone	ND	10									
4-Methyl-2-pentanone	ND	10									
Acetone	ND	10									
Benzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	10									
Carbon disulfide	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	10									
Chloroform	ND	5.0									
Chloromethane	ND	10									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Cyclohexane	ND	5.0									
Dibromochloromethane	ND	5.0									
Dichlorodifluoromethane	ND	10									
Ethylbenzene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methyl Acetate	ND	5.0									
Methyl Cyclohexane	ND	5.0									
Methyl tert-butyl ether	ND	5.0									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: R150803

mbk	SeqNo: 2247532	TestNo: SW8260C	RunNo: 150803
	Samp ID: vblk	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methylene chloride	ND	5.0									
o-Xylene	ND	5.0									
Styrene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
trans-1,3-Dichloropropene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	10									
Surr: 1,2-Dichloroethane-d4	51.53	5.0	50	0	103	80.3	122	0	0		
Surr: 4-Bromofluorobenzene	55.97	5.0	50	0	112	74.1	124	0	0		
Surr: Toluene-d8	48.02	5.0	50	0	96	79.6	110	0	0		

lcs	SeqNo: 2246182	TestNo: SW8260C	RunNo: 150803
	Samp ID: lcs	Units: µg/L	Analysis Date: 8/30/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	50.79	5.0	50	0	102	71.3	131	0	0		
1,1,2,2-Tetrachloroethane	45.53	5.0	50	0	91.1	72.1	126	0	0		
1,1,2-Trichloro-1,2,2-trifluoroethane	30.59	5.0	25	0	122	67.5	132	0	0		
1,1,2-Trichloroethane	50.19	5.0	50	0	100	74.9	122	0	0		
1,1-Dichloroethane	54.41	5.0	50	0	109	73.8	127	0	0		
1,1-Dichloroethene	53.44	5.0	50	0	107	71.6	127	0	0		
1,2,4-Trichlorobenzene	65.25	5.0	50	0	130	69.1	127	0	0		S
1,2-Dibromo-3-chloropropane	53.23	10	50	0	106	67.1	132	0	0		
1,2-Dibromoethane	49.6	5.0	50	0	99.2	74.1	123	0	0		
1,2-Dichlorobenzene	53.08	5.0	50	0	106	71.5	126	0	0		
1,2-Dichloroethane	50.85	5.0	50	0	102	72.3	124	0	0		
1,2-Dichloropropane	47.23	5.0	50	0	94.5	72	125	0	0		
1,3-Dichlorobenzene	53.23	5.0	50	0	106	71.1	123	0	0		
1,4-Dichlorobenzene	54.01	5.0	50	0	108	71.2	126	0	0		
2-Butanone	45.45	10	50	0	90.9	63.4	129	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: R150803

ICS	SeqNo: 2246182	TestNo: SW8260C	RunNo: 150803
	Samp ID: ICS	Units: µg/L	Analysis Date: 8/30/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Hexanone	45.12	10	50	0	90.2	65	137	0	0		
4-Methyl-2-pentanone	40.65	10	50	0	81.3	68.2	126	0	0		
Acetone	40.93	10	50	0	81.9	59.8	139	0	0		
Benzene	48.28	5.0	50	0	96.6	73.6	121	0	0		
Bromodichloromethane	46.74	5.0	50	0	93.5	70.4	123	0	0		
Bromoform	47.3	5.0	50	0	94.6	68.2	119	0	0		
Bromomethane	30.56	10	50	0	61.1	64	120	0	0		S
Carbon disulfide	27.55	5.0	25	0	110	62	134	0	0		
Carbon tetrachloride	50.23	5.0	50	0	100	61.3	123	0	0		
Chlorobenzene	51.03	5.0	50	0	102	69.1	128	0	0		
Chloroethane	52.5	10	50	0	105	63.9	138	0	0		
Chloroform	52.61	5.0	50	0	105	73.3	126	0	0		
Chloromethane	50.49	10	50	0	101	46.7	123	0	0		
cis-1,2-Dichloroethene	50.44	5.0	50	0	101	71.5	128	0	0		
cis-1,3-Dichloropropene	43.27	5.0	50	0	86.5	67	128	0	0		
Cyclohexane	27.11	5.0	25	0	108	71.7	125	0	0		
Dibromochloromethane	48.32	5.0	50	0	96.6	70.6	124	0	0		
Dichlorodifluoromethane	71.7	10	50	0	143	52	116	0	0		S
Ethylbenzene	51.23	5.0	50	0	102	73.9	125	0	0		
Isopropylbenzene	47.36	5.0	50	0	94.7	75.1	117	0	0		
m,p-Xylene	99.8	5.0	100	0	99.8	71.7	134	0	0		
Methyl Acetate	22.1	5.0	25	0	88.4	66.5	131	0	0		
Methyl Cyclohexane	23.17	5.0	25	0	92.7	68	130	0	0		
Methyl tert-butyl ether	25.58	5.0	25	0	102	69.2	127	0	0		
Methylene chloride	50.02	5.0	50	0	100	68.3	128	0	0		
o-Xylene	49.5	5.0	50	0	99	72.2	129	0	0		
Styrene	52	5.0	50	0	104	70	126	0	0		
Tetrachloroethene	50.38	5.0	50	0	101	69.4	124	0	0		
Toluene	43.57	5.0	50	0	87.1	74.2	119	0	0		
trans-1,2-Dichloroethene	54.52	5.0	50	0	109	70.6	128	0	0		
trans-1,3-Dichloropropene	48.76	5.0	50	0	97.5	74.9	123	0	0		
Trichloroethene	53.11	5.0	50	0	106	74.4	117	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: R150803

ICS	SeqNo: 2246182	TestNo: SW8260C	RunNo: 150803
	Samp ID: ICS	Units: µg/L	Analysis Date: 8/30/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane	57.53	5.0	50	0	115	68.3	132	0	0		
Vinyl chloride	55.81	10	50	0	112	63	137	0	0		
Surr: 1,2-Dichloroethane-d4	48.78	5.0	50	0	97.6	80.3	122	0	0		
Surr: 4-Bromofluorobenzene	45.82	5.0	50	0	91.6	74.1	124	0	0		
Surr: Toluene-d8	41.23	5.0	50	0	82.5	79.6	110	0	0		

ICS	SeqNo: 2247537	TestNo: SW8260C	RunNo: 150803
	Samp ID: ICS	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	53.38	5.0	50	0	107	71.3	131	0	0		
1,1,2,2-Tetrachloroethane	47.94	5.0	50	0	95.9	72.1	126	0	0		
1,1,2-Trichloro-1,2,2-trifluoroethane	23.64	5.0	25	0	94.6	67.5	132	0	0		
1,1,2-Trichloroethane	51.41	5.0	50	0	103	74.9	122	0	0		
1,1-Dichloroethane	55.23	5.0	50	0	110	73.8	127	0	0		
1,1-Dichloroethene	52.88	5.0	50	0	106	71.6	127	0	0		
1,2,4-Trichlorobenzene	36.55	5.0	50	0	73.1	69.1	127	0	0		
1,2-Dibromo-3-chloropropane	38.42	10	50	0	76.8	67.1	132	0	0		
1,2-Dibromoethane	49.25	5.0	50	0	98.5	74.1	123	0	0		
1,2-Dichlorobenzene	50.63	5.0	50	0	101	71.5	126	0	0		
1,2-Dichloroethane	50.4	5.0	50	0	101	72.3	124	0	0		
1,2-Dichloropropane	52.36	5.0	50	0	105	72	125	0	0		
1,3-Dichlorobenzene	52.96	5.0	50	0	106	71.1	123	0	0		
1,4-Dichlorobenzene	52.67	5.0	50	0	105	71.2	126	0	0		
2-Butanone	48.76	10	50	0	97.5	63.4	129	0	0		
2-Hexanone	43.38	10	50	0	86.8	65	137	0	0		
4-Methyl-2-pentanone	46.91	10	50	0	93.8	68.2	126	0	0		
Acetone	43.61	10	50	0	87.2	59.8	139	0	0		
Benzene	54.75	5.0	50	0	110	73.6	121	0	0		
Bromodichloromethane	52.39	5.0	50	0	105	70.4	123	0	0		
Bromoform	47.92	5.0	50	0	95.8	68.2	119	0	0		
Bromomethane	33.14	10	50	0	66.3	64	120	0	0		
Carbon disulfide	27.29	5.0	25	0	109	62	134	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: R150803

ICS	SeqNo: 2247537	TestNo: SW8260C	RunNo: 150803
	Samp ID: ics	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon tetrachloride	51.9	5.0	50	0	104	61.3	123	0	0		
Chlorobenzene	58.49	5.0	50	0	117	69.1	128	0	0		
Chloroethane	38.49	10	50	0	77	63.9	138	0	0		
Chloroform	52.35	5.0	50	0	105	73.3	126	0	0		
Chloromethane	39.82	10	50	0	79.6	46.7	123	0	0		
cis-1,2-Dichloroethene	49.17	5.0	50	0	98.3	71.5	128	0	0		
cis-1,3-Dichloropropene	47.88	5.0	50	0	95.8	67	128	0	0		
Cyclohexane	23.24	5.0	25	0	93	71.7	125	0	0		
Dibromochloromethane	51.92	5.0	50	0	104	70.6	124	0	0		
Dichlorodifluoromethane	48.91	10	50	0	97.8	52	116	0	0		
Ethylbenzene	59.67	5.0	50	0	119	73.9	125	0	0		
Isopropylbenzene	52.28	5.0	50	0	105	75.1	117	0	0		
m,p-Xylene	115.4	10	100	0	115	71.7	134	0	0		
Methyl Acetate	14.12	5.0	25	0	56.5	66.5	131	0	0		S
Methyl Cyclohexane	19.02	5.0	25	0	76.1	68	130	0	0		
Methyl tert-butyl ether	26.09	5.0	25	0	104	69.2	127	0	0		
Methylene chloride	51.29	5.0	50	0	103	68.3	128	0	0		
o-Xylene	57.36	5.0	50	0	115	72.2	129	0	0		
Styrene	56.96	5.0	50	0	114	70	126	0	0		
Tetrachloroethene	50.49	5.0	50	0	101	69.4	124	0	0		
Toluene	52.16	5.0	50	0	104	74.2	119	0	0		
trans-1,2-Dichloroethene	53.03	5.0	50	0	106	70.6	128	0	0		
trans-1,3-Dichloropropene	47.03	5.0	50	0	94.1	74.9	123	0	0		
Trichloroethene	56.31	5.0	50	0	113	74.4	117	0	0		
Trichlorofluoromethane	53.95	5.0	50	0	108	68.3	132	0	0		
Vinyl chloride	53.4	10	50	0	107	63	137	0	0		
Surr: 1,2-Dichloroethane-d4	46.86	5.0	50	0	93.7	80.3	122	0	0		
Surr: 4-Bromofluorobenzene	50.62	5.0	50	0	101	74.1	124	0	0		
Surr: Toluene-d8	49.79	5.0	50	0	99.6	79.6	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: R150803

ms	SeqNo: 2246180	TestNo: SW8260C	RunNo: 150803
	Samp ID: 170821039-001a (MW-4R)	Units: µg/L	Analysis Date: 8/30/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	4758	500	5000	0	95.2	73.7	128	0	0		
1,1,2,2-Tetrachloroethane	4583	500	5000	0	91.7	67.2	117	0	0		
1,1,2-Trichloro-1,2,2-trifluoroethane	3433	500	2500	0	137	65.5	128	0	0		S
1,1,2-Trichloroethane	4964	500	5000	0	99.3	68.3	131	0	0		
1,1-Dichloroethane	5838	500	5000	0	117	69.4	128	0	0		
1,1-Dichloroethene	5647	500	5000	0	113	72.4	122	0	0		
1,2,4-Trichlorobenzene	3917	500	5000	0	78.3	63.4	134	0	0		
1,2-Dibromo-3-chloropropane	3527	1000	5000	0	70.5	67.4	121	0	0		
1,2-Dibromoethane	4940	500	5000	0	98.8	70.1	123	0	0		
1,2-Dichlorobenzene	4939	500	5000	0	98.8	68	130	0	0		
1,2-Dichloroethane	5682	500	5000	0	114	74.8	121	0	0		
1,2-Dichloropropane	4897	500	5000	0	97.9	69	125	0	0		
1,3-Dichlorobenzene	5185	500	5000	0	104	73.6	124	0	0		
1,4-Dichlorobenzene	5171	500	5000	0	103	73.4	123	0	0		
2-Butanone	4538	1000	5000	0	90.8	58.6	113	0	0		
2-Hexanone	4259	1000	5000	0	85.2	60.9	130	0	0		
4-Methyl-2-pentanone	4146	1000	5000	0	82.9	49.2	122	0	0		
Acetone	3762	1000	5000	0	75.2	54.7	134	0	0		
Benzene	5142	500	5000	0	103	69.6	129	0	0		
Bromodichloromethane	5030	500	5000	0	101	75.7	125	0	0		
Bromoform	4545	500	5000	0	90.9	71.2	129	0	0		
Bromomethane	5189	1000	5000	0	104	54.7	140	0	0		
Carbon disulfide	2865	500	2500	0	115	63.8	120	0	0		
Carbon tetrachloride	4913	500	5000	0	98.3	75.4	129	0	0		
Chlorobenzene	5313	500	5000	0	106	73.5	129	0	0		
Chloroethane	5803	1000	5000	0	116	68	141	0	0		
Chloroform	5860	500	5000	0	117	72.6	128	0	0		
Chloromethane	4513	1000	5000	0	90.3	52.3	124	0	0		
cis-1,2-Dichloroethene	5462	500	5000	0	109	65	133	0	0		
cis-1,3-Dichloropropene	5265	500	5000	0	105	71	122	0	0		
Cyclohexane	2828	500	2500	0	113	70.4	127	0	0		
Dibromochloromethane	4717	500	5000	0	94.3	69.4	125	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: R150803

ms	SeqNo: 2246180	TestNo: SW8260C	RunNo: 150803
	Samp ID: 170821039-001a (MW-4R)	Units: µg/L	Analysis Date: 8/30/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	7315	1000	5000	0	146	41.6	130	0	0		S
Ethylbenzene	5315	500	5000	0	106	65.1	121	0	0		
Isopropylbenzene	4976	500	5000	0	99.5	66.2	129	0	0		
m,p-Xylene	10260	500	10000	0	103	72.6	124	0	0		
Methyl Acetate	2928	500	2500	0	117	56.6	116	0	0		S
Methyl Cyclohexane	2465	500	2500	0	98.6	60.2	118	0	0		
Methyl tert-butyl ether	2703	500	2500	0	108	66.2	108	0	0		S
Methylene chloride	5343	500	5000	0	107	62.3	113	0	0		
o-Xylene	5281	500	5000	0	106	70	122	0	0		
Styrene	5420	500	5000	0	108	63.8	112	0	0		
Tetrachloroethene	5622	500	5000	661	99.2	73.4	123	0	0		
Toluene	4885	500	5000	0	97.7	73.6	119	0	0		
trans-1,2-Dichloroethene	5642	500	5000	0	113	74.2	129	0	0		
trans-1,3-Dichloropropene	4922	500	5000	0	98.4	70.2	119	0	0		
Trichloroethene	21520	500	5000	18760	55.3	73.4	124	0	0		SE
Trichlorofluoromethane	5873	500	5000	0	117	74.5	133	0	0		
Vinyl chloride	6072	1000	5000	0	121	57.5	139	0	0		
Surr: 1,2-Dichloroethane-d4	5347	500	5000	0	107	80.3	122	0	0		
Surr: 4-Bromofluorobenzene	4808	500	5000	0	96.2	74.1	124	0	0		
Surr: Toluene-d8	4572	500	5000	0	91.4	79.6	110	0	0		

msd	SeqNo: 2246181	TestNo: SW8260C	RunNo: 150803
	Samp ID: 170821039-001a (MW-4R)	Units: µg/L	Analysis Date: 8/30/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	5006	500	5000	0	100	73.7	128	4758	5.08	20.4	
1,1,2,2-Tetrachloroethane	5285	500	5000	0	106	67.2	117	4583	14.2	18.6	
1,1,2-Trichloro-1,2,2-trifluoroethane	3284	500	2500	0	131	65.5	128	3433	4.44	20	S
1,1,2-Trichloroethane	5167	500	5000	0	103	68.3	131	4964	4.01	20	
1,1-Dichloroethane	6151	500	5000	0	123	69.4	128	5838	5.22	19.2	
1,1-Dichloroethene	6124	500	5000	0	122	72.4	122	5647	8.10	16.1	S
1,2,4-Trichlorobenzene	5441	500	5000	0	109	63.4	134	3917	32.6	20	Z
1,2-Dibromo-3-chloropropane	5415	1000	5000	0	108	67.4	121	3527	42.2	20.6	Z

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: R150803

msd	SeqNo: 2246181	TestNo: SW8260C	RunNo: 150803
	Samp ID: 170821039-001a (MW-4R)	Units: µg/L	Analysis Date: 8/30/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	5080	500	5000	0	102	70.1	123	4940	2.79	18.7	
1,2-Dichlorobenzene	5634	500	5000	0	113	68	130	4939	13.1	17.9	
1,2-Dichloroethane	5523	500	5000	0	110	74.8	121	5682	2.84	15.6	
1,2-Dichloropropane	4650	500	5000	0	93	69	125	4897	5.17	21.8	
1,3-Dichlorobenzene	5620	500	5000	0	112	73.6	124	5185	8.05	14.3	
1,4-Dichlorobenzene	5758	500	5000	0	115	73.4	123	5171	10.7	14.4	
2-Butanone	4873	1000	5000	0	97.5	58.6	113	4538	7.12	15	
2-Hexanone	4423	1000	5000	0	88.5	60.9	130	4259	3.78	11.6	
4-Methyl-2-pentanone	4596	1000	5000	0	91.9	49.2	122	4146	10.3	11.9	
Acetone	4818	1000	5000	0	96.4	54.7	134	3762	24.6	10.6	Z
Benzene	4594	500	5000	0	91.9	69.6	129	5142	11.3	18.4	
Bromodichloromethane	5242	500	5000	0	105	75.7	125	5030	4.13	25.6	
Bromoform	5154	500	5000	0	103	71.2	129	4545	12.6	12	Z
Bromomethane	5662	1000	5000	0	113	54.7	140	5189	8.72	16.9	
Carbon disulfide	3162	500	2500	0	126	63.8	120	2865	9.86	13.1	S
Carbon tetrachloride	4744	500	5000	0	94.9	75.4	129	4913	3.50	20.3	
Chlorobenzene	5706	500	5000	0	114	73.5	129	5313	7.13	19.6	
Chloroethane	5004	1000	5000	0	100	68	141	5803	14.8	27.8	
Chloroform	6028	500	5000	0	121	72.6	128	5860	2.83	20.3	
Chloromethane	4856	1000	5000	0	97.1	52.3	124	4513	7.32	18.4	
cis-1,2-Dichloroethene	5683	500	5000	0	114	65	133	5462	3.97	11.3	
cis-1,3-Dichloropropene	5301	500	5000	0	106	71	122	5265	0.681	21.5	
Cyclohexane	2729	500	2500	0	109	70.4	127	2828	3.56	19.1	
Dibromochloromethane	5195	500	5000	0	104	69.4	125	4717	9.64	18.8	
Dichlorodifluoromethane	7053	1000	5000	0	141	41.6	130	7315	3.65	27.3	S
Ethylbenzene	5718	500	5000	0	114	65.1	121	5315	7.31	16.3	
Isopropylbenzene	5504	500	5000	0	110	66.2	129	4976	10.1	20	
m,p-Xylene	11160	500	10000	0	112	72.6	124	10260	8.36	16.1	
Methyl Acetate	3128	500	2500	0	125	56.6	116	2928	6.61	15	S
Methyl Cyclohexane	2161	500	2500	0	86.4	60.2	118	2465	13.1	25.4	
Methyl tert-butyl ether	2909	500	2500	0	116	66.2	108	2703	7.34	17.9	S
Methylene chloride	5513	500	5000	0	110	62.3	113	5343	3.13	21.4	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: R150803

msd	SeqNo: 2246181	TestNo: SW8260C	RunNo: 150803
	Samp ID: 170821039-001a (MW-4R)	Units: µg/L	Analysis Date: 8/30/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	5686	500	5000	0	114	70	122	5281	7.39	13	
Styrene	5864	500	5000	0	117	63.8	112	5420	7.87	21.4	S
Tetrachloroethene	5752	500	5000	661	102	73.4	123	5622	2.29	20.9	
Toluene	5095	500	5000	0	102	73.6	119	4885	4.21	19.4	
trans-1,2-Dichloroethene	5900	500	5000	0	118	74.2	129	5642	4.47	16.1	
trans-1,3-Dichloropropene	5338	500	5000	0	107	70.2	119	4922	8.11	20.3	
Trichloroethene	19960	500	5000	18760	24.1	73.4	124	21520	7.51	16.6	S
Trichlorofluoromethane	5849	500	5000	0	117	74.5	133	5873	0.409	22.8	
Vinyl chloride	6155	1000	5000	0	123	57.5	139	6072	1.36	20.5	
Surr: 1,2-Dichloroethane-d4	5295	500	5000	0	106	80.3	122	0	0	0	
Surr: 4-Bromofluorobenzene	5136	500	5000	0	103	74.1	124	0	0	0	
Surr: Toluene-d8	4762	500	5000	0	95.2	79.6	110	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

QC Batch Summary Report

Batch: R150803

Analyst: SM

SampID	SampType	TestName:	Analysis Date/Time:
bfb	tune	BFB tune	8/29/2017 10:50:00 PM
vstd005	ical	EPA-8260	8/29/2017 11:14:00 PM
vstd010	ical	EPA-8260	8/29/2017 11:35:00 PM
vstd050	ical	EPA-8260	8/30/2017 12:21:00 AM
vstd200	ical	EPA-8260	8/30/2017 1:24:00 AM
vstd100	ical	EPA-8260	8/30/2017 10:10:00 AM
bfb	tune	BFB tune	8/30/2017 2:47:00 PM
vstd050	ccv	EPA-8260	8/30/2017 3:08:00 PM
vblk	mblk	EPA-8260	8/30/2017 4:34:00 PM
170821039-012A	samp	EPA-8260	8/30/2017 4:55:00 PM
170821039-011A	samp	EPA-8260	8/30/2017 5:16:00 PM
170821039-002A	samp	EPA-8260	8/30/2017 5:37:00 PM
170821039-005A	samp	EPA-8260	8/30/2017 5:59:00 PM
170821039-004A	samp	EPA-8260	8/30/2017 6:20:00 PM
170821039-006A	samp	EPA-8260	8/30/2017 6:41:00 PM
170821039-008A	samp	EPA-8260	8/30/2017 7:03:00 PM
170821039-001A	samp	EPA-8260	8/30/2017 8:54:00 PM
170821039-001ams	ms	EPA-8260	8/30/2017 9:16:00 PM
170821039-001amsd	msd	EPA-8260	8/30/2017 9:37:00 PM
lcs	lcs	EPA-8260	8/30/2017 9:58:00 PM
bfb	tune	BFB tune	9/1/2017 9:24:00 AM
vstd050	ccv	EPA-8260	9/1/2017 9:46:00 AM
vblk	mblk	EPA-8260	9/1/2017 11:11:00 AM
170821039-003a	samp	EPA-8260	9/1/2017 11:32:00 AM
170821039-007a	samp	EPA-8260	9/1/2017 11:56:00 AM
170821039-010a	samp	EPA-8260	9/1/2017 12:20:00 PM
170821039-009a	samp	EPA-8260	9/1/2017 12:44:00 PM
lcs	lcs	EPA-8260	9/1/2017 1:06:00 PM

Adirondack Environmental Servies, Inc.

Client: AECOM Environment
WorkOrder 170821039
Project: Ward Products Amsterdam
Test: e8260w

Internal Standard Summary Report

Batch: R150803

SampID	Analysis Time	1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
vstd050	8/30/2017 3:08:00 PM	106333	RT: 12.39	275977	RT: 6.57	211823	RT: 10.11
vblk	8/30/2017 4:34:00 PM	109914	RT: 12.39	302992	RT: 6.57	243737	RT: 10.11
170821039-012A	8/30/2017 4:55:00 PM	107315	RT: 12.39	275781	RT: 6.58	239961	RT: 10.11
170821039-011A	8/30/2017 5:16:00 PM	79823	RT: 12.39	182143	RT: 6.56	157121	RT: 10.11
170821039-002A	8/30/2017 5:37:00 PM	87573	RT: 12.39	215959	RT: 6.56	192391	RT: 10.11
170821039-005A	8/30/2017 5:59:00 PM	98351	RT: 12.39	236996	RT: 6.57	207918	RT: 10.11
170821039-004A	8/30/2017 6:20:00 PM	97682	RT: 12.39	226656	RT: 6.57	205953	RT: 10.11
170821039-006A	8/30/2017 6:41:00 PM	96333	RT: 12.39	218284	RT: 6.57	201588	RT: 10.11
170821039-008A	8/30/2017 7:03:00 PM	93821	RT: 12.39	234680	RT: 6.56	204001	RT: 10.11
170821039-001A	8/30/2017 8:54:00 PM	88764	RT: 12.39	210863	RT: 6.56	180244	RT: 10.11
170821039-001a	8/30/2017 9:16:00 PM	114495	RT: 12.39	231384	RT: 6.56	223684	RT: 10.11
170821039-001a	8/30/2017 9:37:00 PM	120305	RT: 12.39	245665	RT: 6.57	243550	RT: 10.11
lcs	8/30/2017 9:58:00 PM	100558	RT: 12.11	206429	RT: 6.56	185857	RT: 10.11
vstd050	9/1/2017 9:46:00 AM	116657	RT: 12.39	286976	RT: 6.56	247320	RT: 10.11
vblk	9/1/2017 11:11:00 AM	92407	RT: 12.39	260605	RT: 6.57	223983	RT: 10.11
170821039-003A	9/1/2017 11:32:00 AM	88889	RT: 12.39	213187	RT: 6.56	184008	RT: 10.11
170821039-007A	9/1/2017 11:56:00 AM	83860	RT: 12.39	213860	RT: 6.56	184357	RT: 10.11
170821039-010A	9/1/2017 12:20:00 PM	85104	RT: 12.39	252326	RT: 6.57	183557	RT: 10.11
170821039-009A	9/1/2017 12:44:00 PM	81290	RT: 12.39	217255	RT: 6.56	174810	RT: 10.11
lcs	9/1/2017 1:06:00 PM	128331	RT: 12.39	328152	RT: 6.57	275443	RT: 10.11

Adirondack Environmental Services, Inc

Date: 18-Sep-17

Test Code: E8260W

Test Number: SW8260C

Test Name: EPA-8260

Matrix: Water

Units: µg/L

METHOD DETECTION / REPORTING LIMITS

Updated: 19-Apr-17

Type	Analyte	MDL	PQL
A	1,1,1,2-Tetrachloroethane	1.57	5
A	1,1,1-Trichloroethane	1.98	5
A	1,1,2,2-Tetrachloroethane	1.9	5
A	1,1,2-Trichloro-1,2,2-trifluoroethane	1.88	5
A	1,1,2-Trichloroethane	2.01	5
A	1,1-Dichloroethane	1.88	5
A	1,1-Dichloroethene	1.94	5
A	1,1-Dichloropropene	1.8	5
A	1,2,3-Trichlorobenzene	3.64	5
A	1,2,3-Trichloropropane	2.07	5
A	1,2,4-Trichlorobenzene	2.7	5
A	1,2,4-Trimethylbenzene	1.97	5
A	1,2-Dibromo-3-chloropropane	3.09	10
A	1,2-Dibromoethane	1.88	5
A	1,2-Dichlorobenzene	2.15	5
A	1,2-Dichloroethane	1.23	5
A	1,2-Dichloropropane	2.3	5
A	1,3,5-Trimethylbenzene	2.15	5
A	1,3-Dichlorobenzene	2.2	5
A	1,3-Dichloropropane	1.9	5
A	1,4-Dichlorobenzene	2.2	5
A	1,4-Dioxane	17	100
A	1-Bromopropane		10
A	1-Propanol		100
A	2,2-Dichloropropane	0.75	5
A	2-Butanone	1.15	10
A	2-Chloroethanol		10
A	2-Chloroethyl vinyl ether		10
A	2-Chlorotoluene	2.16	5
A	2-Hexanone	0.9	10
A	2-Hydroxypropionitrile		10
A	2-Methyl-1,3-dioxolane		100
A	2-Nitropropane		10
A	2-Pentanone		10
A	2-Picoline		10
A	2-Propanol		100
A	3-Chloropropionitrile		10
A	3-Methyl Thiophene		10
A	4-Chlorotoluene	2.26	5
A	4-Isopropyltoluene	1.76	5
A	4-Methyl-2-pentanone	1.17	10

Test Code: E8260W

Test Number: SW8260C

Test Name: EPA-8260

Matrix: Water

Units: µg/L

**METHOD DETECTION /
REPORTING LIMITS**

Updated: 13-Jan-17

Type	Analyte	MDL	PQL
A	Acetone	1.22	10
A	Acetonitrile	43.1	200
A	Acrolein	5.93	100
A	Acrylonitrile	6.15	25
A	Allyl alcohol		10
A	Allyl chloride	1.39	10
A	Benzene	2.09	5
A	Benzyl chloride		10
A	beta-Propiolactone		10
A	bis-(2-Chloroethyl) Sulfide		10
A	Bromoacetone		10
A	Bromobenzene	2.66	5
A	Bromochloromethane	1.91	5
A	Bromodichloromethane	2.08	5
A	Bromoform	1.88	5
A	Bromomethane	1.2	10
A	Carbon disulfide	2.19	5
A	Carbon tetrachloride	1.43	5
A	Chlorobenzene	2.02	5
A	Chloroethane	2.36	10
A	Chloroform	2.01	5
A	Chloromethane	1.52	10
A	Chloroprene	2.3	20
A	cis-1,2-Dichloroethene	1.64	5
A	cis-1,3-Dichloropropene	1.94	5
A	cis-1,4-Dichloro-2-butene		10
A	Cyclohexane	1.35	5
A	Cyclohexanone		100
A	Dibromochloromethane	1.68	5
A	Dibromomethane	2.29	5
A	Dichlorodifluoromethane	1.06	10
A	Diethyl Ether		5
A	Diisobutylene		5
A	Ethanol	21.4	100
A	Ethyl acetate		50
A	Ethyl Ether		10
A	Ethyl methacrylate		10
A	Ethylbenzene	1.91	5
A	Heptane	1.17	10
A	Hexachlorobutadiene	2.83	10
A	Hexachloroethane		10

Adirondack Environmental Services, Inc

Date: 18-Sep-17

Test Code: E8260W

Test Number: SW8260C

Test Name: EPA-8260

Matrix: Water

Units: µg/L

METHOD DETECTION / REPORTING LIMITS

Updated: 13-Jan-17

Type	Analyte	MDL	PQL
A	Hexane		10
A	Iodomethane	1.43	10
A	Isobutyl Alcohol	28.5	200
A	Isopropyl Alcohol		100
A	Isopropyl ether		50
A	Isopropylbenzene	2.01	5
A	m,p-Xylene	4.36	10
A	Malononitrile		10
A	Methacrylonitrile	16	100
A	Methanol		500
A	Methyl Acetate	0.39	5
A	Methyl Cyclohexane	1.69	5
A	Methyl Formate		10
A	Methyl methacrylate	1.95	5
A	Methyl tert-butyl ether	2.47	5
A	Methylene chloride	1.63	5
A	Naphthalene	2.55	5
A	n-Butanol		100
A	n-Butylbenzene	1.79	5
A	Nitrobenzene		10
A	N-Nitroso-di-n-butylamine		10
A	n-Propylamine		10
A	n-Propylbenzene	1.99	5
A	o-Toluidine		10
A	o-Xylene	2.27	5
A	Paraldehyde		100
A	Pentachloroethane		10
A	Propionitrile	14.3	100
A	Pyridine		10
A	sec-Butylbenzene	1.93	5
A	Styrene	2.13	5
A	t-Amyl Methyl Ether		100
A	t-Butyl alcohol		100
A	tert-Butylbenzene	1.96	5
A	Tetrachloroethene	2.09	5
A	Tetrahydrofuran	4.67	10
A	Toluene	2.08	5
A	Total Volatiles		100
A	trans-1,2-Dichloroethene	1.8	5
A	trans-1,3-Dichloropropene	1.5	5
A	trans-1,4-Dichloro-2-butene	0.78	10

Test Code: E8260W

Test Number: SW8260C

Test Name: EPA-8260

Matrix: Water

Units: µg/L

**METHOD DETECTION /
REPORTING LIMITS**

Updated: 13-Jan-17

Type	Analyte	MDL	PQL
A	Trichloroethene	2.18	5
A	Trichlorofluoromethane	1.31	5
A	Vinyl acetate	8.12	10
A	Vinyl chloride	1.32	10
A	Xylenes, Total		5
I	1,4-Dichlorobenzene-d4		0
I	1,4-Difluorobenzene		0
I	Chlorobenzene-d5		0
S	1,2-Dichloroethane-d4		5
S	4-Bromofluorobenzene		5
S	Toluene-d8		5

Method Path : C:\msdchem\1\qtmethods\
 Method File : fixedw8260-082917.M
 Title : Voa Calibration 8260 Water
 Last Update : Wed Aug 30 10:32:28 2017
 Response Via : Initial Calibration

Calibration Files

200 =d7311.D 100 =d7324.D 50 =d7308.D 5 =d7305.D 10 =d7306.D

	Compound	200	100	50	5	10	Avg	%RSD
1) I	1,4-Difluorobenzene	-----ISTD-----						
2)	Dichlorodifluo...	0.261	0.389	0.248	0.263	0.285	0.289	19.86
3)	Chloromethane	0.501	0.458	0.466	0.619	0.501	0.509	12.68
4)	Vinyl Chloride	0.377	0.373	0.328	0.349	0.341	0.354	6.00
5)	Bromomethane	0.132	0.172	0.120	0.147	0.151	0.144	13.66
6)	Chloroethane	0.218	0.224	0.173	0.254	0.201	0.214	13.96
7)	Acrolein	0.062	0.066	0.045	0.053	0.048	0.055	16.24
8)	Trichlorofluor...	0.488	0.585	0.428	0.471	0.474	0.489	11.87
9)	Freon113	0.224	0.297	0.178	0.234	0.205	0.227	19.45
10)	1,1-Dichloroet...	0.321	0.298	0.236	0.267	0.287	0.282	11.46
11)	Allyl Chloride	1.314	1.230	0.945	1.146	1.094	1.146	12.23
12)	Carbon Disulfide	0.928	0.831	0.671	0.788	0.776	0.799	11.69
13)	Acetone	0.228	0.180	0.187	0.246	0.232	0.214	13.71
14)	Iodomethane	0.429	0.348	0.233	0.119	0.169	0.259	49.32
15)	Acetonitrile	0.045	0.039	0.037	0.078	0.028	0.046	41.72
16)	Methyl Acetate	0.320	0.416	0.258	0.310	0.270	0.315	19.78
17)	Methylene Chlo...	0.396	0.350	0.286	0.422	0.348	0.360	14.47
18)	Acrylonitrile	0.202	0.173	0.168	0.178	0.152	0.175	10.22
19)	trans-1,2-Dich...	0.377	0.323	0.307	0.286	0.298	0.318	11.15
20)	Mtbe	1.403	1.231	1.131	1.151	1.156	1.215	9.22
21)	1,1-Dichloroet...	0.740	0.655	0.615	0.590	0.611	0.642	9.26
22)	Hexane	0.134	0.232	0.133	0.153	0.138	0.158	26.80
23)	cis-1,2-Dichlo...	0.670	0.599	0.532	0.542	0.528	0.574	10.62
24)	2,2-Dichloropr...	0.490	0.630	0.408	0.445	0.416	0.478	19.02
25)	Propionitrile	0.076	0.063	0.063	0.061	0.051	0.063	14.44
26)	Bromochloromet...	0.221	0.200	0.179	0.180	0.179	0.192	9.85
27)	Methacrylonitrile	0.215	0.185	0.175	0.158	0.169	0.180	11.94
28)	Chloroform	0.759	0.662	0.634	0.671	0.608	0.667	8.59
29)	Cyclohexane	0.437	0.530	0.381	0.387	0.380	0.423	15.18
30)	1,1-Dichloro-1...	0.552	0.477	0.449	0.456	0.410	0.469	11.13
31)	1,2-Dichloroet...	0.721	0.637	0.587	0.634	0.534	0.623	11.15
32)	2-Butanone	0.263	0.229	0.232	0.234	0.212	0.234	7.90
33) s	1,2-Dichloroet...	0.432	0.397	0.396	0.401	0.376	0.400	5.03
34) I	Chlorobenzene-d5	-----ISTD-----						
35)	1,1,1-Trichlor...	0.841	0.709	0.693	0.705	0.816	0.753	9.26
36)	Carbon Tetrach...	0.735	0.626	0.599	0.589	0.684	0.647	9.53
37)	Benzene	1.948	1.596	1.591	1.527	1.610	1.654	10.11
38)	Isobutanol	0.029	0.021	0.024	0.021	0.020	0.023	15.25
39)	Heptane	0.316	0.546	0.322	0.313	0.393	0.378	26.26
40)	Trichloroethene	0.450	0.428	0.416	0.397	0.480	0.434	7.39
41)	Methyl Cyclohe...	0.552	0.702	0.494	0.504	0.592	0.569	14.79
42)	1,2-Dichloropr...	0.492	0.412	0.411	0.408	0.462	0.437	8.67
43)	Vinyl Acetate	0.740	1.021	0.604	0.503	0.664	0.706	27.74

Method Path : C:\msdchem\1\qtmethods\ Method File : fixedw8260-082917.M								
44)	Dibromomethane	0.373	0.274	0.294	0.296	0.358	0.319	13.72
45)	1,4-Dioxane	0.007	0.005	0.006	0.005	0.006	0.006	16.84
46)	Methyl Methacr...	0.463	0.351	0.371	0.355	0.403	0.388	11.94
47)	Bromodichlorom...	0.751	0.579	0.593	0.575	0.701	0.640	12.63
48)	2-Chloroethyl ...						0.000	-1.00
49)	cis-1,3-Dichlo...	0.798	0.700	0.610	0.539	0.677	0.665	14.66
50)	trans-1,3-Dich...	0.765	0.668	0.589	0.491	0.663	0.635	16.11
51)	1,1,2-Trichlor...	0.465	0.380	0.380	0.360	0.418	0.400	10.40
52)	1,3-Dichloropr...	0.845	0.700	0.685	0.676	0.787	0.739	10.03
53)	1,2-Dibromoethane	0.433	0.406	0.388	0.366	0.400	0.398	6.16
54)	Dibromochlorom...	0.573	0.488	0.470	0.440	0.519	0.498	10.26
55)	Bromoform	0.355	0.345	0.329	0.335	0.366	0.346	4.36
56)	4-Methyl-2-Pen...	0.678	0.557	0.572	0.515	0.624	0.589	10.77
57) s	Toluene-d8	1.498	1.337	1.357	1.307	1.549	1.410	7.60
58)	Toluene	1.277	1.059	1.042	1.027	1.174	1.116	9.59
59)	Ethyl Metacrylate	0.784	0.648	0.602	0.509	0.663	0.641	15.56
60)	Tetrachloroethene	0.418	0.349	0.347	0.364	0.399	0.375	8.43
61)	2-Hexanone	0.464	0.388	0.400	0.315	0.412	0.396	13.58

62) I	1,4-Dichlorobenzen...	-----ISTD-----						
63)	Chlorobenzene	2.235	2.237	2.438	2.159	1.964	2.206	7.72
64)	1,1,1,2-Tetrac...	0.866	0.837	0.923	0.831	0.796	0.851	5.58
65)	Ethylbenzene	1.230	1.214	1.346	1.091	1.130	1.202	8.22
66)	m,p-Xylene	3.167	3.178	3.471	2.920	3.058	3.159	6.43
67)	o-Xylene	1.492	1.488	1.673	1.455	1.463	1.514	5.96
68)	Styrene	2.481	2.495	2.645	2.129	2.266	2.403	8.50
69)	Isopropylbenzene	3.904	3.946	4.414	3.656	3.926	3.969	6.93
70)	Chloroprene	0.150	0.163	0.151	0.135	0.149	0.150	6.63
71)	trans-1,4-Dich...	0.119	0.124	0.108	0.106	0.095	0.110	10.31
72)	Bromobenzene	1.747	1.833	1.938	1.793	1.805	1.823	3.91
73)	1,2,3-Trichlor...	1.163	1.193	1.262	1.203	1.249	1.214	3.37
74)	2-Chlorotoluene	2.563	2.683	2.906	2.616	2.720	2.698	4.87
75)	4-Chlorotoluene	2.889	3.086	3.164	2.823	3.011	2.995	4.66
76)	1,3,5-Trimethy...	3.151	3.366	3.674	2.874	3.265	3.266	8.97
77)	tert-Butylbenzene	2.697	2.835	3.152	2.643	2.852	2.836	6.98
78)	1,2,4-Trimethy...	3.149	3.342	3.503	2.959	3.208	3.232	6.34
79) S	Bromofluoroben...	0.954	1.047	1.151	1.033	1.075	1.052	6.77
80)	1,1,2,2-Tetrac...	0.879	0.937	1.024	0.995	0.990	0.965	5.96
81)	n-Propylbenzene	4.214	4.427	4.696	4.150	4.182	4.334	5.30
82)	1,3-Dichlorobe...	1.558	1.649	1.614	1.450	1.652	1.585	5.31
83)	sec-Butylbenzene	3.572	3.896	4.152	3.514	3.609	3.748	7.19
84)	4-Isopropyltol...	3.116	3.375	3.508	3.125	3.173	3.259	5.34
85)	1,4-Dichlorobe...	1.533	1.588	1.531	1.532	1.586	1.554	1.92
86)	1,2-Dichlorobe...	1.581	1.512	1.477	1.525	1.573	1.533	2.84
87)	n-Butylbenzene	2.621	2.634	2.498	2.260	2.295	2.461	7.18
88)	1,2-Dibromo-3-...	0.145	0.122	0.149	0.184	0.144	0.149	14.99
89)	1,2,4-Trichlor...	0.637	0.557	0.549	0.585	0.546	0.575	6.62
90)	Hexachlorobuta...	0.456	0.481	0.459	0.518	0.482	0.479	5.14
91)	Naphthalene	0.890	0.617	0.710	1.190	0.800	0.841	26.11
92)	1,2,3-Trichlor...	0.387	0.321	0.352	0.347	0.333	0.348	7.23

(#) = Out of Range

Data Path : C:\msdchem\1\DATA\083017\
 Data File : d7337.D
 Acq On : 30 Aug 2017 15:08
 Operator :
 Sample : vstd050
 Misc : ccv e8260w
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 30 15:34:09 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Difluorobenzene	1.000	1.000	0.0	86	0.00
2	Dichlorodifluoromethane	0.289	0.318	-10.0	110	0.00
3	Chloromethane	0.509	0.455	10.6	84	0.02
4	Vinyl Chloride	0.354	0.337	4.8	88	0.00
5	Bromomethane	0.144	0.169	-17.4	120	0.02
6	Chloroethane	0.214	0.198	7.5	98	0.02
7	Acrolein	0.055	0.059	-7.3	114	0.02
8	Trichlorofluoromethane	0.489	0.522	-6.7	104	0.02
9	Freon113	0.227	0.269	-18.5	129	0.02
10	1,1-Dichloroethene	0.282	0.293	-3.9	106	0.02
11	Allyl Chloride	1.146	1.152	-0.5	104	0.02
12	Carbon Disulfide	0.799	0.820	-2.6	105	0.02
13	Acetone	0.214	0.182	15.0	83	0.02
14	Iodomethane	0.259	0.283	-9.3	104	0.02
15	Acetonitrile	0.046	0.038	17.4	87	0.02
16	Methyl Acetate	0.315	0.364	-15.6	121	0.02
17	Methylene Chloride	0.360	0.353	1.9	106	0.02
18	Acrylonitrile	0.175	0.167	4.6	85	0.02
19	trans-1,2-Dichloroethene	0.318	0.329	-3.5	92	0.02
20	Mtbe	1.215	1.227	-1.0	93	0.02
21	1,1-Dichloroethane	0.642	0.670	-4.4	93	0.01
22	Hexane	0.158	0.183	-15.8	118	0.01
23	cis-1,2-Dichloroethene	0.574	0.607	-5.7	98	0.02
24	2,2-Dichloropropane	0.478	0.568	-18.8	119	0.01
25	Propionitrile	0.063	0.059	6.3	80	0.01
26	Bromochloromethane	0.192	0.193	-0.5	92	0.00
27	Methacrylonitrile	0.180	0.175	2.8	86	0.00
28	Chloroform	0.667	0.675	-1.2	91	0.01
29	Cyclohexane	0.423	0.440	-4.0	99	0.00
30	1,1-Dichloro-1-propene	0.469	0.472	-0.6	90	0.00
31	1,2-Dichloroethane	0.623	0.621	0.3	91	0.01
32	2-Butanone	0.234	0.215	8.1	79	0.02
33 s	1,2-Dichloroethane-d4	0.400	0.404	-1.0	87	0.01
34 I	Chlorobenzene-d5	1.000	1.000	0.0	76	0.00
35	1,1,1-Trichloroethane	0.753	0.775	-2.9	85	0.01
36	Carbon Tetrachloride	0.647	0.698	-7.9	89	0.01
37	Benzene	1.654	1.951	-18.0	94	0.00
38	Isobutanol	0.023	0.025	-8.7	78	0.01
39	Heptane	0.378	0.511	-35.2#	121	0.00
40	Trichloroethene	0.434	0.500	-15.2	92	0.00
41	Methyl Cyclohexane	0.569	0.720	-26.5#	111	0.00
42	1,2-Dichloropropane	0.437	0.478	-9.4	89	0.00
43	Vinyl Acetate	0.706	0.966	-36.8#	122	0.01
44	Dibromomethane	0.319	0.317	0.6	82	0.00
45	1,4-Dioxane	0.006	0.006	0.0	71	0.00
46	Methyl Methacrylate	0.388	0.398	-2.6	82	0.00
47	Bromodichloromethane	0.640	0.654	-2.2	84	0.00
48	2-Chloroethyl vinyl ether	0.000	0.000	0.0	0#	-8.07#
49	cis-1,3-Dichloropropene	0.665	0.673	-1.2	84	0.00
50	trans-1,3-Dichloropropene	0.635	0.622	2.0	81	0.00
51	1,1,2-Trichloroethane	0.400	0.380	5.0	76	0.00
52	1,3-Dichloropropane	0.739	0.703	4.9	78	0.00
53	1,2-Dibromoethane	0.398	0.390	2.0	77	0.00

Data Path : C:\msdchem\1\DATA\083017\
 Data File : d7337.D
 Acq On : 30 Aug 2017 15:08
 Operator :
 Sample : vstd050
 Misc : ccv e8260w
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 30 15:34:09 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	Dibromochloromethane	0.498	0.502	-0.8	82	0.00
55	Bromoform	0.346	0.324	6.4	75	0.00
56	4-Methyl-2-Pentanone	0.589	0.555	5.8	74	0.00
57 s	Toluene-d8	1.410	1.349	4.3	76	0.00
58	Toluene	1.116	1.075	3.7	79	0.00
59	Ethyl Metacrylate	0.641	0.611	4.7	78	0.00
60	Tetrachloroethene	0.375	0.346	7.7	76	0.00
61	2-Hexanone	0.396	0.367	7.3	70	0.00
62 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	84	0.00
63	Chlorobenzene	2.206	2.290	-3.8	79	0.00
64	1,1,1,2-Tetrachloroethane	0.851	0.852	-0.1	77	0.00
65	Ethylbenzene	1.202	1.273	-5.9	79	0.00
66	m,p-Xylene	3.159	3.299	-4.4	80	0.00
67	o-Xylene	1.514	1.549	-2.3	78	0.00
68	Styrene	2.403	2.505	-4.2	79	0.00
69	Isopropylbenzene	3.969	4.043	-1.9	77	0.00
70	Chloroprene	0.150	0.151	-0.7	84	0.00
71	trans-1,4-Dichloro-2-butene	0.110	0.121	-10.0	94	0.00
72	Bromobenzene	1.823	1.870	-2.6	81	0.00
73	1,2,3-Trichloropropane	1.214	1.206	0.7	80	0.00
74	2-Chlorotoluene	2.698	2.809	-4.1	81	0.00
75	4-Chlorotoluene	2.995	3.083	-2.9	82	0.00
76	1,3,5-Trimethylbenzene	3.266	3.435	-5.2	78	0.00
77	tert-Butylbenzene	2.836	2.860	-0.8	76	0.00
78	1,2,4-Trimethylbenzene	3.232	3.380	-4.6	81	0.00
79 S	Bromofluorobenzene	1.052	1.072	-1.9	78	0.00
80	1,1,2,2-Tetrachloroethane	0.965	0.962	0.3	79	0.00
81	n-Propylbenzene	4.334	4.440	-2.4	79	0.00
82	1,3-Dichlorobenzene	1.585	1.614	-1.8	84	0.00
83	sec-Butylbenzene	3.748	3.954	-5.5	80	0.00
84	4-Isopropyltoluene	3.259	3.371	-3.4	81	0.00
85	1,4-Dichlorobenzene	1.554	1.579	-1.6	86	0.00
86	1,2-Dichlorobenzene	1.533	1.483	3.3	84	0.00
87	n-Butylbenzene	2.461	2.520	-2.4	85	0.00
88	1,2-Dibromo-3-Chloropr	0.149	0.134	10.1	75	0.00
89	1,2,4-Trichlorobenzene	0.575	0.462	19.7	71	0.00
90	Hexachlorobutadiene	0.479	0.428	10.6	78	0.00
91	Naphthalene	0.841	0.652	22.5	77	0.00
92	1,2,3-Trichlorobenzene	0.348	0.243	30.2#	58	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : C:\msdchem\1\DATA\090117\
 Data File : d7451.D
 Acq On : 1 Sep 2017 9:46
 Operator :
 Sample : vstd050
 Misc : ccv e8260w
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 01 10:06:02 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Difluorobenzene	1.000	1.000	0.0	89	0.00
2	Dichlorodifluoromethane	0.289	0.215	25.6#	77	0.00
3	Chloromethane	0.509	0.398	21.8	76	0.00
4	Vinyl Chloride	0.354	0.358	-1.1	97	0.00
5	Bromomethane	0.144	0.112	22.2	83	0.02
6	Chloroethane	0.214	0.193	9.8	99	0.00
7	Acrolein	0.055	0.048	12.7	96	0.00
8	Trichlorofluoromethane	0.489	0.472	3.5	98	0.01
9	Freon113	0.227	0.197	13.2	98	0.00
10	1,1-Dichloroethene	0.282	0.301	-6.7	114	0.01
11	Allyl Chloride	1.146	1.181	-3.1	111	0.01
12	Carbon Disulfide	0.799	0.846	-5.9	112	0.01
13	Acetone	0.214	0.183	14.5	87	0.00
14	Iodomethane	0.259	0.278	-7.3	106	0.00
15	Acetonitrile	0.046	0.039	15.2	93	0.01
16	Methyl Acetate	0.315	0.259	17.8	89	0.00
17	Methylene Chloride	0.360	0.369	-2.5	115	0.01
18	Acrylonitrile	0.175	0.171	2.3	90	0.00
19	trans-1,2-Dichloroethene	0.318	0.344	-8.2	100	0.01
20	Mtbe	1.215	1.260	-3.7	99	0.00
21	1,1-Dichloroethane	0.642	0.687	-7.0	99	0.00
22	Hexane	0.158	0.098	38.0#	65	0.00
23	cis-1,2-Dichloroethene	0.574	0.585	-1.9	98	0.01
24	2,2-Dichloropropane	0.478	0.374	21.8	82	0.00
25	Propionitrile	0.063	0.062	1.6	88	0.00
26	Bromochloromethane	0.192	0.204	-6.2	101	0.00
27	Methacrylonitrile	0.180	0.185	-2.8	94	0.00
28	Chloroform	0.667	0.710	-6.4	100	0.00
29	Cyclohexane	0.423	0.403	4.7	94	0.00
30	1,1-Dichloro-1-propene	0.469	0.511	-9.0	101	0.00
31	1,2-Dichloroethane	0.623	0.645	-3.5	98	0.00
32	2-Butanone	0.234	0.223	4.7	85	0.00
33 s	1,2-Dichloroethane-d4	0.400	0.390	2.5	88	0.00
34 I	Chlorobenzene-d5	1.000	1.000	0.0	89	0.00
35	1,1,1-Trichloroethane	0.753	0.757	-0.5	97	0.00
36	Carbon Tetrachloride	0.647	0.670	-3.6	100	0.00
37	Benzene	1.654	1.813	-9.6	102	0.00
38	Isobutanol	0.023	0.023	0.0	86	0.00
39	Heptane	0.378	0.247	34.7#	68	0.00
40	Trichloroethene	0.434	0.478	-10.1	102	0.00
41	Methyl Cyclohexane	0.569	0.453	20.4	82	0.00
42	1,2-Dichloropropane	0.437	0.431	1.4	93	0.00
43	Vinyl Acetate	0.706	0.467	33.9#	69	0.00
44	Dibromomethane	0.319	0.307	3.8	93	0.01
45	1,4-Dioxane	0.006	0.006	0.0	83	0.00
46	Methyl Methacrylate	0.388	0.383	1.3	92	0.00
47	Bromodichloromethane	0.640	0.653	-2.0	98	0.00
48	2-Chloroethyl vinyl ether	0.000	0.006	0.0	0#	-0.19
49	cis-1,3-Dichloropropene	0.665	0.681	-2.4	100	0.00
50	trans-1,3-Dichloropropene	0.635	0.617	2.8	93	0.00
51	1,1,2-Trichloroethane	0.400	0.420	-5.0	99	0.00
52	1,3-Dichloropropane	0.739	0.747	-1.1	97	0.00
53	1,2-Dibromoethane	0.398	0.424	-6.5	97	0.00

Data Path : C:\msdchem\1\DATA\090117\
 Data File : d7451.D
 Acq On : 1 Sep 2017 9:46
 Operator :
 Sample : vstd050
 Misc : ccv e8260w
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 01 10:06:02 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	Dibromochloromethane	0.498	0.534	-7.2	101	0.00
55	Bromoform	0.346	0.305	11.8	83	0.00
56	4-Methyl-2-Pentanone	0.589	0.571	3.1	89	0.00
57 s	Toluene-d8	1.410	1.330	5.7	87	0.00
58	Toluene	1.116	1.163	-4.2	100	0.00
59	Ethyl Metacrylate	0.641	0.650	-1.4	96	0.00
60	Tetrachloroethene	0.375	0.386	-2.9	99	0.00
61	2-Hexanone	0.396	0.378	4.5	84	0.00
62 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	92	0.00
63	Chlorobenzene	2.206	2.647	-20.0	100	0.00
64	1,1,1,2-Tetrachloroethane	0.851	0.999	-17.4	100	0.00
65	Ethylbenzene	1.202	1.420	-18.1	97	0.00
66	m,p-Xylene	3.159	3.657	-15.8	97	0.00
67	o-Xylene	1.514	1.538	-1.6	85	0.00
68	Styrene	2.403	2.491	-3.7	87	0.00
69	Isopropylbenzene	3.969	4.116	-3.7	86	0.00
70	Chloroprene	0.150	0.131	12.7	80	0.00
71	trans-1,4-Dichloro-2-butene	0.110	0.095	13.6	81	0.00
72	Bromobenzene	1.823	1.983	-8.8	94	0.00
73	1,2,3-Trichloropropane	1.214	1.217	-0.2	89	0.00
74	2-Chlorotoluene	2.698	3.070	-13.8	97	0.00
75	4-Chlorotoluene	2.995	3.460	-15.5	101	0.00
76	1,3,5-Trimethylbenzene	3.266	3.890	-19.1	97	0.00
77	tert-Butylbenzene	2.836	3.309	-16.7	97	0.00
78	1,2,4-Trimethylbenzene	3.232	3.759	-16.3	99	0.00
79 S	Bromofluorobenzene	1.052	1.027	2.4	82	0.00
80	1,1,2,2-Tetrachloroethane	0.965	0.998	-3.4	90	0.00
81	n-Propylbenzene	4.334	5.001	-15.4	98	0.00
82	1,3-Dichlorobenzene	1.585	1.717	-8.3	98	0.00
83	sec-Butylbenzene	3.748	4.346	-16.0	96	0.00
84	4-Isopropyltoluene	3.259	3.676	-12.8	96	0.00
85	1,4-Dichlorobenzene	1.554	1.689	-8.7	101	0.00
86	1,2-Dichlorobenzene	1.533	1.622	-5.8	101	0.00
87	n-Butylbenzene	2.461	2.565	-4.2	94	0.00
88	1,2-Dibromo-3-Chloropr	0.149	0.125	16.1	77	0.00
89	1,2,4-Trichlorobenzene	0.575	0.532	7.5	89	0.00
90	Hexachlorobutadiene	0.479	0.454	5.2	91	0.00
91	Naphthalene	0.841	0.466	44.6#	60	0.00
92	1,2,3-Trichlorobenzene	0.348	0.295	15.2	77	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT**BatchID: R150803**

CCV	SeqNo: 2245686	TestNo: SW8260C	RunNo: 150803
	Samp ID: vstd050	Units: µg/L	Analysis Date: 8/30/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	51.46	5.0	50	0	103	80	120	0	0		
1,1,2,2-Tetrachloroethane	49.87	5.0	50	0	99.7	80	120	0	0		
1,1,2-Trichloro-1,2,2-trifluoroethane	59.02	5.0	50	0	118	80	120	0	0		
1,1,2-Trichloroethane	47.45	5.0	50	0	94.9	80	120	0	0		
1,1-Dichloroethane	52.12	5.0	50	0	104	80	120	0	0		
1,1-Dichloroethene	51.97	5.0	50	0	104	80	120	0	0		
1,2,4-Trichlorobenzene	40.18	5.0	50	0	80.4	80	120	0	0		
1,2-Dibromo-3-chloropropane	45.05	10	50	0	90.1	80	120	0	0		
1,2-Dibromoethane	48.91	5.0	50	0	97.8	80	120	0	0		
1,2-Dichlorobenzene	48.37	5.0	50	0	96.7	80	120	0	0		
1,2-Dichloroethane	49.86	5.0	50	0	99.7	80	120	0	0		
1,2-Dichloropropane	54.7	5.0	50	0	109	80	120	0	0		
1,3-Dichlorobenzene	50.92	5.0	50	0	102	80	120	0	0		
1,4-Dichlorobenzene	50.82	5.0	50	0	102	80	120	0	0		
2-Butanone	45.96	10	50	0	91.9	80	120	0	0		
2-Hexanone	46.35	10	50	0	92.7	80	120	0	0		
4-Methyl-2-pentanone	47.1	10	50	0	94.2	80	120	0	0		
Acetone	42.43	10	50	0	84.9	80	120	0	0		
Benzene	58.97	5.0	50	0	118	80	120	0	0		
Bromodichloromethane	51.14	5.0	50	0	102	80	120	0	0		
Bromoform	46.77	5.0	50	0	93.5	80	120	0	0		
Bromomethane	58.43	10	50	0	117	80	120	0	0		
Carbon disulfide	51.31	5.0	50	0	103	80	120	0	0		
Carbon tetrachloride	53.96	5.0	50	0	108	80	120	0	0		
Chlorobenzene	51.9	5.0	50	0	104	80	120	0	0		
Chloroethane	46.21	10	50	0	92.4	80	120	0	0		
Chloroform	50.6	5.0	50	0	101	80	120	0	0		
Chloromethane	44.73	10	50	0	89.5	80	120	0	0		
cis-1,2-Dichloroethene	52.89	5.0	50	0	106	80	120	0	0		
cis-1,3-Dichloropropene	50.62	5.0	50	0	101	80	120	0	0		
Cyclohexane	52.08	5.0	50	0	104	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: R150803

CCV	SeqNo: 2245686	TestNo: SW8260C	RunNo: 150803
	Samp ID: vstd050	Units: µg/L	Analysis Date: 8/30/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	50.39	5.0	50	0	101	80	120	0	0		
Dichlorodifluoromethane	55.07	10	50	0	110	80	120	0	0		
Ethylbenzene	52.96	5.0	50	0	106	80	120	0	0		
Isopropylbenzene	50.94	5.0	50	0	102	80	120	0	0		
m,p-Xylene	104.4	10	100	0	104	80	120	0	0		
Methyl Acetate	57.9	5.0	50	0	116	80	120	0	0		
Methyl Cyclohexane	63.26	5.0	50	0	127	80	120	0	0		S
Methyl tert-butyl ether	101	5.0	100	0	101	80	120	0	0		
Methylene chloride	48.99	5.0	50	0	98	80	120	0	0		
o-Xylene	51.14	5.0	50	0	102	80	120	0	0		
Styrene	52.11	5.0	50	0	104	80	120	0	0		
Tetrachloroethene	46.14	5.0	50	0	92.3	80	120	0	0		
Toluene	48.19	5.0	50	0	96.4	80	120	0	0		
trans-1,2-Dichloroethene	51.68	5.0	50	0	103	80	120	0	0		
trans-1,3-Dichloropropene	48.98	5.0	50	0	98	80	120	0	0		
Trichloroethene	57.64	5.0	50	0	115	80	120	0	0		
Trichlorofluoromethane	53.31	5.0	50	0	107	80	120	0	0		
Vinyl chloride	47.59	10	50	0	95.2	80	120	0	0		
Surr: 1,2-Dichloroethane-d4	50.39	5.0	50	0	101	80.7	120	0	0		
Surr: 4-Bromofluorobenzene	50.93	5.0	50	0	102	80.2	127	0	0		
Surr: Toluene-d8	47.84	5.0	50	0	95.7	79.9	127	0	0		

CCV	SeqNo: 2247531	TestNo: SW8260C	RunNo: 150803
	Samp ID: vstd050	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	50.29	5.0	50	0	101	80	120	0	0		
1,1,2,2-Tetrachloroethane	51.74	5.0	50	0	103	80	120	0	0		
1,1,2-Trichloro-1,2,2-trifluoroethane	43.29	5.0	50	0	86.6	80	120	0	0		
1,1,2-Trichloroethane	52.49	5.0	50	0	105	80	120	0	0		
1,1-Dichloroethane	53.46	5.0	50	0	107	80	120	0	0		
1,1-Dichloroethene	53.35	5.0	50	0	107	80	120	0	0		
1,2,4-Trichlorobenzene	46.28	5.0	50	0	92.6	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: R150803

CCV	SeqNo: 2247531	TestNo: SW8260C	RunNo: 150803
	Samp ID: vstd050	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	42.01	10	50	0	84	80	120	0	0		
1,2-Dibromoethane	53.16	5.0	50	0	106	80	120	0	0		
1,2-Dichlorobenzene	52.88	5.0	50	0	106	80	120	0	0		
1,2-Dichloroethane	51.8	5.0	50	0	104	80	120	0	0		
1,2-Dichloropropane	49.27	5.0	50	0	98.5	80	120	0	0		
1,3-Dichlorobenzene	54.17	5.0	50	0	108	80	120	0	0		
1,4-Dichlorobenzene	54.36	5.0	50	0	109	80	120	0	0		
2-Butanone	47.56	10	50	0	95.1	80	120	0	0		
2-Hexanone	47.81	10	50	0	95.6	80	120	0	0		
4-Methyl-2-pentanone	48.43	10	50	0	96.9	80	120	0	0		
Acetone	42.65	10	50	0	85.3	80	120	0	0		
Benzene	54.81	5.0	50	0	110	80	120	0	0		
Bromodichloromethane	51.01	5.0	50	0	102	80	120	0	0		
Bromoform	44.07	5.0	50	0	88.1	80	120	0	0		
Bromomethane	38.84	10	50	0	77.7	80	120	0	0		S
Carbon disulfide	52.97	5.0	50	0	106	80	120	0	0		
Carbon tetrachloride	51.78	5.0	50	0	104	80	120	0	0		
Chlorobenzene	59.98	5.0	50	0	120	80	120	0	0		
Chloroethane	45.06	10	50	0	90.1	80	120	0	0		
Chloroform	53.28	5.0	50	0	107	80	120	0	0		
Chloromethane	39.12	10	50	0	78.2	80	120	0	0		S
cis-1,2-Dichloroethene	50.95	5.0	50	0	102	80	120	0	0		
cis-1,3-Dichloropropene	51.2	5.0	50	0	102	80	120	0	0		
Cyclohexane	47.68	5.0	50	0	95.4	80	120	0	0		
Dibromochloromethane	53.63	5.0	50	0	107	80	120	0	0		
Dichlorodifluoromethane	37.14	10	50	0	74.3	80	120	0	0		S
Ethylbenzene	59.07	5.0	50	0	118	80	120	0	0		
Isopropylbenzene	51.85	5.0	50	0	104	80	120	0	0		
m,p-Xylene	115.8	10	100	0	116	80	120	0	0		
Methyl Acetate	41.11	5.0	50	0	82.2	80	120	0	0		
Methyl Cyclohexane	39.83	5.0	50	0	79.7	80	120	0	0		S
Methyl tert-butyl ether	103.7	5.0	100	0	104	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: R150803

CCV	SeqNo: 2247531	TestNo: SW8260C	RunNo: 150803
	Samp ID: vstd050	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methylene chloride	51.16	5.0	50	0	102	80	120	0	0		
o-Xylene	50.78	5.0	50	0	102	80	120	0	0		
Styrene	51.81	5.0	50	0	104	80	120	0	0		
Tetrachloroethene	51.41	5.0	50	0	103	80	120	0	0		
Toluene	52.13	5.0	50	0	104	80	120	0	0		
trans-1,2-Dichloroethene	54.02	5.0	50	0	108	80	120	0	0		
trans-1,3-Dichloropropene	48.55	5.0	50	0	97.1	80	120	0	0		
Trichloroethene	55.08	5.0	50	0	110	80	120	0	0		
Trichlorofluoromethane	48.21	5.0	50	0	96.4	80	120	0	0		
Vinyl chloride	50.69	10	50	0	101	80	120	0	0		
Surr: 1,2-Dichloroethane-d4	48.71	5.0	50	0	97.4	80.7	120	0	0		
Surr: 4-Bromofluorobenzene	48.82	5.0	50	0	97.6	80.2	127	0	0		
Surr: Toluene-d8	47.16	5.0	50	0	94.3	79.9	127	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

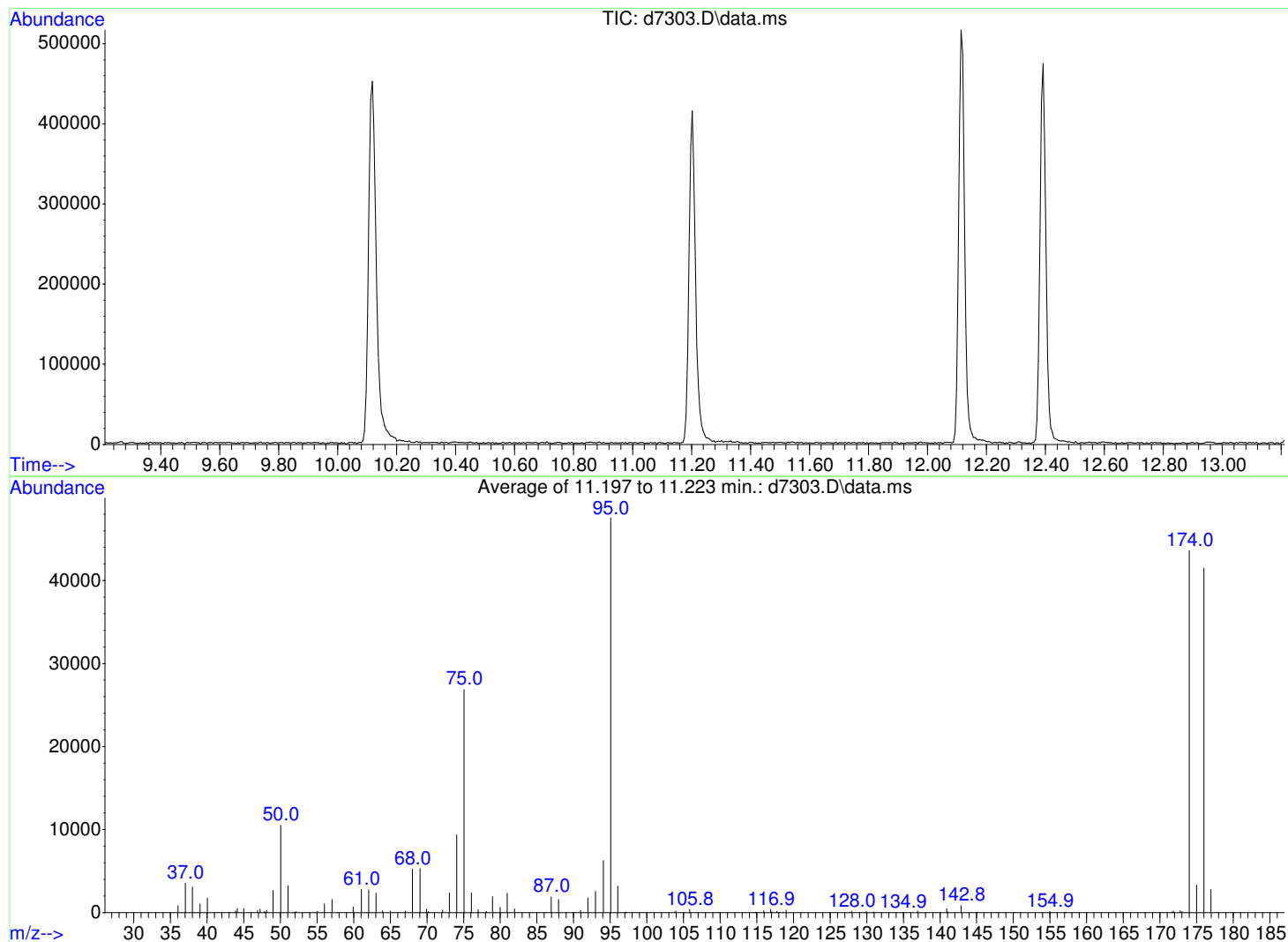
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Data Path : C:\msdchem\1\DATA\082917\
Data File : d7303.D
Acq On : 29 Aug 2017 22:29
Operator :
Sample : bfb
Misc : tune bfb
ALS Vial : 62 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\qtmethode\HAMRI-091117.M
Title : Pharm parameters
Last Update : Mon Sep 11 16:39:07 2017



Spectrum Information: Average of 11.197 to 11.223 min.

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	22.1	10531	PASS
75	95	30	60	56.5	26855	PASS
95	95	100	100	100.0	47566	PASS
96	95	5	9	6.7	3190	PASS
173	174	0.00	2	0.5	221	PASS
174	95	50	100	91.7	43618	PASS
175	174	5	9	7.6	3303	PASS
176	174	95	101	95.2	41513	PASS
177	176	5	9	6.7	2765	PASS

Data Path : C:\msdchem\1\DATA\082917\
 Data File : d7306.D
 Acq On : 29 Aug 2017 23:35
 Operator :
 Sample : vstd010
 Misc : ical e8260w
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 30 09:21:45 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 09:20:38 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.573	114	268674	50.00	ug	0.02
34) Chlorobenzene-d5	10.117	117	197894	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	109839	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.012	65	101094	46.95	ug	0.02
57) Toluene-d8	8.413	98	306554	59.26	ug	0.00
79) Bromofluorobenzene	11.197	95	118104	52.02	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.505	85	15331	10.87	ug	98
3) Chloromethane	1.670	50	26941	8.11	ug	100
4) Vinyl Chloride	1.777	62	18325	9.78	ug	98
5) Bromomethane	2.069	94	8126	10.29	ug	94
6) Chloroethane	2.166	64	10812	7.92	ug	94
7) Acrolein	2.861	56	10358	36.27	ug	98
8) Trichlorofluoromethane	2.425	101	25470	10.06	ug	96
9) Freon113	2.981	101	10993	8.76	ug	100
10) 1,1-Dichloroethene	2.976	96	15417	10.74	ug	# 81
11) Allyl Chloride	3.385	41	58788	9.55	ug	77
12) Carbon Disulfide	3.212	76	41691	9.85	ug	100
13) Acetone	3.039	43	12449m	9.41	ug	
14) Iodomethane	3.133	142	9062	14.22	ug	# 70
15) Acetonitrile	3.353	40	15158	30.28	ug	# 69
16) Methyl Acetate	3.437	43	14505	8.71	ug	93
17) Methylene Chloride	3.521	84	18681	8.23	ug	# 62
18) Acrylonitrile	3.825	53	32741	34.26	ug	99
19) trans-1,2-Dichloroethene	3.862	96	16026	10.44	ug	89
20) Mtbe	3.873	73	124282	20.09	ug	98
21) 1,1-Dichloroethane	4.344	63	32854	10.36	ug	91
22) Hexane	4.198	43	7408	8.99	ug	# 84
23) cis-1,2-Dichloroethene	5.036	61	28369	9.74	ug	86
24) 2,2-Dichloropropane	5.031	77	22367	9.36	ug	# 72
25) Propionitrile	5.126	54	27142	82.24	ug	97
26) Bromochloromethane	5.314	128	9609	9.95	ug	# 41
27) Methacrylonitrile	5.304	67	90861	106.86	ug	# 77
28) Chloroform	5.424	83	32658	9.06	ug	98
29) Cyclohexane	5.713	84	20412	9.82	ug	# 77
30) 1,1-Dichloro-1-propene	5.849	75	22056	8.99	ug	# 78
31) 1,2-Dichloroethane	6.106	62	28669	8.42	ug	99
32) 2-Butanone	5.084	43	11383m	9.06	ug	
35) 1,1,1-Trichloroethane	5.645	97	32283	11.57	ug	99
36) Carbon Tetrachloride	5.849	117	27091	11.61	ug	93
37) Benzene	6.090	78	63714	10.54	ug	100
38) Isobutanol	6.033	43	16204	199.05	ug	# 72
39) Heptane	6.457	43	15549	12.55	ug	# 49
40) Trichloroethene	6.887	130	18995	12.10	ug	94
41) Methyl Cyclohexane	7.134	83	23432	11.74	ug	90
42) 1,2-Dichloropropane	7.144	63	18299	11.32	ug	82
43) Vinyl Acetate	4.439	43	26276	13.20	ug	# 100
44) Dibromomethane	7.286	174	14169	12.11	ug	85
45) 1,4-Dioxane	7.333	88	4831	249.10	ug	86
46) Methyl Methacrylate	7.338	69	15936	11.36	ug	# 62
47) Bromodichloromethane	7.495	83	27751	12.19	ug	90
49) cis-1,3-Dichloropropene	8.072	75	26794	12.55	ug	98
50) trans-1,3-Dichloropropene	8.796	75	26233	13.51	ug	97
51) 1,1,2-Trichloroethane	9.011	97	16529	11.60	ug	79
52) 1,3-Dichloropropane	9.220	76	31146	11.64	ug	# 73

Data Path : C:\msdchem\1\DATA\082917\
 Data File : d7306.D
 Acq On : 29 Aug 2017 23:35
 Operator :
 Sample : vstd010
 Misc : ical e8260w
 ALS Vial : 18 Sample Multiplier: 1

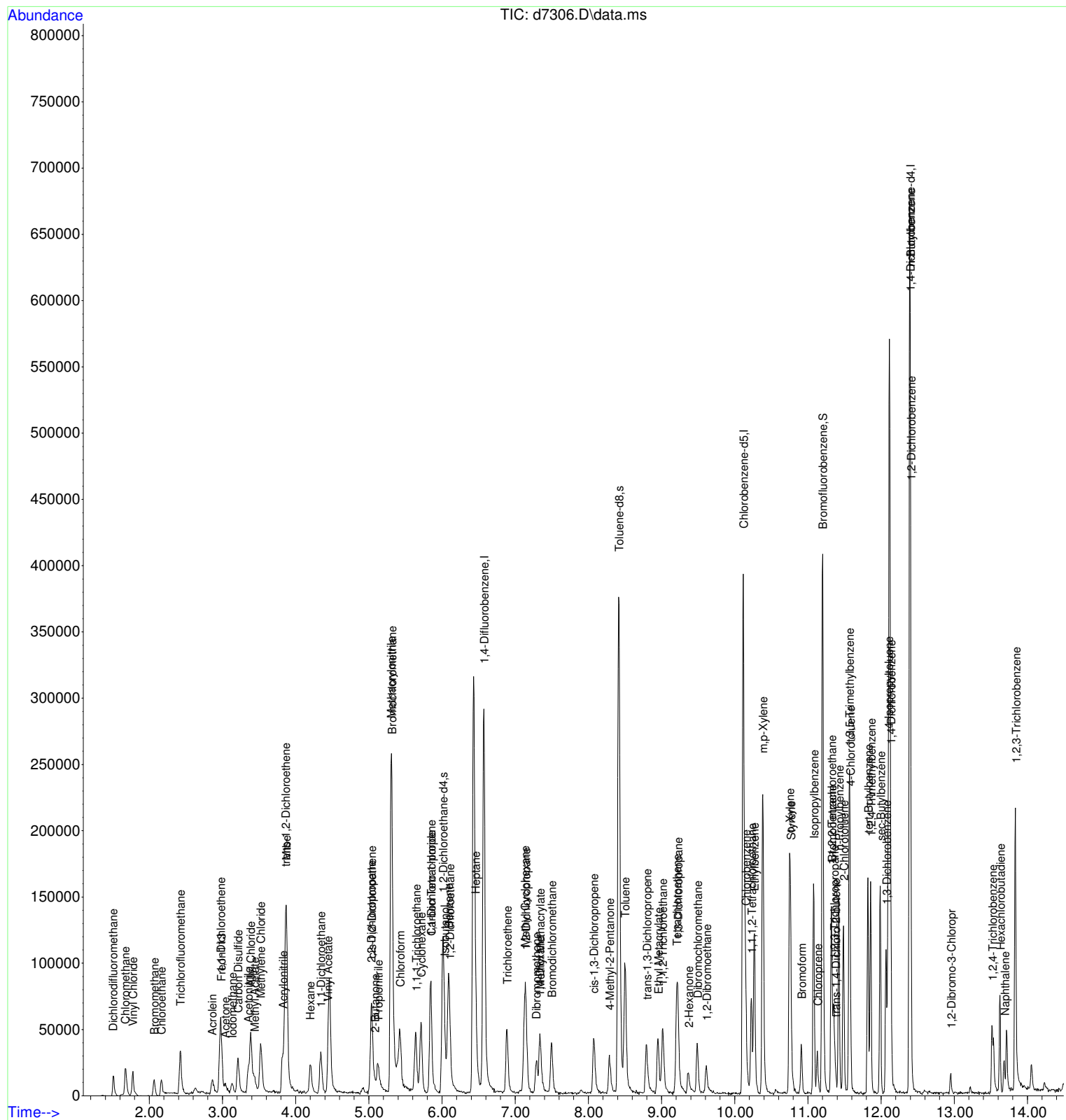
Quant Time: Aug 30 09:21:45 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 09:20:38 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) 1,2-Dibromoethane	9.614	107	15846	10.94	ug	92
54) Dibromochloromethane	9.488	129	20549	11.81	ug	92
55) Bromoform	10.909	173	14483	10.93	ug	100
56) 4-Methyl-2-Pentanone	8.287	43	24698	12.13	ug	80
58) Toluene	8.497	92	46447	11.43	ug	96
59) Ethyl Metacrylate	8.953	69	26256	13.03	ug	97
60) Tetrachloroethene	9.205	164	15809	10.98	ug	97
61) 2-Hexanone	9.367	43	16301m	13.08	ug	
63) Chlorobenzene	10.148	112	43153	9.10	ug	99
64) 1,1,1,2-Tetrachloroethane	10.227	133	17487	9.58	ug	96
65) Ethylbenzene	10.264	106	24823	10.35	ug	94
66) m,p-Xylene	10.379	91	134336	20.94	ug	90
67) o-Xylene	10.746	106	32139	10.06	ug	# 85
68) Styrene	10.762	104	49779	10.64	ug	81
69) Isopropylbenzene	11.076	105	86255	10.74	ug	97
70) Chloroprene	11.129	53	6559	22.06	ug	84
71) trans-1,4-Dichloro-2-b...	11.375	88	2086	8.97	ug	# 1
72) Bromobenzene	11.323	77	39646	10.06	ug	# 71
73) 1,2,3-Trichloropropane	11.354	75	27432	10.38	ug	# 74
74) 2-Chlorotoluene	11.485	91	59752	10.40	ug	98
75) 4-Chlorotoluene	11.575	91	66144	10.67	ug	99
76) 1,3,5-Trimethylbenzene	11.564	105	71729	11.36	ug	97
77) tert-Butylbenzene	11.821	119	62644	10.79	ug	100
78) 1,2,4-Trimethylbenzene	11.858	105	70464	10.84	ug	93
80) 1,1,2,2-Tetrachloroethane	11.318	83	21747	9.95	ug	91
81) n-Propylbenzene	11.422	91	91865	10.08	ug	97
82) 1,3-Dichlorobenzene	12.067	146	36292	11.39	ug	96
83) sec-Butylbenzene	11.989	105	79272	10.27	ug	97
84) 4-Isopropyltoluene	12.099	119	69697	10.15	ug	# 94
85) 1,4-Dichlorobenzene	12.130	146	34830m	10.35	ug	
86) 1,2-Dichlorobenzene	12.403	146	34546	10.31	ug	# 69
87) n-Butylbenzene	12.398	91	50420	10.16	ug	89
88) 1,2-Dibromo-3-Chloropr	12.953	157	3158	7.83	ug	# 55
89) 1,2,4-Trichlorobenzene	13.514	180	12002	9.35	ug	100
90) Hexachlorobutadiene	13.625	225	10578	9.30	ug	# 93
91) Naphthalene	13.682	128	17581m	6.73	ug	
92) 1,2,3-Trichlorobenzene	13.834	180	7324	9.61	ug	98

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

Data Path : C:\msdchem\1\DATA\082917\
 Data File : d7306.D
 Acq On : 29 Aug 2017 23:35
 Operator :
 Sample : vstd010
 Misc : ical e8260w
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 30 09:21:45 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 09:20:38 2017
 Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\082917\
 Data File : d7308.D
 Acq On : 30 Aug 2017 00:21
 Operator :
 Sample : vstd050
 Misc : ical e8260w
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 30 10:30:47 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 09:21:53 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.567	114	322174	50.00	ug	0.00
34) Chlorobenzene-d5	10.112	117	277417	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.393	152	126858	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.007	65	127467	50.92	ug	0.00
57) Toluene-d8	8.413	98	376344	47.50	ug	0.00
79) Bromofluorobenzene	11.197	95	146038	54.59	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.505	85	79749m	45.18	ug	
3) Chloromethane	1.670	50	150004	41.58	ug	97
4) Vinyl Chloride	1.768	62	105593	47.53	ug	100
5) Bromomethane	2.050	94	38742	40.32	ug	94
6) Chloroethane	2.157	64	55706	37.98	ug	99
7) Acrolein	2.850	56	57460	175.99	ug	96
8) Trichlorofluoromethane	2.420	101	137839	45.26	ug	99
9) Freon113	2.981	101	57444	40.69	ug	91
10) 1,1-Dichloroethene	2.960	96	75980	42.56	ug	# 73
11) Allyl Chloride	3.380	41	304432	42.19	ug	76
12) Carbon Disulfide	3.207	76	216101	42.90	ug	100
13) Acetone	3.023	43	60204m	39.11	ug	
14) Iodomethane	3.123	142	74923	55.47	ug	# 74
15) Acetonitrile	3.348	40	120761m	Below Cal		
16) Methyl Acetate	3.422	43	83060	44.47	ug	# 89
17) Methylene Chloride	3.511	84	92166	37.15	ug	# 58
18) Acrylonitrile	3.804	53	217095	204.07	ug	96
19) trans-1,2-Dichloroethene	3.846	96	99050	52.65	ug	92
20) Mtbe	3.867	73	729057	98.06	ug	98
21) 1,1-Dichloroethane	4.334	63	198174	51.19	ug	89
22) Hexane	4.198	43	42884	45.70	ug	93
23) cis-1,2-Dichloroethene	5.031	61	171292	49.69	ug	90
24) 2,2-Dichloropropane	5.031	77	131396	47.37	ug	# 73
25) Propionitrile	5.110	54	202835	562.47	ug	95
26) Bromochloromethane	5.309	128	57706	49.96	ug	# 50
27) Methacrylonitrile	5.304	67	563170	534.03	ug	# 78
28) Chloroform	5.419	83	204121	49.55	ug	96
29) Cyclohexane	5.713	84	122822	49.73	ug	# 75
30) 1,1-Dichloro-1-propene	5.839	75	144499	51.74	ug	84
31) 1,2-Dichloroethane	6.096	62	189130	50.28	ug	98
32) 2-Butanone	5.063	43	74807	52.09	ug	96
35) 1,1,1-Trichloroethane	5.634	97	192362	45.59	ug	100
36) Carbon Tetrachloride	5.839	117	166133	47.01	ug	94
37) Benzene	6.085	78	441405	50.73	ug	100
38) Isobutanol	6.027	43	133949	1176.55	ug	# 79
39) Heptane	6.457	43	89456	45.68	ug	# 90
40) Trichloroethene	6.882	130	115433	47.47	ug	97
41) Methyl Cyclohexane	7.123	83	136942	45.02	ug	# 87
42) 1,2-Dichloropropane	7.139	63	114076	47.22	ug	88
43) Vinyl Acetate	4.428	43	167641	51.79	ug	# 100
44) Dibromomethane	7.286	174	81659	45.04	ug	# 82
45) 1,4-Dioxane	7.333	88	34168	1119.37	ug	87
46) Methyl Methacrylate	7.333	69	102997	49.04	ug	# 66
47) Bromodichloromethane	7.496	83	164436	46.44	ug	89
49) cis-1,3-Dichloropropene	8.067	75	169122	50.12	ug	98
50) trans-1,3-Dichloropropene	8.785	75	163267	51.03	ug	96
51) 1,1,2-Trichloroethane	9.011	97	105463	48.89	ug	90
52) 1,3-Dichloropropane	9.220	76	190055	46.84	ug	# 68

Data Path : C:\msdchem\1\DATA\082917\
 Data File : d7308.D
 Acq On : 30 Aug 2017 00:21
 Operator :
 Sample : vstd050
 Misc : ical e8260w
 ALS Vial : 19 Sample Multiplier: 1

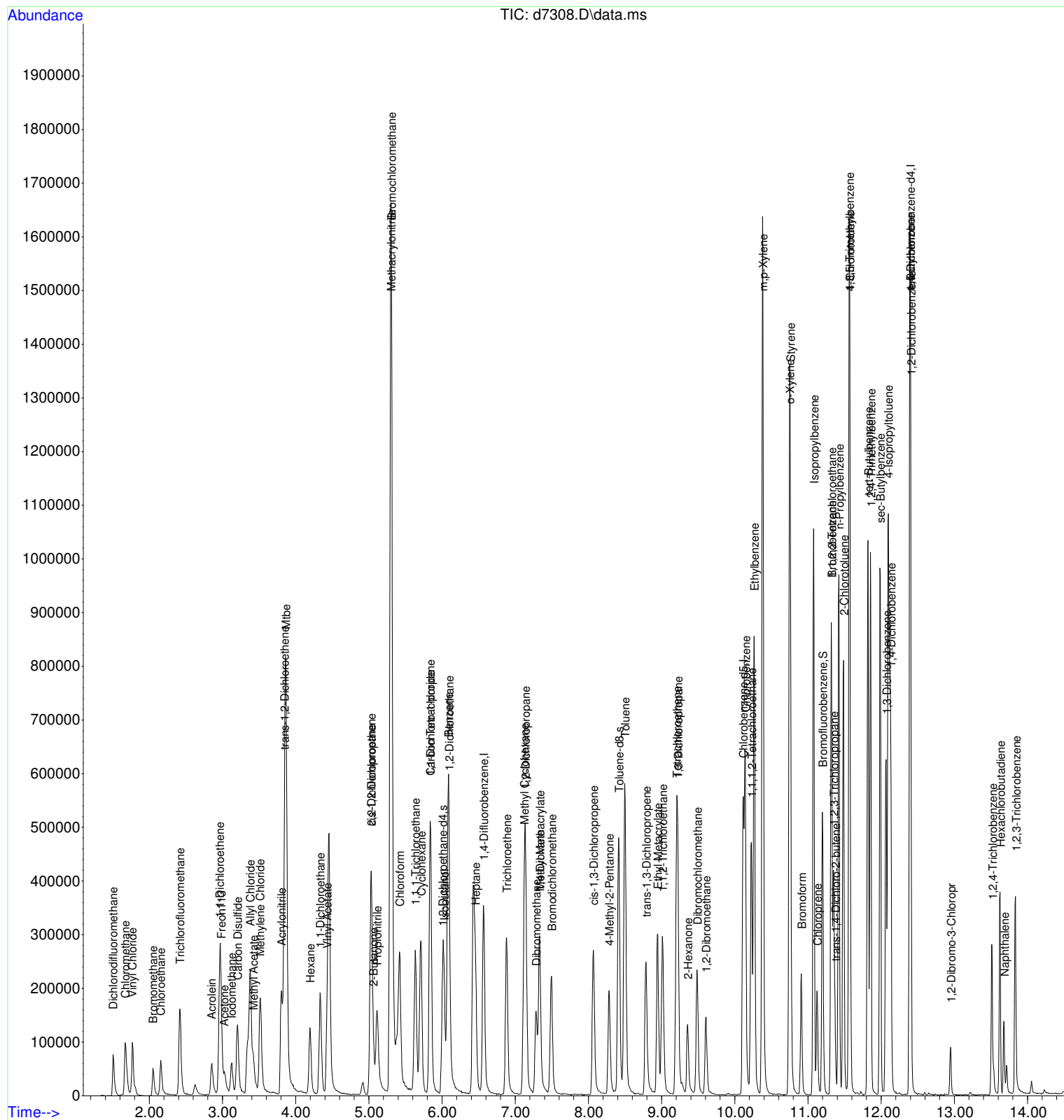
Quant Time: Aug 30 10:30:47 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 09:21:53 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) 1,2-Dibromoethane	9.603	107	107548	50.60	ug	95
54) Dibromochloromethane	9.483	129	130333	49.00	ug	94
55) Bromoform	10.909	173	91167	46.91	ug	97
56) 4-Methyl-2-Pentanone	8.282	43	158558	50.20	ug	91
58) Toluene	8.497	92	289037	47.35	ug	97
59) Ethyl Metacrylate	8.943	69	166910	51.31	ug	99
60) Tetrachloroethene	9.205	164	96323	45.49	ug	100
61) 2-Hexanone	9.357	43	110830m	54.97	ug	
63) Chlorobenzene	10.143	112	309234	59.12	ug	100
64) 1,1,1,2-Tetrachloroethane	10.227	133	117087	56.74	ug	93
65) Ethylbenzene	10.264	106	170757	60.60	ug	100
66) m,p-Xylene	10.379	91	880612	116.13	ug	92
67) o-Xylene	10.746	106	212253	57.34	ug	91
68) Styrene	10.757	104	335570	60.18	ug	81
69) Isopropylbenzene	11.077	105	559936	58.21	ug	97
70) Chloroprene	11.124	53	38216	105.84	ug	86
71) trans-1,4-Dichloro-2-b...	11.370	88	13729	63.07	ug	# 1
72) Bromobenzene	11.318	77	245884	53.87	ug	# 71
73) 1,2,3-Trichloropropane	11.349	75	160096	51.48	ug	# 78
74) 2-Chlorotoluene	11.485	91	368664	54.46	ug	98
75) 4-Chlorotoluene	11.569	91	401442	54.24	ug	99
76) 1,3,5-Trimethylbenzene	11.564	105	466080	59.84	ug	98
77) tert-Butylbenzene	11.821	119	399876	57.37	ug	98
78) 1,2,4-Trimethylbenzene	11.852	105	444377	56.81	ug	96
80) 1,1,2,2-Tetrachloroethane	11.318	83	129913	51.60	ug	96
81) n-Propylbenzene	11.423	91	595691	56.36	ug	99
82) 1,3-Dichlorobenzene	12.067	146	204787	52.03	ug	92
83) sec-Butylbenzene	11.984	105	526706	58.29	ug	100
84) 4-Isopropyltoluene	12.094	119	445025	55.70	ug	96
85) 1,4-Dichlorobenzene	12.130	146	194196	49.10	ug	# 84
86) 1,2-Dichlorobenzene	12.403	146	187332	47.67	ug	96
87) n-Butylbenzene	12.393	91	316830	54.83	ug	94
88) 1,2-Dibromo-3-Chloropr	12.948	157	18904	45.52	ug	# 69
89) 1,2,4-Trichlorobenzene	13.515	180	69584	48.50	ug	100
90) Hexachlorobutadiene	13.625	225	58278	45.98	ug	# 94
91) Naphthalene	13.677	128	90059m	35.67	ug	
92) 1,2,3-Trichlorobenzene	13.834	180	44690	54.64	ug	98

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

Data Path : C:\msdchem\1\DATA\082917\
 Data File : d7308.D
 Acq On : 30 Aug 2017 00:21
 Operator :
 Sample : vstd050
 Misc : ical e8260w
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 30 10:30:47 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 09:21:53 2017
 Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\082917\
 Data File : d7311.D
 Acq On : 30 Aug 2017 1:24
 Operator :
 Sample : vstd200
 Misc : ical e8260w
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 30 10:31:14 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 09:24:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.567	114	286256	50.00	ug	0.00
34) Chlorobenzene-d5	10.112	117	245399	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	133197	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.006	65	123696	56.00	ug	-0.01
57) Toluene-d8	8.418	98	367691	54.89	ug	0.00
79) Bromofluorobenzene	11.197	95	127105	44.35	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.505	85	299084m	198.32	ug	
3) Chloromethane	1.670	50	573727	186.18	ug	100
4) Vinyl Chloride	1.768	62	432075	223.73	ug	99
5) Bromomethane	2.050	94	150970	219.74	ug	98
6) Chloroethane	2.137	64	249930	224.41	ug	99
7) Acrolein	2.855	56	282314	976.25	ug	97
8) Trichlorofluoromethane	2.410	101	558794	215.74	ug	99
9) Freon113	2.976	101	256284	217.14	ug	93
10) 1,1-Dichloroethene	2.960	96	368013	232.68	ug	# 77
11) Allyl Chloride	3.374	41	1505053	244.85	ug	76
12) Carbon Disulfide	3.201	76	1063155	244.86	ug	100
13) Acetone	3.028	43	260725m	209.51	ug	
14) Iodomethane	3.123	142	491582	838.83	ug	# 80
15) Acetonitrile	3.348	40	515030	2344.80	ug	# 85
16) Methyl Acetate	3.422	43	366591	224.92	ug	95
17) Methylene Chloride	3.516	84	453066	224.61	ug	# 69
18) Acrylonitrile	3.804	53	923300	962.02	ug	95
19) trans-1,2-Dichloroethene	3.846	96	431515	250.21	ug	91
20) Mtbe	3.867	73	3213430	484.31	ug	98
21) 1,1-Dichloroethane	4.334	63	847507	240.53	ug	89
22) Hexane	4.192	43	153053	193.66	ug	98
23) cis-1,2-Dichloroethene	5.031	61	767661	247.99	ug	88
24) 2,2-Dichloropropane	5.031	77	561009	236.16	ug	# 78
25) Propionitrile	5.126	54	870615	2554.65	ug	96
26) Bromochloromethane	5.314	128	253556	249.10	ug	# 54
27) Methacrylonitrile	5.319	67	2459444	2496.04	ug	# 80
28) Chloroform	5.424	83	868959	235.09	ug	98
29) Cyclohexane	5.713	84	500382	228.66	ug	# 80
30) 1,1-Dichloro-1-propene	5.839	75	631543	249.96	ug	84
31) 1,2-Dichloroethane	6.101	62	825820	244.33	ug	98
32) 2-Butanone	5.063	43	301357	231.46	ug	99
35) 1,1,1-Trichloroethane	5.634	97	825615	230.36	ug	99
36) Carbon Tetrachloride	5.839	117	721360	241.76	ug	96
37) Benzene	6.085	78	1912138	246.11	ug	100
38) Isobutanol	6.043	43	564815	5221.11	ug	# 82
39) Heptane	6.457	43	310395	190.17	ug	# 78
40) Trichloroethene	6.882	130	441727	206.09	ug	96
41) Methyl Cyclohexane	7.128	83	542027	210.28	ug	90
42) 1,2-Dichloropropane	7.144	63	482611	229.89	ug	86
43) Vinyl Acetate	4.423	43	726174	246.56	ug	# 100
44) Dibromomethane	7.286	174	366013	237.28	ug	# 81
45) 1,4-Dioxane	7.333	88	137379	4785.65	ug	# 82
46) Methyl Methacrylate	7.333	69	454467	244.10	ug	# 65
47) Bromodichloromethane	7.495	83	737082	240.30	ug	88
49) cis-1,3-Dichloropropene	8.067	75	783740	258.17	ug	97
50) trans-1,3-Dichloropropene	8.785	75	751291	264.29	ug	97
51) 1,1,2-Trichloroethane	9.016	97	456362	238.53	ug	95
52) 1,3-Dichloropropane	9.226	76	829378	237.02	ug	# 69

Data Path : C:\msdchem\1\DATA\082917\
 Data File : d7311.D
 Acq On : 30 Aug 2017 1:24
 Operator :
 Sample : vstd200
 Misc : ical e8260w
 ALS Vial : 20 Sample Multiplier: 1

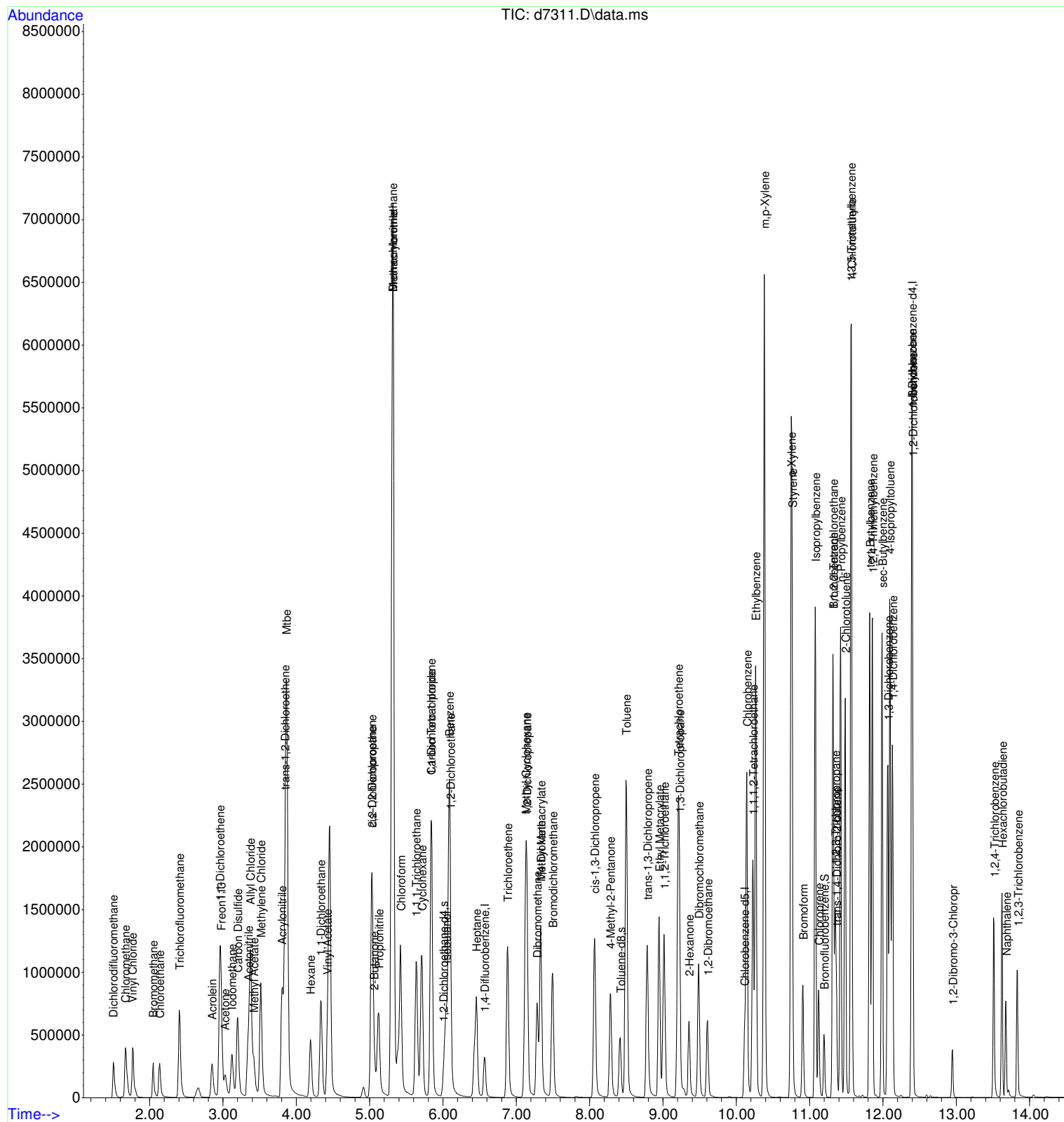
Quant Time: Aug 30 10:31:14 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 09:24:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) 1,2-Dibromoethane	9.608	107	424735	231.99	ug	96
54) Dibromochloromethane	9.488	129	562672	240.76	ug	92
55) Bromoform	10.909	173	348560	214.89	ug	98
56) 4-Methyl-2-Pentanone	8.282	43	665872	241.74	ug	92
58) Toluene	8.497	92	1253166	238.93	ug	98
59) Ethyl Metacrylate	8.948	69	769233	258.57	ug	100
60) Tetrachloroethene	9.210	164	410086	227.05	ug	98
61) 2-Hexanone	9.357	43	455673	247.08	ug	88
63) Chlorobenzene	10.143	112	1190651	200.79	ug	99
64) 1,1,1,2-Tetrachloroethane	10.227	133	461231	209.36	ug	96
65) Ethylbenzene	10.264	106	655136	202.48	ug	99
66) m,p-Xylene	10.384	91	3374604	397.92	ug	94
67) o-Xylene	10.746	106	795099	194.58	ug	89
68) Styrene	10.762	104	1321782	207.61	ug	82
69) Isopropylbenzene	11.076	105	2079777	194.65	ug	97
70) Chloroprene	11.124	53	159815	450.48	ug	89
71) trans-1,4-Dichloro-2-b...	11.365	88	63142	311.43	ug	# 1
72) Bromobenzene	11.318	77	930885	192.31	ug	# 71
73) 1,2,3-Trichloropropane	11.349	75	619545	194.08	ug	# 74
74) 2-Chlorotoluene	11.485	91	1365398	190.43	ug	99
75) 4-Chlorotoluene	11.569	91	1539259	194.98	ug	98
76) 1,3,5-Trimethylbenzene	11.564	105	1678664	194.67	ug	99
77) tert-Butylbenzene	11.821	119	1436976	192.79	ug	100
78) 1,2,4-Trimethylbenzene	11.858	105	1677574	199.13	ug	96
80) 1,1,2,2-Tetrachloroethane	11.318	83	468201	180.89	ug	94
81) n-Propylbenzene	11.422	91	2245007	196.83	ug	98
82) 1,3-Dichlorobenzene	12.067	146	829829	201.54	ug	91
83) sec-Butylbenzene	11.989	105	1902992	195.67	ug	100
84) 4-Isopropyltoluene	12.094	119	1659910	196.44	ug	# 94
85) 1,4-Dichlorobenzene	12.130	146	816961	200.01	ug	# 90
86) 1,2-Dichlorobenzene	12.403	146	842556	205.54	ug	98
87) n-Butylbenzene	12.392	91	1396574	219.98	ug	94
88) 1,2-Dibromo-3-Chloropr	12.948	157	77120	190.56	ug	# 74
89) 1,2,4-Trichlorobenzene	13.514	180	339451	223.43	ug	98
90) Hexachlorobutadiene	13.624	225	242789	191.31	ug	# 92
91) Naphthalene	13.677	128	474416	201.86	ug	97
92) 1,2,3-Trichlorobenzene	13.834	180	206406	197.74	ug	100

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

Data Path : C:\msdchem\1\DATA\082917\
 Data File : d7311.D
 Acq On : 30 Aug 2017 1:24
 Operator :
 Sample : vstd200
 Misc : ical e8260w
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 30 10:31:14 2017
 Quant Method : C:\msdchem\1\qtmethd\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 09:24:08 2017
 Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\082917\
 Data File : d7305.D
 Acq On : 29 Aug 2017 23:14
 Operator :
 Sample : vstd005
 Misc : ical e8260w
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 30 09:29:06 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082817.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Mon Aug 28 15:10:07 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.557	114	210057	50.00	ug	-0.01
34) Chlorobenzene-d5	10.112	117	185918	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.387	152	91732	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.996	65	84179	52.32	ug	-0.01
57) Toluene-d8	8.408	98	242987	56.57	ug	0.00
79) Bromofluorobenzene	11.197	95	94802	49.27	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.476	85	5515	2.78	ug	96
3) Chloromethane	1.641	50	12992	4.98	ug	96
4) Vinyl Chloride	1.738	62	7322	4.19	ug	93
5) Bromomethane	2.030	94	3088	5.36	ug	93
6) Chloroethane	2.127	64	5336	4.70	ug	88
7) Acrolein	2.834	56	4466	14.64	ug	97
8) Trichlorofluoromethane	2.383	101	9900	3.62	ug	96
9) Freon113	2.955	101	4907	3.51	ug	97
10) 1,1-Dichloroethene	2.923	96	5613	4.09	ug	# 75
11) Allyl Chloride	3.348	41	24064	4.37	ug	78
12) Carbon Disulfide	3.180	76	16549	4.09	ug	100
13) Acetone	3.007	43	5170	5.65	ug	87
14) Iodomethane	3.091	142	2492	6.94	ug	# 73
15) Acetonitrile	3.353	40	16332m	64.25	ug	
16) Methyl Acetate	3.395	43	6508m	3.52	ug	
17) Methylene Chloride	3.490	84	8871	5.23	ug	# 72
18) Acrylonitrile	3.794	53	14945m	19.19	ug	
19) trans-1,2-Dichloroethene	3.836	96	6001	3.91	ug	# 82
20) Mtbe	3.841	73	48367	8.62	ug	98
21) 1,1-Dichloroethane	4.318	63	12400	4.05	ug	82
22) Hexane	4.176	43	3222	3.28	ug	# 89
23) cis-1,2-Dichloroethene	5.021	61	11384	4.06	ug	84
24) 2,2-Dichloropropane	5.010	77	9340	3.35	ug	# 79
25) Propionitrile	5.115	54	12902	45.17	ug	# 83
26) Bromochloromethane	5.298	128	3774	4.16	ug	# 46
27) Methacrylonitrile	5.288	67	33239	40.20	ug	# 65
28) Chloroform	5.409	83	14095	4.43	ug	94
29) Cyclohexane	5.702	84	8124	3.32	ug	# 62
30) 1,1-Dichloro-1-propene	5.828	75	9588	4.18	ug	# 78
31) 1,2-Dichloroethane	6.080	62	13317	4.54	ug	98
32) 2-Butanone	5.068	43	4913m	4.36	ug	
35) 1,1,1-Trichloroethane	5.618	97	13110	5.29	ug	97
36) Carbon Tetrachloride	5.823	117	10957	4.91	ug	84
37) Benzene	6.069	78	28385m	4.91	ug	
38) Isobutanol	6.012	43	7648m	105.30	ug	
39) Heptane	6.447	43	5819	3.31	ug	# 1
40) Trichloroethene	6.877	130	7373	4.86	ug	97
41) Methyl Cyclohexane	7.123	83	9378	3.95	ug	# 86
42) 1,2-Dichloropropane	7.144	63	7593	5.19	ug	90
43) Vinyl Acetate	4.418	43	9350	3.03	ug	# 100
44) Dibromomethane	7.280	174	5494	5.28	ug	# 75
45) 1,4-Dioxane	7.333	88	1822	93.54	ug	# 71
46) Methyl Methacrylate	7.328	69	6591m	5.21	ug	
47) Bromodichloromethane	7.485	83	10695	4.98	ug	91
49) cis-1,3-Dichloropropene	8.067	75	10028	4.36	ug	96
50) trans-1,3-Dichloropropene	8.785	75	9120	4.23	ug	91
51) 1,1,2-Trichloroethane	9.016	97	6692	4.96	ug	79
52) 1,3-Dichloropropane	9.215	76	12564	5.27	ug	# 75

Data Path : C:\msdchem\1\DATA\082917\
 Data File : d7305.D
 Acq On : 29 Aug 2017 23:14
 Operator :
 Sample : vstd005
 Misc : ical e8260w
 ALS Vial : 18 Sample Multiplier: 1

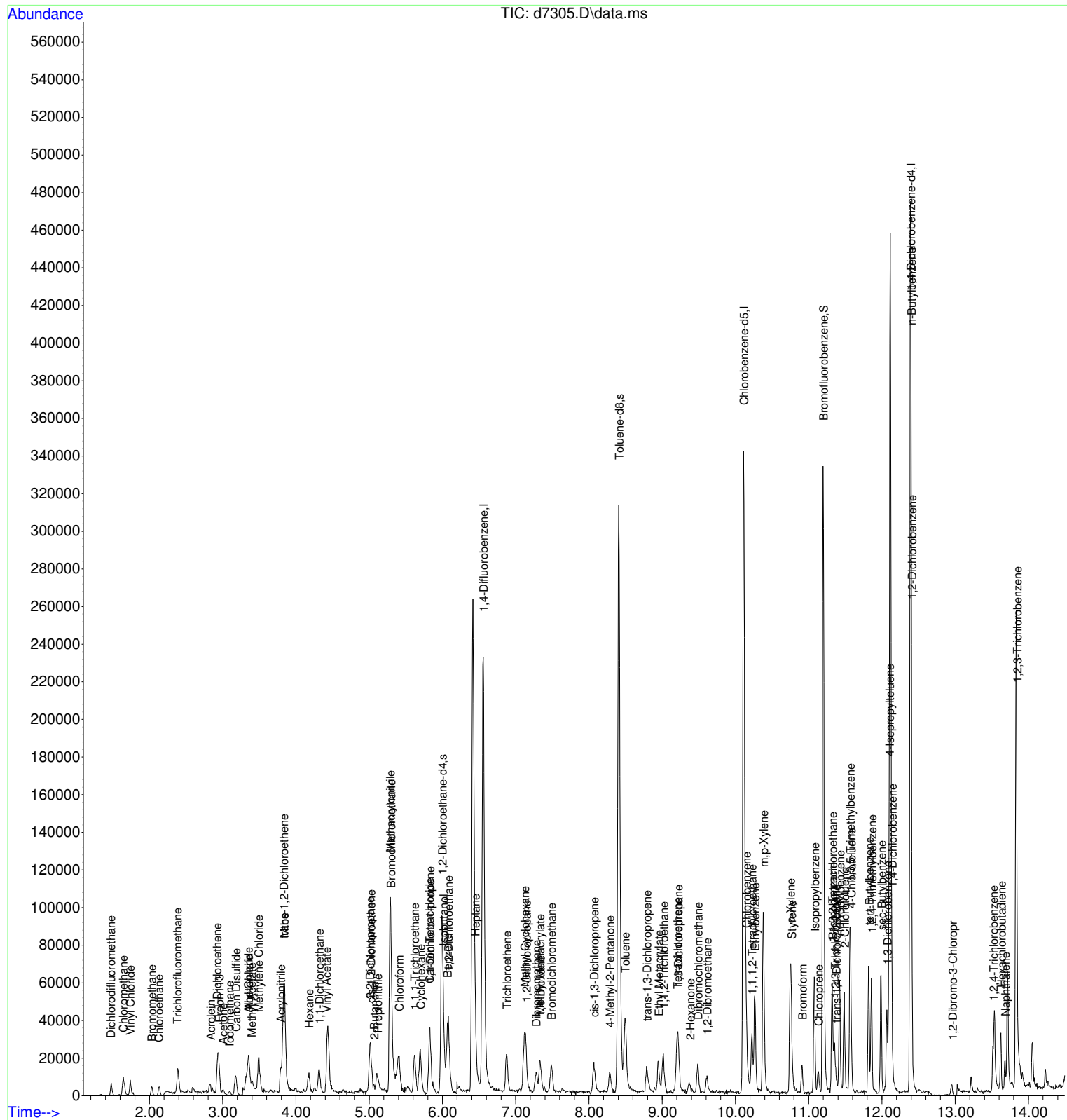
Quant Time: Aug 30 09:29:06 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082817.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Mon Aug 28 15:10:07 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) 1,2-Dibromoethane	9.608	107	6802	5.18	ug	97
54) Dibromochloromethane	9.482	129	8172	4.86	ug	87
55) Bromoform	10.909	173	6222	5.58	ug	92
56) 4-Methyl-2-Pentanone	8.282	43	9566m	5.31	ug	
58) Toluene	8.491	92	19093	5.16	ug	97
59) Ethyl Metacrylate	8.948	69	9467	4.70	ug	# 97
60) Tetrachloroethene	9.205	164	6765	5.30	ug	93
61) 2-Hexanone	9.378	43	5855m	4.92	ug	
63) Chlorobenzene	10.143	112	19805	5.36	ug	98
64) 1,1,1,2-Tetrachloroethane	10.222	133	7621	5.21	ug	97
65) Ethylbenzene	10.264	106	10011	4.94	ug	# 85
66) m,p-Xylene	10.379	91	53568	10.36	ug	90
67) o-Xylene	10.746	106	13346	5.51	ug	91
68) Styrene	10.762	104	19534	5.11	ug	82
69) Isopropylbenzene	11.076	105	33541	5.23	ug	92
70) Chloroprene	11.129	53	2483	10.68	ug	93
71) trans-1,4-Dichloro-2-b...	11.370	88	971	8.60	ug	# 1
72) Bromobenzene	11.323	77	16449	5.66	ug	# 66
73) 1,2,3-Trichloropropane	11.354	75	11033	5.78	ug	# 73
74) 2-Chlorotoluene	11.485	91	23997	5.50	ug	99
75) 4-Chlorotoluene	11.574	91	25896	5.40	ug	98
76) 1,3,5-Trimethylbenzene	11.564	105	26368	5.00	ug	98
77) tert-Butylbenzene	11.821	119	24242	5.33	ug	98
78) 1,2,4-Trimethylbenzene	11.858	105	27139	5.33	ug	94
80) 1,1,2,2-Tetrachloroethane	11.317	83	9125	6.00	ug	97
81) n-Propylbenzene	11.422	91	38066	5.49	ug	97
82) 1,3-Dichlorobenzene	12.067	146	13305	5.23	ug	93
83) sec-Butylbenzene	11.989	105	32233	5.29	ug	100
84) 4-Isopropyltoluene	12.099	119	28670	5.57	ug	95
85) 1,4-Dichlorobenzene	12.135	146	14056m	5.69	ug	
86) 1,2-Dichlorobenzene	12.403	146	13988	5.97	ug	# 40
87) n-Butylbenzene	12.398	91	20728	5.35	ug	92
88) 1,2-Dibromo-3-Chloropr	12.959	157	1684	8.23	ug	# 84
89) 1,2,4-Trichlorobenzene	13.514	180	5362	6.52	ug	90
90) Hexachlorobutadiene	13.624	225	4748	6.09	ug	# 96
91) Naphthalene	13.677	128	10913	12.36	ug	100
92) 1,2,3-Trichlorobenzene	13.839	180	3182m	10.14	ug	

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

Data Path : C:\msdchem\1\DATA\082917\
 Data File : d7305.D
 Acq On : 29 Aug 2017 23:14
 Operator :
 Sample : vstd005
 Misc : ical e8260w
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 30 09:29:06 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082817.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Mon Aug 28 15:10:07 2017
 Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\083017\
 Data File : d7324.D
 Acq On : 30 Aug 2017 10:10
 Operator :
 Sample : vstd100
 Misc : ical e8260w
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 30 10:32:21 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 09:32:10 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.567	114	244105	50.00	ug	0.00
34) Chlorobenzene-d5	10.112	117	217637	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	112566	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.001	65	96989	50.29	ug	-0.02
57) Toluene-d8	8.413	98	291019	48.05	ug	0.00
79) Bromofluorobenzene	11.197	95	117834	49.78	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.505	85	189869m	147.89	ug	
3) Chloromethane	1.660	50	223399	86.20	ug	99
4) Vinyl Chloride	1.767	62	182204	108.07	ug	99
5) Bromomethane	2.040	94	84001	138.46	ug	94
6) Chloroethane	2.147	64	109328	107.81	ug	98
7) Acrolein	2.845	56	128213	497.98	ug	97
8) Trichlorofluoromethane	2.415	101	285559	127.28	ug	98
9) Freon113	2.976	101	144992	141.63	ug	92
10) 1,1-Dichloroethene	2.955	96	145339	104.35	ug	# 77
11) Allyl Chloride	3.369	41	600593m	109.66	ug	
12) Carbon Disulfide	3.196	76	405556	104.83	ug	100
13) Acetone	3.023	43	87641m	81.81	ug	
14) Iodomethane	3.123	142	169759	165.49	ug	# 78
15) Acetonitrile	3.332	40	191462	861.08	ug	# 1
16) Methyl Acetate	3.416	43	202965	142.48	ug	91
17) Methylene Chloride	3.511	84	170933	96.99	ug	# 67
18) Acrylonitrile	3.799	53	338182	397.12	ug	94
19) trans-1,2-Dichloroethene	3.841	96	157917	102.24	ug	87
20) Mtbe	3.862	73	1201744	203.80	ug	100
21) 1,1-Dichloroethane	4.334	63	319961	102.34	ug	89
22) Hexane	4.192	43	113483	169.46	ug	97
23) cis-1,2-Dichloroethene	5.026	61	292401	105.70	ug	86
24) 2,2-Dichloropropane	5.026	77	307454	146.48	ug	# 79
25) Propionitrile	5.110	54	305853	997.13	ug	95
26) Bromochloromethane	5.309	128	97786	107.38	ug	# 57
27) Methacrylonitrile	5.304	67	903158	1024.07	ug	# 79
28) Chloroform	5.414	83	323227	99.07	ug	98
29) Cyclohexane	5.707	84	258594	134.72	ug	# 80
30) 1,1-Dichloro-1-propene	5.838	75	232807	102.91	ug	82
31) 1,2-Dichloroethane	6.095	62	310917	103.30	ug	96
32) 2-Butanone	5.057	43	111948	97.76	ug	95
35) 1,1,1-Trichloroethane	5.634	97	308700	94.26	ug	100
36) Carbon Tetrachloride	5.838	117	272668	98.91	ug	98
37) Benzene	6.085	78	694678	96.37	ug	100
38) Isobutanol	6.022	43	186214	1829.24	ug	# 77
39) Heptane	6.457	43	237444	165.66	ug	# 77
40) Trichloroethene	6.882	130	186347	97.44	ug	96
41) Methyl Cyclohexane	7.123	83	305478	132.27	ug	# 88
42) 1,2-Dichloropropane	7.144	63	179225	93.47	ug	86
43) Vinyl Acetate	4.423	43	444320	162.54	ug	# 100
44) Dibromomethane	7.280	174	119052	83.90	ug	# 77
45) 1,4-Dioxane	7.328	88	40525	1531.62	ug	# 81
46) Methyl Methacrylate	7.333	69	152767	88.61	ug	# 63
47) Bromodichloromethane	7.495	83	252168	89.11	ug	88
49) cis-1,3-Dichloropropene	8.067	75	304761	106.97	ug	97
50) trans-1,3-Dichloropropene	8.785	75	290593	108.30	ug	97
51) 1,1,2-Trichloroethane	9.011	97	165269	93.79	ug	93
52) 1,3-Dichloropropane	9.220	76	304591	94.65	ug	# 68

Data Path : C:\msdchem\1\DATA\083017\
 Data File : d7324.D
 Acq On : 30 Aug 2017 10:10
 Operator :
 Sample : vstd100
 Misc : ical e8260w
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 30 10:32:21 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 09:32:10 2017
 Response via : Initial Calibration

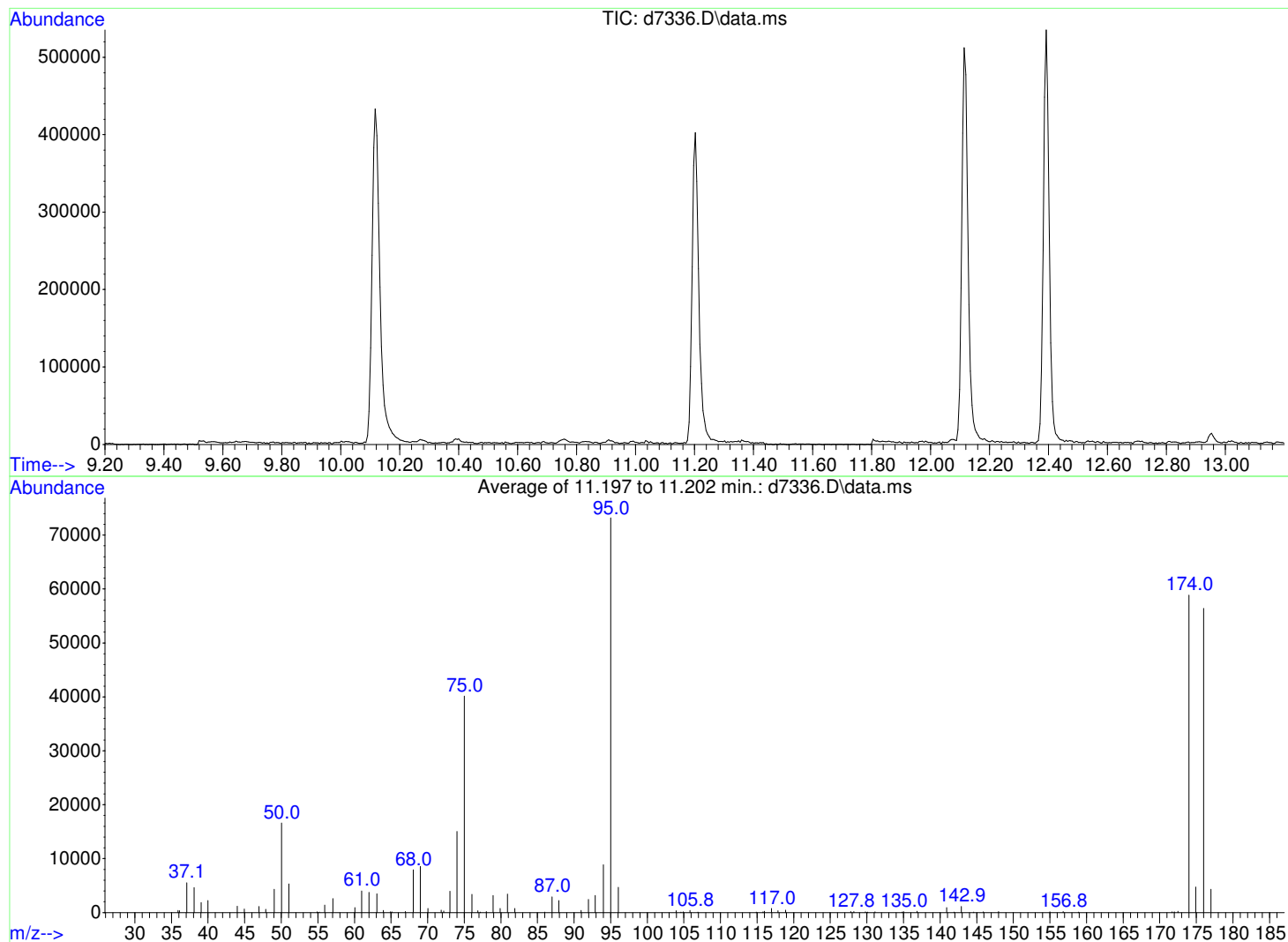
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) 1,2-Dibromoethane	9.603	107	176640	105.42	ug	97
54) Dibromochloromethane	9.482	129	212227	98.38	ug	91
55) Bromoform	10.909	173	150346	102.98	ug	98
56) 4-Methyl-2-Pentanone	8.282	43	242357	95.23	ug	91
58) Toluene	8.497	92	460895	95.37	ug	100
59) Ethyl Metacrylate	8.942	69	282096	101.00	ug	98
60) Tetrachloroethene	9.205	164	151827	92.29	ug	97
61) 2-Hexanone	9.351	43	169072m	98.72	ug	
63) Chlorobenzene	10.143	112	503536	100.40	ug	99
64) 1,1,1,2-Tetrachloroethane	10.227	133	188486	100.30	ug	96
65) Ethylbenzene	10.264	106	273289	99.70	ug	100
66) m,p-Xylene	10.379	91	1431145	199.89	ug	92
67) o-Xylene	10.746	106	335056	97.55	ug	90
68) Styrene	10.756	104	561812	103.63	ug	84
69) Isopropylbenzene	11.076	105	888260	98.90	ug	96
70) Chloroprene	11.123	53	73552	239.29	ug	89
71) trans-1,4-Dichloro-2-b...	11.365	88	27943	123.72	ug	# 1
72) Bromobenzene	11.317	77	412702	101.67	ug	# 70
73) 1,2,3-Trichloropropane	11.349	75	268611	100.16	ug	# 75
74) 2-Chlorotoluene	11.485	91	604067	100.65	ug	100
75) 4-Chlorotoluene	11.569	91	694678	104.65	ug	99
76) 1,3,5-Trimethylbenzene	11.564	105	757727	104.53	ug	98
77) tert-Butylbenzene	11.821	119	638260	102.06	ug	99
78) 1,2,4-Trimethylbenzene	11.858	105	752325	105.76	ug	97
80) 1,1,2,2-Tetrachloroethane	11.317	83	210874	98.28	ug	96
81) n-Propylbenzene	11.422	91	996639	103.72	ug	99
82) 1,3-Dichlorobenzene	12.067	146	371289	106.54	ug	93
83) sec-Butylbenzene	11.989	105	877156	107.19	ug	100
84) 4-Isopropyltoluene	12.093	119	759826	106.78	ug	96
85) 1,4-Dichlorobenzene	12.130	146	357477	103.56	ug	# 88
86) 1,2-Dichlorobenzene	12.403	146	340292	97.69	ug	99
87) n-Butylbenzene	12.392	91	592914	108.34	ug	93
88) 1,2-Dibromo-3-Chloropr	12.948	157	27403	80.88	ug	# 47
89) 1,2,4-Trichlorobenzene	13.514	180	125475	95.49	ug	99
90) Hexachlorobutadiene	13.624	225	108302	101.86	ug	# 93
91) Naphthalene	13.677	128	138893m	69.69	ug	
92) 1,2,3-Trichlorobenzene	13.834	180	72196	88.38	ug	97

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

Data Path : C:\msdchem\1\DATA\083017\
 Data File : d7336.D
 Acq On : 30 Aug 2017 14:47
 Operator :
 Sample : bfb
 Misc : tune bfb
 ALS Vial : 58 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Title : Voa Calibration 8260 Water
 Last Update : Wed Aug 30 10:32:28 2017



Spectrum Information: Average of 11.197 to 11.202 min.

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	22.7	16619	PASS
75	95	30	60	54.8	40152	PASS
95	95	100	100	100.0	73228	PASS
96	95	5	9	6.4	4685	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	80.4	58856	PASS
175	174	5	9	8.1	4761	PASS
176	174	95	101	95.9	56420	PASS
177	176	5	9	7.7	4323	PASS

Data Path : C:\msdchem\1\DATA\083017\
 Data File : d7337.D
 Acq On : 30 Aug 2017 15:08
 Operator :
 Sample : vstd050
 Misc : ccv e8260w
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 30 15:34:09 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.573	114	275977	50.00	ug	0.00
34) Chlorobenzene-d5	10.117	117	211823	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	106333	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.012	65	111376	50.39	ug	0.01
57) Toluene-d8	8.418	98	285711	47.84	ug	0.00
79) Bromofluorobenzene	11.197	95	113964	50.93	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.515	85	87882	55.07	ug	100
3) Chloromethane	1.680	50	125611	44.73	ug	99
4) Vinyl Chloride	1.777	62	92872	47.59	ug	99
5) Bromomethane	2.059	94	46594	58.43	ug	98
6) Chloroethane	2.166	64	54602	46.21	ug	95
7) Acrolein	2.861	56	65251	216.34	ug	95
8) Trichlorofluoromethane	2.431	101	143936	53.31	ug	100
9) Freon113	2.992	101	74104	59.02	ug	93
10) 1,1-Dichloroethene	2.976	96	80843	51.97	ug	# 80
11) Allyl Chloride	3.390	41	317811m	50.25	ug	
12) Carbon Disulfide	3.217	76	226196	51.31	ug	100
13) Acetone	3.039	43	50207m	42.43	ug	
14) Iodomethane	3.138	142	78170	54.60	ug	# 74
15) Acetonitrile	3.348	40	105416	419.49	ug	# 1
16) Methyl Acetate	3.432	43	100572	57.90	ug	92
17) Methylene Chloride	3.526	84	97452	48.99	ug	# 60
18) Acrylonitrile	3.815	53	184639	191.50	ug	95
19) trans-1,2-Dichloroethene	3.857	96	90804	51.68	ug	90
20) Mtbe	3.878	73	677191	101.01	ug	99
21) 1,1-Dichloroethane	4.344	63	184823	52.12	ug	88
22) Hexane	4.203	43	50437	57.80	ug	98
23) cis-1,2-Dichloroethene	5.042	61	167630	52.89	ug	85
24) 2,2-Dichloropropane	5.036	77	156663	59.42	ug	# 75
25) Propionitrile	5.120	54	161521	466.61	ug	95
26) Bromochloromethane	5.314	128	53150	50.19	ug	# 54
27) Methacrylonitrile	5.309	67	482725	484.84	ug	# 79
28) Chloroform	5.424	83	186203	50.60	ug	97
29) Cyclohexane	5.713	84	121557	52.08	ug	# 75
30) 1,1-Dichloro-1-propene	5.844	75	130312	50.36	ug	82
31) 1,2-Dichloroethane	6.106	62	171332	49.86	ug	99
32) 2-Butanone	5.073	43	59388	45.96	ug	97
35) 1,1,1-Trichloroethane	5.645	97	164144	51.46	ug	100
36) Carbon Tetrachloride	5.849	117	147866	53.96	ug	96
37) Benzene	6.090	78	413300	58.97	ug	100
38) Isobutanol	6.033	43	104820	1072.57	ug	# 76
39) Heptane	6.463	43	108344	67.66	ug	# 85
40) Trichloroethene	6.887	130	106006	57.64	ug	97
41) Methyl Cyclohexane	7.128	83	152448	63.26	ug	# 87
42) 1,2-Dichloropropane	7.144	63	101286	54.70	ug	85
43) Vinyl Acetate	4.433	43	204639	68.39	ug	# 100
44) Dibromomethane	7.286	174	67230	49.77	ug	# 80
45) 1,4-Dioxane	7.333	88	24226	992.30	ug	# 75
46) Methyl Methacrylate	7.338	69	84381	51.27	ug	# 64
47) Bromodichloromethane	7.495	83	138620	51.14	ug	90
49) cis-1,3-Dichloropropene	8.072	75	142578	50.62	ug	99
50) trans-1,3-Dichloropropene	8.785	75	131746	48.98	ug	97
51) 1,1,2-Trichloroethane	9.016	97	80510	47.45	ug	94
52) 1,3-Dichloropropane	9.226	76	148876	47.59	ug	# 62

Data Path : C:\msdchem\1\DATA\083017\
 Data File : d7337.D
 Acq On : 30 Aug 2017 15:08
 Operator :
 Sample : vstd050
 Misc : ccv e8260w
 ALS Vial : 7 Sample Multiplier: 1

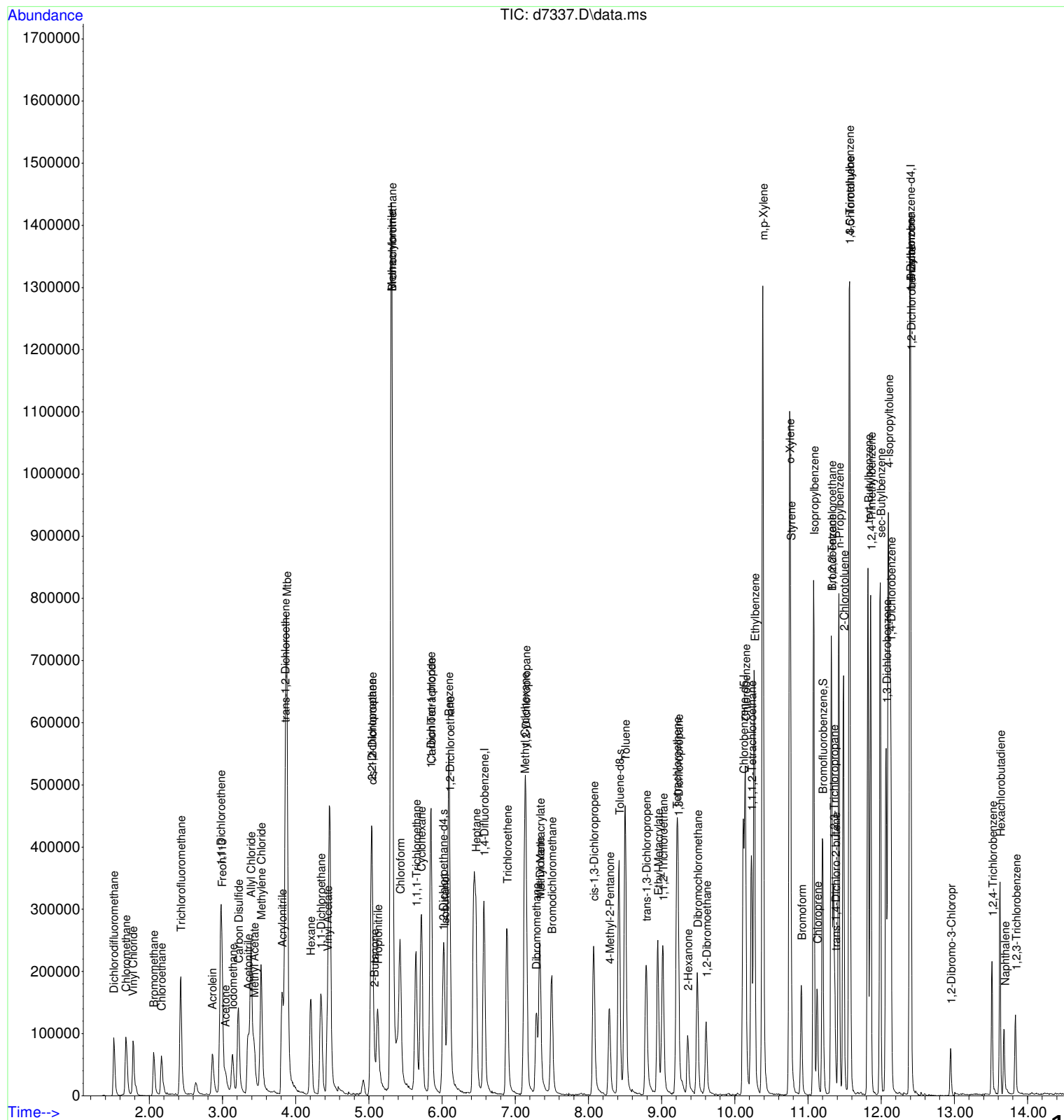
Quant Time: Aug 30 15:34:09 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) 1,2-Dibromoethane	9.608	107	82560	48.91	ug	96
54) Dibromochloromethane	9.488	129	106273	50.39	ug	93
55) Bromoform	10.909	173	68541	46.77	ug	99
56) 4-Methyl-2-Pentanone	8.287	43	117542	47.10	ug	86
58) Toluene	8.502	92	227760	48.19	ug	96
59) Ethyl Metacrylate	8.948	69	129363	47.62	ug	99
60) Tetrachloroethene	9.205	164	73380	46.14	ug	100
61) 2-Hexanone	9.357	43	77714	46.35	ug	86
63) Chlorobenzene	10.143	112	243549	51.90	ug	99
64) 1,1,1,2-Tetrachloroethane	10.227	133	90598	50.09	ug	94
65) Ethylbenzene	10.269	106	135403	52.96	ug	99
66) m,p-Xylene	10.384	91	701594	104.44	ug	93
67) o-Xylene	10.746	106	164700	51.14	ug	89
68) Styrene	10.762	104	266349	52.11	ug	79
69) Isopropylbenzene	11.076	105	429955	50.94	ug	97
70) Chloroprene	11.124	53	32217	101.18	ug	92
71) trans-1,4-Dichloro-2-b...	11.370	88	12891	54.94	ug	# 1
72) Bromobenzene	11.318	77	198853	51.28	ug	# 69
73) 1,2,3-Trichloropropane	11.349	75	128246	49.68	ug	# 75
74) 2-Chlorotoluene	11.485	91	298723	52.07	ug	100
75) 4-Chlorotoluene	11.569	91	327824	51.48	ug	100
76) 1,3,5-Trimethylbenzene	11.564	105	365285	52.59	ug	99
77) tert-Butylbenzene	11.821	119	304117	50.43	ug	98
78) 1,2,4-Trimethylbenzene	11.858	105	359354	52.28	ug	94
80) 1,1,2,2-Tetrachloroethane	11.318	83	102338	49.87	ug	96
81) n-Propylbenzene	11.422	91	472084	51.22	ug	99
82) 1,3-Dichlorobenzene	12.067	146	171618	50.92	ug	# 91
83) sec-Butylbenzene	11.989	105	420389	52.74	ug	100
84) 4-Isopropyltoluene	12.099	119	358472	51.72	ug	# 94
85) 1,4-Dichlorobenzene	12.130	146	167939	50.82	ug	# 82
86) 1,2-Dichlorobenzene	12.403	146	157745m	48.37	ug	
87) n-Butylbenzene	12.398	91	268011	51.20	ug	92
88) 1,2-Dibromo-3-Chloropr	12.948	157	14233	45.05	ug	# 61
89) 1,2,4-Trichlorobenzene	13.514	180	49113	40.18	ug	98
90) Hexachlorobutadiene	13.625	225	45554	44.71	ug	# 94
91) Naphthalene	13.682	128	69362	38.76	ug	98
92) 1,2,3-Trichlorobenzene	13.834	180	25801	34.85	ug	96

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

Data Path : C:\msdchem\1\DATA\083017\
 Data File : d7337.D
 Acq On : 30 Aug 2017 15:08
 Operator :
 Sample : vstd050
 Misc : ccv e8260w
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 30 15:34:09 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\083017\
 Data File : d7341.D
 Acq On : 30 Aug 2017 16:34
 Operator :
 Sample : vblk
 Misc : mblk e8260w
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 30 16:55:53 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.578	114	302992	50.00	ug	0.01
34) Chlorobenzene-d5	10.117	117	243737	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	109914	50.00	ug	0.00

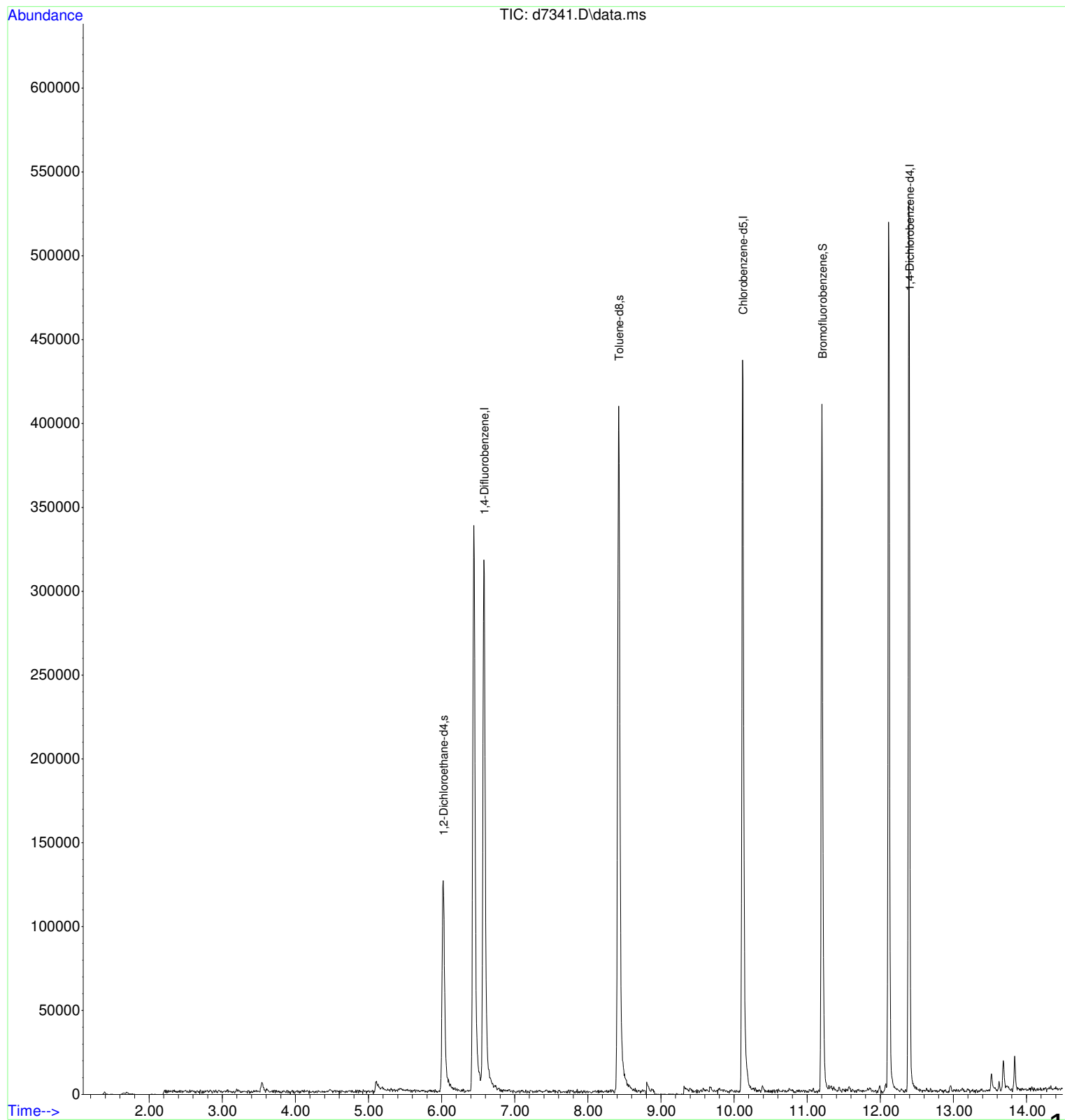
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.022	65	119388	49.20	ug	0.02
57) Toluene-d8	8.423	98	336437	48.96	ug	0.01
79) Bromofluorobenzene	11.202	95	117145	50.65	ug	0.00

Target Compounds	Qvalue

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

Data Path : C:\msdchem\1\DATA\083017\
Data File : d7341.D
Acq On : 30 Aug 2017 16:34
Operator :
Sample : vblk
Misc : mblk e8260w
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 30 16:55:53 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Wed Aug 30 10:32:28 2017
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\083017\
 Data File : d7342.D
 Acq On : 30 Aug 2017 16:55
 Operator :
 Sample : 170821039-012a
 Misc : samp e8260w
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:51:03 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.583	114	275781	50.00	ug	0.02
34) Chlorobenzene-d5	10.117	117	239961	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	107315	50.00	ug	0.00

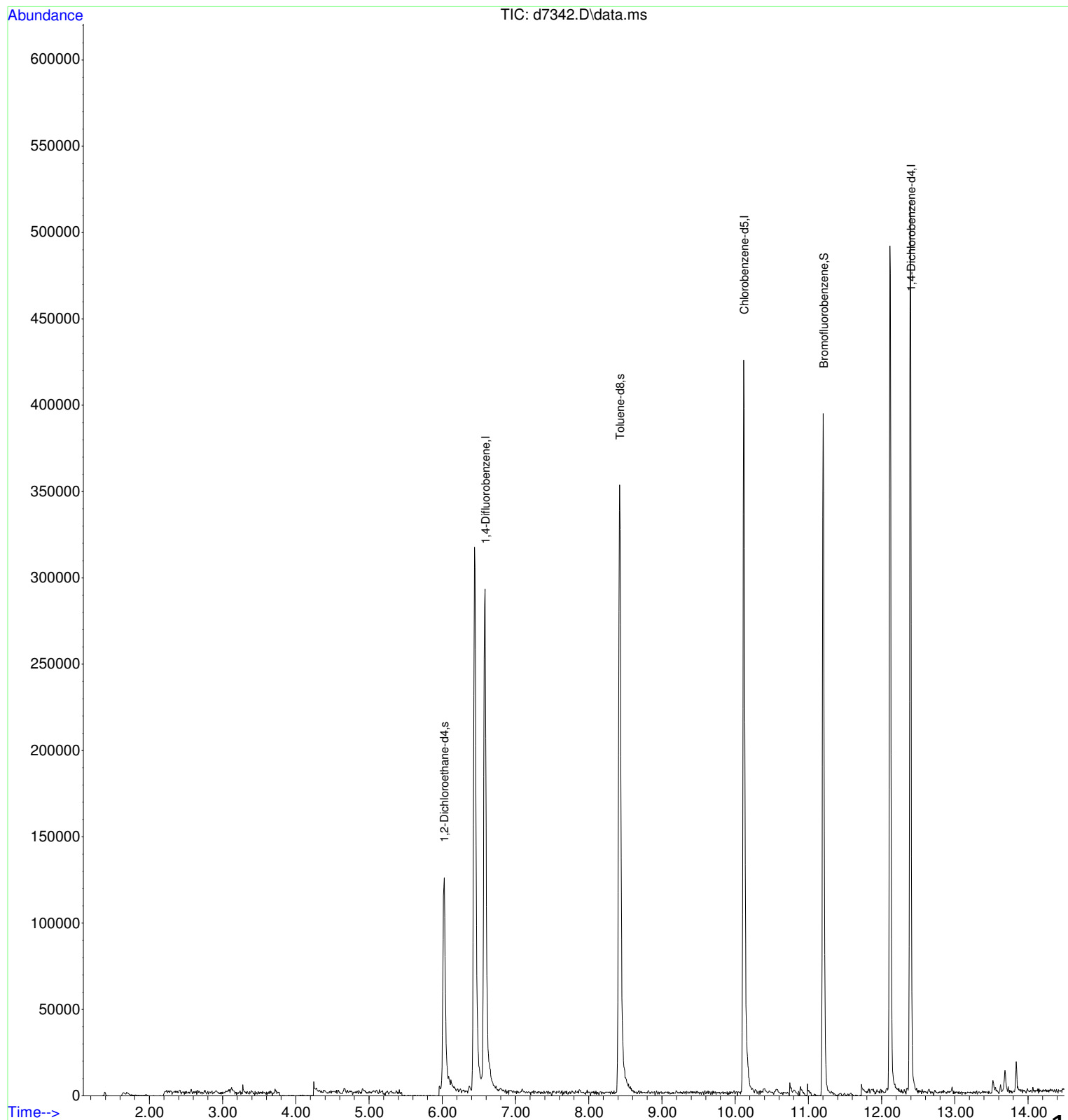
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.022	65	109940	49.78	ug	0.02
57) Toluene-d8	8.423	98	287994	42.57	ug	0.01
79) Bromofluorobenzene	11.202	95	116888	51.76	ug	0.00

Target Compounds	Qvalue

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

Data Path : C:\msdchem\1\DATA\083017\
Data File : d7342.D
Acq On : 30 Aug 2017 16:55
Operator :
Sample : 170821039-012a
Misc : samp e8260w
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 31 08:51:03 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Wed Aug 30 10:32:28 2017
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\083017\
 Data File : d7343.D
 Acq On : 30 Aug 2017 17:16
 Operator :
 Sample : 170821039-011a
 Misc : samp e8260w
 ALS Vial : 10 Sample Multiplier: 1

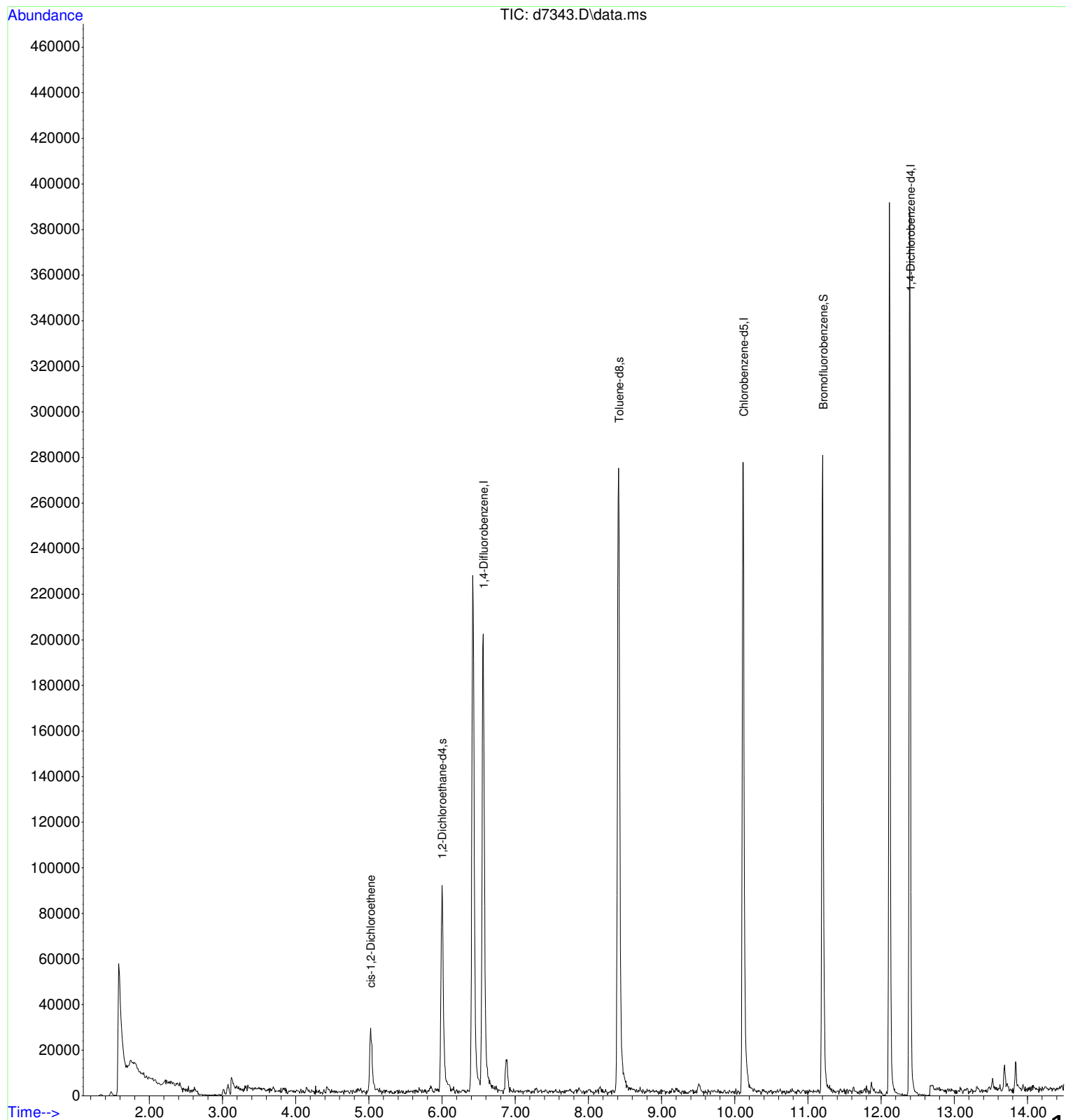
Quant Time: Aug 31 08:52:05 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

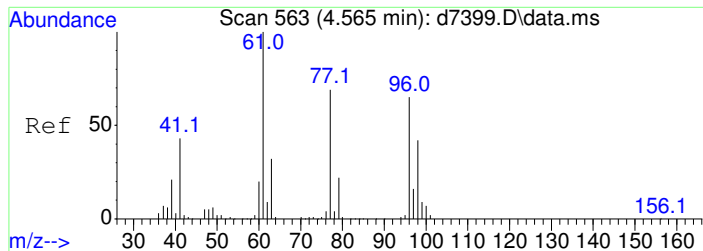
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.562	114	182143	50.00	ug	0.00
34) Chlorobenzene-d5	10.117	117	157121	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	79823	50.00	ug	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.996	65	77353	53.03	ug	0.00
57) Toluene-d8	8.413	98	218633	49.36	ug	0.00
79) Bromofluorobenzene	11.202	95	80980	48.21	ug	0.00
Target Compounds						
23) cis-1,2-Dichloroethene	5.021	61	19031	9.10	ug	Qvalue 98

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

Data Path : C:\msdchem\1\DATA\083017\
Data File : d7343.D
Acq On : 30 Aug 2017 17:16
Operator :
Sample : 170821039-011a
Misc : samp e8260w
ALS Vial : 10 Sample Multiplier: 1

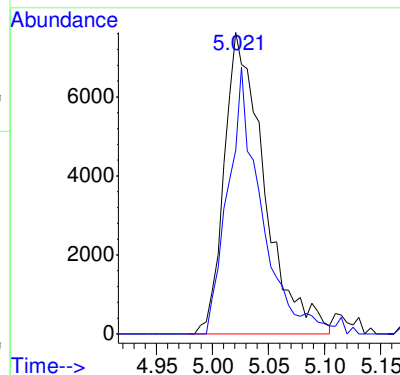
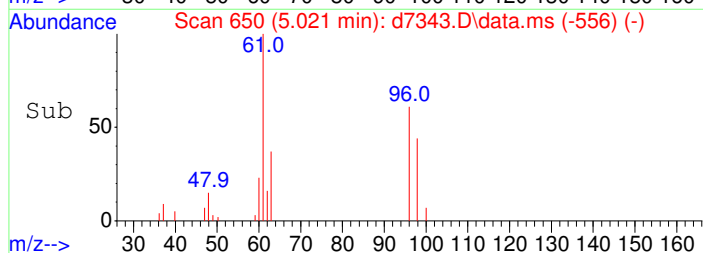
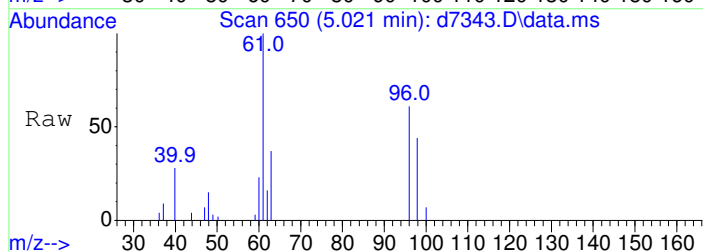
Quant Time: Aug 31 08:52:05 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Wed Aug 30 10:32:28 2017
Response via : Initial Calibration





#23
 cis-1,2-Dichloroethene
 Concen: 9.10 ug
 RT: 5.021 min Scan# 650
 Delta R.T. -0.005 min
 Lab File: d7343.D
 Acq: 30 Aug 2017 17:16

Tgt Ion: 61 Resp: 19031
 Ion Ratio Lower Upper
 61 100
 96 73.1 59.7 89.5



Data Path : C:\msdchem\1\DATA\083017\
 Data File : d7344.D
 Acq On : 30 Aug 2017 17:37
 Operator :
 Sample : 170821039-002a
 Misc : samp e8260w
 ALS Vial : 11 Sample Multiplier: 1

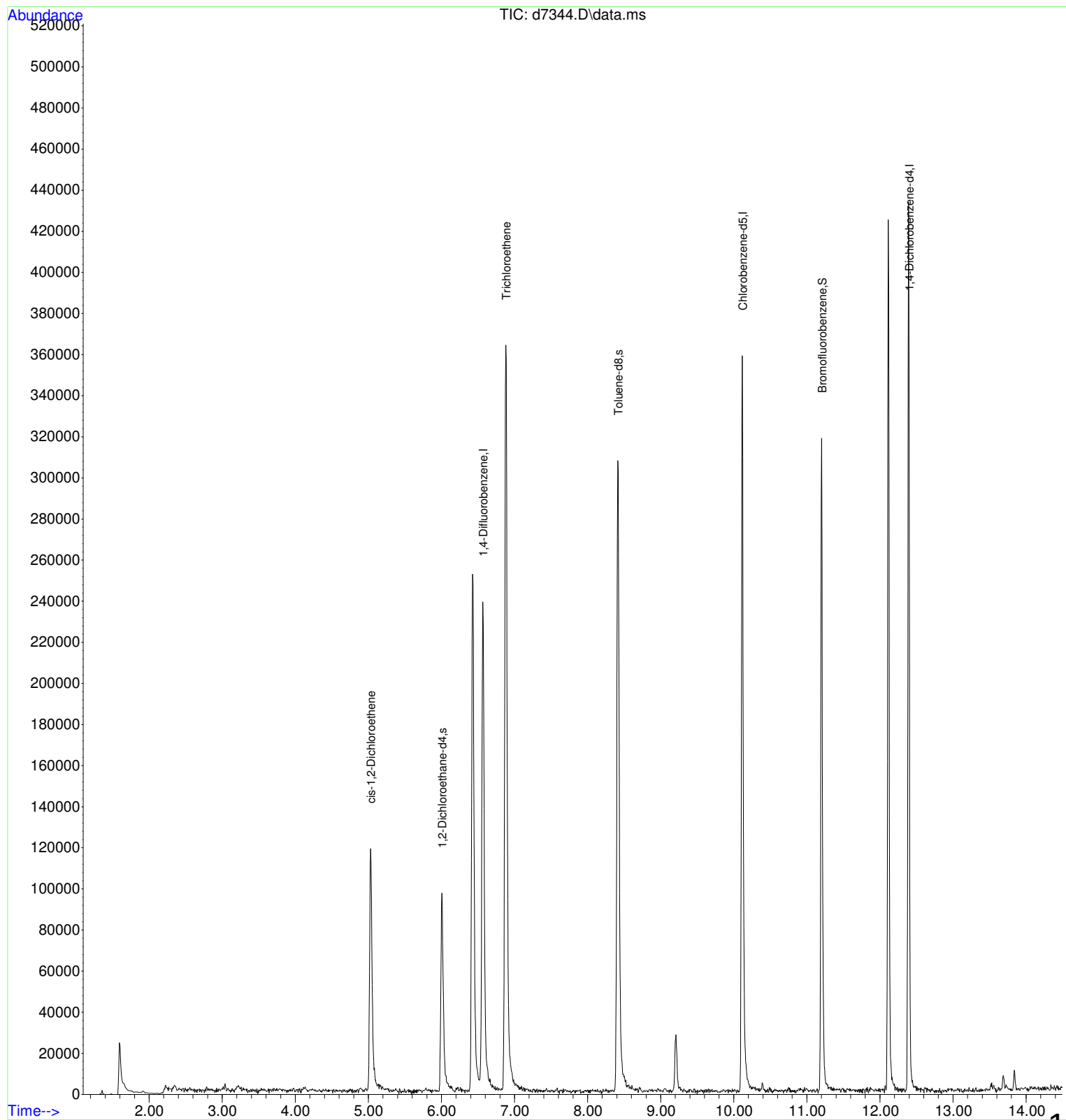
Quant Time: Aug 31 09:52:26 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

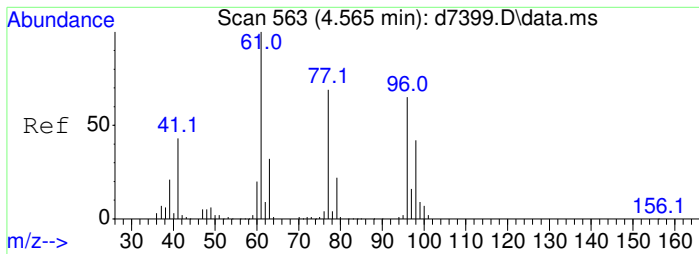
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.567	114	215959	50.00	ug	0.00
34) Chlorobenzene-d5	10.117	117	192391	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	87573	50.00	ug	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.006	65	87970	50.86	ug	0.00
57) Toluene-d8	8.413	98	252817	46.61	ug	0.00
79) Bromofluorobenzene	11.202	95	89759	48.71	ug	0.00
Target Compounds						Qvalue
23) cis-1,2-Dichloroethene	5.031	61	85480	34.47	ug	97
40) Trichloroethene	6.882	130	142932	85.56	ug	97

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

Data Path : C:\msdchem\1\DATA\083017\
Data File : d7344.D
Acq On : 30 Aug 2017 17:37
Operator :
Sample : 170821039-002a
Misc : samp e8260w
ALS Vial : 11 Sample Multiplier: 1

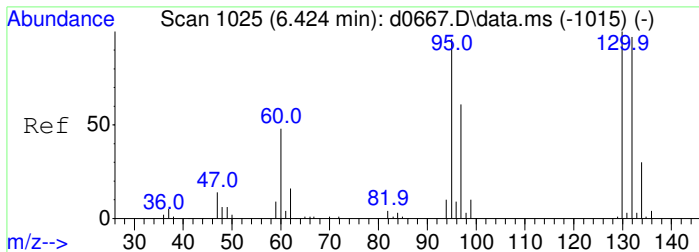
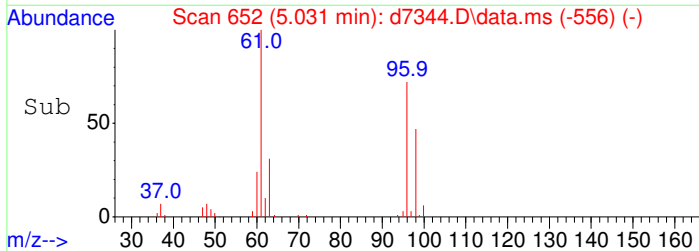
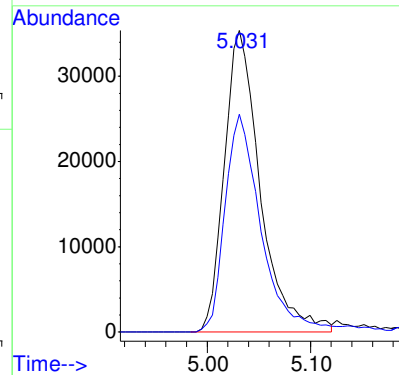
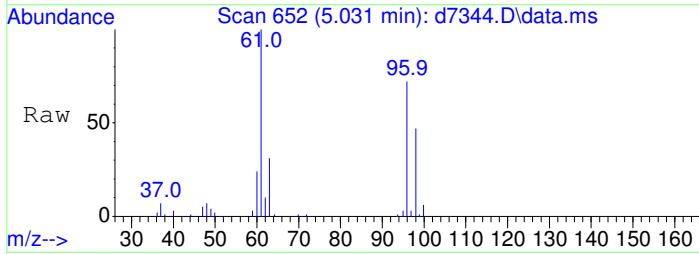
Quant Time: Aug 31 09:52:26 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Wed Aug 30 10:32:28 2017
Response via : Initial Calibration





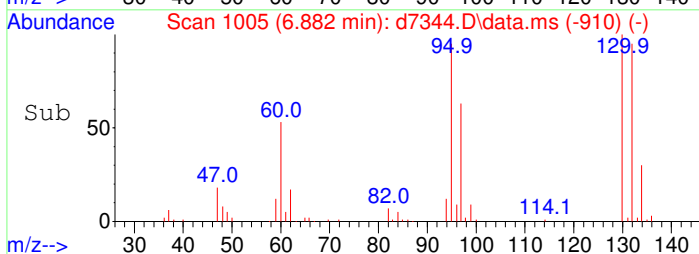
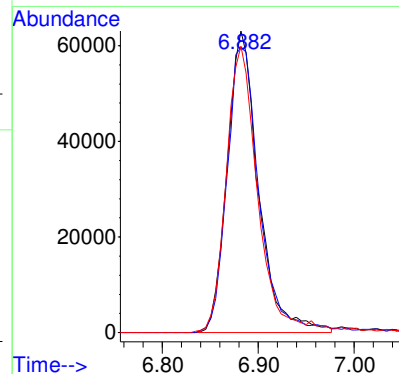
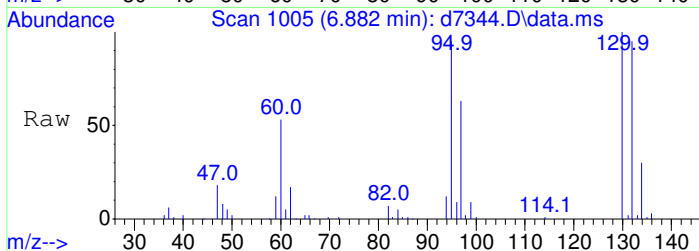
#23
 cis-1,2-Dichloroethene
 Concen: 34.47 ug
 RT: 5.031 min Scan# 652
 Delta R.T. 0.005 min
 Lab File: d7344.D
 Acq: 30 Aug 2017 17:37

Tgt Ion: 61 Resp: 85480
 Ion Ratio Lower Upper
 61 100
 96 72.3 59.7 89.5



#40
 Trichloroethene
 Concen: 85.56 ug
 RT: 6.882 min Scan# 1005
 Delta R.T. 0.000 min
 Lab File: d7344.D
 Acq: 30 Aug 2017 17:37

Tgt Ion: 130 Resp: 142932
 Ion Ratio Lower Upper
 130 100
 132 97.0 72.9 112.9
 95 95.4 74.0 114.0



Data Path : C:\msdchem\1\DATA\083017\
 Data File : d7345.D
 Acq On : 30 Aug 2017 17:59
 Operator :
 Sample : 170821039-005a
 Misc : samp e8260w
 ALS Vial : 12 Sample Multiplier: 1

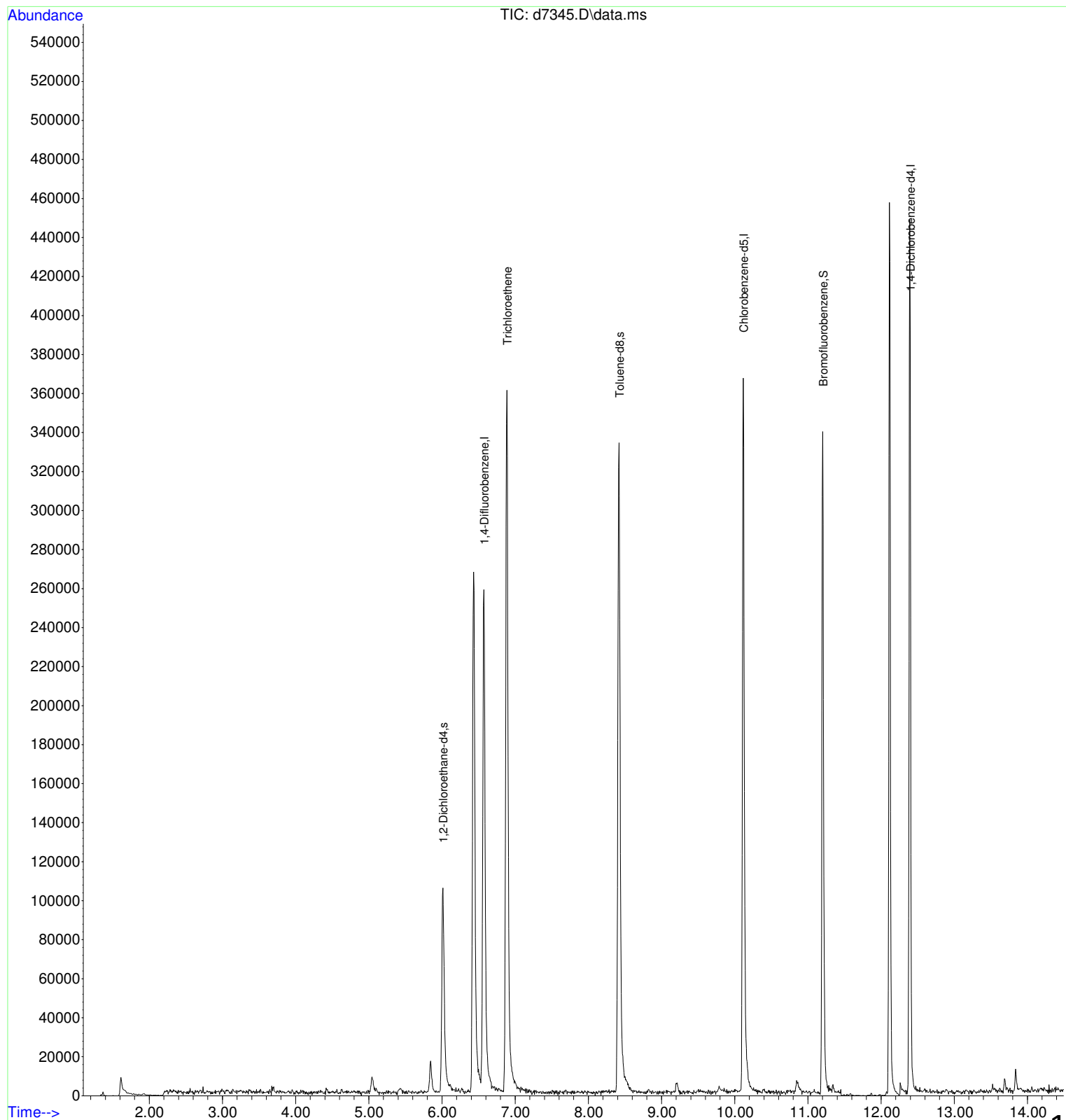
Quant Time: Aug 31 09:07:20 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

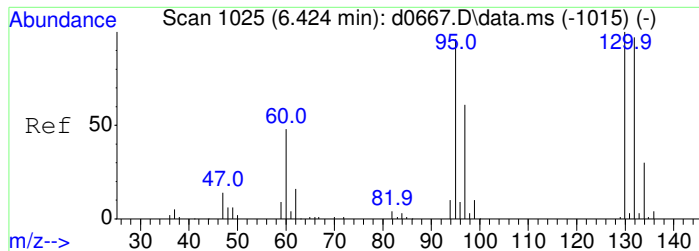
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.573	114	236996	50.00	ug	0.00
34) Chlorobenzene-d5	10.117	117	207918	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.393	152	98351	50.00	ug	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.012	65	97692	51.47	ug	0.01
57) Toluene-d8	8.418	98	268859	45.87	ug	0.00
79) Bromofluorobenzene	11.202	95	102057	49.31	ug	0.00
Target Compounds						
40) Trichloroethene	6.887	130	140756	77.97	ug	Qvalue 99

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

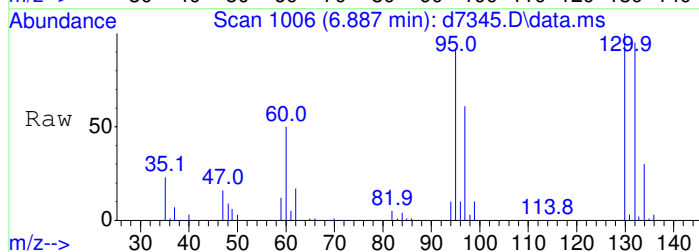
Data Path : C:\msdchem\1\DATA\083017\
Data File : d7345.D
Acq On : 30 Aug 2017 17:59
Operator :
Sample : 170821039-005a
Misc : samp e8260w
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 09:07:20 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Wed Aug 30 10:32:28 2017
Response via : Initial Calibration

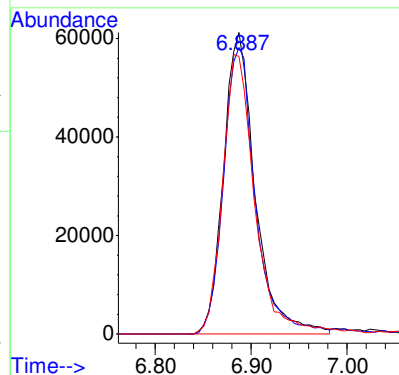
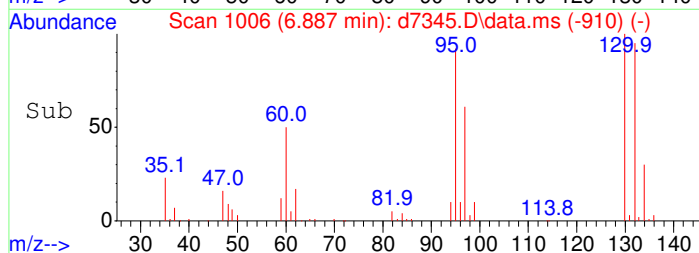




#40
 Trichloroethene
 Concen: 77.97 ug
 RT: 6.887 min Scan# 1006
 Delta R.T. 0.005 min
 Lab File: d7345.D
 Acq: 30 Aug 2017 17:59



Tgt	Ion	Ratio	Lower	Upper
130	100			
132	95.3	72.9	112.9	
95	93.9	74.0	114.0	



Data Path : C:\msdchem\1\DATA\083017\
 Data File : d7346.D
 Acq On : 30 Aug 2017 18:20
 Operator :
 Sample : 170821039-004a
 Misc : samp e8260w
 ALS Vial : 13 Sample Multiplier: 1

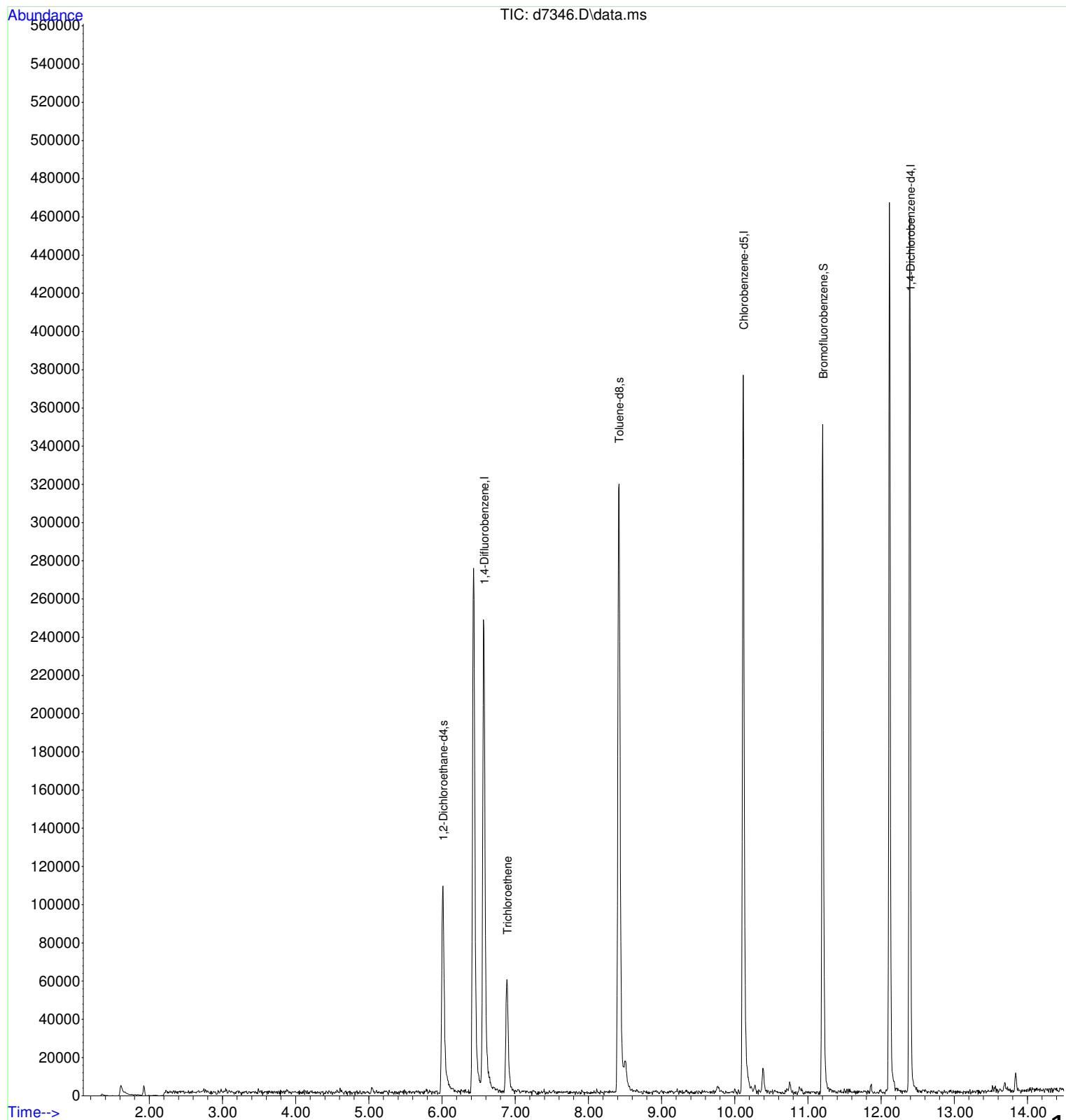
Quant Time: Aug 31 09:08:46 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

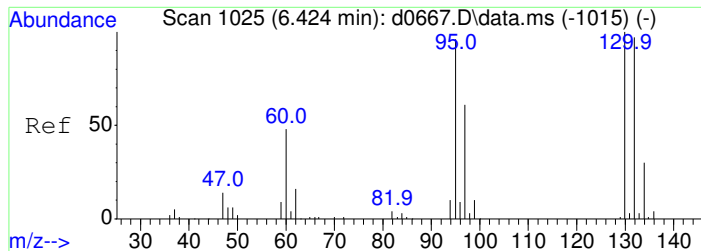
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.573	114	226656	50.00	ug	0.00
34) Chlorobenzene-d5	10.117	117	205953	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.393	152	97682	50.00	ug	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.012	65	95907	52.84	ug	0.01
57) Toluene-d8	8.413	98	256793	44.23	ug	0.00
79) Bromofluorobenzene	11.202	95	101902	49.57	ug	0.00
Target Compounds						
40) Trichloroethene	6.887	130	24184	13.52	ug	Qvalue 98

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

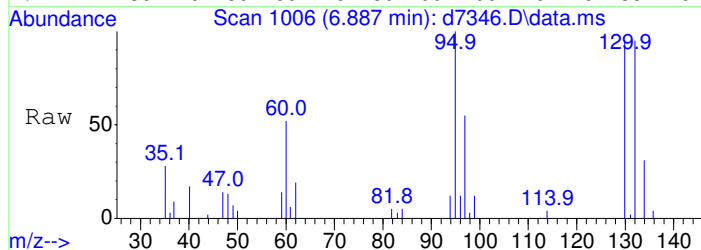
Data Path : C:\msdchem\1\DATA\083017\
Data File : d7346.D
Acq On : 30 Aug 2017 18:20
Operator :
Sample : 170821039-004a
Misc : samp e8260w
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 31 09:08:46 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Wed Aug 30 10:32:28 2017
Response via : Initial Calibration

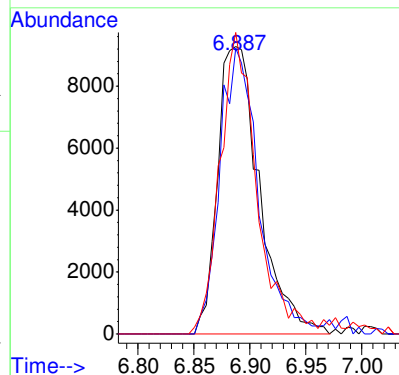
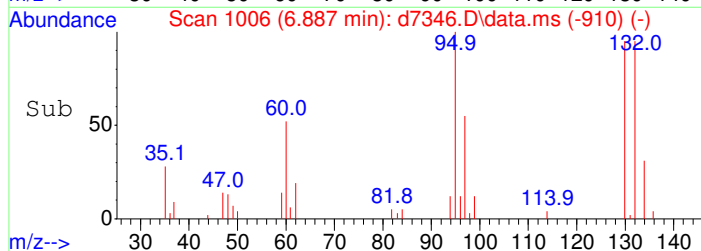




#40
 Trichloroethene
 Concen: 13.52 ug
 RT: 6.887 min Scan# 1006
 Delta R.T. 0.005 min
 Lab File: d7346.D
 Acq: 30 Aug 2017 18:20



Tgt Ion:130 Resp: 24184
 Ion Ratio Lower Upper
 130 100
 132 92.2 72.9 112.9
 95 91.8 74.0 114.0



Data Path : C:\msdchem\1\DATA\083017\
 Data File : d7347.D
 Acq On : 30 Aug 2017 18:41
 Operator :
 Sample : 170821039-006a
 Misc : samp e8260w
 ALS Vial : 14 Sample Multiplier: 1

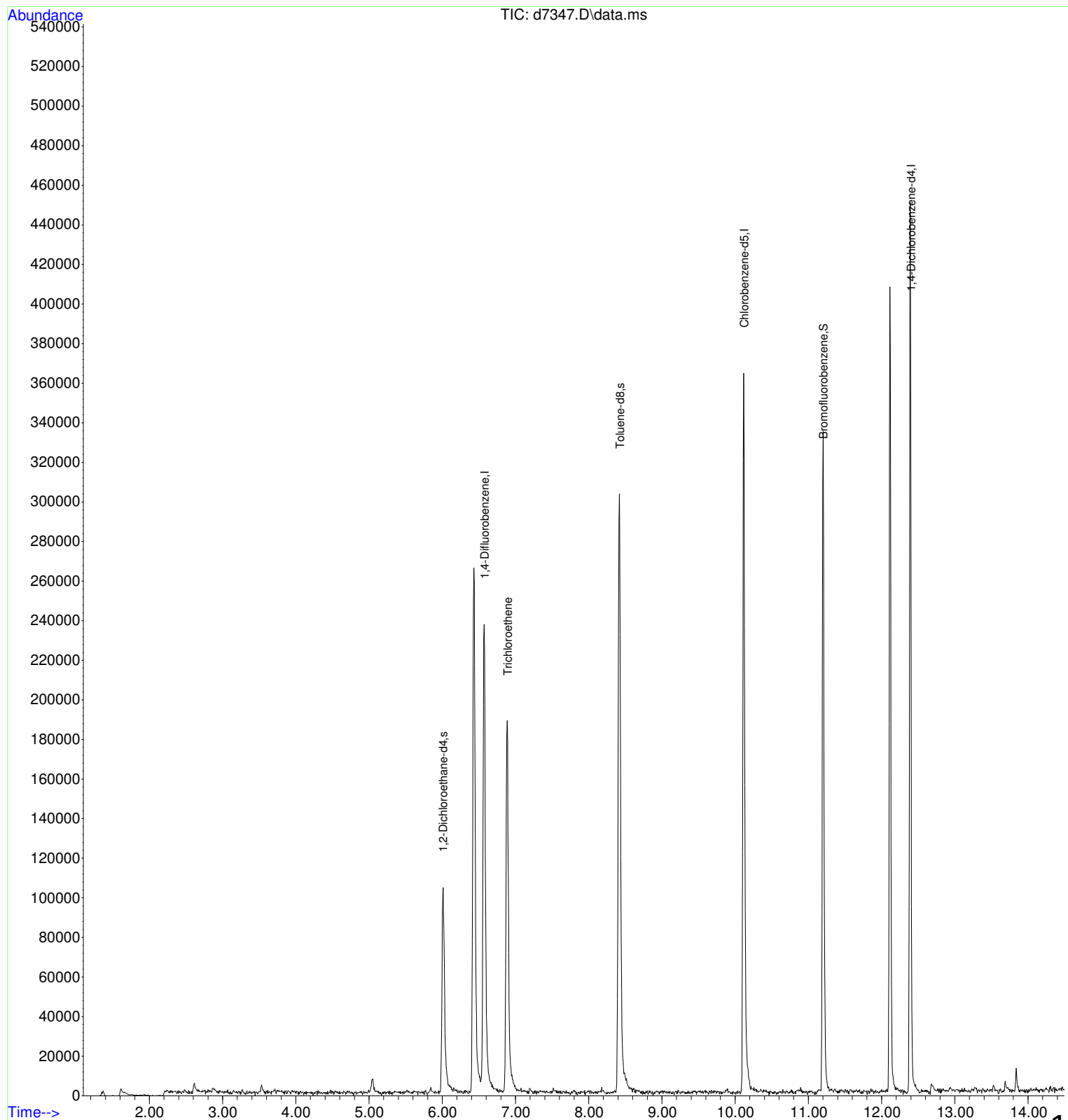
Quant Time: Aug 31 09:10:22 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

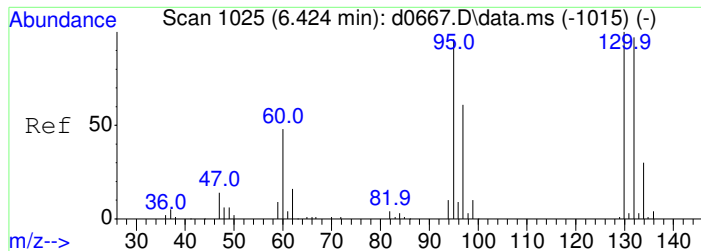
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.573	114	218284	50.00	ug	0.00
34) Chlorobenzene-d5	10.117	117	201588	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	96333	50.00	ug	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.006	65	100837	57.68	ug	0.00
57) Toluene-d8	8.418	98	249154	43.84	ug	0.00
79) Bromofluorobenzene	11.197	95	98518	48.60	ug	0.00
Target Compounds						
40) Trichloroethene	6.887	130	75736	43.27	ug	Qvalue 99

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

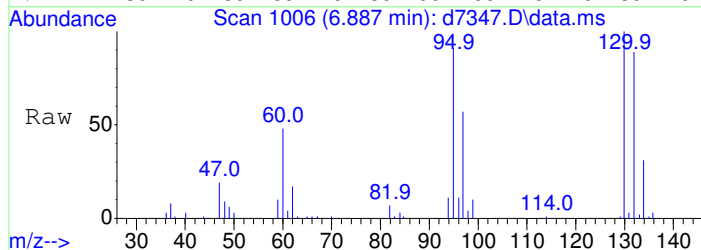
Data Path : C:\msdchem\1\DATA\083017\
Data File : d7347.D
Acq On : 30 Aug 2017 18:41
Operator :
Sample : 170821039-006a
Misc : samp e8260w
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 31 09:10:22 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Wed Aug 30 10:32:28 2017
Response via : Initial Calibration

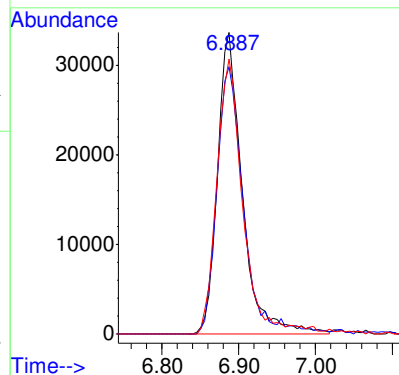
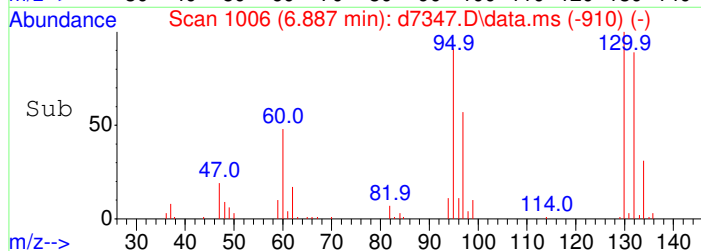




#40
 Trichloroethene
 Concen: 43.27 ug
 RT: 6.887 min Scan# 1006
 Delta R.T. 0.005 min
 Lab File: d7347.D
 Acq: 30 Aug 2017 18:41



Tgt Ion:130 Resp: 75736
 Ion Ratio Lower Upper
 130 100
 132 90.9 72.9 112.9
 95 94.5 74.0 114.0



Data Path : C:\msdchem\1\DATA\083017\
 Data File : d7348.D
 Acq On : 30 Aug 2017 19:03
 Operator :
 Sample : 170821039-008a
 Misc : samp e8260w
 ALS Vial : 15 Sample Multiplier: 1

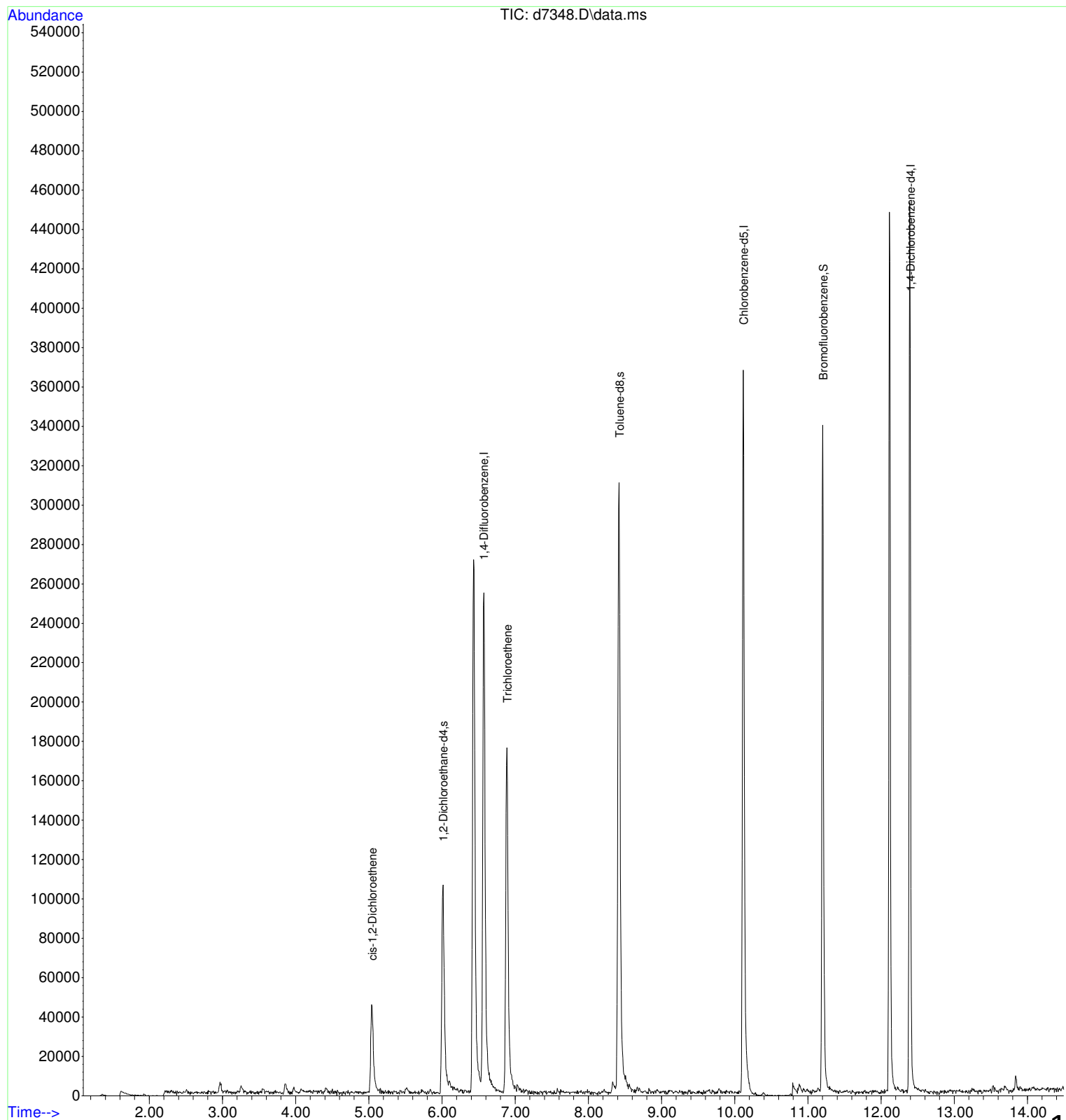
Quant Time: Aug 31 09:11:25 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

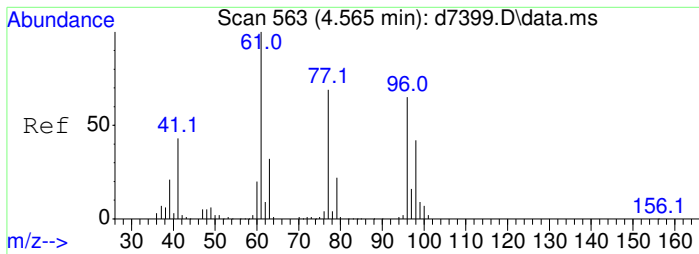
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.568	114	234680	50.00	ug	0.00
34) Chlorobenzene-d5	10.117	117	204001	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.393	152	93821	50.00	ug	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.012	65	98835	52.59	ug	0.01
57) Toluene-d8	8.418	98	249679	43.41	ug	0.00
79) Bromofluorobenzene	11.202	95	99543	50.42	ug	0.00
Target Compounds						Qvalue
23) cis-1,2-Dichloroethene	5.042	61	33778	12.53	ug	96
40) Trichloroethene	6.887	130	68381	38.60	ug	96

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

Data Path : C:\msdchem\1\DATA\083017\
Data File : d7348.D
Acq On : 30 Aug 2017 19:03
Operator :
Sample : 170821039-008a
Misc : samp e8260w
ALS Vial : 15 Sample Multiplier: 1

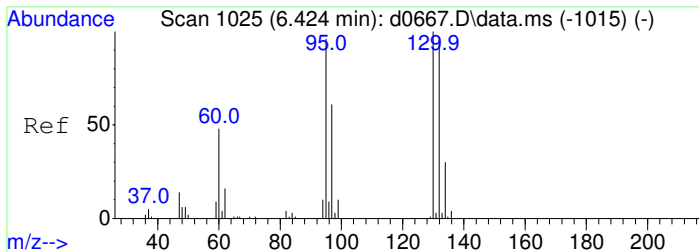
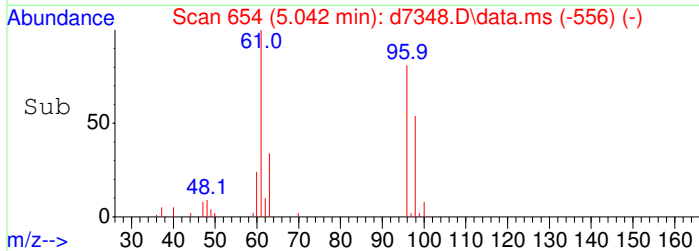
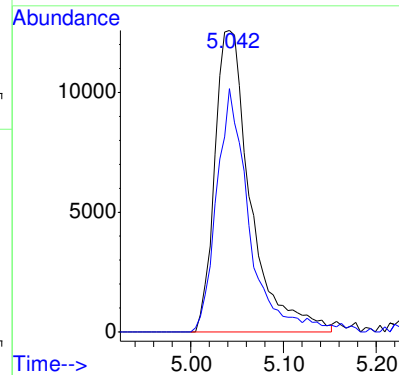
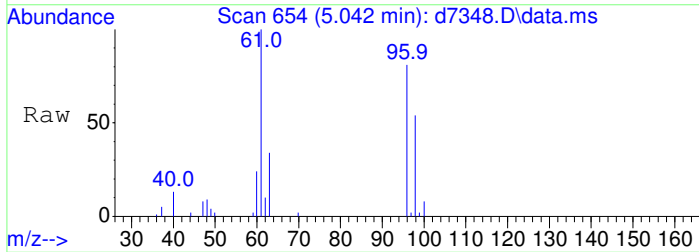
Quant Time: Aug 31 09:11:25 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Wed Aug 30 10:32:28 2017
Response via : Initial Calibration





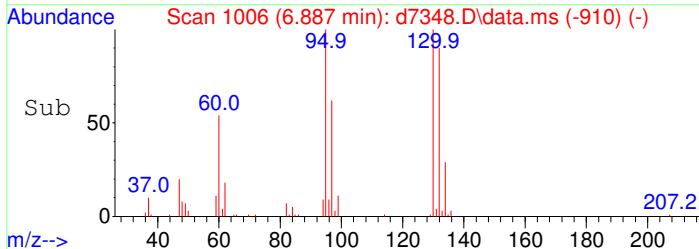
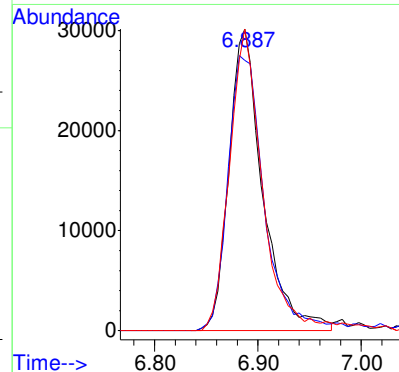
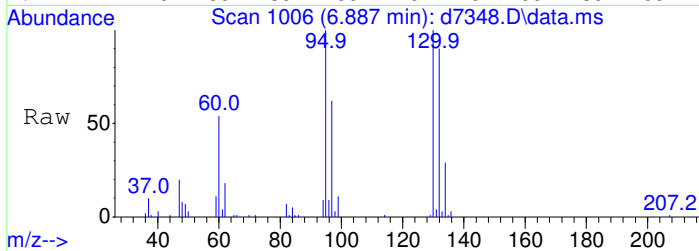
#23
 cis-1,2-Dichloroethene
 Concen: 12.53 ug
 RT: 5.042 min Scan# 654
 Delta R.T. 0.016 min
 Lab File: d7348.D
 Acq: 30 Aug 2017 19:03

Tgt Ion: 61 Resp: 33778
 Ion Ratio Lower Upper
 61 100
 96 71.4 59.7 89.5



#40
 Trichloroethene
 Concen: 38.60 ug
 RT: 6.887 min Scan# 1006
 Delta R.T. 0.005 min
 Lab File: d7348.D
 Acq: 30 Aug 2017 19:03

Tgt Ion: 130 Resp: 68381
 Ion Ratio Lower Upper
 130 100
 132 98.4 72.9 112.9
 95 96.3 74.0 114.0



Data Path : C:\msdchem\1\DATA\083017\
 Data File : d7353.D
 Acq On : 30 Aug 2017 20:54
 Operator :
 Sample : 170821039-001a
 Misc : samp e8260w
 ALS Vial : 20 Sample Multiplier: 1

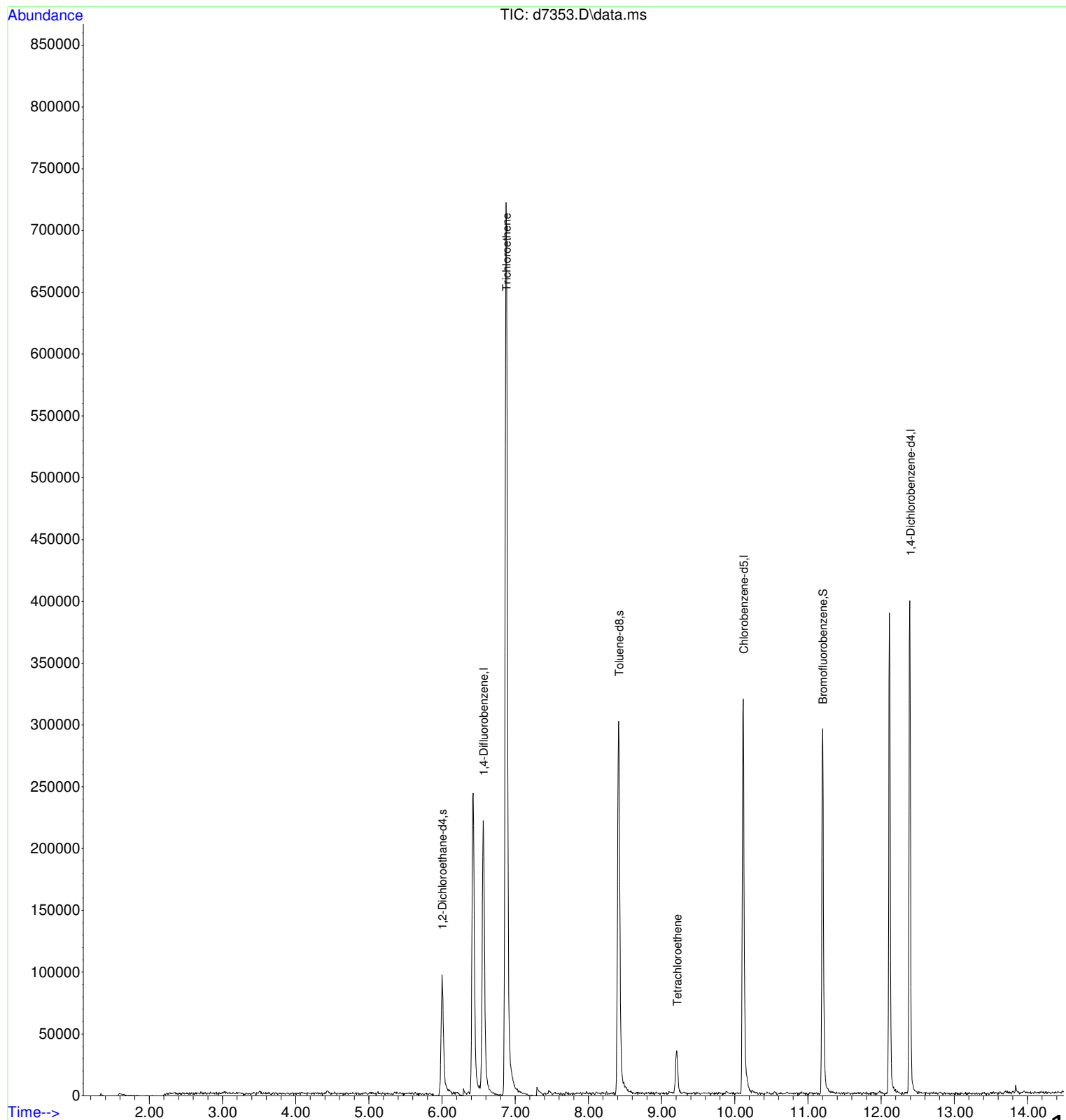
Quant Time: Aug 31 09:48:05 2017
 Quant Method : C:\msdchem\1\qtmetho\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

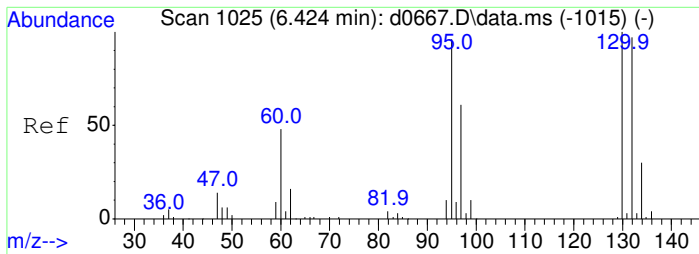
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.562	114	210863	50.00	ug	0.00
34) Chlorobenzene-d5	10.117	117	180244	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	88764	50.00	ug	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.001	65	80438	47.63	ug	0.00
57) Toluene-d8	8.413	98	237471	46.73	ug	0.00
79) Bromofluorobenzene	11.197	95	89653	48.00	ug	0.00
Target Compounds						Qvalue
40) Trichloroethene	6.877	130	293540	187.56	ug	98
60) Tetrachloroethene	9.210	164	8951	6.61	ug	96

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

Data Path : C:\msdchem\1\DATA\083017\
Data File : d7353.D
Acq On : 30 Aug 2017 20:54
Operator :
Sample : 170821039-001a
Misc : samp e8260w
ALS Vial : 20 Sample Multiplier: 1

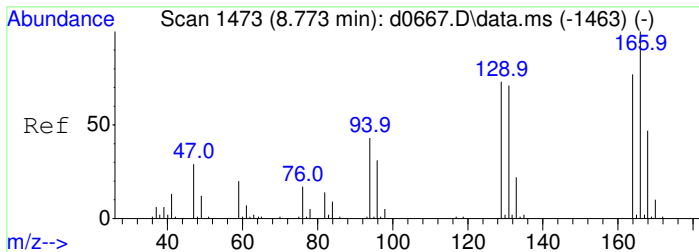
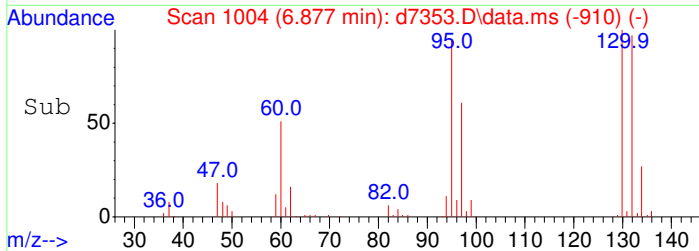
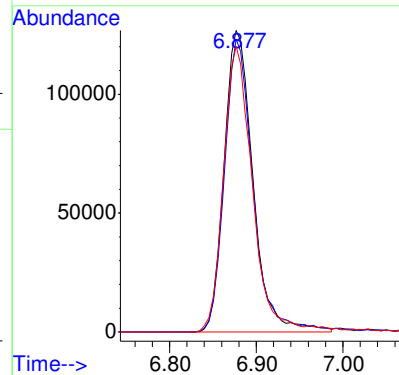
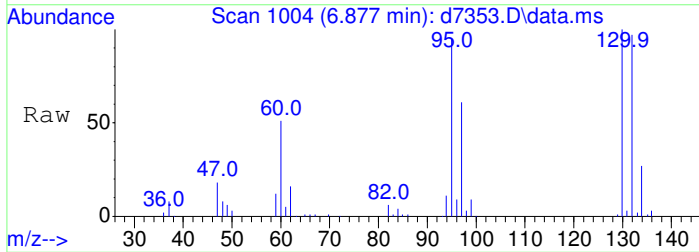
Quant Time: Aug 31 09:48:05 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Wed Aug 30 10:32:28 2017
Response via : Initial Calibration





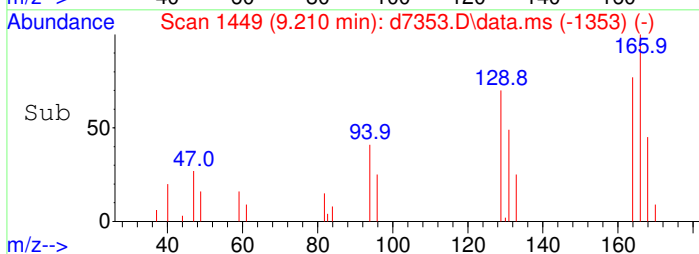
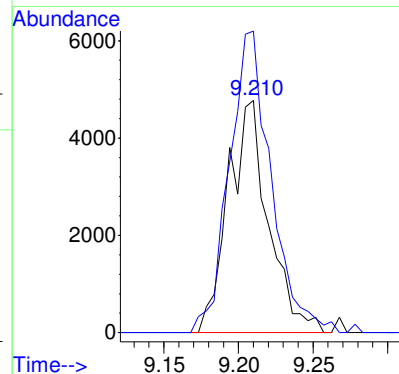
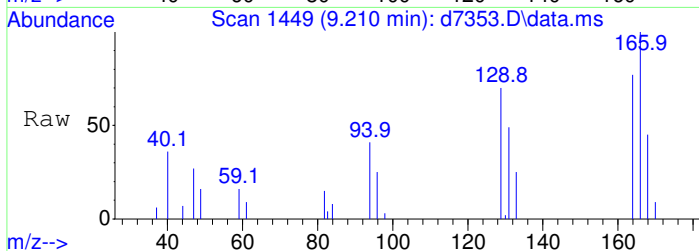
#40
 Trichloroethene
 Concen: 187.56 ug
 RT: 6.877 min Scan# 1004
 Delta R.T. -0.005 min
 Lab File: d7353.D
 Acq: 30 Aug 2017 20:54

Tgt Ion	Ratio	Lower	Upper
130	100		
132	96.5	72.9	112.9
95	93.4	74.0	114.0



#60
 Tetrachloroethene
 Concen: 6.61 ug
 RT: 9.210 min Scan# 1449
 Delta R.T. 0.005 min
 Lab File: d7353.D
 Acq: 30 Aug 2017 20:54

Tgt Ion	Ratio	Lower	Upper
164	100		
166	135.2	110.2	150.2



Data Path : C:\msdchem\1\DATA\083017\
 Data File : d7354.D
 Acq On : 30 Aug 2017 21:16
 Operator :
 Sample : 170821039-001ams
 Misc : ms e8260w
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 31 09:53:49 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.567	114	231384	50.00	ug	0.00
34) Chlorobenzene-d5	10.112	117	223684	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	114495	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.006	65	99089	53.47	ug	0.00
57) Toluene-d8	8.418	98	288309	45.72	ug	0.00
79) Bromofluorobenzene	11.197	95	115854	48.08	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.505	85	97869	73.15	ug	100
3) Chloromethane	1.670	50	106275	45.13	ug	99
4) Vinyl Chloride	1.768	62	99362	60.72	ug	99
5) Bromomethane	2.059	94	34695	51.89	ug	92
6) Chloroethane	2.157	64	57485	58.03	ug	97
7) Acrolein	2.850	56	64858	256.48	ug	98
8) Trichlorofluoromethane	2.420	101	132971	58.73	ug	100
9) Freon113	2.976	101	36135	34.33	ug	88
10) 1,1-Dichloroethene	2.965	96	73643	56.47	ug	# 73
12) Carbon Disulfide	3.207	76	105882	28.65	ug	100
13) Acetone	3.028	43	37325	37.62	ug	93
14) Iodomethane	3.128	142	5233	4.36	ug	# 81
15) Acetonitrile	3.343	40	847	4.02	ug	# 1
16) Methyl Acetate	3.427	43	42638	29.28	ug	91
17) Methylene Chloride	3.521	84	89100	53.43	ug	# 66
18) Acrylonitrile	3.810	53	155464	192.32	ug	94
19) trans-1,2-Dichloroethene	3.851	96	83111	56.42	ug	# 86
20) Mtbe	3.872	73	151924	27.03	ug	99
21) 1,1-Dichloroethane	4.339	63	173576	58.38	ug	89
23) cis-1,2-Dichloroethene	5.031	61	145126	54.62	ug	92
24) 2,2-Dichloropropane	5.026	77	71286	32.25	ug	# 78
26) Bromochloromethane	5.314	128	23822	26.83	ug	# 74
28) Chloroform	5.424	83	180796	58.60	ug	95
29) Cyclohexane	5.713	84	55344	28.28	ug	# 78
30) 1,1-Dichloro-1-propene	5.839	75	62444	28.79	ug	# 80
31) 1,2-Dichloroethane	6.101	62	163702	56.82	ug	97
32) 2-Butanone	5.063	43	49162	45.38	ug	93
35) 1,1,1-Trichloroethane	5.639	97	160268	47.58	ug	98
36) Carbon Tetrachloride	5.839	117	142161	49.13	ug	97
37) Benzene	6.085	78	380592	51.42	ug	100
40) Trichloroethene	6.882	130	417948	215.19	ug	97
41) Methyl Cyclohexane	7.123	83	62729	24.65	ug	89
42) 1,2-Dichloropropane	7.144	63	95747	48.97	ug	90
44) Dibromomethane	7.286	174	33997	23.83	ug	# 80
45) 1,4-Dioxane	7.286	88	55	2.13	ug	# 22
47) Bromodichloromethane	7.495	83	143988	50.30	ug	86
49) cis-1,3-Dichloropropene	8.072	75	156624	52.65	ug	96
50) trans-1,3-Dichloropropene	8.785	75	139827	49.22	ug	96
51) 1,1,2-Trichloroethane	9.011	97	88925	49.64	ug	90
52) 1,3-Dichloropropane	9.226	76	82281	24.90	ug	# 69
53) 1,2-Dibromoethane	9.608	107	88062	49.40	ug	94
54) Dibromochloromethane	9.488	129	105058	47.17	ug	94
55) Bromoform	10.909	173	70335	45.45	ug	96
56) 4-Methyl-2-Pentanone	8.282	43	109264	41.46	ug	88
58) Toluene	8.497	92	243818	48.85	ug	98
60) Tetrachloroethene	9.205	164	94414	56.22	ug	98
61) 2-Hexanone	9.357	43	75403	42.59	ug	85
63) Chlorobenzene	10.143	112	268440	53.13	ug	99

Data Path : C:\msdchem\1\DATA\083017\
 Data File : d7354.D
 Acq On : 30 Aug 2017 21:16
 Operator :
 Sample : 170821039-001ams
 Misc : ms e8260w
 ALS Vial : 21 Sample Multiplier: 1

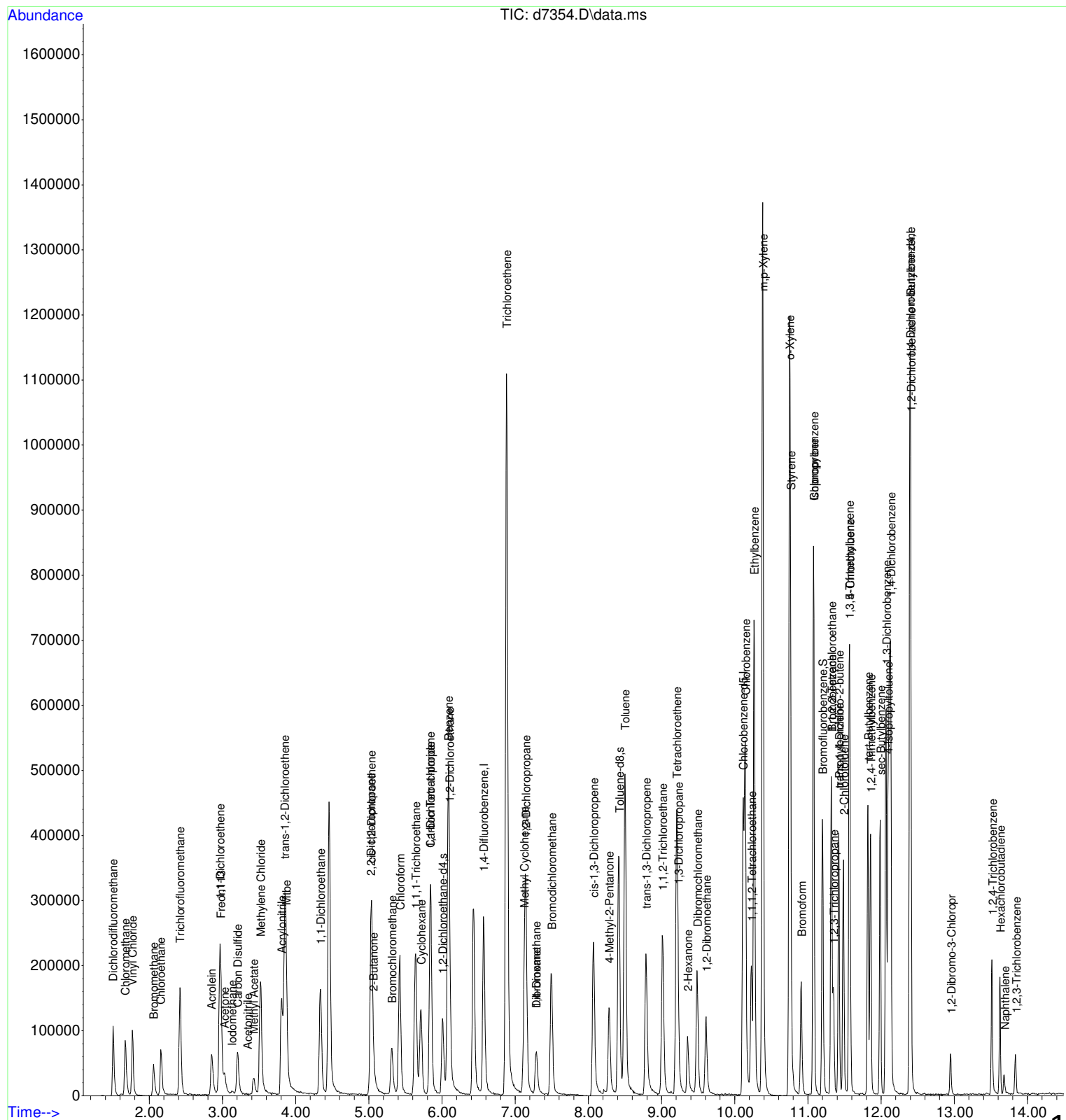
Quant Time: Aug 31 09:53:49 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,1,1,2-Tetrachloroethane	10.227	133	49966	25.65	ug	94
65) Ethylbenzene	10.264	106	146309	53.15	ug	99
66) m,p-Xylene	10.384	91	742377	102.64	ug	96
67) o-Xylene	10.746	106	183138	52.81	ug	90
68) Styrene	10.762	104	298280	54.20	ug	83
69) Isopropylbenzene	11.076	105	452309	49.76	ug	96
70) Chloroprene	11.076	53	5754	16.78	ug	# 1
71) trans-1,4-Dichloro-2-b...	11.422	88	375	1.48	ug	# 1
72) Bromobenzene	11.318	77	101164	24.23	ug	# 72
73) 1,2,3-Trichloropropane	11.349	75	55387	19.93	ug	# 86
74) 2-Chlorotoluene	11.485	91	161119	26.08	ug	99
75) 4-Chlorotoluene	11.569	91	175727	25.63	ug	100
76) 1,3,5-Trimethylbenzene	11.564	105	198549	26.55	ug	98
77) tert-Butylbenzene	11.821	119	169097	26.04	ug	99
78) 1,2,4-Trimethylbenzene	11.852	105	182726	24.69	ug	97
80) 1,1,2,2-Tetrachloroethane	11.318	83	101262	45.83	ug	95
81) n-Propylbenzene	11.422	91	249676	25.16	ug	98
82) 1,3-Dichlorobenzene	12.067	146	188147	51.85	ug	95
83) sec-Butylbenzene	11.989	105	217234	25.31	ug	99
84) 4-Isopropyltoluene	12.094	119	180053	24.12	ug	# 94
85) 1,4-Dichlorobenzene	12.130	146	183997m	51.71	ug	
86) 1,2-Dichlorobenzene	12.403	146	173424	49.39	ug	96
87) n-Butylbenzene	12.398	91	141569	25.12	ug	92
88) 1,2-Dibromo-3-Chloropr	12.953	157	11999	35.27	ug	# 73
89) 1,2,4-Trichlorobenzene	13.514	180	51556	39.17	ug	98
90) Hexachlorobutadiene	13.625	225	26809	24.44	ug	# 94
91) Naphthalene	13.682	128	20444	10.61	ug	98
92) 1,2,3-Trichlorobenzene	13.839	180	13689	17.17	ug	100

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

Data Path : C:\msdchem\1\DATA\083017\
Data File : d7354.D
Acq On : 30 Aug 2017 21:16
Operator :
Sample : 170821039-001ams
Misc : ms e8260w
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 31 09:53:49 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Wed Aug 30 10:32:28 2017
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\083017\
 Data File : d7355.D
 Acq On : 30 Aug 2017 21:37
 Operator :
 Sample : 170821039-001amsd
 Misc : msd e8260w
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 31 09:54:25 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.578	114	245665	50.00	ug	0.01
34) Chlorobenzene-d5	10.117	117	243550	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	120305	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.012	65	104174	52.95	ug	0.01
57) Toluene-d8	8.418	98	326989	47.62	ug	0.00
79) Bromofluorobenzene	11.197	95	130034	51.36	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.524	85	100179	70.53	ug	100
3) Chloromethane	1.690	50	121393	48.56	ug	99
4) Vinyl Chloride	1.787	62	106935	61.55	ug	96
5) Bromomethane	2.079	94	40196	56.62	ug	96
6) Chloroethane	2.176	64	52630	50.04	ug	97
7) Acrolein	2.871	56	70689	263.29	ug	98
8) Trichlorofluoromethane	2.436	101	140580	58.49	ug	98
9) Freon113	2.997	101	36705	32.84	ug	91
10) 1,1-Dichloroethene	2.981	96	84796	61.24	ug	# 84
12) Carbon Disulfide	3.228	76	124107	31.62	ug	100
13) Acetone	3.049	43	50750m	48.18	ug	
14) Iodomethane	3.149	142	6045	4.74	ug	# 82
15) Acetonitrile	3.317	40	1519	6.79	ug	# 1
16) Methyl Acetate	3.443	43	48359	31.28	ug	# 90
17) Methylene Chloride	3.537	84	97618	55.13	ug	# 61
18) Acrylonitrile	3.825	53	180043	209.77	ug	99
19) trans-1,2-Dichloroethene	3.867	96	92280	59.00	ug	# 85
20) Mtbe	3.883	73	173580	29.09	ug	98
21) 1,1-Dichloroethane	4.350	63	194180	61.51	ug	90
23) cis-1,2-Dichloroethene	5.042	61	160320	56.83	ug	87
24) 2,2-Dichloropropane	5.047	77	75615	32.22	ug	# 76
26) Bromochloromethane	5.325	128	25585	27.14	ug	# 60
28) Chloroform	5.430	83	197454	60.28	ug	98
29) Cyclohexane	5.723	84	56707	27.29	ug	# 78
30) 1,1-Dichloro-1-propene	5.854	75	63342	27.50	ug	# 76
31) 1,2-Dichloroethane	6.106	62	168928	55.23	ug	97
32) 2-Butanone	5.078	43	56043	48.73	ug	98
35) 1,1,1-Trichloroethane	5.650	97	183580	50.06	ug	99
36) Carbon Tetrachloride	5.849	117	149457	47.44	ug	99
37) Benzene	6.090	78	370202	45.94	ug	100
40) Trichloroethene	6.887	130	422130	199.62	ug	97
41) Methyl Cyclohexane	7.139	83	59878	21.61	ug	# 88
42) 1,2-Dichloropropane	7.155	63	99007	46.50	ug	87
44) Dibromomethane	7.296	174	37917	24.41	ug	# 75
47) Bromodichloromethane	7.501	83	163393	52.42	ug	89
49) cis-1,3-Dichloropropene	8.077	75	171686	53.01	ug	96
50) trans-1,3-Dichloropropene	8.790	75	165095	53.38	ug	97
51) 1,1,2-Trichloroethane	9.021	97	100799	51.67	ug	93
52) 1,3-Dichloropropane	9.226	76	96079	26.71	ug	# 70
53) 1,2-Dibromoethane	9.608	107	98606	50.80	ug	92
54) Dibromochloromethane	9.488	129	125989	51.95	ug	95
55) Bromoform	10.909	173	86850	51.54	ug	99
56) 4-Methyl-2-Pentanone	8.287	43	131858	45.96	ug	92
58) Toluene	8.502	92	276882	50.95	ug	97
60) Tetrachloroethene	9.205	164	105185	57.52	ug	97
61) 2-Hexanone	9.357	43	85267	44.23	ug	89
63) Chlorobenzene	10.143	112	302913	57.06	ug	99
64) 1,1,1,2-Tetrachloroethane	10.232	133	56124	27.42	ug	96

Data Path : C:\msdchem\1\DATA\083017\
 Data File : d7355.D
 Acq On : 30 Aug 2017 21:37
 Operator :
 Sample : 170821039-001amsd
 Misc : msd e8260w
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 31 09:54:25 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Ethylbenzene	10.264	106	165411	57.18	ug	97
66) m,p-Xylene	10.384	91	848216	111.60	ug	94
67) o-Xylene	10.746	106	207178	56.86	ug	91
68) Styrene	10.762	104	339130	58.64	ug	82
69) Isopropylbenzene	11.076	105	525646	55.04	ug	98
70) Chloroprene	11.082	53	6577	18.26	ug	# 1
71) trans-1,4-Dichloro-2-b...	11.422	88	464	1.75	ug	# 1
72) Bromobenzene	11.318	77	116764	26.62	ug	# 76
73) 1,2,3-Trichloropropane	11.349	75	63770	21.83	ug	87
74) 2-Chlorotoluene	11.485	91	180067	27.74	ug	97
75) 4-Chlorotoluene	11.569	91	205682	28.55	ug	100
76) 1,3,5-Trimethylbenzene	11.564	105	225405	28.68	ug	97
77) tert-Butylbenzene	11.821	119	185004	27.11	ug	97
78) 1,2,4-Trimethylbenzene	11.858	105	212213	27.29	ug	97
80) 1,1,2,2-Tetrachloroethane	11.318	83	122692	52.85	ug	95
81) n-Propylbenzene	11.422	91	286608	27.49	ug	98
82) 1,3-Dichlorobenzene	12.067	146	214269	56.20	ug	93
83) sec-Butylbenzene	11.989	105	244759	27.14	ug	100
84) 4-Isopropyltoluene	12.099	119	204170	26.03	ug	94
85) 1,4-Dichlorobenzene	12.135	146	215305	57.58	ug	# 86
86) 1,2-Dichlorobenzene	12.403	146	207885	56.34	ug	96
87) n-Butylbenzene	12.398	91	164534	27.78	ug	92
88) 1,2-Dibromo-3-Chloropr	12.953	157	19358	54.15	ug	# 85
89) 1,2,4-Trichlorobenzene	13.514	180	75245	54.41	ug	96
90) Hexachlorobutadiene	13.624	225	31460	27.29	ug	# 94
91) Naphthalene	13.682	128	43192	21.33	ug	97
92) 1,2,3-Trichlorobenzene	13.834	180	24085	28.75	ug	98

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

Data Path : C:\msdchem\1\DATA\083017\
 Data File : d7356.D
 Acq On : 30 Aug 2017 21:58
 Operator :
 Sample : lcs
 Misc : lcs e8260w
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 31 09:56:58 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.562	114	206429	50.00	ug	0.00
34) Chlorobenzene-d5	10.112	117	185857	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.115	152	100558	50.00	ug	-0.28

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.996	65	80644	48.78	ug	0.00
57) Toluene-d8	8.408	98	216030m	41.23	ug	0.00
79) Bromofluorobenzene	11.197	95	96962	45.82	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.486	85	85585	71.70	ug	100
3) Chloromethane	1.661	50	106068	50.49	ug	99
4) Vinyl Chloride	1.748	62	81476	55.81	ug	97
5) Bromomethane	2.030	94	18230	30.56	ug	98
6) Chloroethane	2.137	64	46400	52.50	ug	98
7) Acrolein	2.824	56	48475	214.87	ug	96
8) Trichlorofluoromethane	2.394	101	116188	57.53	ug	99
9) Freon113	2.950	101	28730	30.59	ug	95
10) 1,1-Dichloroethene	2.934	96	62179	53.44	ug	# 76
12) Carbon Disulfide	3.181	76	90852	27.55	ug	100
13) Acetone	3.002	43	36224	40.93	ug	89
14) Iodomethane	3.102	142	1475	1.38	ug	# 50
15) Acetonitrile	3.327	40	1476	7.85	ug	# 1
16) Methyl Acetate	3.401	43	28719	22.10	ug	91
17) Methylene Chloride	3.495	84	74423	50.02	ug	# 63
18) Acrylonitrile	3.783	53	133609	185.26	ug	99
19) trans-1,2-Dichloroethene	3.825	96	71651	54.52	ug	93
20) Mtbe	3.846	73	128301	25.58	ug	97
21) 1,1-Dichloroethane	4.318	63	144330	54.41	ug	88
23) cis-1,2-Dichloroethene	5.021	61	119579	50.44	ug	91
24) 2,2-Dichloropropane	5.016	77	56845	28.82	ug	# 73
26) Bromochloromethane	5.304	128	20682	26.11	ug	# 76
28) Chloroform	5.409	83	144792	52.61	ug	98
29) Cyclohexane	5.697	84	47342	27.11	ug	# 80
30) 1,1-Dichloro-1-propene	5.828	75	52954	27.36	ug	83
31) 1,2-Dichloroethane	6.090	62	130696	50.85	ug	100
32) 2-Butanone	5.052	43	43920	45.45	ug	93
35) 1,1,1-Trichloroethane	5.624	97	142146	50.79	ug	97
36) Carbon Tetrachloride	5.823	117	120777	50.23	ug	96
37) Benzene	6.075	78	296919	48.28	ug	100
40) Trichloroethene	6.877	130	85715	53.11	ug	95
41) Methyl Cyclohexane	7.118	83	48991	23.17	ug	# 88
42) 1,2-Dichloropropane	7.134	63	76738	47.23	ug	88
44) Dibromomethane	7.286	174	27131	22.89	ug	# 76
45) 1,4-Dioxane	7.286	88	59	2.75	ug	# 22
47) Bromodichloromethane	7.485	83	111164	46.74	ug	91
49) cis-1,3-Dichloropropene	8.062	75	106945	43.27	ug	99
50) trans-1,3-Dichloropropene	8.780	75	115096	48.76	ug	97
51) 1,1,2-Trichloroethane	9.011	97	74713	50.19	ug	91
52) 1,3-Dichloropropane	9.220	76	66573	24.25	ug	# 70
53) 1,2-Dibromoethane	9.603	107	73473	49.60	ug	95
54) Dibromochloromethane	9.483	129	89418	48.32	ug	91
55) Bromoform	10.909	173	60821	47.30	ug	100
56) 4-Methyl-2-Pentanone	8.277	43	89016	40.65	ug	88
58) Toluene	8.492	92	180673	43.57	ug	97
60) Tetrachloroethene	9.200	164	70300	50.38	ug	97
61) 2-Hexanone	9.352	43	66381	45.12	ug	82
63) Chlorobenzene	10.138	112	226464	51.03	ug	100

Data Path : C:\msdchem\1\DATA\083017\
 Data File : d7356.D
 Acq On : 30 Aug 2017 21:58
 Operator :
 Sample : lcs
 Misc : lcs e8260w
 ALS Vial : 23 Sample Multiplier: 1

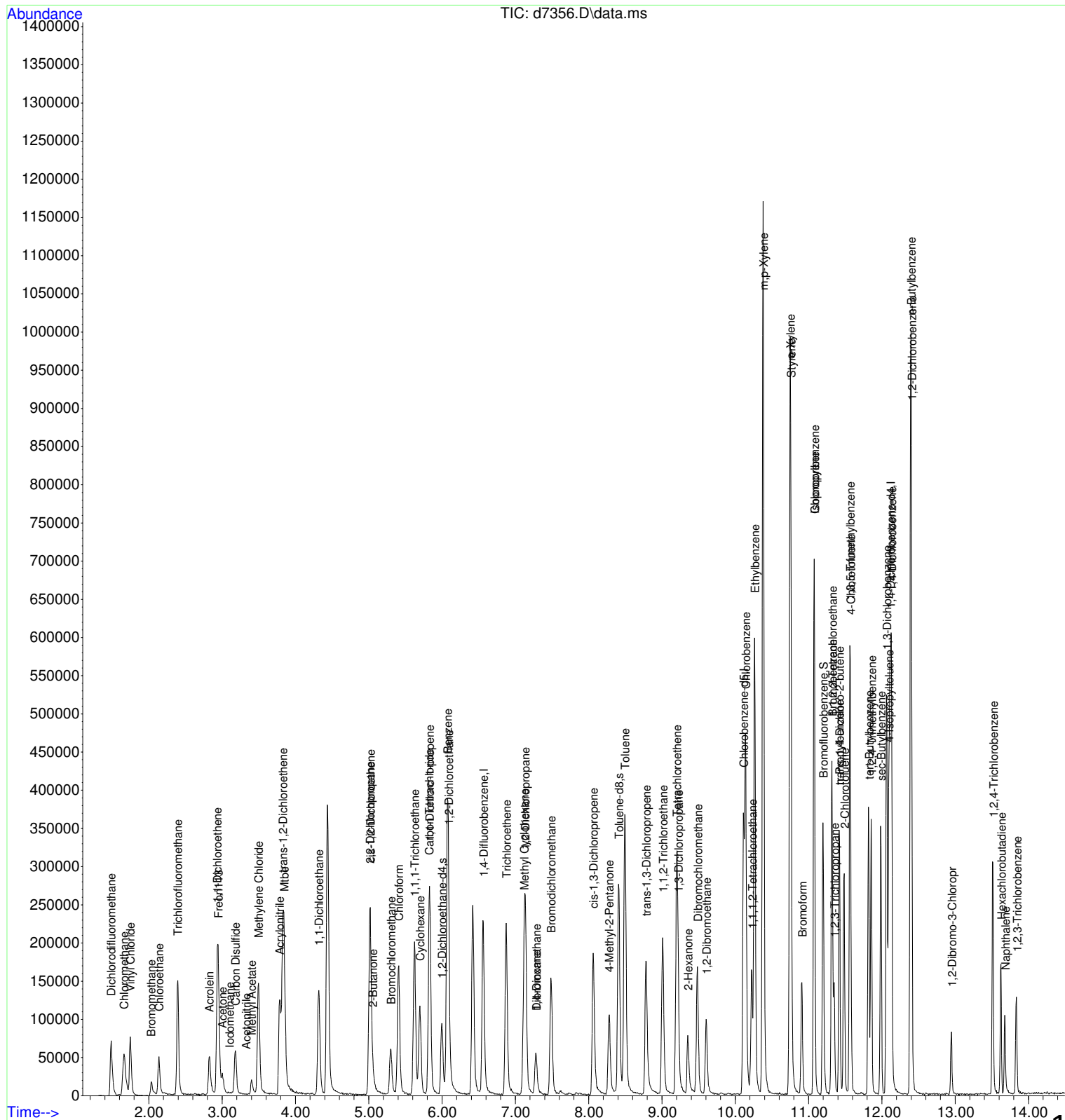
Quant Time: Aug 31 09:56:58 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,1,1,2-Tetrachloroethane	10.227	133	38379	22.44	ug	94
65) Ethylbenzene	10.264	106	123852	51.23	ug	99
66) m,p-Xylene	10.379	91	633986	99.80	ug	93
67) o-Xylene	10.746	106	150759	49.50	ug	89
68) Styrene	10.757	104	251326	52.00	ug	82
69) Isopropylbenzene	11.077	105	378068	47.36	ug	97
70) Chloroprene	11.077	53	4871	16.18	ug	# 1
71) trans-1,4-Dichloro-2-b...	11.417	88	147	0.66	ug	# 1
72) Bromobenzene	11.318	77	89600	24.43	ug	# 71
73) 1,2,3-Trichloropropane	11.349	75	47957	19.64	ug	# 84
74) 2-Chlorotoluene	11.486	91	136648	25.19	ug	100
75) 4-Chlorotoluene	11.569	91	154925	25.72	ug	98
76) 1,3,5-Trimethylbenzene	11.564	105	167635	25.52	ug	97
77) tert-Butylbenzene	11.821	119	140154	24.58	ug	100
78) 1,2,4-Trimethylbenzene	11.853	105	161245	24.81	ug	96
80) 1,1,2,2-Tetrachloroethane	11.318	83	88350	45.53	ug	94
81) n-Propylbenzene	11.417	91	213985	24.55	ug	100
82) 1,3-Dichlorobenzene	12.062	146	169638	53.23	ug	93
83) sec-Butylbenzene	11.984	105	185487	24.60	ug	100
84) 4-Isopropyltoluene	12.094	119	155345	23.70	ug	96
85) 1,4-Dichlorobenzene	12.130	146	168810	54.01	ug	# 86
86) 1,2-Dichlorobenzene	12.403	146	163708	53.08	ug	97
87) n-Butylbenzene	12.393	91	132003	26.67	ug	91
88) 1,2-Dibromo-3-Chloropr	12.948	157	15904	53.23	ug	# 61
89) 1,2,4-Trichlorobenzene	13.515	180	75425	65.25	ug	97
90) Hexachlorobutadiene	13.625	225	25323	26.28	ug	# 94
91) Naphthalene	13.677	128	65782	38.87	ug	96
92) 1,2,3-Trichlorobenzene	13.834	180	29563	42.22	ug	98

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

Data Path : C:\msdchem\1\DATA\083017\
 Data File : d7356.D
 Acq On : 30 Aug 2017 21:58
 Operator :
 Sample : lcs
 Misc : lcs e8260w
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 31 09:56:58 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

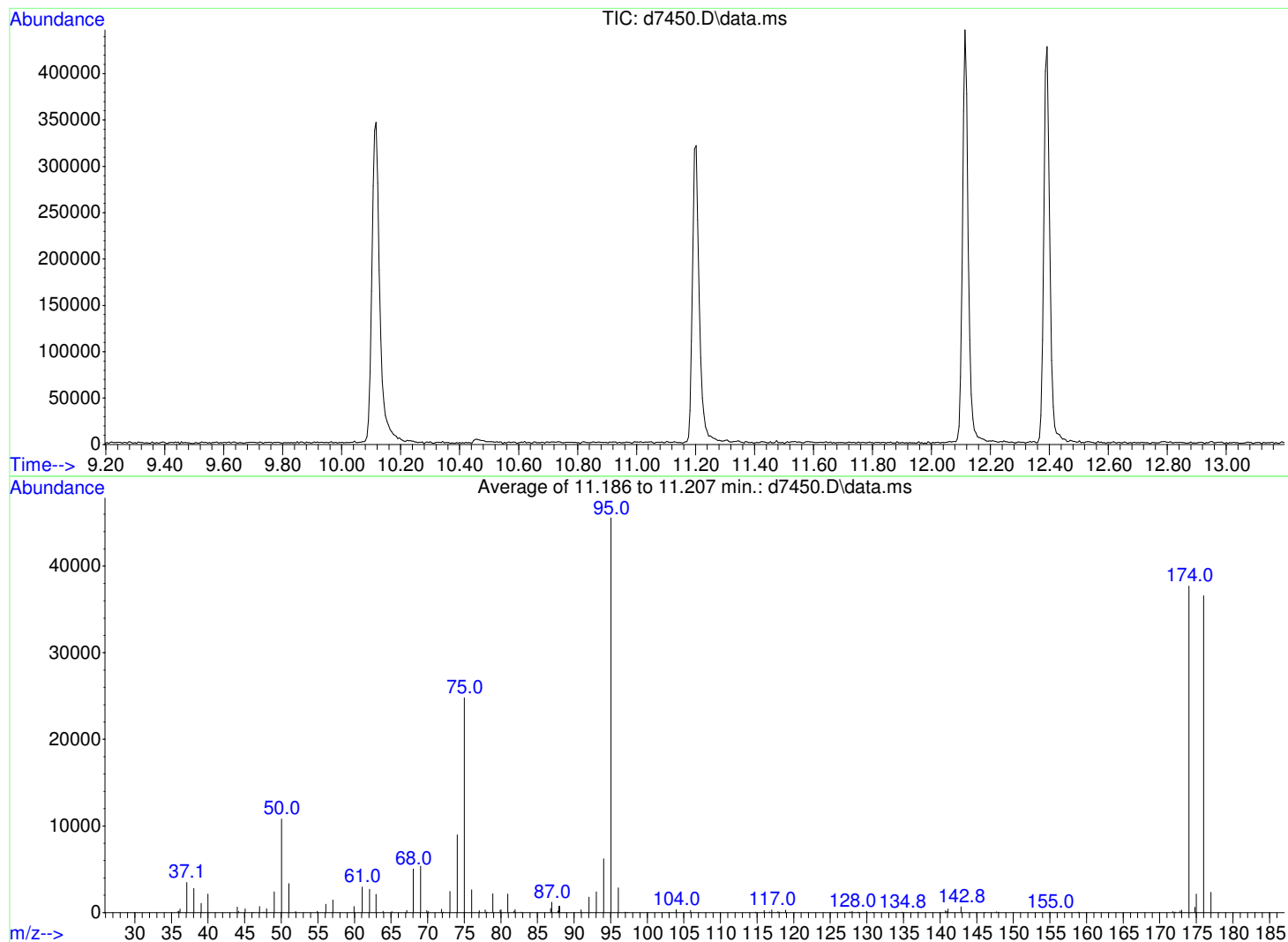


-135-

Data Path : C:\msdchem\1\DATA\090117\
 Data File : d7450.D
 Acq On : 1 Sep 2017 9:24
 Operator :
 Sample : bfb
 Misc : tune bfb
 ALS Vial : 50 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Title : Voa Calibration 8260 Water
 Last Update : Wed Aug 30 10:32:28 2017



Spectrum Information: Average of 11.186 to 11.207 min.

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	23.7	10801	PASS
75	95	30	60	54.4	24795	PASS
95	95	100	100	100.0	45600	PASS
96	95	5	9	6.2	2849	PASS
173	174	0.00	2	0.7	274	PASS
174	95	50	100	82.7	37704	PASS
175	174	5	9	5.7	2147	PASS
176	174	95	101	97.0	36585	PASS
177	176	5	9	6.4	2329	PASS

Data Path : C:\msdchem\1\DATA\090117\
 Data File : d7451.D
 Acq On : 1 Sep 2017 9:46
 Operator :
 Sample : vstd050
 Misc : ccv e8260w
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 01 10:06:02 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.567	114	286976	50.00	ug	0.00
34) Chlorobenzene-d5	10.112	117	247320	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.393	152	116657	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.007	65	111946	48.71	ug	0.00
57) Toluene-d8	8.413	98	328853	47.16	ug	0.00
79) Bromofluorobenzene	11.197	95	119858	48.82	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.505	85	61620m	37.14	ug	
3) Chloromethane	1.670	50	114234m	39.12	ug	
4) Vinyl Chloride	1.768	62	102863	50.69	ug	98
5) Bromomethane	2.059	94	32205m	38.84	ug	
6) Chloroethane	2.157	64	55366	45.06	ug	95
7) Acrolein	2.850	56	54890	175.01	ug	95
8) Trichlorofluoromethane	2.426	101	135372	48.21	ug	99
9) Freon113	2.976	101	56515	43.29	ug	94
10) 1,1-Dichloroethene	2.966	96	86298	53.35	ug	# 76
11) Allyl Chloride	3.380	41	338948m	51.54	ug	
12) Carbon Disulfide	3.207	76	242842	52.97	ug	100
13) Acetone	3.023	43	52477	42.65	ug	93
14) Iodomethane	3.128	142	79675	53.52	ug	# 80
15) Acetonitrile	3.343	40	112272	429.65	ug	# 1
16) Methyl Acetate	3.422	43	74247m	41.11	ug	
17) Methylene Chloride	3.521	84	105819	51.16	ug	# 67
18) Acrylonitrile	3.804	53	196054	195.55	ug	95
19) trans-1,2-Dichloroethene	3.852	96	98697	54.02	ug	90
20) Mtbe	3.867	73	722916	103.70	ug	97
21) 1,1-Dichloroethane	4.339	63	197142	53.46	ug	87
22) Hexane	4.192	43	28019	30.88	ug	96
23) cis-1,2-Dichloroethene	5.037	61	167893	50.95	ug	94
24) 2,2-Dichloropropane	5.031	77	107367	39.16	ug	# 75
25) Propionitrile	5.115	54	178642	496.29	ug	95
26) Bromochloromethane	5.314	128	58519	53.14	ug	# 51
27) Methacrylonitrile	5.304	67	532012	513.86	ug	80
28) Chloroform	5.419	83	203861	53.28	ug	97
29) Cyclohexane	5.708	84	115721	47.68	ug	# 81
30) 1,1-Dichloro-1-propene	5.839	75	146604	54.49	ug	85
31) 1,2-Dichloroethane	6.101	62	185070	51.80	ug	99
32) 2-Butanone	5.058	43	63895	47.56	ug	100
35) 1,1,1-Trichloroethane	5.639	97	187281	50.29	ug	99
36) Carbon Tetrachloride	5.839	117	165671	51.78	ug	95
37) Benzene	6.085	78	448468	54.81	ug	100
38) Isobutanol	6.022	43	114778	1005.90	ug	# 77
39) Heptane	6.457	43	60989	32.62	ug	# 91
40) Trichloroethene	6.882	130	118274	55.08	ug	98
41) Methyl Cyclohexane	7.123	83	112053m	39.83	ug	
42) 1,2-Dichloropropane	7.144	63	106526	49.27	ug	
43) Vinyl Acetate	4.428	43	115506	33.06	ug	# 100
44) Dibromomethane	7.291	174	75884	48.11	ug	# 77
45) 1,4-Dioxane	7.333	88	28287	992.34	ug	# 81
46) Methyl Methacrylate	7.333	69	94675	49.27	ug	# 67
47) Bromodichloromethane	7.496	83	161438	51.01	ug	89
49) cis-1,3-Dichloropropene	8.067	75	168403	51.20	ug	97
50) trans-1,3-Dichloropropene	8.785	75	152496	48.55	ug	98
51) 1,1,2-Trichloroethane	9.011	97	103968	52.49	ug	88
52) 1,3-Dichloropropane	9.220	76	184844	50.60	ug	# 67

Data Path : C:\msdchem\1\DATA\090117\
 Data File : d7451.D
 Acq On : 1 Sep 2017 9:46
 Operator :
 Sample : vstd050
 Misc : ccv e8260w
 ALS Vial : 1 Sample Multiplier: 1

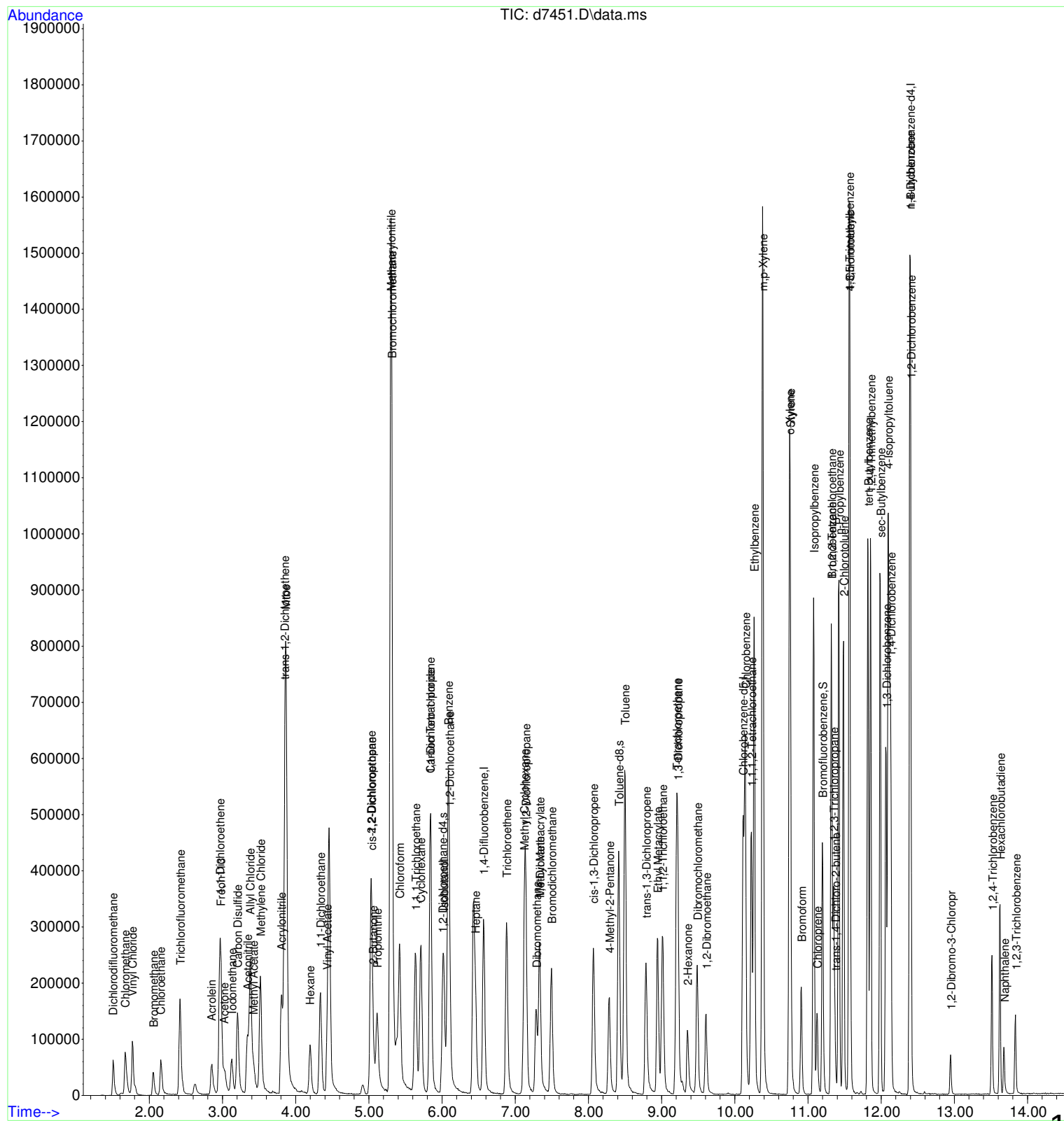
Quant Time: Sep 01 10:06:02 2017
 Quant Method : C:\msdchem\1\qtmetho\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) 1,2-Dibromoethane	9.608	107	104775	53.16	ug	94
54) Dibromochloromethane	9.488	129	132071	53.63	ug	95
55) Bromoform	10.909	173	75410	44.07	ug	100
56) 4-Methyl-2-Pentanone	8.287	43	141106	48.43	ug	89
58) Toluene	8.497	92	287666	52.13	ug	98
59) Ethyl Metacrylate	8.943	69	160676	50.66	ug	98
60) Tetrachloroethene	9.205	164	95467	51.41	ug	100
61) 2-Hexanone	9.352	43	93601	47.81	ug	87
63) Chlorobenzene	10.143	112	308772m	59.98	ug	
64) 1,1,1,2-Tetrachloroethane	10.227	133	116516	58.71	ug	93
65) Ethylbenzene	10.264	106	165695m	59.07	ug	
66) m,p-Xylene	10.379	91	853320	115.79	ug	95
67) o-Xylene	10.746	106	179401	50.78	ug	89
68) Styrene	10.757	104	290540	51.81	ug	81
69) Isopropylbenzene	11.077	105	480159	51.85	ug	96
70) Chloroprene	11.124	53	30617	87.65	ug	84
71) trans-1,4-Dichloro-2-b...	11.370	88	11068	43.00	ug	# 1
72) Bromobenzene	11.318	77	231328	54.38	ug	# 71
73) 1,2,3-Trichloropropane	11.349	75	142007	50.14	ug	# 78
74) 2-Chlorotoluene	11.485	91	358107	56.90	ug	97
75) 4-Chlorotoluene	11.569	91	403646	57.77	ug	99
76) 1,3,5-Trimethylbenzene	11.564	105	453816	59.56	ug	98
77) tert-Butylbenzene	11.821	119	386047	58.35	ug	100
78) 1,2,4-Trimethylbenzene	11.852	105	438499	58.15	ug	98
80) 1,1,2,2-Tetrachloroethane	11.318	83	116475	51.74	ug	96
81) n-Propylbenzene	11.423	91	583354	57.70	ug	99
82) 1,3-Dichlorobenzene	12.067	146	200300	54.17	ug	92
83) sec-Butylbenzene	11.989	105	507007	57.97	ug	99
84) 4-Isopropyltoluene	12.094	119	428853	56.39	ug	95
85) 1,4-Dichlorobenzene	12.130	146	197086	54.36	ug	# 86
86) 1,2-Dichlorobenzene	12.403	146	189182	52.88	ug	98
87) n-Butylbenzene	12.393	91	299220	52.10	ug	93
88) 1,2-Dibromo-3-Chloropr	12.948	157	14563	42.01	ug	# 76
89) 1,2,4-Trichlorobenzene	13.515	180	62064	46.28	ug	100
90) Hexachlorobutadiene	13.625	225	52923	47.35	ug	# 93
91) Naphthalene	13.677	128	54385	27.70	ug	98
92) 1,2,3-Trichlorobenzene	13.834	180	34411	42.37	ug	99

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

Data Path : C:\msdchem\1\DATA\090117\
 Data File : d7451.D
 Acq On : 1 Sep 2017 9:46
 Operator :
 Sample : vstd050
 Misc : ccv e8260w
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 01 10:06:02 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\090117\
 Data File : d7455.D
 Acq On : 1 Sep 2017 11:11
 Operator :
 Sample : vblk
 Misc : mblk e8260w
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 11:27:01 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.573	114	260605	50.00	ug	0.00
34) Chlorobenzene-d5	10.117	117	223983	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	92407	50.00	ug	0.00

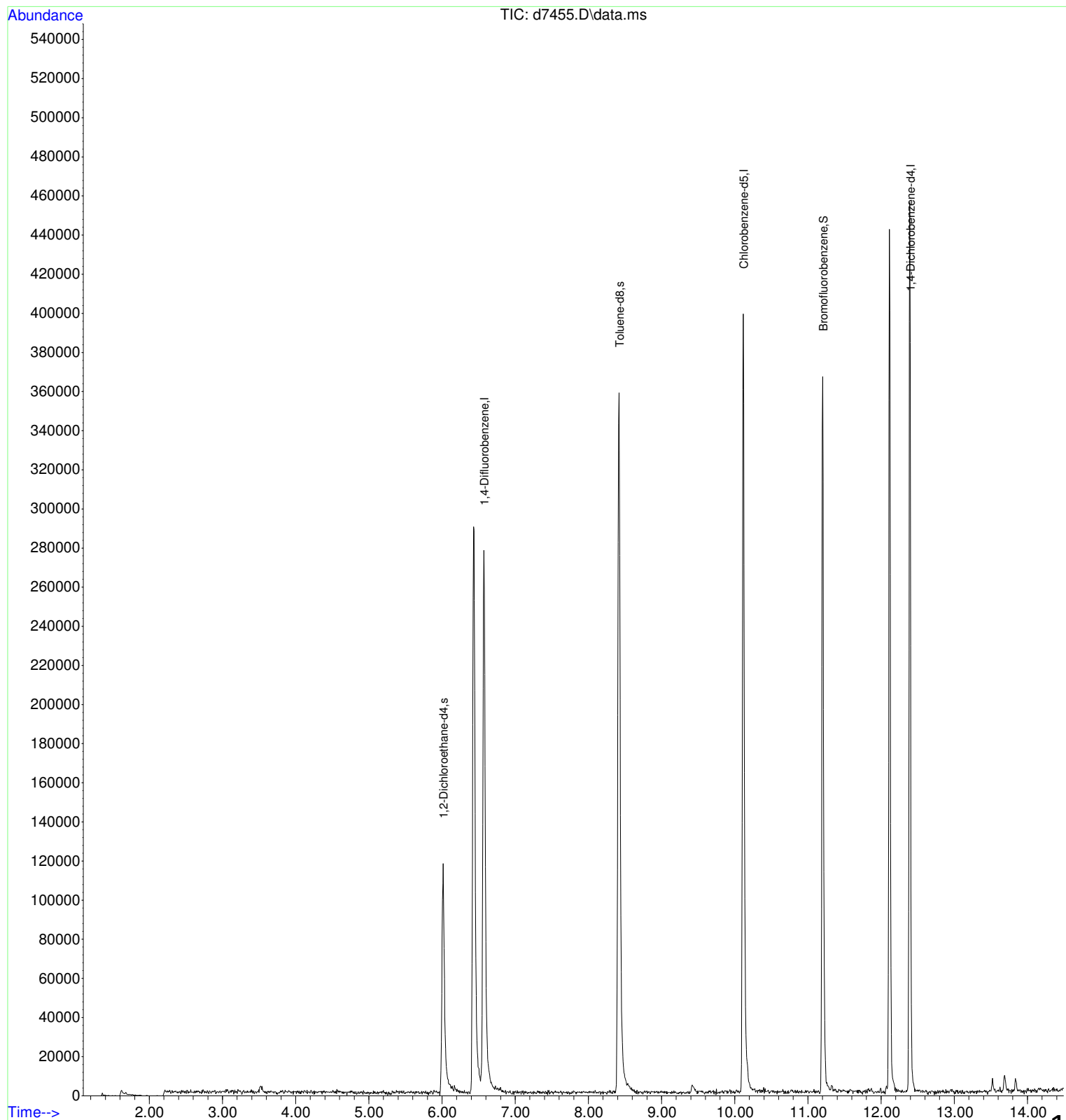
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.017	65	107543	51.53	ug	0.02
57) Toluene-d8	8.418	98	303230	48.02	ug	0.00
79) Bromofluorobenzene	11.202	95	108848	55.97	ug	0.00

Target Compounds	Qvalue

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

Data Path : C:\msdchem\1\DATA\090117\
Data File : d7455.D
Acq On : 1 Sep 2017 11:11
Operator :
Sample : vblk
Misc : mblk e8260w
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 11:27:01 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Wed Aug 30 10:32:28 2017
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\090117\
 Data File : d7456.D
 Acq On : 1 Sep 2017 11:32
 Operator :
 Sample : 170821039-003a
 Misc : samp e8260w
 ALS Vial : 3 Sample Multiplier: 1

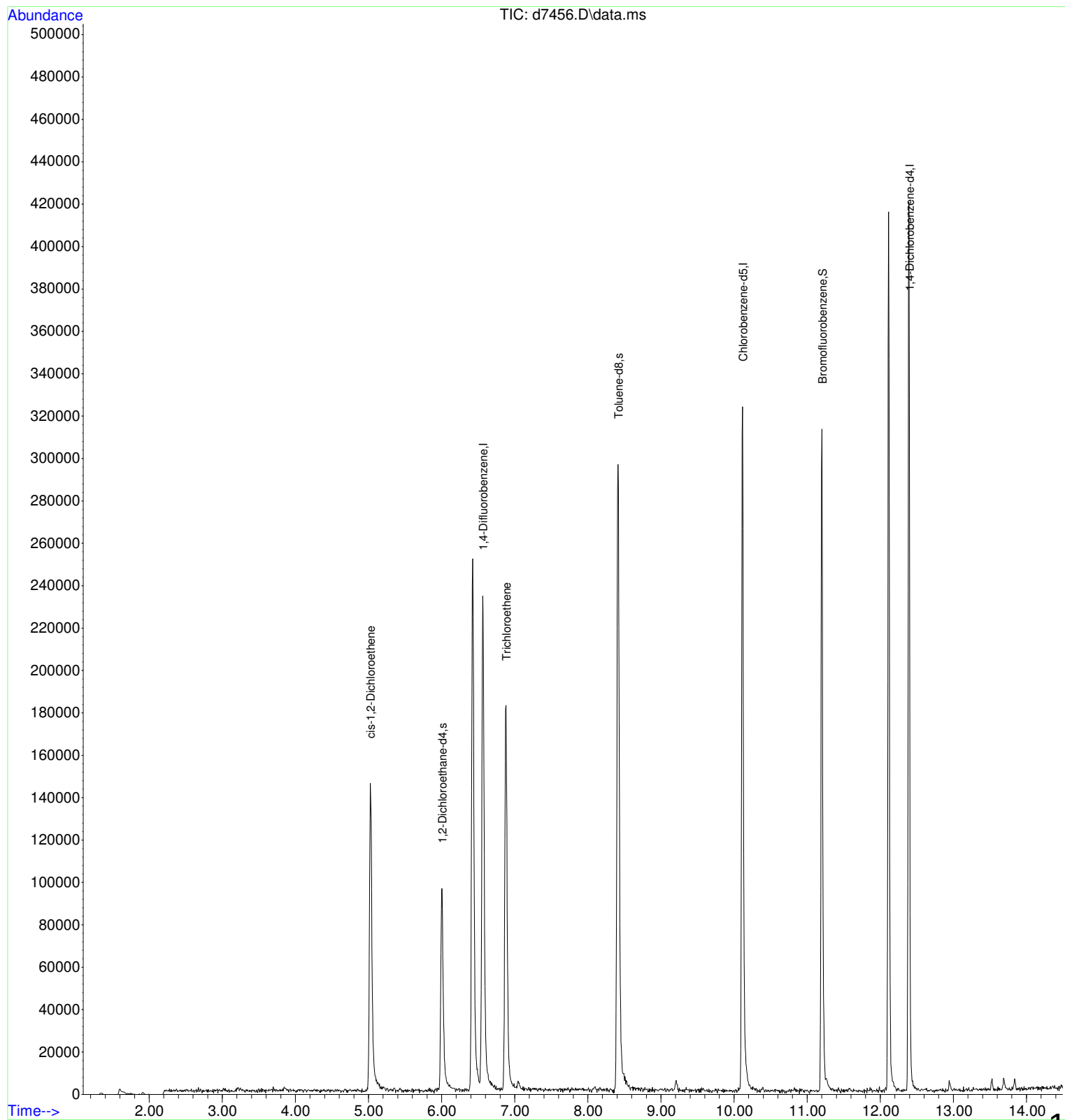
Quant Time: Sep 01 11:51:19 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

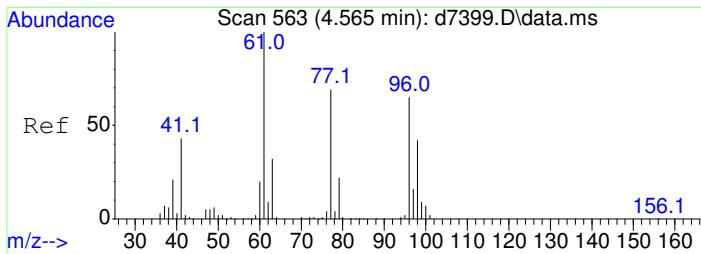
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.562	114	213187	50.00	ug	0.00
34) Chlorobenzene-d5	10.117	117	184008	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	88889	50.00	ug	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.006	65	88124	51.62	ug	0.00
57) Toluene-d8	8.413	98	249253	48.05	ug	0.00
79) Bromofluorobenzene	11.202	95	91925	49.14	ug	0.00
Target Compounds						Qvalue
23) cis-1,2-Dichloroethene	5.026	61	103919	42.45	ug	94
40) Trichloroethene	6.882	130	71524	44.77	ug	95

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

Data Path : C:\msdchem\1\DATA\090117\
Data File : d7456.D
Acq On : 1 Sep 2017 11:32
Operator :
Sample : 170821039-003a
Misc : samp e8260w
ALS Vial : 3 Sample Multiplier: 1

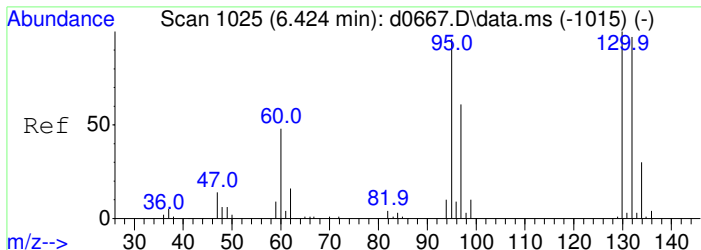
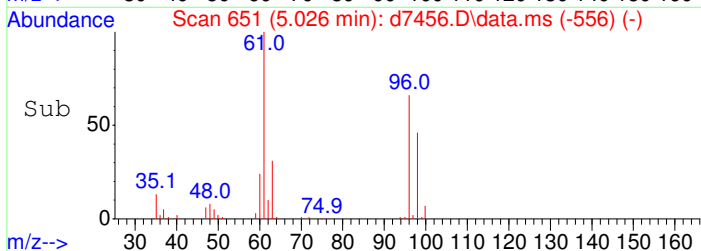
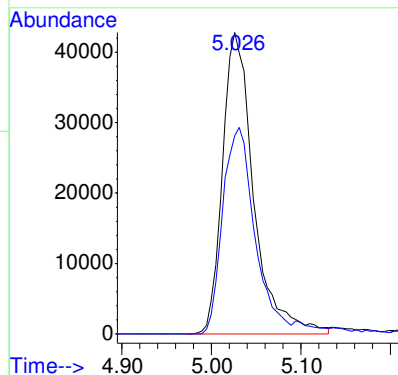
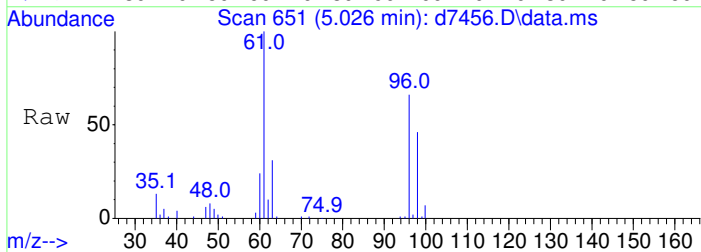
Quant Time: Sep 01 11:51:19 2017
Quant Method : C:\msdchem\1\qtmetho\fixedw8260-082917.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Wed Aug 30 10:32:28 2017
Response via : Initial Calibration





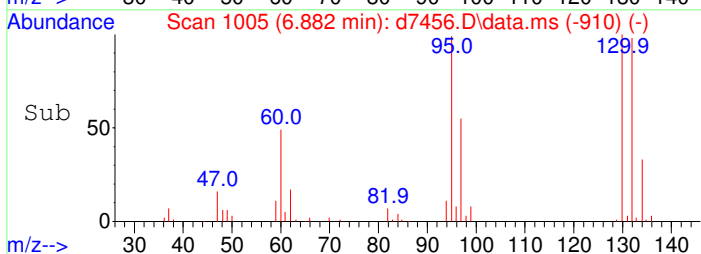
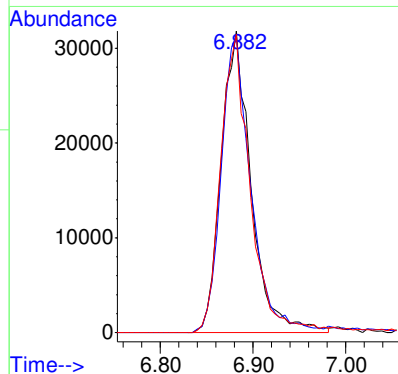
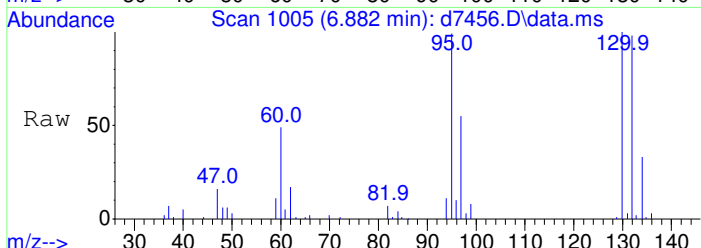
#23
 cis-1,2-Dichloroethene
 Concen: 42.45 ug
 RT: 5.026 min Scan# 651
 Delta R.T. 0.000 min
 Lab File: d7456.D
 Acq: 1 Sep 2017 11:32

Tgt Ion: 61 Resp: 103919
 Ion Ratio Lower Upper
 61 100
 96 69.9 59.7 89.5



#40
 Trichloroethene
 Concen: 44.77 ug
 RT: 6.882 min Scan# 1005
 Delta R.T. 0.000 min
 Lab File: d7456.D
 Acq: 1 Sep 2017 11:32

Tgt Ion: 130 Resp: 71524
 Ion Ratio Lower Upper
 130 100
 132 97.6 72.9 112.9
 95 98.9 74.0 114.0



Data Path : C:\msdchem\1\DATA\090117\
 Data File : d7457.D
 Acq On : 1 Sep 2017 11:56
 Operator :
 Sample : 170821039-007a
 Misc : samp e8260w
 ALS Vial : 4 Sample Multiplier: 1

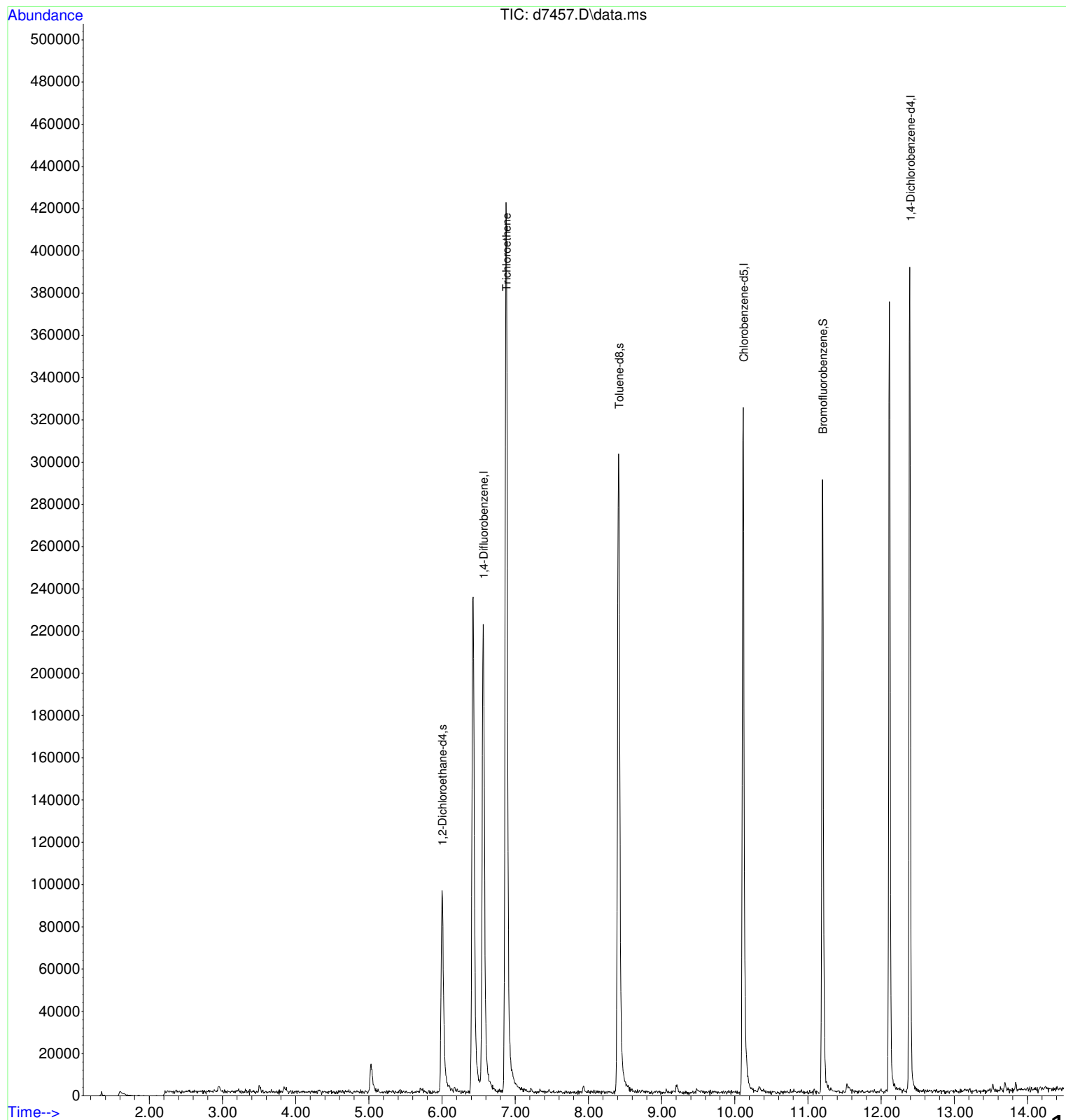
Quant Time: Sep 01 12:24:51 2017
 Quant Method : C:\msdchem\1\qtmethods\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

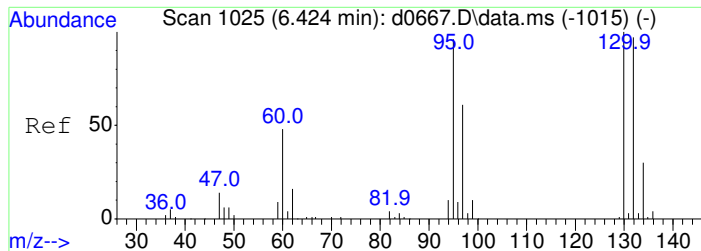
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.562	114	213860	50.00	ug	0.00
34) Chlorobenzene-d5	10.117	117	184357	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	83860	50.00	ug	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.001	65	83873	48.97	ug	0.00
57) Toluene-d8	8.413	98	248724	47.85	ug	0.00
79) Bromofluorobenzene	11.197	95	87115	49.36	ug	0.00
Target Compounds						
40) Trichloroethene	6.877	130	166215	103.84	ug	Qvalue 97

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

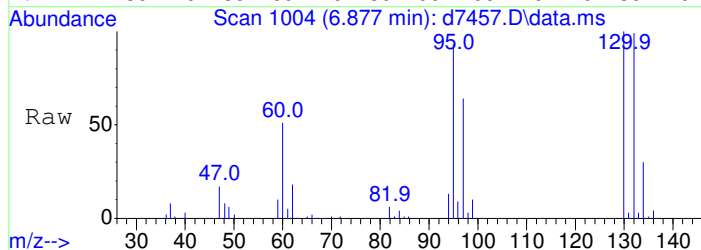
Data Path : C:\msdchem\1\DATA\090117\
Data File : d7457.D
Acq On : 1 Sep 2017 11:56
Operator :
Sample : 170821039-007a
Misc : samp e8260w
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 01 12:24:51 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Wed Aug 30 10:32:28 2017
Response via : Initial Calibration

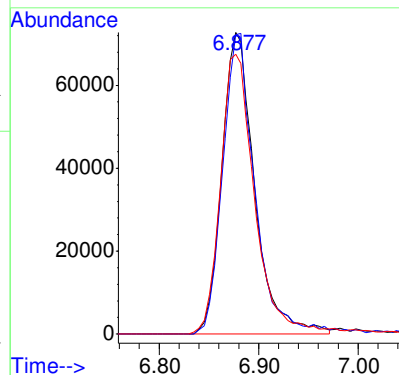
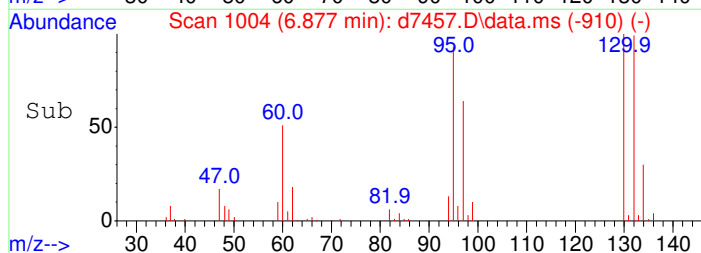




#40
 Trichloroethene
 Concen: 103.84 ug
 RT: 6.877 min Scan# 1004
 Delta R.T. -0.005 min
 Lab File: d7457.D
 Acq: 1 Sep 2017 11:56



Tgt Ion:130 Resp: 166215
 Ion Ratio Lower Upper
 130 100
 132 96.0 72.9 112.9
 95 96.8 74.0 114.0



Data Path : C:\msdchem\1\DATA\090117\
 Data File : d7458.D
 Acq On : 1 Sep 2017 12:20
 Operator :
 Sample : 170821039-010a
 Misc : samp e8260w
 ALS Vial : 5 Sample Multiplier: 1

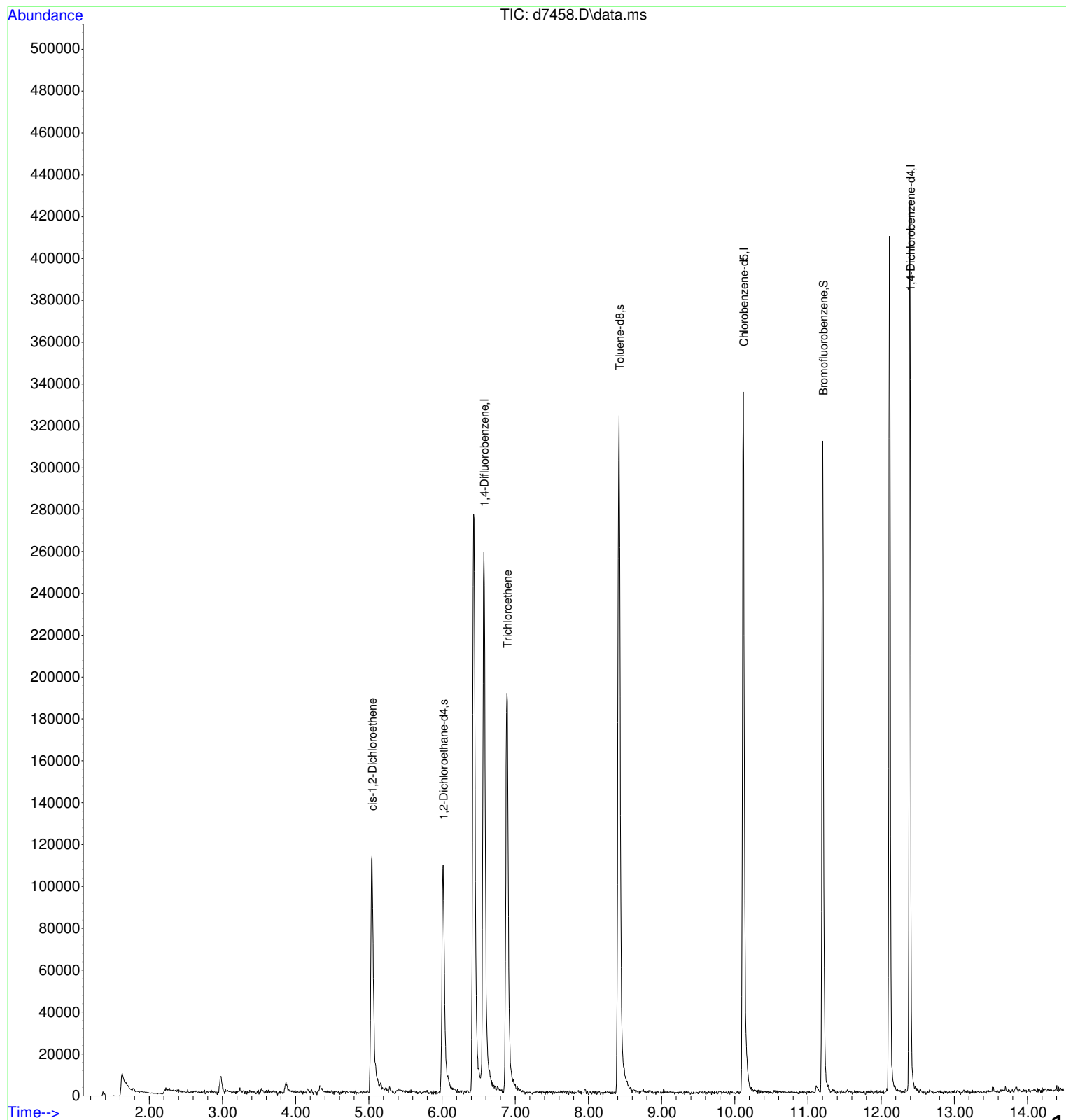
Quant Time: Sep 01 12:49:29 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

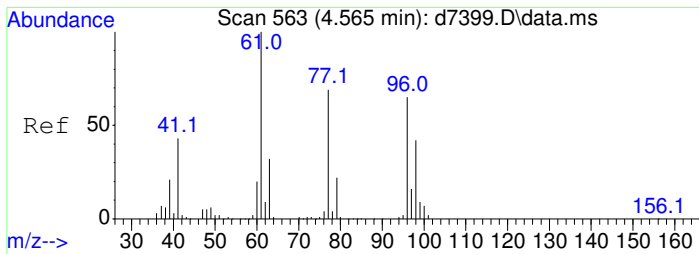
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.573	114	252326	50.00	ug	0.00
34) Chlorobenzene-d5	10.117	117	183557	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	85104	50.00	ug	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.017	65	104200	51.57	ug	0.02
57) Toluene-d8	8.418	98	268944	51.97	ug	0.00
79) Bromofluorobenzene	11.202	95	92725	51.78	ug	0.00
Target Compounds						Qvalue
23) cis-1,2-Dichloroethene	5.042	61	86365	29.81	ug	93
40) Trichloroethene	6.887	130	81712	51.27	ug	98

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

Data Path : C:\msdchem\1\DATA\090117\
Data File : d7458.D
Acq On : 1 Sep 2017 12:20
Operator :
Sample : 170821039-010a
Misc : samp e8260w
ALS Vial : 5 Sample Multiplier: 1

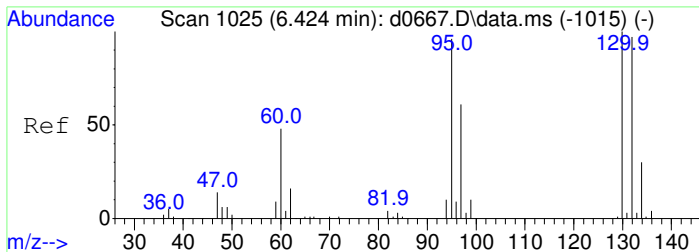
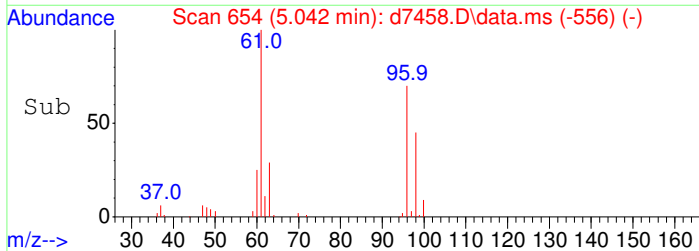
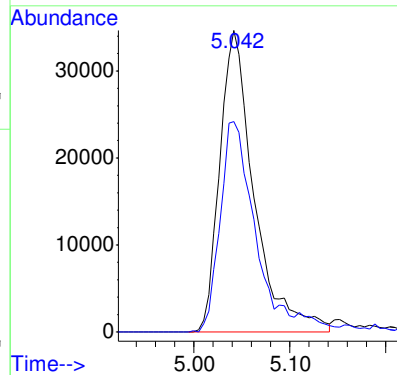
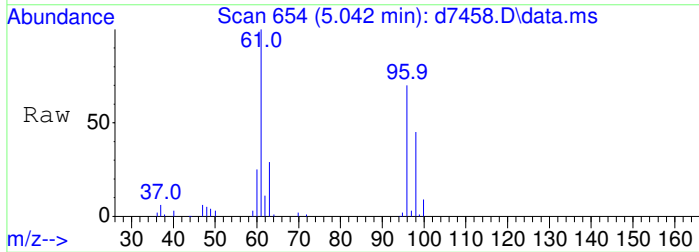
Quant Time: Sep 01 12:49:29 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Wed Aug 30 10:32:28 2017
Response via : Initial Calibration





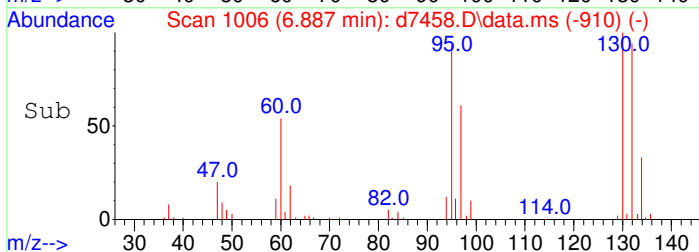
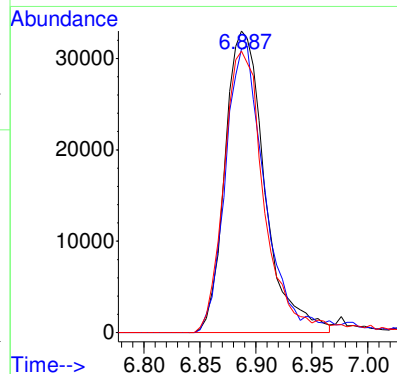
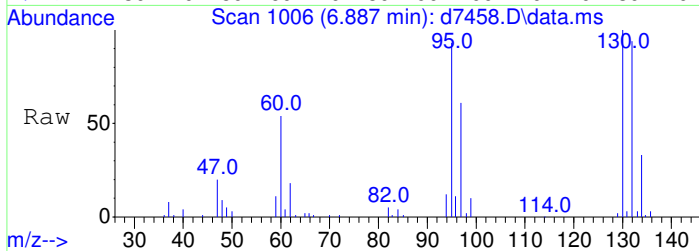
#23
 cis-1,2-Dichloroethene
 Concen: 29.81 ug
 RT: 5.042 min Scan# 654
 Delta R.T. 0.016 min
 Lab File: d7458.D
 Acq: 1 Sep 2017 12:20

Tgt Ion: 61 Resp: 86365
 Ion Ratio Lower Upper
 61 100
 96 69.0 59.7 89.5



#40
 Trichloroethene
 Concen: 51.27 ug
 RT: 6.887 min Scan# 1006
 Delta R.T. 0.005 min
 Lab File: d7458.D
 Acq: 1 Sep 2017 12:20

Tgt Ion: 130 Resp: 81712
 Ion Ratio Lower Upper
 130 100
 132 94.8 72.9 112.9
 95 96.6 74.0 114.0



Data Path : C:\msdchem\1\DATA\090117\
 Data File : d7459.D
 Acq On : 1 Sep 2017 12:44
 Operator :
 Sample : 170821039-009a
 Misc : samp e8260w
 ALS Vial : 6 Sample Multiplier: 1

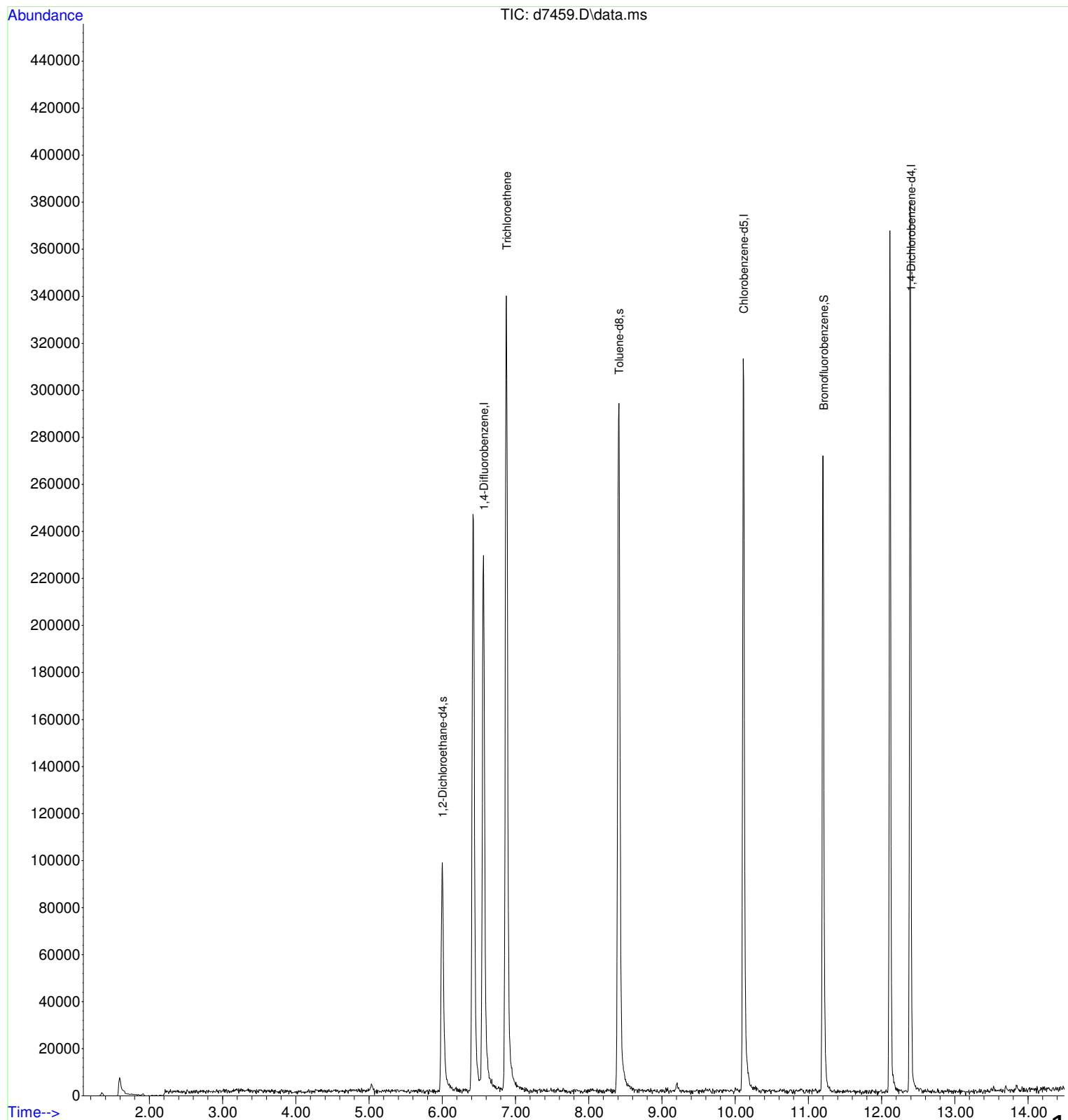
Quant Time: Sep 01 14:00:51 2017
 Quant Method : C:\msdchem\1\qtmetho\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

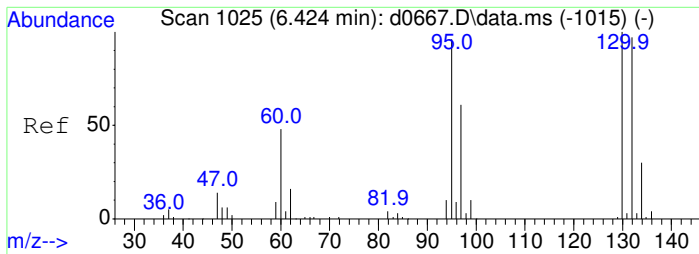
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.562	114	217255	50.00	ug	0.00
34) Chlorobenzene-d5	10.112	117	174810	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	81290	50.00	ug	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.001	65	86215	49.55	ug	0.00
57) Toluene-d8	8.408	98	243377	49.38	ug	0.00
79) Bromofluorobenzene	11.202	95	81901	47.88	ug	0.00
Target Compounds						
40) Trichloroethene	6.877	130	134461	88.59	ug	Qvalue 96

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

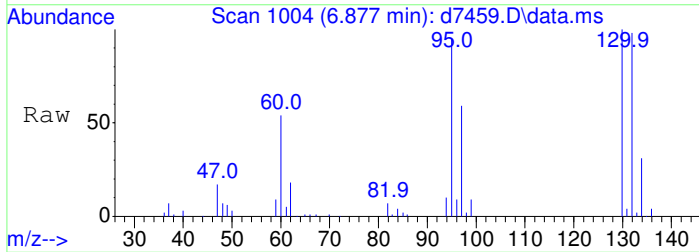
Data Path : C:\msdchem\1\DATA\090117\
Data File : d7459.D
Acq On : 1 Sep 2017 12:44
Operator :
Sample : 170821039-009a
Misc : samp e8260w
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 01 14:00:51 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Wed Aug 30 10:32:28 2017
Response via : Initial Calibration

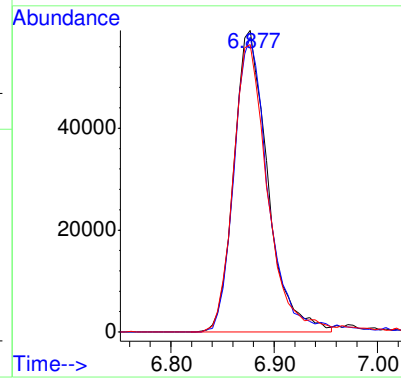
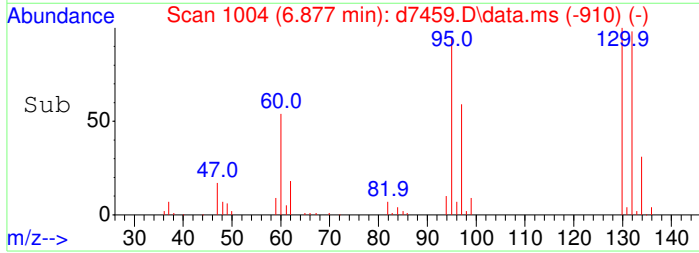




#40
 Trichloroethene
 Concen: 88.59 ug
 RT: 6.877 min Scan# 1004
 Delta R.T. -0.005 min
 Lab File: d7459.D
 Acq: 1 Sep 2017 12:44



Tgt Ion	Ratio	Lower	Upper
130	100		
132	98.9	72.9	112.9
95	96.4	74.0	114.0



Data Path : C:\msdchem\1\DATA\090117\
 Data File : d7460.D
 Acq On : 1 Sep 2017 13:06
 Operator :
 Sample : lcs
 Misc : lcs e8260w
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 01 14:02:50 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.578	114	328152	50.00	ug	0.01
34) Chlorobenzene-d5	10.117	117	275443	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	128331	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.022	65	123154	46.86	ug	0.02
57) Toluene-d8	8.418	98	386655	49.79	ug	0.00
79) Bromofluorobenzene	11.202	95	136700	50.62	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.534	85	92803	48.91	ug	99
3) Chloromethane	1.709	50	132970m	39.82	ug	
4) Vinyl Chloride	1.797	62	123911	53.40	ug	98
5) Bromomethane	2.088	94	31425	33.14	ug	94
6) Chloroethane	2.186	64	54083	38.49	ug	99
7) Acrolein	2.887	56	59048	164.65	ug	98
8) Trichlorofluoromethane	2.446	101	173206	53.95	ug	99
9) Freon113	3.013	101	35294	23.64	ug	91
10) 1,1-Dichloroethene	2.997	96	97805	52.88	ug	# 76
12) Carbon Disulfide	3.233	76	143057	27.29	ug	100
13) Acetone	3.065	43	61360	43.61	ug	92
14) Iodomethane	3.165	142	3262	1.92	ug	# 84
15) Acetonitrile	3.348	40	1081	3.62	ug	# 1
16) Methyl Acetate	3.453	43	29159	14.12	ug	# 86
17) Methylene Chloride	3.547	84	121315	51.29	ug	# 65
18) Acrylonitrile	3.831	53	197782	172.52	ug	98
19) trans-1,2-Dichloroethene	3.872	96	110791	53.03	ug	91
20) Mtbe	3.888	73	207953	26.09	ug	97
21) 1,1-Dichloroethane	4.360	63	232878	55.23	ug	90
23) cis-1,2-Dichloroethene	5.052	61	185305	49.17	ug	93
24) 2,2-Dichloropropane	5.052	77	57319	18.28	ug	# 75
26) Bromochloromethane	5.330	128	32881	26.11	ug	# 76
28) Chloroform	5.435	83	229041	52.35	ug	98
29) Cyclohexane	5.723	84	64506	23.24	ug	# 84
30) 1,1-Dichloro-1-propene	5.860	75	81213	26.40	ug	81
31) 1,2-Dichloroethane	6.116	62	205905	50.40	ug	99
32) 2-Butanone	5.078	43	74903m	48.76	ug	
35) 1,1,1-Trichloroethane	5.650	97	221409	53.38	ug	99
36) Carbon Tetrachloride	5.854	117	184920	51.90	ug	94
37) Benzene	6.096	78	498998	54.75	ug	100
40) Trichloroethene	6.892	130	134668	56.31	ug	98
41) Methyl Cyclohexane	7.134	83	59598	19.02	ug	# 90
42) 1,2-Dichloropropane	7.155	63	126076	52.36	ug	89
44) Dibromomethane	7.296	174	43528	24.78	ug	83
46) Methyl Methacrylate	7.139	69	11837	5.53	ug	# 1
47) Bromodichloromethane	7.506	83	184660	52.39	ug	88
49) cis-1,3-Dichloropropene	8.072	75	175379	47.88	ug	98
50) trans-1,3-Dichloropropene	8.796	75	164493	47.03	ug	99
51) 1,1,2-Trichloroethane	9.021	97	113416	51.41	ug	94
52) 1,3-Dichloropropane	9.226	76	105262	25.87	ug	# 73
53) 1,2-Dibromoethane	9.608	107	108102	49.25	ug	92
54) Dibromochloromethane	9.488	129	142408	51.92	ug	95
55) Bromoform	10.914	173	91316	47.92	ug	98
56) 4-Methyl-2-Pentanone	8.287	43	152231	46.91	ug	91
58) Toluene	8.507	92	320525	52.16	ug	100
60) Tetrachloroethene	9.210	164	104418	50.49	ug	99
61) 2-Hexanone	9.357	43	94585	43.38	ug	85
63) Chlorobenzene	10.143	112	331230	58.49	ug	99

Data Path : C:\msdchem\1\DATA\090117\
 Data File : d7460.D
 Acq On : 1 Sep 2017 13:06
 Operator :
 Sample : lcs
 Misc : lcs e8260w
 ALS Vial : 7 Sample Multiplier: 1

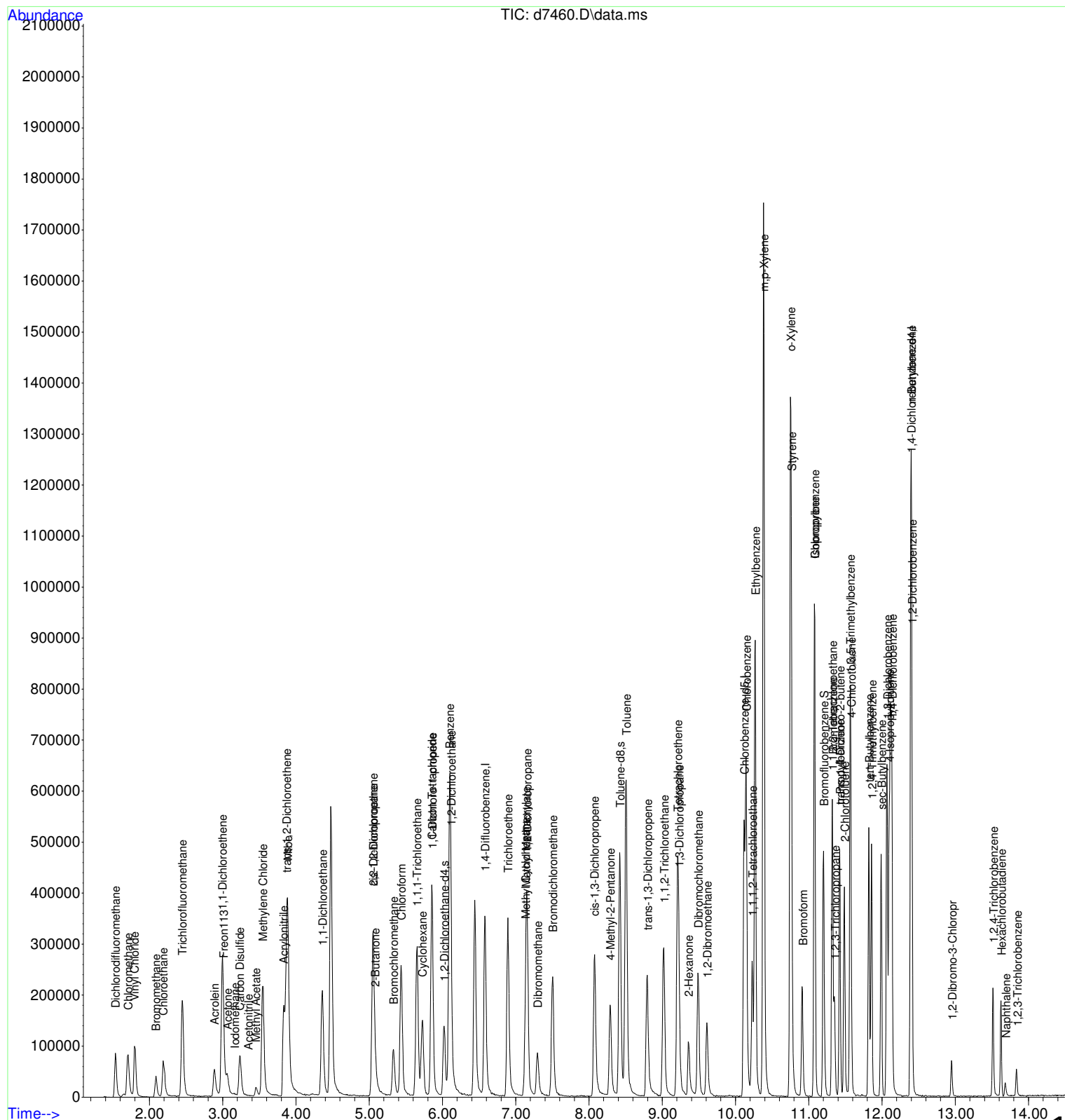
Quant Time: Sep 01 14:02:50 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Wed Aug 30 10:32:28 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,1,1,2-Tetrachloroethane	10.227	133	64163	29.39	ug	93
65) Ethylbenzene	10.269	106	184100	59.67	ug	99
66) m,p-Xylene	10.384	91	935272	115.36	ug	93
67) o-Xylene	10.751	106	222953	57.36	ug	91
68) Styrene	10.762	104	351378	56.96	ug	83
69) Isopropylbenzene	11.076	105	532622	52.28	ug	97
70) Chloroprene	11.076	53	7409	19.28	ug	# 1
71) trans-1,4-Dichloro-2-b...	11.422	88	457	1.61	ug	# 1
72) Bromobenzene	11.323	77	117473	25.10	ug	# 73
73) 1,2,3-Trichloropropane	11.354	75	65755	21.11	ug	# 86
74) 2-Chlorotoluene	11.485	91	185607	26.81	ug	97
75) 4-Chlorotoluene	11.574	91	202663	26.37	ug	98
76) 1,3,5-Trimethylbenzene	11.564	105	227719	27.17	ug	96
77) tert-Butylbenzene	11.821	119	198541	27.28	ug	100
78) 1,2,4-Trimethylbenzene	11.858	105	217110	26.17	ug	96
80) 1,1,2,2-Tetrachloroethane	11.318	83	118710	47.94	ug	93
81) n-Propylbenzene	11.422	91	300287	27.00	ug	100
82) 1,3-Dichlorobenzene	12.067	146	215413	52.96	ug	94
83) sec-Butylbenzene	11.989	105	253475	26.35	ug	99
84) 4-Isopropyltoluene	12.099	119	206182	24.65	ug	# 94
85) 1,4-Dichlorobenzene	12.135	146	210070	52.67	ug	# 88
86) 1,2-Dichlorobenzene	12.408	146	199257	50.63	ug	98
87) n-Butylbenzene	12.398	91	156947	24.84	ug	93
88) 1,2-Dibromo-3-Chloropr	12.953	157	14648	38.42	ug	90
89) 1,2,4-Trichlorobenzene	13.514	180	53924m	36.55	ug	
90) Hexachlorobutadiene	13.625	225	26541	21.59	ug	# 95
91) Naphthalene	13.682	128	19920	9.22	ug	97
92) 1,2,3-Trichlorobenzene	13.839	180	13388	14.98	ug	97

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

Data Path : C:\msdchem\1\DATA\090117\
Data File : d7460.D
Acq On : 1 Sep 2017 13:06
Operator :
Sample : lcs
Misc : lcs e8260w
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 01 14:02:50 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-082917.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Wed Aug 30 10:32:28 2017
Response via : Initial Calibration



Adirondack Environmental Services, Inc**Date:** 18-Sep-17**CLIENT:** AECOM Environment**Client Sample ID:** MW-4R**Work Order:** 170821039**Collection Date:** 8/21/2017**Reference:** Ward Products Amsterdam /**Lab Sample ID:** 170821039-001**PO#:** 70990ACM**Matrix:** GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA 200.7						Analyst: KH
(Prep: SW3010A - 8/28/2017)						
Chromium	16.9	5.00		µg/L	1	9/1/2017 12:14:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc**Date:** 18-Sep-17**CLIENT:** AECOM Environment**Client Sample ID:** MW-4**Work Order:** 170821039**Collection Date:** 8/21/2017**Reference:** Ward Products Amsterdam /**Lab Sample ID:** 170821039-002**PO#:** 70990ACM**Matrix:** GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA 200.7						Analyst: KH
(Prep: SW3010A - 8/28/2017)						
Chromium	14.9	5.00		µg/L	1	9/1/2017 1:11:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc**Date:** 18-Sep-17**CLIENT:** AECOM Environment**Client Sample ID:** DUP-1**Work Order:** 170821039**Collection Date:** 8/21/2017**Reference:** Ward Products Amsterdam /**Lab Sample ID:** 170821039-003**PO#:** 70990ACM**Matrix:** GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA 200.7						Analyst: KH
(Prep: SW3010A - 8/28/2017)						
Chromium	13.8	5.00		µg/L	1	9/1/2017 1:15:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc**Date:** 18-Sep-17**CLIENT:** AECOM Environment**Client Sample ID:** MW-8**Work Order:** 170821039**Collection Date:** 8/21/2017**Reference:** Ward Products Amsterdam /**Lab Sample ID:** 170821039-004**PO#:** 70990ACM**Matrix:** GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA 200.7						Analyst: KH
(Prep: SW3010A - 8/28/2017)						
Chromium	ND	5.00		µg/L	1	9/1/2017 1:24:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc**Date:** 18-Sep-17**CLIENT:** AECOM Environment**Client Sample ID:** MW-1R**Work Order:** 170821039**Collection Date:** 8/22/2017**Reference:** Ward Products Amsterdam /**Lab Sample ID:** 170821039-005**PO#:** 70990ACM**Matrix:** GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA 200.7						Analyst: KH
(Prep: SW3010A - 8/28/2017)						
Chromium	155	5.00		µg/L	1	9/1/2017 1:41:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc**Date:** 18-Sep-17**CLIENT:** AECOM Environment**Client Sample ID:** MW-6**Work Order:** 170821039**Collection Date:** 8/22/2017**Reference:** Ward Products Amsterdam /**Lab Sample ID:** 170821039-009**PO#:** 70990ACM**Matrix:** GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA 200.7						Analyst: KH
(Prep: SW3010A - 8/28/2017)						
Chromium	14.1	5.00		µg/L	1	9/1/2017 1:46:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT**BatchID: 56444**

PDS	SeqNo: 2247557	PrepDate:				TestNo: E200.7		RunNo: 150895			
	Samp ID: 170821039-001 (MW-4R)	PrepRef:(SW3010A)				Units: µg/L		Analysis Date: 9/1/2017			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	471.4	10.0	400	16.92	114	75	125	0	0		

SD	SeqNo: 2247561	PrepDate:				TestNo: E200.7		RunNo: 150895			
	Samp ID: 170821039-001 (MW-4R)	PrepRef:(SW3010A)				Units: µg/L		Analysis Date: 9/1/2017			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	50.0	0	0	0	0	0	16.92	0	0	

MBLK	SeqNo: 2247552	PrepDate:8/28/2017				TestNo: E200.7		RunNo: 150895			
	Samp ID: MB-56444	PrepRef:(SW3010A)				Units: µg/L		Analysis Date: 9/1/2017			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	10.0									

LCS	SeqNo: 2247553	PrepDate:8/28/2017				TestNo: E200.7		RunNo: 150895			
	Samp ID: LCS-56444	PrepRef:(SW3010A)				Units: µg/L		Analysis Date: 9/1/2017			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	1987	10.0	2000	0	99.4	80	120	0	0		

MS	SeqNo: 2247556	PrepDate:8/28/2017				TestNo: E200.7		RunNo: 150895			
	Samp ID: 170821039-001 (MW-4R)	PrepRef:(SW3010A)				Units: µg/L		Analysis Date: 9/1/2017			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	232.5	10.0	200	16.92	108	75	125	0	0		

DUP	SeqNo: 2247555	PrepDate:8/28/2017				TestNo: E200.7		RunNo: 150895			
	Samp ID: 170821039-001	PrepRef:				Units: µg/L		Analysis Date: 9/1/2017			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	14.14	10.0	0	0	0	0	0	16.92	17.9	20	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 56444

CCB	SeqNo: 2247547	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: CCB-1	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	200	0	0	0	0	0	0	0		
Antimony	ND	60.0	0	0	0	0	0	0	0		
Arsenic	ND	10.0	0	0	0	0	0	0	0		
Barium	ND	200	0	0	0	0	0	0	0		
Beryllium	ND	5.00	0	0	0	0	0	0	0		
Boron	ND	50.0	0	0	0	0	0	0	0		
Cadmium	ND	5.00	0	0	0	0	0	0	0		
Calcium	ND	5000	0	0	0	0	0	0	0		
Chromium	ND	10.0	0	0	0	0	0	0	0		
Cobalt	ND	50.0	0	0	0	0	0	0	0		
Copper	ND	25.0	0	0	0	0	0	0	0		
Iron	ND	100	0	0	0	0	0	0	0		
Lead	ND	3.00	0	0	0	0	0	0	0		
Lithium	ND	50.0	0	0	0	0	0	0	0		
Magnesium	ND	5000	0	0	0	0	0	0	0		
Manganese	ND	15.0	0	0	0	0	0	0	0		
Molybdenum	ND	50.0	0	0	0	0	0	0	0		
Nickel	ND	40.0	0	0	0	0	0	0	0		
Potassium	ND	5000	0	0	0	0	0	0	0		
Selenium	ND	5.00	0	0	0	0	0	0	0		
Silver	ND	10.0	0	0	0	0	0	0	0		
Sodium	ND	5000	0	0	0	0	0	0	0		
Strontium	5.719	5.00	0	0	0	0	0	0	0		
Thallium	ND	10.0	0	0	0	0	0	0	0		
Tin	ND	50.0	0	0	0	0	0	0	0		
Titanium	ND	50.0	0	0	0	0	0	0	0		
Vanadium	ND	50.0	0	0	0	0	0	0	0		
Zinc	ND	20.0	0	0	0	0	0	0	0		

CCB	SeqNo: 2247560	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: CCB-2	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 56444

CCB	SeqNo: 2247560	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: CCB-2	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	200	0	0	0	0	0	0	0		
Antimony	ND	60.0	0	0	0	0	0	0	0		
Arsenic	ND	10.0	0	0	0	0	0	0	0		
Barium	ND	200	0	0	0	0	0	0	0		
Beryllium	ND	5.00	0	0	0	0	0	0	0		
Boron	ND	50.0	0	0	0	0	0	0	0		
Cadmium	ND	5.00	0	0	0	0	0	0	0		
Calcium	ND	5000	0	0	0	0	0	0	0		
Chromium	ND	10.0	0	0	0	0	0	0	0		
Cobalt	ND	50.0	0	0	0	0	0	0	0		
Copper	ND	25.0	0	0	0	0	0	0	0		
Iron	ND	100	0	0	0	0	0	0	0		
Lead	ND	3.00	0	0	0	0	0	0	0		
Lithium	ND	50.0	0	0	0	0	0	0	0		
Magnesium	ND	5000	0	0	0	0	0	0	0		
Manganese	ND	15.0	0	0	0	0	0	0	0		
Molybdenum	ND	50.0	0	0	0	0	0	0	0		
Nickel	ND	40.0	0	0	0	0	0	0	0		
Potassium	ND	5000	0	0	0	0	0	0	0		
Selenium	ND	5.00	0	0	0	0	0	0	0		
Silver	ND	10.0	0	0	0	0	0	0	0		
Sodium	ND	5000	0	0	0	0	0	0	0		
Strontium	5.72	5.00	0	0	0	0	0	0	0		
Thallium	ND	10.0	0	0	0	0	0	0	0		
Tin	ND	50.0	0	0	0	0	0	0	0		
Titanium	ND	50.0	0	0	0	0	0	0	0		
Vanadium	ND	50.0	0	0	0	0	0	0	0		
Zinc	ND	20.0	0	0	0	0	0	0	0		

CCB	SeqNo: 2248051	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: CCB-3	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 56444

CCB	SeqNo: 2248051	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: CCB-3	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	200	0	0	0	0	0	0	0		
Antimony	ND	60.0	0	0	0	0	0	0	0		
Arsenic	ND	10.0	0	0	0	0	0	0	0		
Barium	ND	200	0	0	0	0	0	0	0		
Beryllium	ND	5.00	0	0	0	0	0	0	0		
Boron	ND	50.0	0	0	0	0	0	0	0		
Cadmium	ND	5.00	0	0	0	0	0	0	0		
Calcium	ND	5000	0	0	0	0	0	0	0		
Chromium	ND	10.0	0	0	0	0	0	0	0		
Cobalt	ND	50.0	0	0	0	0	0	0	0		
Copper	ND	25.0	0	0	0	0	0	0	0		
Iron	ND	100	0	0	0	0	0	0	0		
Lead	ND	3.00	0	0	0	0	0	0	0		
Lithium	ND	50.0	0	0	0	0	0	0	0		
Magnesium	ND	5000	0	0	0	0	0	0	0		
Manganese	ND	15.0	0	0	0	0	0	0	0		
Molybdenum	ND	50.0	0	0	0	0	0	0	0		
Nickel	ND	40.0	0	0	0	0	0	0	0		
Potassium	ND	5000	0	0	0	0	0	0	0		
Selenium	ND	5.00	0	0	0	0	0	0	0		
Silver	ND	10.0	0	0	0	0	0	0	0		
Sodium	ND	5000	0	0	0	0	0	0	0		
Strontium	ND	5.00	0	0	0	0	0	0	0		
Thallium	ND	10.0	0	0	0	0	0	0	0		
Tin	ND	50.0	0	0	0	0	0	0	0		
Titanium	ND	50.0	0	0	0	0	0	0	0		
Vanadium	ND	50.0	0	0	0	0	0	0	0		
Zinc	ND	20.0	0	0	0	0	0	0	0		

CCB	SeqNo: 2248057	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: CCB-4	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 56444

CCB	SeqNo: 2248057	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: CCB-4	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	200	0	0	0	0	0	0	0		
Antimony	ND	60.0	0	0	0	0	0	0	0		
Arsenic	ND	10.0	0	0	0	0	0	0	0		
Barium	ND	200	0	0	0	0	0	0	0		
Beryllium	ND	5.00	0	0	0	0	0	0	0		
Boron	ND	50.0	0	0	0	0	0	0	0		
Cadmium	ND	5.00	0	0	0	0	0	0	0		
Calcium	ND	5000	0	0	0	0	0	0	0		
Chromium	ND	10.0	0	0	0	0	0	0	0		
Cobalt	ND	50.0	0	0	0	0	0	0	0		
Copper	ND	25.0	0	0	0	0	0	0	0		
Iron	ND	100	0	0	0	0	0	0	0		
Lead	ND	3.00	0	0	0	0	0	0	0		
Lithium	ND	50.0	0	0	0	0	0	0	0		
Magnesium	ND	5000	0	0	0	0	0	0	0		
Manganese	ND	15.0	0	0	0	0	0	0	0		
Molybdenum	ND	50.0	0	0	0	0	0	0	0		
Nickel	ND	40.0	0	0	0	0	0	0	0		
Potassium	ND	5000	0	0	0	0	0	0	0		
Selenium	ND	5.00	0	0	0	0	0	0	0		
Silver	ND	10.0	0	0	0	0	0	0	0		
Sodium	ND	5000	0	0	0	0	0	0	0		
Strontium	ND	5.00	0	0	0	0	0	0	0		
Thallium	ND	10.0	0	0	0	0	0	0	0		
Tin	ND	50.0	0	0	0	0	0	0	0		
Titanium	ND	50.0	0	0	0	0	0	0	0		
Vanadium	ND	50.0	0	0	0	0	0	0	0		
Zinc	ND	20.0	0	0	0	0	0	0	0		

CCB	SeqNo: 2248062	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: CCB-5	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 56444

CCB	SeqNo: 2248062	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: CCB-5	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	200	0	0	0	0	0	0	0		
Antimony	ND	60.0	0	0	0	0	0	0	0		
Arsenic	ND	10.0	0	0	0	0	0	0	0		
Barium	ND	200	0	0	0	0	0	0	0		
Beryllium	ND	5.00	0	0	0	0	0	0	0		
Boron	ND	50.0	0	0	0	0	0	0	0		
Cadmium	ND	5.00	0	0	0	0	0	0	0		
Calcium	ND	5000	0	0	0	0	0	0	0		
Chromium	ND	10.0	0	0	0	0	0	0	0		
Cobalt	ND	50.0	0	0	0	0	0	0	0		
Copper	ND	25.0	0	0	0	0	0	0	0		
Iron	ND	100	0	0	0	0	0	0	0		
Lead	ND	3.00	0	0	0	0	0	0	0		
Lithium	ND	50.0	0	0	0	0	0	0	0		
Magnesium	ND	5000	0	0	0	0	0	0	0		
Manganese	ND	15.0	0	0	0	0	0	0	0		
Molybdenum	ND	50.0	0	0	0	0	0	0	0		
Nickel	ND	40.0	0	0	0	0	0	0	0		
Potassium	ND	5000	0	0	0	0	0	0	0		
Selenium	ND	5.00	0	0	0	0	0	0	0		
Silver	ND	10.0	0	0	0	0	0	0	0		
Sodium	ND	5000	0	0	0	0	0	0	0		
Strontium	ND	5.00	0	0	0	0	0	0	0		
Thallium	ND	10.0	0	0	0	0	0	0	0		
Tin	ND	50.0	0	0	0	0	0	0	0		
Titanium	ND	50.0	0	0	0	0	0	0	0		
Vanadium	ND	50.0	0	0	0	0	0	0	0		
Zinc	ND	20.0	0	0	0	0	0	0	0		

CCV	SeqNo: 2247546	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: CCV-1	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 56444

CCV	SeqNo: 2247546	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: CCV-1	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	2058	200	2000	0	103	90	110	0	0		
Antimony	2011	60.0	2000	0	101	90	110	0	0		
Arsenic	1942	10.0	2000	0	97.1	90	110	0	0		
Barium	2068	200	2000	0	103	90	110	0	0		
Beryllium	2032	5.00	2000	0	102	90	110	0	0		
Boron	2101	50.0	2000	0	105	90	110	0	0		
Cadmium	2006	5.00	2000	0	100	90	110	0	0		
Calcium	ND	5000	2000	0	97.8	90	110	0	0		
Chromium	1989	10.0	2000	0	99.5	90	110	0	0		
Cobalt	1975	50.0	2000	0	98.7	90	110	0	0		
Copper	2071	25.0	2000	0	104	90	110	0	0		
Iron	1996	100	2000	0	99.8	90	110	0	0		
Lead	2017	3.00	2000	0	101	90	110	0	0		
Lithium	1999	50.0	2000	0	100	90	110	0	0		
Magnesium	ND	5000	2000	0	97.5	90	110	0	0		
Manganese	1953	15.0	2000	0	97.7	90	110	0	0		
Molybdenum	2012	50.0	2000	0	101	90	110	0	0		
Nickel	2039	40.0	2000	0	102	90	110	0	0		
Potassium	9632	5000	10000	0	96.3	90	110	0	0		
Selenium	1919	5.00	2000	0	95.9	90	110	0	0		
Silver	509.6	10.0	500	0	102	90	110	0	0		
Sodium	ND	5000	2000	0	94.8	90	110	0	0		
Strontium	2034	5.00	2000	0	102	90	110	0	0		
Thallium	1959	10.0	2000	0	98	90	110	0	0		
Tin	1972	50.0	2000	0	98.6	90	110	0	0		
Titanium	ND	50.0	0	0	0	90	110	0	0		
Vanadium	1986	50.0	2000	0	99.3	90	110	0	0		
Zinc	2010	20.0	2000	0	101	90	110	0	0		

CCV	SeqNo: 2247558	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: CCV-2	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 56444

CCV	SeqNo: 2247558	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: CCV-2	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	2135	200	2000	0	107	90	110	0	0		
Antimony	2145	60.0	2000	0	107	90	110	0	0		
Arsenic	2109	10.0	2000	0	105	90	110	0	0		
Barium	2089	200	2000	0	104	90	110	0	0		
Beryllium	2141	5.00	2000	0	107	90	110	0	0		
Boron	1916	50.0	2000	0	95.8	90	110	0	0		
Cadmium	2132	5.00	2000	0	107	90	110	0	0		
Calcium	ND	5000	2000	0	105	90	110	0	0		
Chromium	2005	10.0	2000	0	100	90	110	0	0		
Cobalt	2130	50.0	2000	0	106	90	110	0	0		
Copper	2115	25.0	2000	0	106	90	110	0	0		
Iron	2130	100	2000	0	106	90	110	0	0		
Lead	2099	3.00	2000	0	105	90	110	0	0		
Lithium	2065	50.0	2000	0	103	90	110	0	0		
Magnesium	ND	5000	2000	0	102	90	110	0	0		
Manganese	2087	15.0	2000	0	104	90	110	0	0		
Molybdenum	2139	50.0	2000	0	107	90	110	0	0		
Nickel	2057	40.0	2000	0	103	90	110	0	0		
Potassium	9953	5000	10000	0	99.5	90	110	0	0		
Selenium	2096	5.00	2000	0	105	90	110	0	0		
Silver	518	10.0	500	0	104	90	110	0	0		
Sodium	ND	5000	2000	0	100	90	110	0	0		
Strontium	2173	5.00	2000	0	109	90	110	0	0		
Thallium	2136	10.0	2000	0	107	90	110	0	0		
Tin	2168	50.0	2000	0	108	90	110	0	0		
Titanium	ND	50.0	0	0	0	90	110	0	0		
Vanadium	2083	50.0	2000	0	104	90	110	0	0		
Zinc	2152	20.0	2000	0	108	90	110	0	0		

CCV	SeqNo: 2248049	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: CCV-3	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 56444

CCV	SeqNo: 2248049	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: CCV-3	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	2053	200	2000	0	103	90	110	0	0		
Antimony	2050	60.0	2000	0	103	90	110	0	0		
Arsenic	2013	10.0	2000	0	101	90	110	0	0		
Barium	2038	200	2000	0	102	90	110	0	0		
Beryllium	2059	5.00	2000	0	103	90	110	0	0		
Boron	2141	50.0	2000	0	107	90	110	0	0		
Cadmium	2036	5.00	2000	0	102	90	110	0	0		
Calcium	ND	5000	2000	0	100	90	110	0	0		
Chromium	1946	10.0	2000	0	97.3	90	110	0	0		
Cobalt	2016	50.0	2000	0	101	90	110	0	0		
Copper	2066	25.0	2000	0	103	90	110	0	0		
Iron	2036	100	2000	0	102	90	110	0	0		
Lead	2075	3.00	2000	0	104	90	110	0	0		
Lithium	2014	50.0	2000	0	101	90	110	0	0		
Magnesium	ND	5000	2000	0	98.4	90	110	0	0		
Manganese	1998	15.0	2000	0	99.9	90	110	0	0		
Molybdenum	2042	50.0	2000	0	102	90	110	0	0		
Nickel	2088	40.0	2000	0	104	90	110	0	0		
Potassium	9536	5000	10000	0	95.4	90	110	0	0		
Selenium	1988	5.00	2000	0	99.4	90	110	0	0		
Silver	509.4	10.0	500	0	102	90	110	0	0		
Sodium	ND	5000	2000	0	91.9	90	110	0	0		
Strontium	2085	5.00	2000	0	104	90	110	0	0		
Thallium	2040	10.0	2000	0	102	90	110	0	0		
Tin	2048	50.0	2000	0	102	90	110	0	0		
Titanium	ND	50.0	0	0	0	90	110	0	0		
Vanadium	2023	50.0	2000	0	101	90	110	0	0		
Zinc	2046	20.0	2000	0	102	90	110	0	0		

CCV	SeqNo: 2248056	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: CCV-4	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 56444

CCV	SeqNo: 2248056	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: CCV-4	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	2043	200	2000	0	102	90	110	0	0		
Antimony	2041	60.0	2000	0	102	90	110	0	0		
Arsenic	1989	10.0	2000	0	99.4	90	110	0	0		
Barium	2035	200	2000	0	102	90	110	0	0		
Beryllium	2037	5.00	2000	0	102	90	110	0	0		
Boron	2099	50.0	2000	0	105	90	110	0	0		
Cadmium	2029	5.00	2000	0	101	90	110	0	0		
Calcium	ND	5000	2000	0	99	90	110	0	0		
Chromium	1937	10.0	2000	0	96.8	90	110	0	0		
Cobalt	2000	50.0	2000	0	100	90	110	0	0		
Copper	2058	25.0	2000	0	103	90	110	0	0		
Iron	2030	100	2000	0	101	90	110	0	0		
Lead	2052	3.00	2000	0	103	90	110	0	0		
Lithium	2006	50.0	2000	0	100	90	110	0	0		
Magnesium	ND	5000	2000	0	98.3	90	110	0	0		
Manganese	1988	15.0	2000	0	99.4	90	110	0	0		
Molybdenum	2017	50.0	2000	0	101	90	110	0	0		
Nickel	2062	40.0	2000	0	103	90	110	0	0		
Potassium	9518	5000	10000	0	95.2	90	110	0	0		
Selenium	1974	5.00	2000	0	98.7	90	110	0	0		
Silver	502.4	10.0	500	0	100	90	110	0	0		
Sodium	ND	5000	2000	0	96.5	90	110	0	0		
Strontium	2068	5.00	2000	0	103	90	110	0	0		
Thallium	2034	10.0	2000	0	102	90	110	0	0		
Tin	2030	50.0	2000	0	101	90	110	0	0		
Titanium	ND	50.0	0	0	0	90	110	0	0		
Vanadium	2005	50.0	2000	0	100	90	110	0	0		
Zinc	2030	20.0	2000	0	101	90	110	0	0		

CCV	SeqNo: 2248061	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: CCV-5	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 56444

CCV	SeqNo: 2248061	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: CCV-5	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	2060	200	2000	0	103	90	110	0	0		
Antimony	2066	60.0	2000	0	103	90	110	0	0		
Arsenic	2016	10.0	2000	0	101	90	110	0	0		
Barium	2049	200	2000	0	102	90	110	0	0		
Beryllium	2056	5.00	2000	0	103	90	110	0	0		
Boron	2133	50.0	2000	0	107	90	110	0	0		
Cadmium	2057	5.00	2000	0	103	90	110	0	0		
Calcium	ND	5000	2000	0	99.4	90	110	0	0		
Chromium	1954	10.0	2000	0	97.7	90	110	0	0		
Cobalt	2041	50.0	2000	0	102	90	110	0	0		
Copper	2068	25.0	2000	0	103	90	110	0	0		
Iron	2059	100	2000	0	103	90	110	0	0		
Lead	2100	3.00	2000	0	105	90	110	0	0		
Lithium	2044	50.0	2000	0	102	90	110	0	0		
Magnesium	ND	5000	2000	0	98.2	90	110	0	0		
Manganese	2008	15.0	2000	0	100	90	110	0	0		
Molybdenum	2048	50.0	2000	0	102	90	110	0	0		
Nickel	2095	40.0	2000	0	105	90	110	0	0		
Potassium	9653	5000	10000	0	96.5	90	110	0	0		
Selenium	2016	5.00	2000	0	101	90	110	0	0		
Silver	502.2	10.0	500	0	100	90	110	0	0		
Sodium	ND	5000	2000	0	93.9	90	110	0	0		
Strontium	2083	5.00	2000	0	104	90	110	0	0		
Thallium	2047	10.0	2000	0	102	90	110	0	0		
Tin	2067	50.0	2000	0	103	90	110	0	0		
Titanium	ND	50.0	0	0	0	90	110	0	0		
Vanadium	2009	50.0	2000	0	100	90	110	0	0		
Zinc	2068	20.0	2000	0	103	90	110	0	0		

CRI	SeqNo: 2247540	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: CRI-1	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 56444

CRI	SeqNo: 2247540	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: CRI-1	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.75	10.0	20	0	93.8	50	150	0	0		

CRI	SeqNo: 2248058	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: CRI-2	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	16.47	10.0	20	0	82.3	50	150	0	0		

ICB	SeqNo: 2247539	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: ICB-1	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	10.0	0	0	0	0	0	0	0		

ICV	SeqNo: 2247538	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: ICV-1	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	1997	10.0	2000	0	99.9	90	110	0	0		

ICSA	SeqNo: 2247544	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: ICSA-1	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	10.0	0	0	0	80	120	0	0		

ICSA	SeqNo: 2248059	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: ICSA-2	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	10.0	0	0	0	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 170821039
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 56444

ICSAB	SeqNo: 2247545	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: ICSAB-1	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	575.3	10.0	500	0	115	80	120	0	0		

ICSAB	SeqNo: 2248060	PrepDate:	TestNo: E200.7	RunNo: 150895
	Samp ID: ICSAB-2	PrepRef:	Units: µg/L	Analysis Date: 9/1/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	565.8	10.0	500	0	113	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Adirondack Environmental Services, Inc**Date:** 18-Sep-17**Test Code:** CLPW**Test Number:** E200.7**Test Name:** ICP Metals Water**Matrix:** Water **Units:** µg/L**METHOD DETECTION /
REPORTING LIMITS****Updated:** 18-Sep-17

Type	Analyte	MDL	PQL
A	Aluminum	32.4	200
A	Antimony	1.86	60
A	Arsenic	2.37	10
A	Barium	2.06	200
A	Beryllium	0.61	5
A	Boron	4.66	50
A	Cadmium	0.25	5
A	Calcium	18.2	5000
A	Chromium	3.73	10
A	Cobalt	0.57	50
A	Copper	2.93	25
A	Iron	7.42	100
A	Lead	1.45	3
A	Lithium	68.3	100
A	Magnesium	43.1	5000
A	Manganese	2.17	15
A	Molybdenum	0.65	50
A	Nickel	0.5	40
A	Potassium	16.2	5000
A	Selenium	2.6	5
A	Silver	5.89	10
A	Sodium	22.3	5000
A	Strontium	16	20
A	Thallium	2.64	10
A	Tin	1.76	50
A	Titanium	0	50
A	Vanadium	5.04	50
A	Zinc	1.86	20

Sample Report

Report Author

Printed: 9/7/2017 3:29 pm

Blank

Acquire Date: 01-Sep-2017 9:31 am

Sample Type: Calib. Std.

Correction Factor: 1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	-1.7964	Cts/S	.2020	11.244
Ag	-.34818	Cts/S	.04121	11.836
Al	.04474	Cts/S	.06719	150.19
As	.03680	Cts/S	.01276	34.680
Au	.36474	Cts/S	.04273	11.716
B_	.06295	Cts/S	.00872	13.856
Ba	13.908	Cts/S	.367	2.6377
Be	3.9812	Cts/S	.0312	.78402
Ca	1.1375	Cts/S	.1765	15.518
Cd	.01358	Cts/S	.00960	70.704
Co	-.00494	Cts/S	.01484	300.55
Cr	-.30873	Cts/S	.07566	24.506
Cu	1.2443	Cts/S	.0334	2.6846
Fe	1.4929	Cts/S	.0438	2.9320
K_	1.1708	Cts/S	.1021	8.7175
Li	-107.92	Cts/S	3.02	2.7960
Mg	.22333	Cts/S	.04119	18.442
Mn	.00586	Cts/S	.00742	126.54
Mo	-.03240	Cts/S	.01615	49.842
Na	-87.641	Cts/S	21.106	24.083
Ni	.01821	Cts/S	.00480	26.375
Pb	-.01049	Cts/S	.02357	224.60
Pd	-.01942	Cts/S	.07455	383.89
Sb	.02314	Cts/S	.00654	28.276
Se	.02422	Cts/S	.00044	1.8104
Si	.46608	Cts/S	.08237	17.673
Sn	-.01265	Cts/S	.00829	65.544
Sr	.22888	Cts/S	.12750	55.708
Ti	-.14704	Cts/S	.01962	13.346
Tl	-.01536	Cts/S	.01125	73.230
V_	.03711	Cts/S	.06915	186.36
Zn	.27309	Cts/S	.00041	.15094
Zr	-.98627	Cts/S	.14316	14.516

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Ag - 1ppm

Acquire Date: 01-Sep-2017 9:39 am

Sample Type: Calib. Std.

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Ag	30.856	Cts/S	.012	.03853

200.7-6

Acquire Date: 01-Sep-2017 9:56 am

Sample Type: Calib. Std.

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
As	18.457	Cts/S	.027	.14516
Cr	25.731	Cts/S	.069	.27006
Li	20.317	Cts/S	5.203	25.608
Se	16.302	Cts/S	.023	.13904
Si	39.460	Cts/S	.423	1.0722
Sn	51.409	Cts/S	.091	.17658
V_	23.482	Cts/S	.137	.58521

200.7-1

Acquire Date: 01-Sep-2017 10:00 am

Sample Type: Calib. Std.

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	1507.7	Cts/S	11.9	.79052
Al	97.782	Cts/S	.651	.66598
Ca	138.18	Cts/S	1.18	.85173
K_	424.26	Cts/S	1.69	.39815
Mg	70.414	Cts/S	.741	1.0530
Na	2813.6	Cts/S	21.4	.75938
Ni	724.74	Cts/S	.14	.01934
Zn	1918.4	Cts/S	2.5	.12927

200.7-2

Acquire Date: 01-Sep-2017 10:05 am

Sample Type: Calib. Std.

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Ba	1007.0	Cts/S	5.5	.55050
Be	1320.1	Cts/S	8.0	.60239
Co	471.66	Cts/S	1.71	.36322
Cu	40.188	Cts/S	.233	.58047
Fe	4251.5	Cts/S	15.6	.36598
Mn	1352.6	Cts/S	9.6	.70876
Sr	150.61	Cts/S	1.05	.70035

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 9/7/2017 3:30 pm

200.7-3

Acquire Date: 01-Sep-2017 10:11 am

Sample Type: Calib. Std.

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
B_	20.594	Cts/S	.123	.59502
Cd	154.43	Cts/S	.17	.10950
Pb	25.359	Cts/S	.025	.09718
Tl	8.0252	Cts/S	.0091	.11383

200.7-4

Acquire Date: 01-Sep-2017 10:15 am

Sample Type: Calib. Std.

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Mo	890.16	Cts/S	4.25	.47768
Sb	159.89	Cts/S	.79	.49722
Ti	647.34	Cts/S	1.52	.23446

ICV-1

Acquire Date: 01-Sep-2017 10:24 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	1936.5	ppb	14.4	.74418
Ag	510.59	ppb	2.95	.57744
Al	2073.7	ppb	30.4	1.4650
As	1993.5	ppb	.3	.01532
Au	15.209	ppb	.132	.86799
B_	1931.6	ppb	.2	.00952
Ba	2085.5	ppb	15.6	.74640
Be	2053.6	ppb	17.2	.83713
Ca	1966.5	ppb	13.4	.68292
Cd	2030.2	ppb	.2	.01221
Co	2004.2	ppb	1.2	.05767
Cr	1997.2	ppb	35.1	1.7550
Cu	2092.3	ppb	20.4	.97614
Fe	2025.4	ppb	4.7	.23446
K_	9620.6	ppb	73.2	.76126
Li	2029.2	ppb	76.1	3.7522
Mg	1976.8	ppb	2.2	.11180
Mn	1977.1	ppb	2.5	.12576
Mo	2035.8	ppb	2.7	.13110
Na	1947.3	ppb	22.6	1.1588
Ni	2063.4	ppb	1.7	.08061
Pb	2049.9	ppb	1.6	.07907

Color Legend: Pass/Unchecked Internal Standard Check Fail Check Warn

ICV-1

Acquire Date: 01-Sep-2017 10:24 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Pd	<.00000	ppb	7.088	13.309
Sb	2054.3	ppb	.1	.00497
Se	1986.2	ppb	1.6	.07990
Si	4884.8	ppb	15.0	.30765
Sn	2007.3	ppb	2.7	.13672
Sr	2049.0	ppb	11.1	.53985
Ti	<.00000	ppb	.3636	18.450
Tl	1998.7	ppb	7.9	.39353
V_	2011.3	ppb	24.6	1.2217
Zn	2041.7	ppb	.5	.02204
Zr	1.5623	ppb	.7935	50.794

ICB-1

Acquire Date: 01-Sep-2017 10:29 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	.93794	ppb	1.83282	195.41
Ag	1.5121	ppb	2.9542	195.36
Al	3.9737	ppb	16.8093	423.02
As	.23221	ppb	.68051	293.05
Au	.48245	ppb	1.11832	231.80
B_	1.5692	ppb	.4509	28.734
Ba	<.00000	ppb	.48926	81.666
Be	<.00000	ppb	.05204	23.163
Ca	<.00000	ppb	.860	1.3187
Cd	.10791	ppb	.02259	20.934
Co	<.00000	ppb	.01295	34.115
Cr	<.00000	ppb	10.17169	1,617.4
Cu	.46135	ppb	3.72593	807.61
Fe	<.00000	ppb	.06496	14.073
K_	1.5062	ppb	4.3569	289.26
Li	1.4709	ppb	46.8442	3,184.6
Mg	<.00000	ppb	17.328	38.288
Mn	.00433	ppb	.00258	59.570
Mo	.66904	ppb	.05887	8.7987
Na	1.7284	ppb	73.9217	4,277.0
Ni	.12985	ppb	.13841	106.59
Pb	<.00000	ppb	.01773	163.24
Pd	<.00000	ppb	.887	4.0459
Sb	.07720	ppb	.57288	742.08

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

ICB-1

Acquire Date: 01-Sep-2017 10:29 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Se	<.00000	ppb	.68331	801.56
Si	2.1273	ppb	7.0374	330.82
Sn	.26405	ppb	.01695	6.4176
Sr	1.9364	ppb	7.0448	363.81
Ti	1.9925	ppb	1.3027	65.382
Tl	.01698	ppb	.79582	4,688.0
V_	<.00000	ppb	2.84390	1,371.8
Zn	.06493	ppb	.00280	4.3185
Zr	1.1235	ppb	.8620	76.725

CRI-1

Acquire Date: 01-Sep-2017 10:34 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	<.00000	ppb	.3119	18.749
Ag	22.005	ppb	2.766	12.571
Al	7.0254	ppb	1.5556	22.142
As	20.008	ppb	.283	1.4125
Au	.64336	ppb	.17059	26.515
B_	.67342	ppb	.22959	34.094
Ba	<.00000	ppb	.29519	73.268
Be	9.7781	ppb	.0104	.10674
Ca	<.00000	ppb	4.581	5.4525
Cd	9.7205	ppb	.0196	.20179
Co	96.225	ppb	.198	.20558
Cr	18.752	ppb	6.437	34.327
Cu	50.617	ppb	2.116	4.1797
Fe	<.00000	ppb	.11291	13.982
K_	<.00000	ppb	.55642	425.61
Li	3.6131	ppb	64.9172	1,796.7
Mg	<.00000	ppb	14.254	50.088
Mn	28.400	ppb	.131	.46300
Mo	.10052	ppb	.01961	19.514
Na	<.00000	ppb	65.426	395.74
Ni	79.854	ppb	.269	.33731
Pb	6.5939	ppb	.4478	6.7905
Pd	8.1451	ppb	8.8612	108.79
Sb	117.99	ppb	.08	.06768
Se	8.6548	ppb	1.3005	15.027
Si	<.00000	ppb	2.5155	78.627

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 9/7/2017 3:30 pm

CRI-1

Acquire Date: 01-Sep-2017 10:34 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Sn	.10800	ppb	.06790	62.872
Sr	1.8453	ppb	1.1741	63.624
Ti	1.9067	ppb	1.9694	103.29
Tl	18.456	ppb	.193	1.0472
V_	91.473	ppb	3.556	3.8878
Zn	39.885	ppb	.009	.02228
Zr	2.1472	ppb	.8628	40.183

ICSA-1

Acquire Date: 01-Sep-2017 11:01 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	20.598	ppb	3.763	18.271
Ag	<.00000	ppb	2.833	6.4370
Al	501950.	ppb	19	.00388
As	<.00000	ppb	2.4	.19773
Au	174.39	ppb	.30	.16919
B_	<.00000	ppb	.79	.46845
Ba	1.0099	ppb	.1250	12.382
Be	2.4709	ppb	.1227	4.9654
Ca	433530.	ppb	563	.12983
Cd	<.00000	ppb	.12566	16.972
Co	.90416	ppb	.05009	5.5403
Cr	<.00000	ppb	.1763	4.7602
Cu	<.00000	ppb	.861	2.9632
Fe	128110.	ppb	1,237	.96585
K_	<.00000	ppb	3.5842	83.646
Li	<.00000	ppb	121.5	5.5709
Mg	517010.	ppb	863	.16698
Mn	<.00000	ppb	.0548	.88647
Mo	<.00000	ppb	.1317	3.3690
Na	<.00000	ppb	56.1379	3,683.6
Ni	<.00000	ppb	.021	.10280
Pb	<.00000	ppb	1.592	1.8991
Pd	<.00000	ppb	16.853	81.548
Sb	<.00000	ppb	.4102	9.7324
Se	<.00000	ppb	1.575	3.2424
Si	<.00000	ppb	17.216	92.683
Sn	.09601	ppb	.15282	159.17
Sr	10.494	ppb	1.205	11.484

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 9/7/2017 3:30 pm

ICSA-1

Acquire Date: 01-Sep-2017 11:01 am

Sample Type: Unknown

Correction Factor: 1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Ti	<.00000	ppb	.205	1.2473
Tl	<.00000	ppb	.4085	4.6503
V_	<.00000	ppb	3.055	10.482
Zn	<.00000	ppb	.157	.89730
Zr	<.00000	ppb	.9899	45.923

ICSAB-1

Acquire Date: 01-Sep-2017 11:06 am

Sample Type: Unknown

Correction Factor: 1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	21.127	ppb	1.430	6.7667
Ag	1016.7	ppb	5.3	.52567
Al	477150.	ppb	1,367	.28653
As	<.00000	ppb	4.4	.36933
Au	174.93	ppb	1.36	.77970
B_	<.00000	ppb	.74	.45427
Ba	497.54	ppb	1.10	.22095
Be	490.09	ppb	.96	.19655
Ca	411210.	ppb	444	.10798
Cd	872.40	ppb	.74	.08508
Co	418.18	ppb	.94	.22525
Cr	575.27	ppb	14.49	2.5181
Cu	527.56	ppb	2.53	.47962
Fe	122930.	ppb	745	.60587
K_	<.00000	ppb	6.0278	76.607
Li	<.00000	ppb	124.3	6.1665
Mg	490510.	ppb	377	.07684
Mn	433.32	ppb	.21	.04840
Mo	<.00000	ppb	.0049	.25474
Na	<.00000	ppb	71.7552	5,900.2
Ni	940.77	ppb	.47	.04993
Pb	826.70	ppb	.83	.09982
Pd	<.00000	ppb	1.329	2.6682
Sb	3.6177	ppb	.6992	19.327
Se	<.00000	ppb	.523	1.2068
Si	<.00000	ppb	2.516	12.407
Sn	.06005	ppb	.16972	282.63
Sr	8.2102	ppb	.5218	6.3555
Ti	<.00000	ppb	1.939	13.797
Tl	<.00000	ppb	1.496	9.7863

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

ICSAB-1

Acquire Date: 01-Sep-2017 11:06 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
V_	448.50	ppb	3.89	.86827
Zn	849.12	ppb	.52	.06145
Zr	<.00000	ppb	.8283	20.821

CCV-1

Acquire Date: 01-Sep-2017 11:11 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	1922.7	ppb	12.3	.63997
Ag	509.57	ppb	4.64	.90984
Al	2057.5	ppb	6.3	.30654
As	1941.8	ppb	2.2	.11540
Au	14.794	ppb	.341	2.3081
B_	2101.0	ppb	2.5	.11952
Ba	2068.5	ppb	14.7	.71048
Be	2032.4	ppb	17.7	.87130
Ca	1955.0	ppb	15.8	.80941
Cd	2005.6	ppb	.2	.01096
Co	1974.8	ppb	3.8	.19205
Cr	1989.3	ppb	18.4	.92515
Cu	2071.1	ppb	18.1	.87480
Fe	1996.4	ppb	.4	.01957
K_	9632.0	ppb	34.9	.36231
Li	1999.4	ppb	82.4	4.1212
Mg	1949.8	ppb	6.5	.33292
Mn	1953.3	ppb	1.1	.05577
Mo	2012.4	ppb	2.8	.14084
Na	1895.9	ppb	10.9	.57643
Ni	2038.8	ppb	3.1	.14991
Pb	2017.2	ppb	3.0	.14692
Pd	<.00000	ppb	9.749	16.041
Sb	2011.4	ppb	1.6	.07744
Se	1918.8	ppb	2.6	.13693
Si	4729.4	ppb	79.8	1.6881
Sn	1971.5	ppb	.4	.01871
Sr	2034.2	ppb	20.5	1.0100
Ti	<.00000	ppb	.09081	22.311
Tl	1959.2	ppb	3.6	.18432
V_	1986.0	ppb	15.5	.78254
Zn	2010.2	ppb	2.8	.13768

Color Legend: Pass/Unchecked Internal Standard Check Fail Check Warn

CCV-1

Acquire Date: 01-Sep-2017 11:11 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Zr	1.6841	ppb	2.1392	127.02

CCB-1

Acquire Date: 01-Sep-2017 11:17 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	.07353	ppb	3.39149	4,612.6
Ag	<.00000	ppb	.7539	54.708
Al	<.00000	ppb	6.4731	207.31
As	<.00000	ppb	.59645	60.628
Au	.25586	ppb	.53008	207.18
B_	3.4244	ppb	2.1385	62.449
Ba	<.00000	ppb	.00756	1.8517
Be	<.00000	ppb	.02397	37.906
Ca	<.00000	ppb	2.434	3.1932
Cd	.15590	ppb	.08196	52.574
Co	<.00000	ppb	.22394	3,417.5
Cr	1.9948	ppb	7.9547	398.78
Cu	.10715	ppb	2.71903	2,537.6
Fe	<.00000	ppb	.18207	110.68
K_	1.9346	ppb	9.1355	472.22
Li	<.00000	ppb	52.6123	903.40
Mg	<.00000	ppb	9.782	33.445
Mn	.07302	ppb	.11262	154.24
Mo	1.6502	ppb	1.3483	81.705
Na	6.1334	ppb	69.4324	1,132.0
Ni	.12140	ppb	.00605	4.9848
Pb	.51172	ppb	.85994	168.05
Pd	4.6987	ppb	10.1902	216.87
Sb	<.00000	ppb	.57325	135.06
Se	<.00000	ppb	.53620	568.63
Si	1.7800	ppb	25.6625	1,441.7
Sn	.21599	ppb	.86579	400.85
Sr	5.7193	ppb	1.1732	20.513
Ti	1.8425	ppb	1.7573	95.374
Tl	<.00000	ppb	.55498	59.123
V_	<.00000	ppb	1.1711	101.54
Zn	<.00000	ppb	.03700	569.15
Zr	1.4885	ppb	.4148	27.866

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 9/7/2017 3:30 pm

MB-W

Acquire Date: 01-Sep-2017 12:05 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	118.97	ppb	3.93	3.3015
Ag	.44456	ppb	2.07461	466.67
Al	<.00000	ppb	3.6631	177.98
As	.69176	ppb	.05573	8.0560
Au	1.4864	ppb	.5290	35.588
B_	11.986	ppb	.184	1.5331
Ba	.41948	ppb	.28908	68.916
Be	<.00000	ppb	.01788	28.269
Ca	<.00000	ppb	9.305	11.363
Cd	.03397	ppb	.00564	16.607
Co	<.00000	ppb	.07773	197.97
Cr	<.00000	ppb	11.7525	374.70
Cu	<.00000	ppb	1.190	10.498
Fe	<.00000	ppb	.04218	6.3625
K_	8.6556	ppb	8.4386	97.494
Li	<.00000	ppb	39.583	51.576
Mg	<.00000	ppb	4.472	10.427
Mn	<.00000	ppb	.00613	1,344.2
Mo	.05546	ppb	.04416	79.622
Na	47.076	ppb	35.808	76.065
Ni	.02556	ppb	.15356	600.66
Pb	.48776	ppb	.79140	162.25
Pd	<.00000	ppb	19.4944	1,555.1
Sb	<.00000	ppb	.43668	107.74
Se	.25589	ppb	1.13899	445.12
Si	<.00000	ppb	4.5274	424.49
Sn	<.00000	ppb	.28845	120.18
Sr	<.00000	ppb	6.4159	124.21
Ti	1.1569	ppb	.3636	31.427
Tl	<.00000	ppb	1.4479	68.449
V_	<.00000	ppb	3.55596	668.11
Zn	.04556	ppb	.03285	72.107
Zr	2.8795	ppb	1.4840	51.538

LCS-W

Acquire Date: 01-Sep-2017 12:11 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 9/7/2017 3:30 pm

LCS-W

Acquire Date: 01-Sep-2017 12:11 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	2016.5	ppb	5.2	.25697
Ag	508.92	ppb	9.38	1.8424
Al	2090.2	ppb	9.0	.42909
As	1985.6	ppb	7.1	.35840
Au	17.071	ppb	.076	.44444
B_	2153.7	ppb	5.3	.24565
Ba	2046.2	ppb	16.5	.80530
Be	2106.4	ppb	13.9	.66180
Ca	2147.5	ppb	20.1	.93504
Cd	1994.0	ppb	7.9	.39813
Co	2006.8	ppb	5.8	.29114
Cr	1987.0	ppb	25.2	1.2696
Cu	2130.6	ppb	9.0	.42264
Fe	2068.6	ppb	10.7	.51691
K_	9822.5	ppb	11.0	.11237
Li	2070.4	ppb	72.7	3.5114
Mg	1960.3	ppb	15.7	.80022
Mn	2037.5	ppb	9.2	.45322
Mo	2126.3	ppb	7.9	.37311
Na	2086.6	ppb	9.1	.43471
Ni	2097.5	ppb	4.7	.22563
Pb	2075.4	ppb	6.9	.33425
Pd	<.00000	ppb	11.964	18.999
Sb	1999.2	ppb	7.6	.37905
Se	1944.7	ppb	1.5	.07737
Si	9881.1	ppb	70.6	.71460
Sn	2053.7	ppb	8.7	.42178
Sr	2095.4	ppb	5.9	.28193
Ti	.42846	ppb	.24235	56.564
Tl	1935.7	ppb	8.0	.41443
V_	2026.9	ppb	4.0	.19783
Zn	1996.2	ppb	5.3	.26508
Zr	3.4162	ppb	.5865	17.167

170821039-001B

Acquire Date: 01-Sep-2017 12:14 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	157100.	ppb	678	.43173
Ag	1.8225	ppb	2.1373	117.28

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 9/7/2017 3:30 pm

170821039-001B

Acquire Date: 01-Sep-2017 12:14 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Al	<.00000	ppb	2.25	1.3551
As	4.9206	ppb	.5143	10.453
Au	.34755	ppb	.43541	125.28
B_	32253.	ppb	30	.09374
Ba	19.350	ppb	.259	1.3372
Be	<.00000	ppb	.01050	5.7626
Ca	83750.	ppb	200	.23905
Cd	<.00000	ppb	.02826	18.857
Co	.63586	ppb	.03701	5.8209
Cr	16.920	ppb	.113	.66687
Cu	<.00000	ppb	2.9218	195.19
Fe	43.950	ppb	.176	.40099
K_	4439.2	ppb	11.5	.25867
Li	<.00000	ppb	67.43	10.403
Mg	27505.	ppb	80	.29002
Mn	746.56	ppb	3.92	.52526
Mo	1.5875	ppb	.4069	25.629
Na	125310.	ppb	498	.39756
Ni	2.5679	ppb	.0090	.35019
Pb	.10017	ppb	.24296	242.55
Pd	<.00000	ppb	3.1012	76.137
Sb	<.00000	ppb	.1365	12.216
Se	<.00000	ppb	.8444	30.614
Si	8514.1	ppb	16.8	.19748
Sn	.55209	ppb	.72979	132.19
Sr	452.28	ppb	9.14	2.0216
Ti	<.00000	ppb	.81813	181.82
Tl	<.00000	ppb	.56	.49054
V_	<.00000	ppb	2.3428	50.549
Zn	37.159	ppb	.128	.34509
Zr	.31675	ppb	2.14016	675.65

170821039-001BDP

Acquire Date: 01-Sep-2017 12:20 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	155330.	ppb	1,005	.64682
Ag	4.5301	ppb	1.9553	43.164
Al	<.00000	ppb	3.64	2.2318
As	2.9671	ppb	.0747	2.5179

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 9/7/2017 3:30 pm

170821039-001BDP

Acquire Date: 01-Sep-2017 12:20 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Au	.20036	ppb	.34082	170.10
B_	34068.	ppb	122	.35842
Ba	22.046	ppb	.378	1.7137
Be	<.00000	ppb	.07078	35.796
Ca	83614.	ppb	319	.38189
Cd	<.00000	ppb	.00283	2.7730
Co	.45400	ppb	.05366	11.819
Cr	14.145	ppb	1.994	14.099
Cu	.12076	ppb	.37800	313.01
Fe	29.416	ppb	.074	.25297
K_	4476.9	ppb	51.6	1.1523
Li	<.00000	ppb	6.52	.96825
Mg	27705.	ppb	117	.42055
Mn	692.74	ppb	3.15	.45511
Mo	.09362	ppb	.05882	62.832
Na	124220.	ppb	246	.19801
Ni	2.6637	ppb	.0602	2.2611
Pb	.44894	ppb	.26116	58.174
Pd	<.00000	ppb	13.730	132.77
Sb	<.00000	ppb	1.25567	311.28
Se	<.00000	ppb	.5496	13.707
Si	8629.2	ppb	24.2	.28078
Sn	.78012	ppb	.71283	91.375
Sr	442.83	ppb	1.32	.29905
Ti	<.00000	ppb	.51755	114.62
Tl	<.00000	ppb	1.25	1.1114
V_	<.00000	ppb	.54649	1,149.4
Zn	39.524	ppb	.212	.53512
Zr	.99108	ppb	1.67072	168.58

170821039-001BMS

Acquire Date: 01-Sep-2017 12:31 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	155840.	ppb	1,645	1.0558
Ag	50.811	ppb	2.013	3.9613
Al	2040.3	ppb	1.3	.06134
As	37.585	ppb	.683	1.8185
Au	3.7349	ppb	.4163	11.146
B_	32844.	ppb	90	.27491

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 9/7/2017 3:30 pm

170821039-001BMS

Acquire Date: 01-Sep-2017 12:31 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Ba	2119.2	ppb	13.8	.65271
Be	56.486	ppb	.262	.46433
Ca	85437.	ppb	542	.63478
Cd	50.789	ppb	.097	.19170
Co	484.76	ppb	1.10	.22632
Cr	232.54	ppb	2.51	1.0805
Cu	276.59	ppb	.49	.17885
Fe	1054.3	ppb	.9	.08803
K_	4536.5	ppb	25.8	.56796
Li	<.00000	ppb	44.47	6.6689
Mg	28223.	ppb	108	.38361
Mn	1137.6	ppb	1.1	.09957
Mo	.93242	ppb	.25488	27.335
Na	125250.	ppb	5	.00436
Ni	503.66	ppb	1.75	.34714
Pb	19.607	ppb	.307	1.5672
Pd	<.00000	ppb	13.292	39.286
Sb	522.78	ppb	.64	.12278
Se	8.2075	ppb	.5627	6.8555
Si	8705.1	ppb	37.5	.43080
Sn	.86411	ppb	.32245	37.316
Sr	463.70	ppb	3.38	.72876
Ti	<.00000	ppb	1.9997	95.249
Tl	<.00000	ppb	.292	.30189
V_	539.06	ppb	4.21	.78124
Zn	562.04	ppb	.67	.11938
Zr	.85435	ppb	1.24281	145.47

170821039-001BA

Acquire Date: 01-Sep-2017 12:34 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	154230.	ppb	223	.14456
Ag	97.476	ppb	.508	.52124
Al	4376.8	ppb	17.1	.39062
As	74.195	ppb	.791	1.0664
Au	8.9032	ppb	.7574	8.5071
B_	31555.	ppb	1	.00400
Ba	4313.9	ppb	12.6	.29194
Be	116.38	ppb	.36	.30719

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 9/7/2017 3:30 pm

170821039-001BA

Acquire Date: 01-Sep-2017 12:34 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Ca	83607.	ppb	197	.23550
Cd	104.27	ppb	.08	.07720
Co	987.92	ppb	.22	.02269
Cr	471.42	ppb	1.34	.28371
Cu	565.80	ppb	1.86	.32914
Fe	2109.4	ppb	.8	.03572
K_	4454.0	ppb	24.5	.55017
Li	<.00000	ppb	41.33	6.7101
Mg	27567.	ppb	49	.17674
Mn	1727.5	ppb	.6	.03250
Mo	2.4229	ppb	.1863	7.6880
Na	123140.	ppb	332	.26932
Ni	1024.7	ppb	.2	.02401
Pb	40.351	ppb	.500	1.2396
Pd	<.00000	ppb	8.445	27.214
Sb	1057.0	ppb	.7	.06458
Se	19.249	ppb	1.247	6.4757
Si	8540.5	ppb	16.4	.19181
Sn	<.00000	ppb	.10183	56.584
Sr	447.46	ppb	4.49	1.0027
Ti	<.00000	ppb	.3669	14.504
Tl	<.00000	ppb	2.846	3.9470
V_	1102.3	ppb	1.3	.12040
Zn	1106.8	ppb	.7	.06507
Zr	.26197	ppb	.28766	109.81

CCV-2

Acquire Date: 01-Sep-2017 12:38 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	2144.3	ppb	8.1	.37929
Ag	517.96	ppb	.50	.09655
Al	2135.2	ppb	6.1	.28494
As	2108.6	ppb	5.6	.26759
Au	17.847	ppb	.645	3.6113
B_	1916.2	ppb	14.2	.74195
Ba	2088.9	ppb	1.4	.06528
Be	2140.8	ppb	6.9	.32023
Ca	2092.5	ppb	8.3	.39738
Cd	2132.2	ppb	.6	.02586

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 9/7/2017 3:30 pm

CCV-2

Acquire Date: 01-Sep-2017 12:38 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Co	2129.9	ppb	2.5	.11947
Cr	2005.1	ppb	1.0	.04985
Cu	2115.3	ppb	.1	.00658
Fe	2129.9	ppb	2.6	.12168
K_	9953.3	ppb	22.7	.22830
Li	2065.4	ppb	40.8	1.9760
Mg	2034.3	ppb	6.2	.30284
Mn	2087.3	ppb	3.1	.14808
Mo	2139.2	ppb	2.6	.12386
Na	2003.5	ppb	5.7	.28266
Ni	2057.3	ppb	3.5	.17022
Pb	2098.8	ppb	1.0	.04666
Pd	<.00000	ppb	5.760	7.4438
Sb	2144.9	ppb	.8	.03537
Se	2096.5	ppb	5.9	.27913
Si	4980.1	ppb	38.7	.77729
Sn	2168.1	ppb	3.3	.15076
Sr	2172.7	ppb	11.7	.53983
Ti	.34272	ppb	.06059	17.678
Tl	2135.9	ppb	6.5	.30209
V_	2082.8	ppb	2.8	.13605
Zn	2152.2	ppb	1.4	.06486
Zr	<.00000	ppb	.03461	5.4499

CCB-2

Acquire Date: 01-Sep-2017 12:50 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	61.617	ppb	.441	.71595
Ag	2.8005	ppb	.8801	31.425
Al	<.00000	ppb	17.9644	375.01
As	<.00000	ppb	.73938	315.83
Au	1.7150	ppb	.9284	54.132
B_	7.2310	ppb	.1498	2.0716
Ba	.20965	ppb	1.13321	540.51
Be	<.00000	ppb	.06563	84.216
Ca	<.00000	ppb	3.865	4.8153
Cd	.03698	ppb	.01555	42.046
Co	.00261	ppb	.01110	425.00
Cr	<.00000	ppb	2.7815	76.652

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 9/7/2017 3:30 pm

CCB-2

Acquire Date: 01-Sep-2017 12:50 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Cu	<.00000	ppb	1.20833	226.57
Fe	<.00000	ppb	.10537	12.971
K_	6.0334	ppb	2.7826	46.119
Li	<.00000	ppb	53.653	81.241
Mg	<.00000	ppb	11.180	36.032
Mn	<.00000	ppb	.00097	4.0827
Mo	.37091	ppb	.07844	21.149
Na	5.2346	ppb	59.1688	1,130.3
Ni	<.00000	ppb	.03908	43.720
Pb	<.00000	ppb	.06913	31.706
Pd	<.00000	ppb	6.203	61.871
Sb	1.4288	ppb	.0818	5.7249
Se	<.00000	ppb	.18779	47.203
Si	<.00000	ppb	4.0232	56.570
Sn	<.00000	ppb	.23768	79.196
Sr	5.7197	ppb	6.1311	107.19
Ti	1.2426	ppb	1.3331	107.29
Tl	<.00000	ppb	1.2302	50.425
V_	5.1481	ppb	.7101	13.793
Zn	<.00000	ppb	.04387	15.807
Zr	<.00000	ppb	.0688	5.1207

170821039-001BL

Acquire Date: 01-Sep-2017 12:54 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	30693.	ppb	130	.42406
Ag	<.00000	ppb	.7643	51.845
Al	<.00000	ppb	5.533	6.5048
As	2.0891	ppb	.0070	.33364
Au	1.0035	ppb	.1134	11.297
B_	5617.0	ppb	40.5	.72153
Ba	3.5553	ppb	.6643	18.686
Be	<.00000	ppb	.09911	73.787
Ca	17735.	ppb	15	.08198
Cd	<.00000	ppb	.05228	75.832
Co	.22372	ppb	.00925	4.1327
Cr	5.4978	ppb	3.2186	58.544
Cu	<.00000	ppb	2.79894	358.06
Fe	7.4685	ppb	.2383	3.1909

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 9/7/2017 3:30 pm

170821039-001BL

Acquire Date: 01-Sep-2017 12:54 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
K_	700.22	ppb	3.95	.56452
Li	<.00000	ppb	55.47	21.325
Mg	5506.4	ppb	6.5	.11738
Mn	154.94	ppb	1.14	.73368
Mo	.18721	ppb	.21078	112.59
Na	28844.	ppb	16	.05697
Ni	.75386	ppb	.01505	1.9961
Pb	1.2728	ppb	.4645	36.497
Pd	<.00000	ppb	23.4843	241.83
Sb	.77299	ppb	.90075	116.53
Se	<.00000	ppb	.8579	20.664
Si	1763.7	ppb	12.2	.69032
Sn	.38407	ppb	.89951	234.20
Sr	93.048	ppb	15.875	17.061
Ti	1.2421	ppb	.1811	14.581
Tl	<.00000	ppb	1.327	4.6633
V_	<.00000	ppb	1.1283	18.173
Zn	7.6264	ppb	.0706	.92601
Zr	.55226	ppb	.95422	172.78

170821039-002B

Acquire Date: 01-Sep-2017 1:11 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	6991.6	ppb	52.4	.74906
Ag	2.0894	ppb	.3772	18.054
Al	<.00000	ppb	3.312	4.9360
As	.22506	ppb	.76536	340.07
Au	<.00000	ppb	.2272	6.5504
B_	1307.0	ppb	4.8	.37077
Ba	35.838	ppb	.172	.48086
Be	<.00000	ppb	.05963	22.272
Ca	94139.	ppb	636	.67596
Cd	.03397	ppb	.00283	8.3176
Co	.71960	ppb	.00371	.51500
Cr	14.934	ppb	2.845	19.048
Cu	<.00000	ppb	3.17316	1,808.3
Fe	384.05	ppb	.97	.25213
K_	847.16	ppb	1.34	.15860
Li	<.00000	ppb	63.26	12.087

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

170821039-002B

Acquire Date: 01-Sep-2017 1:11 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Mg	19199.	ppb	36	.18767
Mn	20.717	ppb	.054	.25926
Mo	.64127	ppb	.20588	32.105
Na	6974.4	ppb	17.9	.25622
Ni	.63034	ppb	.10538	16.717
Pb	.42444	ppb	.70415	165.90
Pd	9.7115	ppb	4.8736	50.184
Sb	<.00000	ppb	.46406	606.92
Se	<.00000	ppb	.0938	1.8852
Si	8556.2	ppb	13.1	.15300
Sn	.28807	ppb	.22064	76.590
Sr	291.95	ppb	1.83	.62569
Ti	.10713	ppb	.03030	28.280
Tl	<.00000	ppb	.0483	1.4744
V_	.77326	ppb	1.88288	243.50
Zn	43.051	ppb	.211	.49070
Zr	2.3182	ppb	2.5538	110.16

170821039-003B

Acquire Date: 01-Sep-2017 1:15 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	7255.4	ppb	21.6	.29712
Ag	4.8454	ppb	2.2634	46.712
Al	<.00000	ppb	10.7887	760.15
As	1.8539	ppb	1.0373	55.955
Au	<.00000	ppb	.1702	7.3874
B_	1326.5	ppb	7.0	.52578
Ba	36.075	ppb	.221	.61350
Be	<.00000	ppb	.00890	11.733
Ca	95546.	ppb	10	.01071
Cd	<.00000	ppb	.01130	564.76
Co	.77453	ppb	.08878	11.463
Cr	13.783	ppb	3.062	22.218
Cu	.39228	ppb	.85699	218.46
Fe	583.97	ppb	4.28	.73318
K_	926.16	ppb	4.07	.43898
Li	<.00000	ppb	71.79	13.220
Mg	19452.	ppb	21	.10622
Mn	31.562	ppb	.196	.62233

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 9/7/2017 3:30 pm

170821039-003B

Acquire Date: 01-Sep-2017 1:15 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Mo	.66900	ppb	.19608	29.310
Na	7250.0	ppb	8.2	.11325
Ni	.84723	ppb	.17754	20.956
Pb	.11724	ppb	.37829	322.67
Pd	<.00000	ppb	31.458	154.47
Sb	.21220	ppb	.60030	282.90
Se	<.00000	ppb	1.6217	28.281
Si	8737.8	ppb	33.1	.37845
Sn	.14406	ppb	.25459	176.72
Sr	301.27	ppb	1.18	.39133
Ti	3.6635	ppb	.5756	15.713
Tl	<.00000	ppb	2.1464	67.304
V_	<.00000	ppb	1.2545	30.076
Zn	50.493	ppb	.572	1.1321
Zr	1.4883	ppb	.2068	13.897

170821039-004B

Acquire Date: 01-Sep-2017 1:24 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	89250.	ppb	48	.05398
Ag	2.0009	ppb	2.7672	138.30
Al	<.00000	ppb	8.01	6.0167
As	1.3095	ppb	.8184	62.499
Au	<.00000	ppb	.0377	1.0325
B_	17707.	ppb	82	.46229
Ba	96.142	ppb	.052	.05416
Be	<.00000	ppb	.01679	307.25
Ca	98974.	ppb	221	.22338
Cd	<.00000	ppb	.00424	4.1206
Co	.53379	ppb	.01479	2.7702
Cr	4.6106	ppb	.2437	5.2846
Cu	.52875	ppb	1.10511	209.00
Fe	265.89	ppb	1.16	.43636
K_	2194.4	ppb	6.5	.29536
Li	<.00000	ppb	10.92	1.5045
Mg	31563.	ppb	125	.39724
Mn	135.79	ppb	.90	.66098
Mo	4.5579	ppb	.0393	.86301
Na	79439.	ppb	151	.19063

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 9/7/2017 3:30 pm

170821039-004B

Acquire Date: 01-Sep-2017 1:24 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Ni	1.2734	ppb	.3462	27.188
Pb	.58740	ppb	.08949	15.235
Pd	<.00000	ppb	38.547	148.24
Sb	<.00000	ppb	.54582	62.955
Se	<.00000	ppb	1.4475	28.924
Si	9154.7	ppb	37.4	.40876
Sn	.79210	ppb	.35639	44.993
Sr	434.99	ppb	4.77	1.0961
Ti	<.00000	ppb	.87820	132.28
Tl	<.00000	ppb	1.763	2.1224
V_	<.00000	ppb	1.75724	181.44
Zn	14.340	ppb	.044	.30890
Zr	1.5382	ppb	2.6937	175.12

170821039-005B

Acquire Date: 01-Sep-2017 1:41 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	5845.7	ppb	52.0	.88902
Ag	3.4240	ppb	.3762	10.987
Al	68.400	ppb	2.869	4.1942
As	1.0306	ppb	.6189	60.052
Au	<.00000	ppb	.5680	19.369
B_	402.11	ppb	17.80	4.4262
Ba	73.314	ppb	.492	.67141
Be	<.00000	ppb	.05102	25.702
Ca	91280.	ppb	1,036	1.1348
Cd	.08092	ppb	.01272	15.713
Co	.84651	ppb	.12397	14.644
Cr	155.09	ppb	3.17	2.0464
Cu	8.2273	ppb	2.4143	29.346
Fe	442.88	ppb	3.01	.68071
K_	1859.6	ppb	8.8	.47368
Li	<.00000	ppb	63.47	13.046
Mg	22797.	ppb	181	.79314
Mn	67.837	ppb	.463	.68184
Mo	1.2271	ppb	.1324	10.786
Na	5830.9	ppb	35.7	.61234
Ni	3.9104	ppb	.1626	4.1577
Pb	1.7802	ppb	.2872	16.133

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

170821039-005B

Acquire Date: 01-Sep-2017 1:41 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Pd	8.7725	ppb	23.9224	272.70
Sb	1.6590	ppb	.3549	21.391
Se	<.00000	ppb	.0402	1.2369
Si	7925.9	ppb	59.8	.75503
Sn	.32408	ppb	.33944	104.74
Sr	293.66	ppb	4.01	1.3640
Ti	3.6848	ppb	.4849	13.159
Tl	2.5755	ppb	.8925	34.652
V_	<.00000	ppb	.5020	30.776
Zn	15.582	ppb	.012	.07512
Zr	2.4423	ppb	2.1031	86.111

170821039-009B

Acquire Date: 01-Sep-2017 1:46 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	118650.	ppb	373	.31478
Ag	1.4673	ppb	3.5201	239.91
Al	33.919	ppb	12.292	36.239
As	2.5823	ppb	1.1023	42.689
Au	52.967	ppb	.852	1.6080
B_	30100.	ppb	101	.33602
Ba	29.535	ppb	.418	1.4155
Be	<.00000	ppb	.06124	63.811
Ca	74307.	ppb	379	.50943
Cd	<.00000	ppb	.05793	58.568
Co	3.7589	ppb	.0351	.93464
Cr	14.104	ppb	.892	6.3220
Cu	7.3665	ppb	1.3088	17.767
Fe	245.58	ppb	.17	.06917
K_	5483.4	ppb	25.2	.45945
Li	<.00000	ppb	1.19	.23346
Mg	31735.	ppb	101	.31871
Mn	9288.0	ppb	28.4	.30597
Mo	3.9896	ppb	.2157	5.4056
Na	98480.	ppb	762	.77360
Ni	28.377	ppb	.202	.71160
Pb	3.0782	ppb	.3069	9.9691
Pd	<.00000	ppb	3.988	36.370
Sb	<.00000	ppb	.13633	17.646

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 9/7/2017 3:30 pm

170821039-009B

Acquire Date: 01-Sep-2017 1:46 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Se	.10405	ppb	.04019	38.626
Si	8643.9	ppb	40.1	.46414
Sn	.88813	ppb	.11880	13.377
Sr	556.59	ppb	13.72	2.4653
Ti	<.00000	ppb	.1213	9.4403
Tl	<.00000	ppb	1.06	.89135
V_	<.00000	ppb	8.8283	744.97
Zn	125.39	ppb	.50	.40060
Zr	1.7329	ppb	.6205	35.809

CCV-3

Acquire Date: 01-Sep-2017 2:18 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	1957.8	ppb	2.9	.14983
Ag	509.44	ppb	.92	.17969
Al	2053.3	ppb	7.4	.36235
As	2013.2	ppb	10.8	.53892
Au	17.191	ppb	.436	2.5336
B_	2141.1	ppb	8.0	.37460
Ba	2038.0	ppb	6.2	.30254
Be	2058.6	ppb	10.4	.50668
Ca	2004.0	ppb	9.7	.48434
Cd	2036.0	ppb	10.1	.49813
Co	2016.3	ppb	5.4	.26539
Cr	1946.1	ppb	.7	.03790
Cu	2065.5	ppb	8.1	.39093
Fe	2035.8	ppb	5.9	.29220
K_	9536.4	ppb	7.4	.07745
Li	2014.0	ppb	56.0	2.7804
Mg	1967.0	ppb	13.5	.68765
Mn	1998.0	ppb	8.0	.39926
Mo	2042.1	ppb	7.4	.36421
Na	1837.5	ppb	6.2	.33907
Ni	2087.8	ppb	9.1	.43770
Pb	2075.2	ppb	6.2	.30061
Pd	<.00000	ppb	22.149	43.643
Sb	2050.1	ppb	9.7	.47378
Se	1987.6	ppb	8.6	.43073
Si	4816.9	ppb	26.9	.55920

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 9/7/2017 3:30 pm

CCV-3

Acquire Date: 01-Sep-2017 2:18 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Sn	2047.9	ppb	7.4	.36362
Sr	2085.2	ppb	10.7	.51231
Ti	<.00000	ppb	2.12094	825.00
Tl	2040.0	ppb	8.4	.41125
V_	2023.0	ppb	.3	.01380
Zn	2045.9	ppb	6.0	.29329
Zr	.43956	ppb	.24251	55.171

CCB-3

Acquire Date: 01-Sep-2017 2:45 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	6.6165	ppb	1.5984	24.157
Ag	<.00000	ppb	2.38867	282.86
Al	<.00000	ppb	2.6594	129.21
As	.82642	ppb	1.05715	127.92
Au	.30770	ppb	.00038	.12197
B_	8.7538	ppb	.0939	1.0732
Ba	.03126	ppb	.13958	446.59
Be	<.00000	ppb	.00454	4.5373
Ca	<.00000	ppb	4.580	6.2331
Cd	.08792	ppb	.01414	16.077
Co	<.00000	ppb	.00370	7.4494
Cr	<.00000	ppb	.5539	26.636
Cu	<.00000	ppb	1.5119	98.728
Fe	<.00000	ppb	.03587	4.0538
K_	<.00000	ppb	1.7625	70.729
Li	<.00000	ppb	46.349	215.41
Mg	<.00000	ppb	2.794	5.8190
Mn	<.00000	ppb	.01484	49.662
Mo	.17334	ppb	.23039	132.91
Na	<.00000	ppb	60.430	480.88
Ni	<.00000	ppb	.24386	190.90
Pb	<.00000	ppb	.17189	47.298
Pd	<.00000	ppb	3.544	24.591
Sb	<.00000	ppb	.27288	128.51
Se	.14209	ppb	1.54163	1,084.9
Si	4.2684	ppb	1.0031	23.501
Sn	.61211	ppb	.20368	33.274
Sr	1.1301	ppb	.6853	60.641

Color Legend: Pass/Unchecked Internal Standard Check Fail Check Warn

CCB-3

Acquire Date: 01-Sep-2017 2:45 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Ti	.12855	ppb	1.09077	848.50
Tl	<.00000	ppb	1.5194	53.990
V_	<.00000	ppb	2.0921	172.52
Zn	<.00000	ppb	.03403	9.3157
Zr	<.00000	ppb	.00044	.12000

CCV-4

Acquire Date: 01-Sep-2017 4:15 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	1938.8	ppb	14.4	.74390
Ag	502.39	ppb	3.39	.67543
Al	2043.0	ppb	38.3	1.8761
As	1988.6	ppb	7.9	.39690
Au	16.923	ppb	.738	4.3632
B_	2099.4	ppb	.8	.03643
Ba	2034.6	ppb	15.2	.74883
Be	2037.2	ppb	11.0	.54093
Ca	1981.0	ppb	5.0	.25256
Cd	2029.4	ppb	3.0	.14773
Co	1999.6	ppb	1.1	.05267
Cr	1937.0	ppb	18.0	.93031
Cu	2058.0	ppb	8.8	.42615
Fe	2029.8	ppb	1.9	.09131
K_	9518.4	ppb	109.4	1.1490
Li	2005.9	ppb	85.7	4.2701
Mg	1965.4	ppb	50.3	2.5593
Mn	1988.4	ppb	4.1	.20377
Mo	2017.3	ppb	1.1	.05375
Na	1930.5	ppb	11.5	.59797
Ni	2061.9	ppb	2.6	.12641
Pb	2052.3	ppb	2.4	.11792
Pd	<.00000	ppb	4.874	8.5010
Sb	2041.0	ppb	5.5	.26853
Se	1974.3	ppb	6.7	.33711
Si	4781.2	ppb	31.2	.65204
Sn	2029.5	ppb	2.1	.10255
Sr	2067.9	ppb	14.6	.70623
Ti	<.00000	ppb	.9999	52.437
Tl	2033.7	ppb	6.9	.33889

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

CCV-4

Acquire Date: 01-Sep-2017 4:15 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
V_	2005.4	ppb	2.5	.12681
Zn	2029.5	ppb	3.9	.19235
Zr	.92699	ppb	.37969	40.959

CCB-4

Acquire Date: 01-Sep-2017 4:13 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	9.5295	ppb	.9878	10.366
Ag	.93360	ppb	2.26289	242.38
Al	9.1541	ppb	5.2683	57.551
As	1.0827	ppb	1.5103	139.50
Au	.91159	ppb	.13357	14.652
B_	6.6591	ppb	1.7737	26.636
Ba	<.00000	ppb	.48311	68.397
Be	<.00000	ppb	.05505	42.462
Ca	<.00000	ppb	4.438	5.5286
Cd	.10194	ppb	.07633	74.878
Co	<.00000	ppb	.12768	150.11
Cr	<.00000	ppb	3.1222	92.673
Cu	<.00000	ppb	.4797	43.458
Fe	<.00000	ppb	.16779	21.003
K_	<.00000	ppb	2.8739	65.414
Li	<.00000	ppb	46.042	121.70
Mg	<.00000	ppb	1.397	2.9451
Mn	.01278	ppb	.03840	300.48
Mo	2.1079	ppb	1.9466	92.349
Na	6.1479	ppb	77.5754	1,261.8
Ni	.15754	ppb	.00905	5.7428
Pb	<.00000	ppb	.43001	82.424
Pd	<.00000	ppb	2.6588	32.640
Sb	1.5445	ppb	.0822	5.3207
Se	.70174	ppb	1.76921	252.12
Si	1.4239	ppb	14.0909	989.62
Sn	.51611	ppb	.23766	46.047
Sr	<.00000	ppb	5.2185	99.256
Ti	1.8210	ppb	.7574	41.593
Tl	.03377	ppb	1.06170	3,143.5
V_	<.00000	ppb	.33428	161.10
Zn	<.00000	ppb	.11155	28.291

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 9/7/2017 3:30 pm

CCB-4

Acquire Date: 01-Sep-2017 4:13 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Zr	.70759	ppb	.82887	117.14

CRI-2

Acquire Date: 01-Sep-2017 4:46 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	9.4747	ppb	2.4949	26.333
Ag	19.604	ppb	.754	3.8461
Al	4.2566	ppb	19.4174	456.17
As	19.221	ppb	.921	4.7929
Au	1.0576	ppb	.3028	28.629
B_	4.1511	ppb	.1234	2.9722
Ba	.18523	ppb	.44674	241.18
Be	9.6653	ppb	.0456	.47228
Ca	<.00000	ppb	6.584	7.8943
Cd	9.7985	ppb	.0464	.47376
Co	96.539	ppb	.211	.21869
Cr	16.468	ppb	5.095	30.941
Cu	47.600	ppb	2.691	5.6541
Fe	<.00000	ppb	.14510	17.806
K_	<.00000	ppb	3.4321	307.35
Li	<.00000	ppb	50.479	107.52
Mg	<.00000	ppb	19.842	48.271
Mn	28.453	ppb	.094	.32867
Mo	.21147	ppb	.17647	83.452
Na	<.00000	ppb	71.7212	1,965.8
Ni	80.661	ppb	.182	.22598
Pb	6.5571	ppb	.3619	5.5188
Pd	16.916	ppb	.887	5.2411
Sb	117.63	ppb	.19	.16437
Se	8.6062	ppb	.6168	7.1674
Si	15.999	ppb	11.576	72.355
Sn	.84014	ppb	.01697	2.0194
Sr	7.3782	ppb	5.6100	76.036
Ti	1.2427	ppb	.4242	34.135
Tl	18.131	ppb	.265	1.4616
V_	93.949	ppb	8.320	8.8554
Zn	39.985	ppb	.104	.26017
Zr	1.6117	ppb	1.2775	79.266

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

ICSA-2

Acquire Date: 01-Sep-2017 4:52 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	83.697	ppb	7.287	8.7068
Ag	<.00000	ppb	2.392	5.2182
Al	494820.	ppb	2,991	.60446
As	<.00000	ppb	9.0	.73544
Au	171.99	ppb	.13	.07280
B_	<.00000	ppb	.45	.28372
Ba	.37093	ppb	.47149	127.11
Be	2.4041	ppb	.0524	2.1805
Ca	434550.	ppb	4,304	.99051
Cd	<.00000	ppb	.07643	9.9081
Co	.92252	ppb	.04981	5.3996
Cr	<.00000	ppb	4.4240	170.16
Cu	<.00000	ppb	2.602	7.8637
Fe	128270.	ppb	357	.27851
K_	<.00000	ppb	.6966	14.856
Li	<.00000	ppb	127.0	5.8996
Mg	510040.	ppb	2,606	.51091
Mn	<.00000	ppb	.0490	.78646
Mo	<.00000	ppb	.3782	9.8642
Na	36.814	ppb	81.381	221.06
Ni	<.00000	ppb	.179	.89671
Pb	<.00000	ppb	1.956	2.3389
Pd	<.00000	ppb	1.770	5.2325
Sb	<.00000	ppb	.4742	11.767
Se	<.00000	ppb	1.054	2.1211
Si	<.00000	ppb	.498	3.5905
Sn	.15602	ppb	.06784	43.482
Sr	13.928	ppb	6.521	46.819
Ti	<.00000	ppb	.183	1.2718
Tl	<.00000	ppb	2.7242	31.253
V_	<.00000	ppb	2.478	7.8353
Zn	<.00000	ppb	.105	.59739
Zr	<.00000	ppb	3.3140	94.971

ICSAB-2

Acquire Date: 01-Sep-2017 4:56 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 9/7/2017 3:30 pm

ICSAB-2

Acquire Date: 01-Sep-2017 4:56 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	99.736	ppb	2.913	2.9203
Ag	1017.2	ppb	6.2	.61347
Al	478630.	ppb	3,900	.81487
As	<.00000	ppb	9.6	.80093
Au	177.19	ppb	.86	.48265
B_	<.00000	ppb	.51	.31498
Ba	495.70	ppb	2.25	.45449
Be	500.57	ppb	3.23	.64626
Ca	424600.	ppb	2,742	.64581
Cd	890.01	ppb	6.07	.68209
Co	431.34	ppb	3.03	.70192
Cr	565.85	ppb	8.39	1.4833
Cu	522.47	ppb	2.05	.39160
Fe	125990.	ppb	452	.35875
K_	<.00000	ppb	.928	6.8010
Li	<.00000	ppb	113.6	5.3588
Mg	493660.	ppb	4,620	.93593
Mn	442.61	ppb	2.09	.47153
Mo	<.00000	ppb	.3432	13.545
Na	57.527	ppb	61.924	107.64
Ni	976.91	ppb	6.42	.65759
Pb	856.84	ppb	4.18	.48755
Pd	<.00000	ppb	15.949	30.668
Sb	2.0360	ppb	.5938	29.166
Se	<.00000	ppb	1.368	2.8546
Si	<.00000	ppb	8.051	47.157
Sn	.87612	ppb	.30549	34.868
Sr	17.712	ppb	8.480	47.879
Ti	<.00000	ppb	.939	6.3061
Tl	<.00000	ppb	.361	2.1216
V_	458.80	ppb	6.05	1.3194
Zn	867.97	ppb	4.33	.49864
Zr	<.00000	ppb	1.4498	42.131

CCV-5

Acquire Date: 01-Sep-2017 4:59 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	1987.4	ppb	6.8	.34404
Ag	502.21	ppb	2.00	.39892

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 9/7/2017 3:30 pm

CCV-5

Acquire Date: 01-Sep-2017 4:59 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Al	2059.8	ppb	3.8	.18686
As	2015.7	ppb	8.5	.42186
Au	17.512	ppb	.284	1.6217
B_	2132.8	ppb	1.6	.07309
Ba	2049.1	ppb	3.5	.16871
Be	2055.9	ppb	3.8	.18686
Ca	1988.7	ppb	10.1	.50929
Cd	2057.4	ppb	7.1	.34384
Co	2041.3	ppb	6.3	.30924
Cr	1953.8	ppb	13.7	.69943
Cu	2068.4	ppb	6.2	.29824
Fe	2058.8	ppb	13.8	.67252
K_	9653.1	ppb	2.7	.02778
Li	2044.4	ppb	41.9	2.0479
Mg	1964.0	ppb	2.0	.10135
Mn	2008.1	ppb	6.5	.32343
Mo	2048.4	ppb	2.8	.13570
Na	1878.2	ppb	19.8	1.0544
Ni	2094.6	ppb	5.1	.24561
Pb	2100.0	ppb	8.5	.40526
Pd	<.00000	ppb	15.064	60.105
Sb	2066.4	ppb	7.8	.37635
Se	2016.4	ppb	4.3	.21128
Si	4819.6	ppb	.1	.00175
Sn	2066.9	ppb	8.4	.40882
Sr	2083.1	ppb	1.7	.07969
Ti	<.00000	ppb	2.5753	135.06
Tl	2046.7	ppb	10.7	.52196
V_	2009.0	ppb	14.1	.70352
Zn	2067.6	ppb	4.5	.21554
Zr	.65870	ppb	.34483	52.350

CCB-5

Acquire Date: 01-Sep-2017 5:03 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	26.484	ppb	4.719	17.817
Ag	4.4456	ppb	3.0810	69.303
Al	10.608	ppb	13.747	129.60
As	<.00000	ppb	.4132	26.497

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 9/7/2017 3:30 pm

CCB-5

Acquire Date: 01-Sep-2017 5:03 pm

Sample Type: Unknown

Correction Factor: 1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Au	.52251	ppb	.11300	21.626
B_	6.2074	ppb	2.1718	34.988
Ba	<.00000	ppb	.29262	32.063
Be	<.00000	ppb	.01765	8.3688
Ca	<.00000	ppb	2.719	3.1795
Cd	.12690	ppb	.05227	41.191
Co	.03402	ppb	.04441	130.56
Cr	.19632	ppb	.71039	361.85
Cu	<.00000	ppb	1.61471	167.75
Fe	<.00000	ppb	.34682	86.838
K_	<.00000	ppb	2.2741	197.99
Li	<.00000	ppb	51.203	194.08
Mg	<.00000	ppb	15.373	28.810
Mn	.04243	ppb	.11712	276.02
Mo	2.1734	ppb	2.0589	94.729
Na	21.698	ppb	69.924	322.26
Ni	.06383	ppb	.09939	155.71
Pb	.76785	ppb	.29208	38.039
Pd	<.00000	ppb	15.5052	183.32
Sb	.52113	ppb	.32756	62.856
Se	.74888	ppb	1.19278	159.28
Si	2.4860	ppb	9.5685	384.90
Sn	.58810	ppb	.23763	40.406
Sr	1.9367	ppb	1.5668	80.902
Ti	.57849	ppb	.69696	120.48
Tl	<.00000	ppb	.6511	48.313
V_	<.00000	ppb	5.0194	186.40
Zn	<.00000	ppb	.14867	39.838
Zr	.09833	ppb	1.27542	1,297.1

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 9/7/2017 3:30 pm

Adirondack Environmental Services, Inc

PREP BATCH REPORT

Prep Start Date: **8/28/2017 12:18:17**
 Prep End Date: **8/28/2017 4:14:49 P**

Comments: Temp:95 Start Time:1445 End Time:1600

Page:1 of 1

Prep Factor Units:
 mL / mL

Prep Batch **56444** Prep Code: **3010CLP** Technician: **Ashlyn VanBuren**

Sample ID	Matrix	pH	ResCl	SampAmt	Sol Added	Fin Vol	factor	PrepStart	PrepEnd	ExPos	TareWt	CleanUp
MB-56444				50	0	50	1.000	8/28/2017	8/28/2017		0	
LCS-56444				50	0	50	1.000	8/28/2017	8/28/2017		0	
170821039-001B	Groundwater	1		50	0	50	1.000	8/28/2017	8/28/2017		0	
170821039-001BMS	Groundwater	1		50	0	50	1.000	8/28/2017	8/28/2017		0	
170821039-001BMSD	Groundwater	1		50	0	50	1.000	8/28/2017	8/28/2017		0	
170821039-002B	Groundwater	1		50	0	50	1.000	8/28/2017	8/28/2017		0	
170821039-003B	Groundwater	1		50	0	50	1.000	8/28/2017	8/28/2017		0	
170821039-004B	Groundwater	1		50	0	50	1.000	8/28/2017	8/28/2017		0	
170821039-005B	Groundwater	1		50	0	50	1.000	8/28/2017	8/28/2017		0	
170821039-009B	Groundwater	1		50	0	50	1.000	8/28/2017	8/28/2017		0	

Number	Reagent Name	Solution ID	Solution Name	SampType	AmtAdd	units
4737	Nitric Acid	MSP-ICP SPIKE-	ICP Spike		0.5	ml
4658	Hydrochloric Acid	MWS-200.7-6-61	200.7-6		50	ml
4736	Hot Block Digestion Vessels - 50mL					



Experience is the solution

314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

November 09, 2017

Jennifer Atkins
AECOM Environment
250 Apollo Drive
Chelmsford, MA 01824

TEL: (978) 905-2100
FAX: (978) 905-2101

Work Order No: 171005087

PO#: 70990ACM

Project# : 60532721-700

RE: Ward Products Amsterdam

Dear Jennifer Atkins:

Adirondack Environmental Services, Inc received 3 samples on 10/5/2017 for the analyses presented in the following report.

"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 in the Case Narrative. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature."

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

Tara Daniels
Laboratory Director

Workorder Sample Summary

Client: AECOM Environment

Work Order: 171005087

ProjectName: Ward Products Amsterdam

ProjLocation:

AES Sample No	ClientSampID	Matrix	CollectionDate	DateReceived
171005087-001	MW-7 100517	Groundwater	10/5/2017	10/5/2017
171005087-002	MW-9 100517	Groundwater	10/5/2017	10/5/2017
171005087-003	Trip Blank	Trip Blank	10/5/2017	10/5/2017



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Case Narrative

Client: AECOM/ Chelmsford – Ward Products

Case: 171005087

SDG: MW-7 100517

Volatile Organics

- 1) The samples were analyzed using EPA Method 8260 following the criteria for NYSDEC ASP.
- 2) The samples received on 10/5/17 had a temperature of 3 °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 compound Acetone in the initial calibration was quantitated using linear regression.
- 5) The %D's for the compounds Methylene Chloride, 1,2-Dibromo-3-chloropropane and 1,2,4-Trichlorobenzene in the continuing calibration analyzed on 10/14/17 were outside the criteria established by the method. The %D's for these compounds were 20.2 %, 33.3 % and 41.1 %, respectively. These compounds were not present in any of the samples. No further action was taken.
- 6) Adequate sample volume was not provided for the matrix spike and the matrix spike duplicate. According to the protocol, a matrix spike blank must be analyzed. A matrix spike blank and matrix spike blank duplicate were analyzed. The recoveries for 1,2,4-Trichlorobenzene and Bromomethane in the matrix spike blank were lower than the specified limit. The recovery for Dichlorodifluoromethane in the matrix spike blank was higher than the specified limit. The recovery for Bromomethane in the matrix spike blank duplicate was lower than the specified limit. The recovery for Dichlorodifluoromethane in the matrix spike blank duplicate was higher than the specified limit. The compound Bromomethane is flagged for all samples with a "S" to denote the low recovery. All other recoveries were within acceptable limits.
- 7) The column used in Instrument D 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, Iron and Magnesium 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, 500,000 ug/L, 200,000 ug/L and 500,000 ug/L, respectively. The linear range on this instrument for Aluminum, Calcium, Iron and Magnesium is 250,000 ug/L, 250,000 ug/L, 100,000 ug/L and 250,000 ug/L, respectively. At this level accurate recovery of Aluminum, Calcium, Iron and Magnesium in the check standards is not possible. No further action is required.
- 3) Sample MW-9 100517 (AES sample number 171005087-002) was used as the matrix spike and duplicate sample. 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 "Tara Davis", is written above a horizontal line.

Laboratory Director

Date: 11/9/17



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

CHAIN OF CUSTODY RECORD

AES Work Order #

171005087

Experience is the solution

A full service analytical research laboratory offering solutions to environmental concerns

Client Name: AECOM		Address: 250 Apple drive Chelmsford, MA						
Send Report To: Jennifer Atkins		Project Name (Location) Ward Products / Amsterdam NY			Samplers: (Names) Joe Scalo			
Client Phone No: 978-905-2112		Client Email: Jennifer.Atkins@AECOM.com		PO Number: 85949		Samplers: (Signature) <i>[Signature]</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		
001	MW-7 100517	10/5/17		A			3	8260 / 6010
002	MW-9 100517	10/5/17		P	GW		3	8260 / 6010
003	Trip Blank	—	—	A			1	
				P				
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				

Shipment Arrived Via:

FedEx UPS Client AES Other: _____

CC Report To / Special Instructions/Remarks:

Turnaround Time Request:

☐ 1 Day ☐ 3 Day ☒ Normal
☐ 2 Day ☐ 5 Day

Note: Samples received after 3:30 pm are considered next business day

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received for Laboratory by:

Date/Time

TEMPERATURE

Ambient or Chilled

Notes: 3°C

AES Bottles

☒ Y ☐ N

PROPERLY PRESERVED

Y N

Notes: _____

RECEIVED WITHIN HOLDING TIMES

Y N

WHITE - Lab Copy

YELLOW - Sampler Copy

Adirondack Environmental Services



171005087

Adirondack Environmental Services, Inc

Date: 09-Nov-17

CLIENT: AECOM Environment

Client Sample ID: MW-7 100517

Work Order: 171005087

Collection Date: 10/5/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 171005087-001

PO#: 70990ACM

Matrix: GROUNDWATER

Project# : 60532721-700

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA 200.7						Analyst: KH
(Prep: SW3010A - 10/19/2017)						
Chromium	ND	5.00		µg/L	1	11/3/2017 11:11:00 AM
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Isopropylbenzene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Chloromethane	ND	10		µg/L	1	10/14/2017 4:29:00 AM
Bromomethane	ND	10	S	µg/L	1	10/14/2017 4:29:00 AM
Vinyl chloride	ND	10		µg/L	1	10/14/2017 4:29:00 AM
Chloroethane	ND	10		µg/L	1	10/14/2017 4:29:00 AM
Methylene chloride	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Acetone	ND	10		µg/L	1	10/14/2017 4:29:00 AM
Carbon disulfide	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
1,1-Dichloroethene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
1,1-Dichloroethane	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Chloroform	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
1,2-Dichloroethane	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
2-Butanone	ND	10		µg/L	1	10/14/2017 4:29:00 AM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Carbon tetrachloride	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Bromodichloromethane	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
1,2-Dichloropropane	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Trichloroethene	110	5.0		µg/L	1	10/14/2017 4:29:00 AM
Dibromochloromethane	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Benzene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Bromoform	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/14/2017 4:29:00 AM
2-Hexanone	ND	10		µg/L	1	10/14/2017 4:29:00 AM
Tetrachloroethene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Toluene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Chlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Ethylbenzene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Styrene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 09-Nov-17

CLIENT: AECOM Environment

Client Sample ID: MW-7 100517

Work Order: 171005087

Collection Date: 10/5/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 171005087-001

PO#: 70990ACM

Matrix: GROUNDWATER

Project# : 60532721-700

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
m,p-Xylene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
o-Xylene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Methyl tert-butyl ether	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Dichlorodifluoromethane	ND	10		µg/L	1	10/14/2017 4:29:00 AM
Methyl Acetate	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Trichlorofluoromethane	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Cyclohexane	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Methyl Cyclohexane	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
1,2-Dibromoethane	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	10/14/2017 4:29:00 AM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Surr: 1,2-Dichloroethane-d4	101	80.3-122		%REC	1	10/14/2017 4:29:00 AM
Surr: 4-Bromofluorobenzene	97.9	74.1-124		%REC	1	10/14/2017 4:29:00 AM
Surr: Toluene-d8	100	79.6-110		%REC	1	10/14/2017 4:29:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 09-Nov-17

CLIENT: AECOM Environment

Client Sample ID: MW-9 100517

Work Order: 171005087

Collection Date: 10/5/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 171005087-002

PO#: 70990ACM

Matrix: GROUNDWATER

Project# : 60532721-700

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA 200.7						Analyst: KH
(Prep: SW3010A - 10/19/2017)						
Chromium	ND	5.00		µg/L	1	11/3/2017 11:14:00 AM
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Isopropylbenzene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Chloromethane	ND	10		µg/L	1	10/14/2017 4:50:00 AM
Bromomethane	ND	10	S	µg/L	1	10/14/2017 4:50:00 AM
Vinyl chloride	ND	10		µg/L	1	10/14/2017 4:50:00 AM
Chloroethane	ND	10		µg/L	1	10/14/2017 4:50:00 AM
Methylene chloride	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Acetone	ND	10		µg/L	1	10/14/2017 4:50:00 AM
Carbon disulfide	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
1,1-Dichloroethene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
1,1-Dichloroethane	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
cis-1,2-Dichloroethene	15	5.0		µg/L	1	10/14/2017 4:50:00 AM
Chloroform	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
1,2-Dichloroethane	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
2-Butanone	ND	10		µg/L	1	10/14/2017 4:50:00 AM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Carbon tetrachloride	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Bromodichloromethane	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
1,2-Dichloropropane	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Trichloroethene	25	5.0		µg/L	1	10/14/2017 4:50:00 AM
Dibromochloromethane	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Benzene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Bromoform	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/14/2017 4:50:00 AM
2-Hexanone	ND	10		µg/L	1	10/14/2017 4:50:00 AM
Tetrachloroethene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Toluene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Chlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Ethylbenzene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Styrene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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S - LCS Spike below accepted limits (+ above)
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Adirondack Environmental Services, Inc

Date: 09-Nov-17

CLIENT: AECOM Environment

Client Sample ID: MW-9 100517

Work Order: 171005087

Collection Date: 10/5/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 171005087-002

PO#: 70990ACM

Matrix: GROUNDWATER

Project# : 60532721-700

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
m,p-Xylene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
o-Xylene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Methyl tert-butyl ether	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Dichlorodifluoromethane	ND	10		µg/L	1	10/14/2017 4:50:00 AM
Methyl Acetate	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Trichlorofluoromethane	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Cyclohexane	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Methyl Cyclohexane	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
1,2-Dibromoethane	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	10/14/2017 4:50:00 AM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Surr: 1,2-Dichloroethane-d4	103	80.3-122		%REC	1	10/14/2017 4:50:00 AM
Surr: 4-Bromofluorobenzene	101	74.1-124		%REC	1	10/14/2017 4:50:00 AM
Surr: Toluene-d8	102	79.6-110		%REC	1	10/14/2017 4:50:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 09-Nov-17

CLIENT: AECOM Environment

Client Sample ID: Trip Blank

Work Order: 171005087

Collection Date: 10/5/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 171005087-003

PO#: 70990ACM

Matrix: TRIP BLANK

Project# : 60532721-700

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed

VOLATILE ORGANICS EPA 8260C (SW5030C PREP)

Analyst: SMD

Isopropylbenzene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Chloromethane	ND	10		µg/L	1	10/14/2017 4:08:00 AM
Bromomethane	ND	10	S	µg/L	1	10/14/2017 4:08:00 AM
Vinyl chloride	ND	10		µg/L	1	10/14/2017 4:08:00 AM
Chloroethane	ND	10		µg/L	1	10/14/2017 4:08:00 AM
Methylene chloride	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Acetone	ND	10		µg/L	1	10/14/2017 4:08:00 AM
Carbon disulfide	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
1,1-Dichloroethene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
1,1-Dichloroethane	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Chloroform	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
1,2-Dichloroethane	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
2-Butanone	ND	10		µg/L	1	10/14/2017 4:08:00 AM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Carbon tetrachloride	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Bromodichloromethane	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
1,2-Dichloropropane	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Trichloroethene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Dibromochloromethane	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Benzene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Bromoform	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/14/2017 4:08:00 AM
2-Hexanone	ND	10		µg/L	1	10/14/2017 4:08:00 AM
Tetrachloroethene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Toluene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Chlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Ethylbenzene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Styrene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
m,p-Xylene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
o-Xylene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Methyl tert-butyl ether	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Dichlorodifluoromethane	ND	10		µg/L	1	10/14/2017 4:08:00 AM

Qualifiers:
 ND - Not Detected at the Reporting Limit
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Adirondack Environmental Services, Inc

Date: 09-Nov-17

CLIENT: AECOM Environment

Client Sample ID: Trip Blank

Work Order: 171005087

Collection Date: 10/5/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 171005087-003

PO#: 70990ACM

Matrix: TRIP BLANK

Project# : 60532721-700

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Methyl Acetate	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Trichlorofluoromethane	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Cyclohexane	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Methyl Cyclohexane	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
1,2-Dibromoethane	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	10/14/2017 4:08:00 AM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Surr: 1,2-Dichloroethane-d4	98.5	80.3-122		%REC	1	10/14/2017 4:08:00 AM
Surr: 4-Bromofluorobenzene	105	74.1-124		%REC	1	10/14/2017 4:08:00 AM
Surr: Toluene-d8	102	79.6-110		%REC	1	10/14/2017 4:08:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 09-Nov-17

CLIENT: AECOM Environment

Client Sample ID: MW-7 100517

Work Order: 171005087

Collection Date: 10/5/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 171005087-001

PO#: 70990ACM

Matrix: GROUNDWATER

Project# : 60532721-700

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed

VOLATILE ORGANICS EPA 8260C (SW5030C PREP)

Analyst: SMD

Isopropylbenzene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Chloromethane	ND	10		µg/L	1	10/14/2017 4:29:00 AM
Bromomethane	ND	10	S	µg/L	1	10/14/2017 4:29:00 AM
Vinyl chloride	ND	10		µg/L	1	10/14/2017 4:29:00 AM
Chloroethane	ND	10		µg/L	1	10/14/2017 4:29:00 AM
Methylene chloride	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Acetone	ND	10		µg/L	1	10/14/2017 4:29:00 AM
Carbon disulfide	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
1,1-Dichloroethene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
1,1-Dichloroethane	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Chloroform	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
1,2-Dichloroethane	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
2-Butanone	ND	10		µg/L	1	10/14/2017 4:29:00 AM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Carbon tetrachloride	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Bromodichloromethane	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
1,2-Dichloropropane	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Trichloroethene	110	5.0		µg/L	1	10/14/2017 4:29:00 AM
Dibromochloromethane	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Benzene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Bromoform	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/14/2017 4:29:00 AM
2-Hexanone	ND	10		µg/L	1	10/14/2017 4:29:00 AM
Tetrachloroethene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Toluene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Chlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Ethylbenzene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Styrene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
m,p-Xylene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
o-Xylene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Methyl tert-butyl ether	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Dichlorodifluoromethane	ND	10		µg/L	1	10/14/2017 4:29:00 AM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 09-Nov-17

CLIENT: AECOM Environment

Client Sample ID: MW-7 100517

Work Order: 171005087

Collection Date: 10/5/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 171005087-001

PO#: 70990ACM

Matrix: GROUNDWATER

Project# : 60532721-700

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Methyl Acetate	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Trichlorofluoromethane	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Cyclohexane	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Methyl Cyclohexane	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
1,2-Dibromoethane	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	10/14/2017 4:29:00 AM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:29:00 AM
Surr: 1,2-Dichloroethane-d4	101	80.3-122		%REC	1	10/14/2017 4:29:00 AM
Surr: 4-Bromofluorobenzene	97.9	74.1-124		%REC	1	10/14/2017 4:29:00 AM
Surr: Toluene-d8	100	79.6-110		%REC	1	10/14/2017 4:29:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 09-Nov-17

CLIENT: AECOM Environment

Client Sample ID: MW-9 100517

Work Order: 171005087

Collection Date: 10/5/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 171005087-002

PO#: 70990ACM

Matrix: GROUNDWATER

Project# : 60532721-700

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed

VOLATILE ORGANICS EPA 8260C (SW5030C PREP)

Analyst: SMD

Isopropylbenzene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Chloromethane	ND	10		µg/L	1	10/14/2017 4:50:00 AM
Bromomethane	ND	10	S	µg/L	1	10/14/2017 4:50:00 AM
Vinyl chloride	ND	10		µg/L	1	10/14/2017 4:50:00 AM
Chloroethane	ND	10		µg/L	1	10/14/2017 4:50:00 AM
Methylene chloride	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Acetone	ND	10		µg/L	1	10/14/2017 4:50:00 AM
Carbon disulfide	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
1,1-Dichloroethene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
1,1-Dichloroethane	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
cis-1,2-Dichloroethene	15	5.0		µg/L	1	10/14/2017 4:50:00 AM
Chloroform	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
1,2-Dichloroethane	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
2-Butanone	ND	10		µg/L	1	10/14/2017 4:50:00 AM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Carbon tetrachloride	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Bromodichloromethane	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
1,2-Dichloropropane	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Trichloroethene	25	5.0		µg/L	1	10/14/2017 4:50:00 AM
Dibromochloromethane	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Benzene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Bromoform	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/14/2017 4:50:00 AM
2-Hexanone	ND	10		µg/L	1	10/14/2017 4:50:00 AM
Tetrachloroethene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Toluene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Chlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Ethylbenzene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Styrene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
m,p-Xylene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
o-Xylene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Methyl tert-butyl ether	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Dichlorodifluoromethane	ND	10		µg/L	1	10/14/2017 4:50:00 AM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 09-Nov-17

CLIENT: AECOM Environment

Client Sample ID: MW-9 100517

Work Order: 171005087

Collection Date: 10/5/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 171005087-002

PO#: 70990ACM

Matrix: GROUNDWATER

Project# : 60532721-700

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Methyl Acetate	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Trichlorofluoromethane	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Cyclohexane	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Methyl Cyclohexane	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
1,2-Dibromoethane	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	10/14/2017 4:50:00 AM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:50:00 AM
Surr: 1,2-Dichloroethane-d4	103	80.3-122		%REC	1	10/14/2017 4:50:00 AM
Surr: 4-Bromofluorobenzene	101	74.1-124		%REC	1	10/14/2017 4:50:00 AM
Surr: Toluene-d8	102	79.6-110		%REC	1	10/14/2017 4:50:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 09-Nov-17

CLIENT: AECOM Environment

Client Sample ID: Trip Blank

Work Order: 171005087

Collection Date: 10/5/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 171005087-003

PO#: 70990ACM

Matrix: TRIP BLANK

Project# : 60532721-700

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed

VOLATILE ORGANICS EPA 8260C (SW5030C PREP)

Analyst: SMD

Isopropylbenzene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Chloromethane	ND	10		µg/L	1	10/14/2017 4:08:00 AM
Bromomethane	ND	10	S	µg/L	1	10/14/2017 4:08:00 AM
Vinyl chloride	ND	10		µg/L	1	10/14/2017 4:08:00 AM
Chloroethane	ND	10		µg/L	1	10/14/2017 4:08:00 AM
Methylene chloride	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Acetone	ND	10		µg/L	1	10/14/2017 4:08:00 AM
Carbon disulfide	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
1,1-Dichloroethene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
1,1-Dichloroethane	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Chloroform	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
1,2-Dichloroethane	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
2-Butanone	ND	10		µg/L	1	10/14/2017 4:08:00 AM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Carbon tetrachloride	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Bromodichloromethane	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
1,2-Dichloropropane	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Trichloroethene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Dibromochloromethane	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Benzene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Bromoform	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/14/2017 4:08:00 AM
2-Hexanone	ND	10		µg/L	1	10/14/2017 4:08:00 AM
Tetrachloroethene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Toluene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Chlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Ethylbenzene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Styrene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
m,p-Xylene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
o-Xylene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Methyl tert-butyl ether	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Dichlorodifluoromethane	ND	10		µg/L	1	10/14/2017 4:08:00 AM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 09-Nov-17

CLIENT: AECOM Environment

Client Sample ID: Trip Blank

Work Order: 171005087

Collection Date: 10/5/2017

Reference: Ward Products Amsterdam /

Lab Sample ID: 171005087-003

PO#: 70990ACM

Matrix: TRIP BLANK

Project# : 60532721-700

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Methyl Acetate	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Trichlorofluoromethane	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Cyclohexane	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Methyl Cyclohexane	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
1,2-Dibromoethane	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	10/14/2017 4:08:00 AM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	10/14/2017 4:08:00 AM
Surr: 1,2-Dichloroethane-d4	98.5	80.3-122		%REC	1	10/14/2017 4:08:00 AM
Surr: 4-Bromofluorobenzene	105	74.1-124		%REC	1	10/14/2017 4:08:00 AM
Surr: Toluene-d8	102	79.6-110		%REC	1	10/14/2017 4:08:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

CLIENT: AECOM Environment
Work Order: 171005087
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT**BatchID: R152238**

mblk	SeqNo: 2275333	TestNo: SW8260C	RunNo: 152238
	Samp ID: vblk	Units: µg/L	Analysis Date: 10/14/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2-Butanone	ND	10									
2-Hexanone	ND	10									
4-Methyl-2-pentanone	ND	10									
Acetone	ND	10									
Benzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	10									
Carbon disulfide	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	10									
Chloroform	ND	5.0									
Chloromethane	ND	10									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Cyclohexane	ND	5.0									

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 171005087
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: R152238

mbk	SeqNo: 2275333	TestNo: SW8260C	RunNo: 152238
	Samp ID: vblk	Units: µg/L	Analysis Date: 10/14/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	ND	5.0									
Dichlorodifluoromethane	ND	10									
Ethylbenzene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	5.0									
Methyl Acetate	ND	5.0									
Methyl Cyclohexane	ND	5.0									
Methyl tert-butyl ether	ND	5.0									
Methylene chloride	ND	5.0									
o-Xylene	ND	5.0									
Styrene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
trans-1,3-Dichloropropene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	10									
Surr: 1,2-Dichloroethane-d4	51.3	5.0	50	0	103	80.3	122	0	0		
Surr: 4-Bromofluorobenzene	50.39	5.0	50	0	101	74.1	124	0	0		
Surr: Toluene-d8	50.7	5.0	50	0	101	79.6	110	0	0		

lcs	SeqNo: 2275337	TestNo: SW8260C	RunNo: 152238
	Samp ID: lcs	Units: µg/L	Analysis Date: 10/14/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	51.6	5.0	50	0	103	71.3	131	0	0		
1,1,2,2-Tetrachloroethane	43.83	5.0	50	0	87.7	72.1	126	0	0		
1,1,2-Trichloro-1,2,2-trifluoroethane	26.94	5.0	25	0	108	67.5	132	0	0		
1,1,2-Trichloroethane	46.28	5.0	50	0	92.6	74.9	122	0	0		
1,1-Dichloroethane	46.72	5.0	50	0	93.4	73.8	127	0	0		
1,1-Dichloroethene	43.99	5.0	50	0	88	71.6	127	0	0		
1,2,4-Trichlorobenzene	31.86	5.0	50	0	63.7	69.1	127	0	0		S

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 171005087
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: R152238

ICS	SeqNo: 2275337	TestNo: SW8260C	RunNo: 152238
	Samp ID: ics	Units: µg/L	Analysis Date: 10/14/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	34.22	10	50	0	68.4	67.1	132	0	0		
1,2-Dibromoethane	46.66	5.0	50	0	93.3	74.1	123	0	0		
1,2-Dichlorobenzene	45.07	5.0	50	0	90.1	71.5	126	0	0		
1,2-Dichloroethane	43.13	5.0	50	0	86.3	72.3	124	0	0		
1,2-Dichloropropane	49.29	5.0	50	0	98.6	72	125	0	0		
1,3-Dichlorobenzene	44.9	5.0	50	0	89.8	71.1	123	0	0		
1,4-Dichlorobenzene	44.52	5.0	50	0	89	71.2	126	0	0		
2-Butanone	39.28	10	50	0	78.6	63.4	129	0	0		
2-Hexanone	39.51	10	50	0	79	65	137	0	0		
4-Methyl-2-pentanone	41.63	10	50	0	83.3	68.2	126	0	0		
Acetone	40.9	10	50	0	81.8	59.8	139	0	0		
Benzene	48.42	5.0	50	0	96.8	73.6	121	0	0		
Bromodichloromethane	48.47	5.0	50	0	96.9	70.4	123	0	0		
Bromoform	44.36	5.0	50	0	88.7	68.2	119	0	0		
Bromomethane	27.78	10	50	0	55.6	64	120	0	0		S
Carbon disulfide	22.92	5.0	25	0	91.7	62	134	0	0		
Carbon tetrachloride	53.82	5.0	50	0	108	61.3	123	0	0		
Chlorobenzene	49.18	5.0	50	0	98.4	69.1	128	0	0		
Chloroethane	44.1	10	50	0	88.2	63.9	138	0	0		
Chloroform	45.43	5.0	50	0	90.9	73.3	126	0	0		
Chloromethane	48.34	10	50	0	96.7	46.7	123	0	0		
cis-1,2-Dichloroethene	45.32	5.0	50	0	90.6	71.5	128	0	0		
cis-1,3-Dichloropropene	49.17	5.0	50	0	98.3	67	128	0	0		
Cyclohexane	26.21	5.0	25	0	105	71.7	125	0	0		
Dibromochloromethane	46.86	5.0	50	0	93.7	70.6	124	0	0		
Dichlorodifluoromethane	73.5	10	50	0	147	52	116	0	0		S
Ethylbenzene	51	5.0	50	0	102	73.9	125	0	0		
Isopropylbenzene	49.52	5.0	50	0	99	75.1	117	0	0		
m,p-Xylene	102.2	5.0	100	0	102	71.7	134	0	0		
Methyl Acetate	16.64	5.0	25	0	66.6	66.5	131	0	0		
Methyl Cyclohexane	27.79	5.0	25	0	111	68	130	0	0		
Methyl tert-butyl ether	22.3	5.0	25	0	89.2	69.2	127	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 171005087
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: R152238

lcs	SeqNo: 2275337	TestNo: SW8260C	RunNo: 152238
	Samp ID: lcs	Units: µg/L	Analysis Date: 10/14/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methylene chloride	41.28	5.0	50	0	82.6	68.3	128	0	0		
o-Xylene	51.79	5.0	50	0	104	72.2	129	0	0		
Styrene	52.89	5.0	50	0	106	70	126	0	0		
Tetrachloroethene	47.76	5.0	50	0	95.5	69.4	124	0	0		
Toluene	48.8	5.0	50	0	97.6	74.2	119	0	0		
trans-1,2-Dichloroethene	46.55	5.0	50	0	93.1	70.6	128	0	0		
trans-1,3-Dichloropropene	50.17	5.0	50	0	100	74.9	123	0	0		
Trichloroethene	47.58	5.0	50	0	95.2	74.4	117	0	0		
Trichlorofluoromethane	52.06	5.0	50	0	104	68.3	132	0	0		
Vinyl chloride	55.19	10	50	0	110	63	137	0	0		
Surr: 1,2-Dichloroethane-d4	48.51	5.0	50	0	97	80.3	122	0	0		
Surr: 4-Bromofluorobenzene	50.77	5.0	50	0	102	74.1	124	0	0		
Surr: Toluene-d8	53.22	5.0	50	0	106	79.6	110	0	0		

lcsd	SeqNo: 2275338	TestNo: SW8260C	RunNo: 152238
	Samp ID: lcsd	Units: µg/L	Analysis Date: 10/14/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	48.22	5.0	50	0	96.4	71.3	131	51.6	6.77	25	
1,1,2,2-Tetrachloroethane	47.89	5.0	50	0	95.8	72.1	126	43.83	8.85	25	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.08	5.0	25	0	100	67.5	132	26.94	7.15	25	
1,1,2-Trichloroethane	46.74	5.0	50	0	93.5	74.9	122	46.28	0.989	25	
1,1-Dichloroethane	45.86	5.0	50	0	91.7	73.8	127	46.72	1.86	25	
1,1-Dichloroethene	42.72	5.0	50	0	85.4	71.6	127	43.99	2.93	25	
1,2,4-Trichlorobenzene	46.32	5.0	50	0	92.6	69.1	127	31.86	37.0	25	Z
1,2-Dibromo-3-chloropropane	48.51	10	50	0	97	67.1	132	34.22	34.5	25	Z
1,2-Dibromoethane	49.03	5.0	50	0	98.1	74.1	123	46.66	4.95	25	
1,2-Dichlorobenzene	50.19	5.0	50	0	100	71.5	126	45.07	10.7	25	
1,2-Dichloroethane	45.31	5.0	50	0	90.6	72.3	124	43.13	4.93	25	
1,2-Dichloropropane	47.7	5.0	50	0	95.4	72	130	49.29	3.28	25	
1,3-Dichlorobenzene	49.84	5.0	50	0	99.7	71.1	123	44.9	10.4	25	
1,4-Dichlorobenzene	50.82	5.0	50	0	102	71.2	126	44.52	13.2	25	
2-Butanone	41.06	10	50	0	82.1	63.4	129	39.28	4.43	25	

Qualifiers: ND - Not Detected at the Reporting Limit
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CLIENT: AECOM Environment
Work Order: 171005087
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: R152238

lcsd	SeqNo: 2275338	TestNo: SW8260C	RunNo: 152238
	Samp ID: lcsd	Units: µg/L	Analysis Date: 10/14/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Hexanone	46.61	10	50	0	93.2	65	137	39.51	16.5	25	
4-Methyl-2-pentanone	44.88	10	50	0	89.8	68.2	126	41.63	7.51	25	
Acetone	42.33	10	50	0	84.7	59.8	139	40.9	3.44	25	
Benzene	48.14	5.0	50	0	96.3	73.6	121	48.42	0.580	25	
Bromodichloromethane	46.95	5.0	50	0	93.9	70.4	123	48.47	3.19	25	
Bromoform	46.23	5.0	50	0	92.5	68.2	119	44.36	4.13	25	
Bromomethane	25.15	10	50	0	50.3	64	120	27.78	9.94	25	S
Carbon disulfide	22.8	5.0	25	0	91.2	62	134	22.92	0.525	25	
Carbon tetrachloride	51.68	5.0	50	0	103	61.3	123	53.82	4.06	25	
Chlorobenzene	50.52	5.0	50	0	101	69.1	128	49.18	2.69	25	
Chloroethane	45.18	10	50	0	90.4	63.9	138	44.1	2.42	25	
Chloroform	45.42	5.0	50	0	90.8	73.3	126	45.43	0.0220	25	
Chloromethane	52.81	10	50	0	106	46.7	123	48.34	8.84	25	
cis-1,2-Dichloroethene	45.68	5.0	50	0	91.4	71.5	128	45.32	0.791	25	
cis-1,3-Dichloropropene	50.71	5.0	50	0	101	67	128	49.17	3.08	25	
Cyclohexane	23.05	5.0	25	0	92.2	71.7	125	26.21	12.8	25	
Dibromochloromethane	46.83	5.0	50	0	93.7	70.6	124	46.86	0.0640	25	
Dichlorodifluoromethane	74.13	10	50	0	148	52	116	73.5	0.853	25	S
Ethylbenzene	50.64	5.0	50	0	101	73.9	125	51	0.708	25	
Isopropylbenzene	49.88	5.0	50	0	99.8	75.1	117	49.52	0.724	25	
m,p-Xylene	102.4	5.0	100	0	102	71.7	134	102.2	0.235	25	
Methyl Acetate	17.76	5.0	25	0	71	66.5	131	16.64	6.51	25	
Methyl Cyclohexane	25.39	5.0	25	0	102	68	130	27.79	9.03	0	
Methyl tert-butyl ether	21.9	5.0	25	0	87.6	69.2	127	22.3	1.81	25	
Methylene chloride	41.89	5.0	50	0	83.8	68.3	128	41.28	1.47	25	
o-Xylene	52.15	5.0	50	0	104	72.2	129	51.79	0.693	25	
Styrene	55.35	5.0	50	0	111	73	126	52.89	4.55	25	
Tetrachloroethene	47.99	5.0	50	0	96	69.4	124	47.76	0.480	25	
Toluene	48.11	5.0	50	0	96.2	74.2	119	48.8	1.42	25	
trans-1,2-Dichloroethene	47.4	5.0	50	0	94.8	70.6	128	46.55	1.81	25	
trans-1,3-Dichloropropene	49.29	5.0	50	0	98.6	74.9	123	50.17	1.77	25	
Trichloroethene	48.33	5.0	50	0	96.7	74.4	117	47.58	1.56	25	

Qualifiers: ND - Not Detected at the Reporting Limit
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CLIENT: AECOM Environment
Work Order: 171005087
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: R152238

lcsd	SeqNo: 2275338	TestNo: SW8260C	RunNo: 152238
	Samp ID: lcsd	Units: µg/L	Analysis Date: 10/14/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane	51.3	5.0	50	0	103	68.3	132	52.06	1.47	25	
Vinyl chloride	56.07	10	50	0	112	63	137	55.19	1.58	25	
Surr: 1,2-Dichloroethane-d4	48.93	5.0	50	0	97.9	80.3	122	0	0	25	
Surr: 4-Bromofluorobenzene	50.5	5.0	50	0	101	74.1	124	0	0	25	
Surr: Toluene-d8	52.18	5.0	50	0	104	79.6	110	0	0	25	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

QC Batch Summary Report

Batch: R152238

Analyst: SM

SampID	SampType	TestName:	Analysis Date/Time:
bfb	tune	BFB tune	10/7/2017 4:39:00 AM
vstd005	ical	EPA-8260	10/7/2017 6:34:00 AM
vstd010	ical	EPA-8260	10/7/2017 6:59:00 AM
vstd050	ical	EPA-8260	10/7/2017 7:20:00 AM
vstd100	ical	EPA-8260	10/7/2017 8:05:00 AM
vstd200	ical	EPA-8260	10/7/2017 8:27:00 AM
bfb	tune	BFB tune	10/14/2017 2:00:00 AM
vstd050	ccv	EPA-8260	10/14/2017 2:21:00 AM
vblk	mblk	EPA-8260	10/14/2017 3:46:00 AM
171005087-003a	samp	EPA-8260	10/14/2017 4:08:00 AM
171005087-001a	samp	EPA-8260	10/14/2017 4:29:00 AM
171005087-002a	samp	EPA-8260	10/14/2017 4:50:00 AM
lcs	lcs	EPA-8260	10/14/2017 5:11:00 AM
lcsd	lcsd	EPA-8260	10/14/2017 5:33:00 AM

Client: AECOM Environment
WorkOrder 171005087
Project: Ward Products Amsterdam
Test: e8260w

**Internal Standard
Summary Report**

Batch: R152238

SampID	Analysis Time	1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
vstd050	10/14/2017 2:21:00 AM	135652	RT: 12.4	309100	RT: 6.58	273026	RT: 10.12
vblk	10/14/2017 3:46:00 AM	102537	RT: 12.4	256931	RT: 6.58	224188	RT: 10.12
171005087-003A	10/14/2017 4:08:00 AM	117510	RT: 12.4	327143	RT: 6.59	274063	RT: 10.13
171005087-001A	10/14/2017 4:29:00 AM	107116	RT: 12.4	270581	RT: 6.58	234037	RT: 10.13
171005087-002A	10/14/2017 4:50:00 AM	97899	RT: 12.4	257036	RT: 6.58	218273	RT: 10.12
lcs	10/14/2017 5:11:00 AM	127658	RT: 12.4	313385	RT: 6.59	265615	RT: 10.12
lcsd	10/14/2017 5:33:00 AM	124967	RT: 12.4	296536	RT: 6.58	255540	RT: 10.12

Adirondack Environmental Services, Inc

Date: 25-Oct-17

Test Code: E8260W

Test Number: SW8260C

Test Name: EPA-8260

Matrix: Water

Units: µg/L

METHOD DETECTION / REPORTING LIMITS

Updated: 19-Apr-17

Type	Analyte	MDL	PQL
A	1,1,1,2-Tetrachloroethane	1.57	5
A	1,1,1-Trichloroethane	1.98	5
A	1,1,2,2-Tetrachloroethane	1.9	5
A	1,1,2-Trichloro-1,2,2-trifluoroethane	1.88	5
A	1,1,2-Trichloroethane	2.01	5
A	1,1-Dichloroethane	1.88	5
A	1,1-Dichloroethene	1.94	5
A	1,1-Dichloropropene	1.8	5
A	1,2,3-Trichlorobenzene	3.64	5
A	1,2,3-Trichloropropane	2.07	5
A	1,2,4-Trichlorobenzene	2.7	5
A	1,2,4-Trimethylbenzene	1.97	5
A	1,2-Dibromo-3-chloropropane	3.09	10
A	1,2-Dibromoethane	1.88	5
A	1,2-Dichlorobenzene	2.15	5
A	1,2-Dichloroethane	1.23	5
A	1,2-Dichloropropane	2.3	5
A	1,3,5-Trimethylbenzene	2.15	5
A	1,3-Dichlorobenzene	2.2	5
A	1,3-Dichloropropane	1.9	5
A	1,4-Dichlorobenzene	2.2	5
A	1,4-Dioxane	17	100
A	1-Bromopropane		10
A	1-Propanol		100
A	2,2-Dichloropropane	0.75	5
A	2-Butanone	1.15	10
A	2-Chloroethanol		10
A	2-Chloroethyl vinyl ether		10
A	2-Chlorotoluene	2.16	5
A	2-Hexanone	0.9	10
A	2-Hydroxypropionitrile		10
A	2-Methyl-1,3-dioxolane		100
A	2-Nitropropane		10
A	2-Pentanone		10
A	2-Picoline		10
A	2-Propanol		100
A	3-Chloropropionitrile		10
A	3-Methyl Thiophene		10
A	4-Chlorotoluene	2.26	5
A	4-Isopropyltoluene	1.76	5
A	4-Methyl-2-pentanone	1.17	10

Test Code: E8260W

Test Number: SW8260C

Test Name: EPA-8260

Matrix: Water

Units: µg/L

**METHOD DETECTION /
REPORTING LIMITS**

Updated: 13-Jan-17

Type	Analyte	MDL	PQL
A	Acetone	1.22	10
A	Acetonitrile	43.1	200
A	Acrolein	5.93	100
A	Acrylonitrile	6.15	25
A	Allyl alcohol		10
A	Allyl chloride	1.39	10
A	Benzene	2.09	5
A	Benzyl chloride		10
A	beta-Propiolactone		10
A	bis-(2-Chloroethyl) Sulfide		10
A	Bromoacetone		10
A	Bromobenzene	2.66	5
A	Bromochloromethane	1.91	5
A	Bromodichloromethane	2.08	5
A	Bromoform	1.88	5
A	Bromomethane	1.2	10
A	Carbon disulfide	2.19	5
A	Carbon tetrachloride	1.43	5
A	Chlorobenzene	2.02	5
A	Chloroethane	2.36	10
A	Chloroform	2.01	5
A	Chloromethane	1.52	10
A	Chloroprene	2.3	20
A	cis-1,2-Dichloroethene	1.64	5
A	cis-1,3-Dichloropropene	1.94	5
A	cis-1,4-Dichloro-2-butene		10
A	Cyclohexane	1.35	5
A	Cyclohexanone		100
A	Dibromochloromethane	1.68	5
A	Dibromomethane	2.29	5
A	Dichlorodifluoromethane	1.06	10
A	Diethyl Ether		5
A	Diisobutylene		5
A	Ethanol	21.4	100
A	Ethyl acetate		50
A	Ethyl Ether		10
A	Ethyl methacrylate		10
A	Ethylbenzene	1.91	5
A	Heptane	1.17	10
A	Hexachlorobutadiene	2.83	10
A	Hexachloroethane		10

Adirondack Environmental Services, Inc

Date: 25-Oct-17

Test Code: E8260W

Test Number: SW8260C

Test Name: EPA-8260

Matrix: Water

Units: µg/L

METHOD DETECTION / REPORTING LIMITS

Updated: 13-Jan-17

Type	Analyte	MDL	PQL
A	Hexane		10
A	Iodomethane	1.43	10
A	Isobutyl Alcohol	28.5	200
A	Isopropyl Alcohol		100
A	Isopropyl ether		50
A	Isopropylbenzene	2.01	5
A	m,p-Xylene	4.36	10
A	Malononitrile		10
A	Methacrylonitrile	16	100
A	Methanol		500
A	Methyl Acetate	0.39	5
A	Methyl Cyclohexane	1.69	5
A	Methyl Formate		10
A	Methyl methacrylate	1.95	5
A	Methyl tert-butyl ether	2.47	5
A	Methylene chloride	1.63	5
A	Naphthalene	2.55	5
A	n-Butanol		100
A	n-Butylbenzene	1.79	5
A	Nitrobenzene		10
A	N-Nitroso-di-n-butylamine		10
A	n-Propylamine		10
A	n-Propylbenzene	1.99	5
A	o-Toluidine		10
A	o-Xylene	2.27	5
A	Paraldehyde		100
A	Pentachloroethane		10
A	Propionitrile	14.3	100
A	Pyridine		10
A	sec-Butylbenzene	1.93	5
A	Styrene	2.13	5
A	t-Amyl Methyl Ether		100
A	t-Butyl alcohol		100
A	tert-Butylbenzene	1.96	5
A	Tetrachloroethene	2.09	5
A	Tetrahydrofuran	4.67	10
A	Toluene	2.08	5
A	Total Volatiles		100
A	trans-1,2-Dichloroethene	1.8	5
A	trans-1,3-Dichloropropene	1.5	5
A	trans-1,4-Dichloro-2-butene	0.78	10

Test Code: E8260W

Test Number: SW8260C

Test Name: EPA-8260

Matrix: Water Units: µg/L

**METHOD DETECTION /
REPORTING LIMITS**

Updated: 13-Jan-17

Type	Analyte	MDL	PQL
A	Trichloroethene	2.18	5
A	Trichlorofluoromethane	1.31	5
A	Vinyl acetate	8.12	10
A	Vinyl chloride	1.32	10
A	Xylenes, Total		5
I	1,4-Dichlorobenzene-d4		0
I	1,4-Difluorobenzene		0
I	Chlorobenzene-d5		0
S	1,2-Dichloroethane-d4		5
S	4-Bromofluorobenzene		5
S	Toluene-d8		5

Method Path : C:\msdchem\1\qtmethods\
 Method File : fixedw8260-100617.M
 Title : Voa Calibration 8260 Water
 Last Update : Fri Oct 13 15:29:24 2017
 Response Via : Initial Calibration

Calibration Files

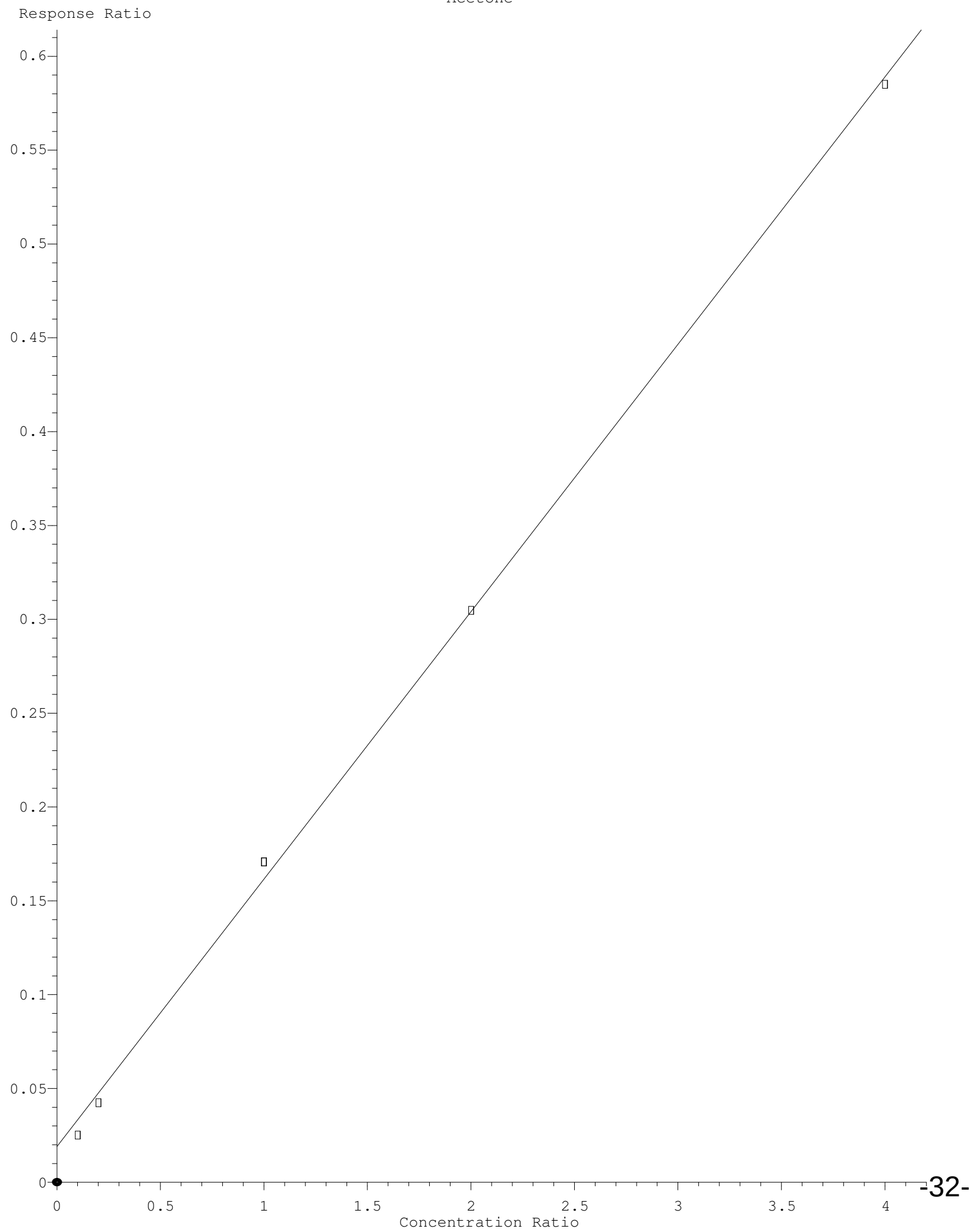
200 =d9042.D 100 =d9041.D 50 =d9039.D 5 =d9037.D 10 =d9038.D

	Compound	200	100	50	5	10	Avg	%RSD
1) I	1,4-Difluorobenzene	-----ISTD-----						
2)	Dichlorodifluo...	0.185	0.197	0.206	0.172	0.213	0.194	8.38
3)	Chloromethane	0.406	0.424	0.471	0.561	0.477	0.468	12.88
4)	Vinyl Chloride	0.334	0.340	0.351	0.368	0.342	0.347	3.78
5)	Bromomethane	0.184	0.217	0.243	0.286	0.254	0.237	16.27
6)	Chloroethane	0.232	0.222	0.207	0.201	0.217	0.216	5.54
7)	Acrolein	0.045	0.044	0.049	0.049	0.049	0.047	5.39
8)	Trichlorofluor...	0.391	0.399	0.435	0.409	0.422	0.411	4.35
9)	Freon113	0.189	0.204	0.212	0.161	0.209	0.195	10.81
10)	1,1-Dichloroet...	0.263	0.278	0.305	0.294	0.286	0.285	5.56
11)	Allyl Chloride	1.009	1.048	1.047	0.975	1.212	1.058	8.63
12)	Carbon Disulfide	0.726	0.759	0.822	0.804	0.744	0.771	5.28
13)	Acetone	0.146	0.152	0.171	0.251	0.212	0.186	23.70
14)	Iodomethane	0.195	0.151	0.134	0.099	0.106	0.137	28.06
15)	Acetonitrile	0.036	0.037	0.034	0.068	0.026	0.040	39.83
16)	Methyl Acetate	0.236	0.228	0.288	0.276	0.280	0.262	10.47
17)	Methylene Chlo...	0.335	0.319	0.364	0.510	0.383	0.382	19.73
18)	Acrylonitrile	0.162	0.169	0.166	0.182	0.134	0.163	10.81
19)	trans-1,2-Dich...	0.300	0.304	0.321	0.326	0.291	0.309	4.70
20)	Mtbe	0.941	0.875	0.931	0.910	0.784	0.888	7.16
21)	1,1-Dichloroet...	0.553	0.560	0.614	0.655	0.595	0.595	6.98
22)	Hexane	0.099	0.099	0.110	0.068	0.111	0.097	17.79
23)	cis-1,2-Dichlo...	0.474	0.459	0.511	0.472	0.457	0.475	4.59
24)	2,2-Dichloropr...	0.270	0.256	0.246	0.106	0.220	0.220	30.01
25)	Propionitrile	0.065	0.066	0.060	0.070	0.069	0.066	5.74
26)	Bromochloromet...	0.167	0.174	0.196	0.198	0.174	0.182	7.76
27)	Methacrylonitrile	0.182	0.187	0.184	0.180	0.184	0.183	1.40
28)	Chloroform	0.553	0.565	0.616	0.658	0.590	0.596	7.06
29)	Cyclohexane	0.358	0.380	0.370	0.318	0.378	0.361	7.03
30)	1,1-Dichloro-1...	0.411	0.427	0.444	0.410	0.434	0.425	3.45
31)	1,2-Dichloroet...	0.446	0.446	0.487	0.537	0.468	0.477	7.89
32)	2-Butanone	0.204	0.199	0.197	0.192	0.241	0.206	9.56
33) s	1,2-Dichloroet...	0.301	0.293	0.304	0.306	0.320	0.305	3.21
34) I	Chlorobenzene-d5	-----ISTD-----						
35)	1,1,1-Trichlor...	0.517	0.542	0.557	0.572	0.590	0.555	4.99
36)	Carbon Tetrach...	0.442	0.462	0.466	0.399	0.430	0.440	6.17
37)	Benzene	1.457	1.518	1.636	1.721	1.618	1.590	6.52
38)	Isobutanol	0.021	0.022	0.018	0.022	0.026	0.022	11.78
39)	Heptane	0.222	0.250	0.239	0.139	0.253	0.221	21.50
40)	Trichloroethene	0.380	0.392	0.423	0.433	0.414	0.408	5.34
41)	Methyl Cyclohe...	0.395	0.442	0.440	0.325	0.480	0.416	14.20
42)	1,2-Dichloropr...	0.363	0.373	0.397	0.451	0.388	0.394	8.71
43)	Vinyl Acetate	0.357	0.355	0.444	0.347	0.310	0.363	13.65

Method Path : C:\msdchem\1\qtmethods\
 Method File : fixedw8260-100617.M

44)	Dibromomethane	0.287	0.291	0.319	0.344	0.312	0.311	7.46
45)	1,4-Dioxane	0.006	0.006	0.006	0.006	0.008	0.006	17.52
46)	Methyl Methacr...	0.352	0.360	0.355	0.349	0.307	0.345	6.23
47)	Bromodichlorom...	0.485	0.498	0.534	0.573	0.528	0.524	6.55
48)	cis-1,3-Dichlo...	0.552	0.549	0.577	0.586	0.543	0.561	3.33
49)	trans-1,3-Dich...	0.499	0.492	0.509	0.513	0.422	0.487	7.69
50)	1,1,2-Trichlor...	0.345	0.351	0.401	0.420	0.387	0.381	8.47
51)	1,3-Dichloropr...	0.620	0.608	0.674	0.752	0.654	0.662	8.59
52)	1,2-Dibromoethane	0.356	0.357	0.374	0.399	0.346	0.366	5.64
53)	Dibromochlorom...	0.416	0.413	0.448	0.486	0.433	0.439	6.80
54)	Bromoform	0.306	0.300	0.319	0.329	0.324	0.316	3.82
55)	4-Methyl-2-Pen...	0.424	0.430	0.424	0.462	0.444	0.437	3.79
56) s	Toluene-d8	1.257	1.255	1.281	1.279	1.305	1.275	1.60
57)	Toluene	0.958	1.001	1.056	1.077	1.069	1.033	4.94
58)	Ethyl Metacrylate	0.576	0.564	0.549	0.511	0.493	0.539	6.54
59)	Tetrachloroethene	0.315	0.334	0.347	0.364	0.372	0.346	6.65
60)	2-Hexanone	0.298	0.284	0.270	0.276	0.313	0.288	6.09
61) I	1,4-Dichlorobenzen...	-----ISTD-----						
62)	Chlorobenzene	1.925	2.024	2.196	2.506	2.344	2.199	10.67
63)	1,1,1,2-Tetrac...	0.665	0.701	0.764	0.931	0.847	0.782	13.85
64)	Ethylbenzene	1.062	1.120	1.187	1.306	1.205	1.176	7.84
65)	m,p-Xylene	2.592	2.747	2.916	3.160	2.996	2.882	7.64
66)	o-Xylene	1.287	1.356	1.444	1.570	1.526	1.437	8.14
67)	Styrene	2.143	2.154	2.253	2.197	2.138	2.177	2.23
68)	Isopropylbenzene	3.277	3.445	3.660	3.881	3.807	3.614	6.95
69)	Chloroprene	0.098	0.091	0.080	0.078	0.081	0.086	10.01
70)	trans-1,4-Dich...	0.081	0.068	0.061	0.041	0.052	0.061	24.83
71)	Bromobenzene	1.480	1.481	1.591	1.797	1.662	1.602	8.33
72)	1,2,3-Trichlor...	0.949	0.948	0.969	1.168	1.156	1.038	10.96
73)	2-Chlorotoluene	2.229	2.277	2.472	2.764	2.643	2.477	9.27
74)	4-Chlorotoluene	2.474	2.469	2.607	2.708	2.702	2.592	4.51
75)	1,3,5-Trimethy...	2.730	2.807	2.945	3.023	2.931	2.887	4.06
76)	tert-Butylbenzene	2.304	2.416	2.499	2.617	2.598	2.487	5.23
77)	1,2,4-Trimethy...	2.726	2.749	2.844	2.819	2.684	2.765	2.39
78) S	Bromofluoroben...	0.949	0.953	0.994	1.036	1.000	0.986	3.64
79)	1,1,2,2-Tetrac...	0.819	0.838	0.904	1.093	1.090	0.949	14.15
80)	n-Propylbenzene	3.538	3.666	3.787	3.914	3.752	3.731	3.76
81)	1,3-Dichlorobe...	1.462	1.433	1.533	1.598	1.555	1.516	4.48
82)	sec-Butylbenzene	3.121	3.272	3.353	3.262	3.357	3.273	2.93
83)	4-Isopropyltol...	2.705	2.733	2.727	2.532	2.456	2.630	4.87
84)	1,4-Dichlorobe...	1.452	1.377	1.433	1.605	1.509	1.475	5.87
85)	1,2-Dichlorobe...	1.387	1.318	1.443	1.583	1.490	1.444	6.96
86)	n-Butylbenzene	1.973	1.837	1.806	1.651	1.741	1.802	6.63
87)	1,2-Dibromo-3-...	0.129	0.126	0.110	0.134	0.162	0.132	14.05
88)	1,2,4-Trichlor...	0.625	0.473	0.444	0.400	0.409	0.470	19.41
89)	Hexachlorobuta...	0.416	0.399	0.413	0.452	0.433	0.423	4.85
90)	Naphthalene	0.916	0.594	0.368	0.403	0.415	0.539	42.31
91)	1,2,3-Trichlor...	0.461	0.347	0.283	0.269	0.303	0.333	23.25

(#) = Out of Range



Data Path : C:\msdchem\1\DATA\101317\
 Data File : d9311.D
 Acq On : 14 Oct 2017 2:21
 Operator :
 Sample : vstd050
 Misc : ccv e8260w
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Oct 16 08:48:10 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Fri Oct 13 15:29:24 2017
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Difluorobenzene	1.000	1.000	0.0	121	0.01
2	Dichlorodifluoromethane	0.194	0.167	13.9	98	0.05
3	Chloromethane	0.468	0.421	10.0	108	0.05
4	Vinyl Chloride	0.347	0.314	9.5	108	0.04
5	Bromomethane	0.237	0.197	16.9	98	0.04
6	Chloroethane	0.216	0.174	19.4	101	0.06
7	Acrolein	0.047	0.042	10.6	105	0.04
8	Trichlorofluoromethane	0.411	0.380	7.5	105	0.05
9	Freon113	0.195	0.201	-3.1	114	0.05
10	1,1-Dichloroethene	0.285	0.255	10.5	101	0.05
11	Allyl Chloride	1.058	0.919	13.1	106	0.05
12	Carbon Disulfide	0.771	0.640	17.0	94	0.05
13	Acetone	0.186	0.138	25.8#	98	0.03
14	Iodomethane	0.137	0.077	43.8#	69	0.05
15	Acetonitrile	0.040	0.029	27.5#	103	0.03
16	Methyl Acetate	0.262	0.270	-3.1	113	0.04
17	Methylene Chloride	0.382	0.305	20.2	101	0.05
18	Acrylonitrile	0.163	0.133	18.4	97	0.03
19	trans-1,2-Dichloroethene	0.309	0.286	7.4	107	0.04
20	Mtbe	0.888	0.828	6.8	107	0.04
21	1,1-Dichloroethane	0.595	0.532	10.6	104	0.03
22	Hexane	0.097	0.118	-21.6	129	0.04
23	cis-1,2-Dichloroethene	0.475	0.437	8.0	103	0.03
24	2,2-Dichloropropane	0.220	0.266	-20.9	131	0.03
25	Propionitrile	0.066	0.050	24.2	101	0.02
26	Bromochloromethane	0.182	0.168	7.7	104	0.03
27	Methacrylonitrile	0.183	0.156	14.8	102	0.02
28	Chloroform	0.596	0.522	12.4	102	0.03
29	Cyclohexane	0.361	0.351	2.8	114	0.02
30	1,1-Dichloro-1-propene	0.425	0.389	8.5	106	0.02
31	1,2-Dichloroethane	0.477	0.428	10.3	106	0.02
32	2-Butanone	0.206	0.178	13.6	109	0.03
33 s	1,2-Dichloroethane-d4	0.305	0.305	0.0	121	0.02
34 I	Chlorobenzene-d5	1.000	1.000	0.0	116	0.00
35	1,1,1-Trichloroethane	0.555	0.516	7.0	108	0.02
36	Carbon Tetrachloride	0.440	0.439	0.2	109	0.02
37	Benzene	1.590	1.495	6.0	106	0.03
38	Isobutanol	0.022	0.016	27.3#	98	0.00
39	Heptane	0.221	0.281	-27.1#	136	0.02
40	Trichloroethene	0.408	0.386	5.4	106	0.02
41	Methyl Cyclohexane	0.416	0.446	-7.2	118	0.02
42	1,2-Dichloropropane	0.394	0.371	5.8	108	0.02
43	Vinyl Acetate	0.363	0.447	-23.1	117	0.04
44	Dibromomethane	0.311	0.274	11.9	100	0.02
45	1,4-Dioxane	0.006	0.005	16.7	97	0.00
46	Methyl Methacrylate	0.345	0.320	7.2	104	0.02
47	Bromodichloromethane	0.524	0.490	6.5	106	0.02
48	cis-1,3-Dichloropropene	0.561	0.529	5.7	106	0.02
49	trans-1,3-Dichloropropene	0.487	0.482	1.0	110	0.01
50	1,1,2-Trichloroethane	0.381	0.342	10.2	99	0.00
51	1,3-Dichloropropane	0.662	0.587	11.3	101	0.00
52	1,2-Dibromoethane	0.366	0.342	6.6	106	0.00
53	Dibromochloromethane	0.439	0.404	8.0	104	0.00

Data Path : C:\msdchem\1\DATA\101317\
 Data File : d9311.D
 Acq On : 14 Oct 2017 2:21
 Operator :
 Sample : vstd050
 Misc : ccv e8260w
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Oct 16 08:48:10 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Fri Oct 13 15:29:24 2017
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	Bromoform	0.316	0.284	10.1	103	0.00
55	4-Methyl-2-Pentanone	0.437	0.366	16.2	100	0.01
56 s	Toluene-d8	1.275	1.295	-1.6	117	0.00
57	Toluene	1.033	0.958	7.3	105	0.02
58	Ethyl Metacrylate	0.539	0.525	2.6	111	0.00
59	Tetrachloroethene	0.346	0.316	8.7	106	0.01
60	2-Hexanone	0.288	0.233	19.1	100	0.00
61 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	111	0.00
62	Chlorobenzene	2.199	2.023	8.0	102	0.00
63	1,1,1,2-Tetrachloroethane	0.782	0.728	6.9	106	0.00
64	Ethylbenzene	1.176	1.105	6.0	103	0.00
65	m,p-Xylene	2.882	2.748	4.6	105	0.00
66	o-Xylene	1.437	1.375	4.3	106	0.00
67	Styrene	2.177	2.137	1.8	105	0.00
68	Isopropylbenzene	3.614	3.419	5.4	104	0.00
69	Chloroprene	0.086	0.084	2.3	117	0.00
70	trans-1,4-Dichloro-2-butene	0.061	0.056	8.2	102	0.01
71	Bromobenzene	1.602	1.470	8.2	102	0.00
72	1,2,3-Trichloropropane	1.038	0.862	17.0	99	0.00
73	2-Chlorotoluene	2.477	2.279	8.0	102	0.00
74	4-Chlorotoluene	2.592	2.436	6.0	104	0.00
75	1,3,5-Trimethylbenzene	2.887	2.708	6.2	102	0.00
76	tert-Butylbenzene	2.487	2.355	5.3	105	0.00
77	1,2,4-Trimethylbenzene	2.765	2.698	2.4	105	0.00
78 S	Bromofluorobenzene	0.986	0.973	1.3	109	0.00
79	1,1,2,2-Tetrachloroethane	0.949	0.792	16.5	97	0.00
80	n-Propylbenzene	3.731	3.544	5.0	104	0.00
81	1,3-Dichlorobenzene	1.516	1.313	13.4	95	0.00
82	sec-Butylbenzene	3.273	3.060	6.5	101	0.00
83	4-Isopropyltoluene	2.630	2.526	4.0	103	0.00
84	1,4-Dichlorobenzene	1.475	1.257	14.8	97	0.00
85	1,2-Dichlorobenzene	1.444	1.205	16.6	93	0.00
86	n-Butylbenzene	1.802	1.688	6.3	104	0.00
87	1,2-Dibromo-3-Chloropr	0.132	0.088	33.3#	89	0.00
88	1,2,4-Trichlorobenzene	0.470	0.277	41.1#	69	0.00
89	Hexachlorobutadiene	0.423	0.331	21.7	89	0.00
90	Naphthalene	0.539	0.155	71.2#	47#	0.00
91	1,2,3-Trichlorobenzene	0.333	0.153	54.1#	60	0.00

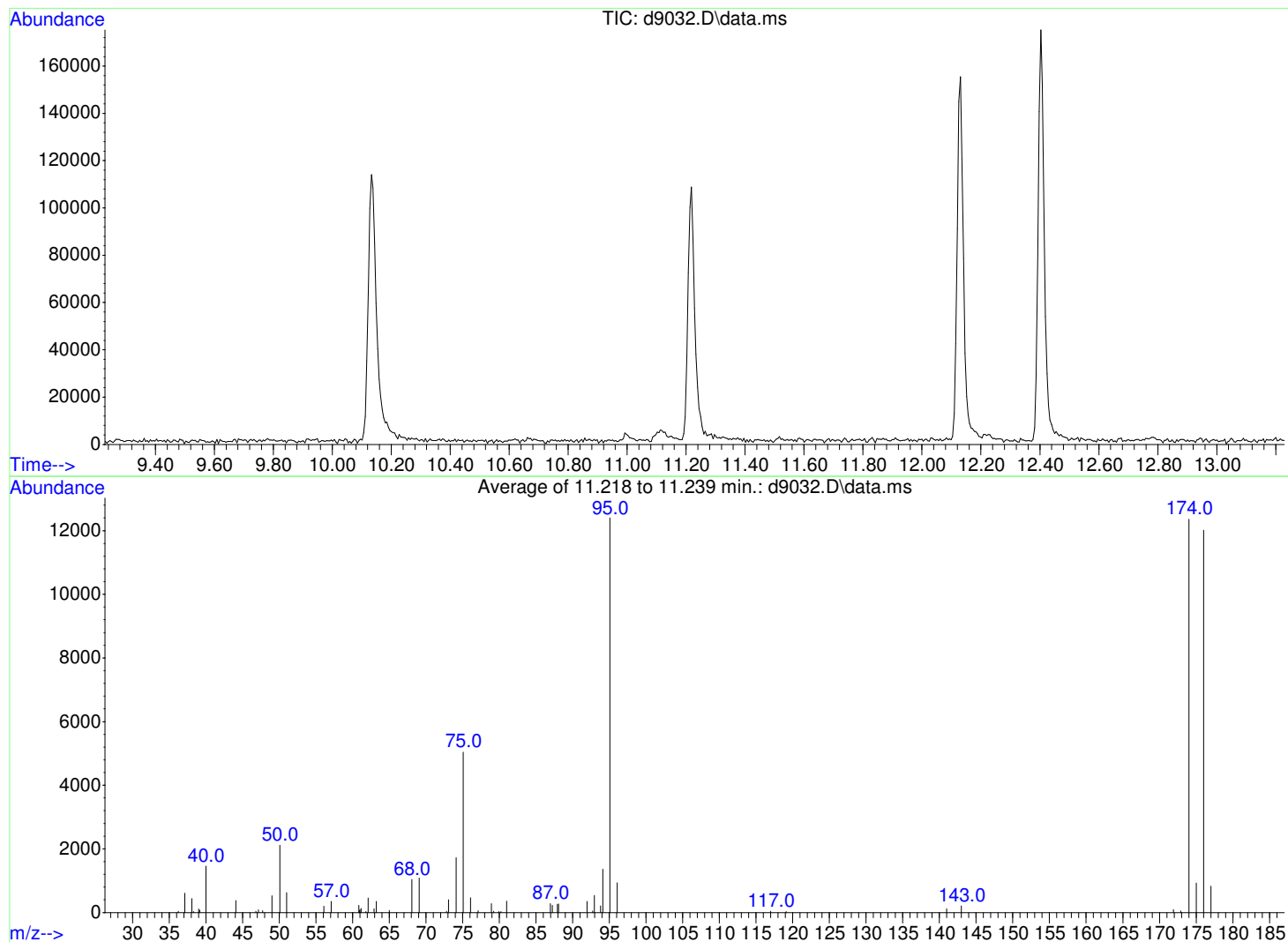
(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : C:\msdchem\1\DATA\100617\
 Data File : d9032.D
 Acq On : 7 Oct 2017 4:39
 Operator :
 Sample : bfb
 Misc : tune bfb
 ALS Vial : 72 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
 Title : Voa Calibration 8260 Water
 Last Update : Fri Oct 13 15:29:24 2017



Spectrum Information: Average of 11.218 to 11.239 min.

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	17.0	2113	PASS
75	95	30	60	40.6	5036	PASS
95	95	100	100	100.0	12407	PASS
96	95	5	9	7.5	934	PASS
173	174	0.00	2	0.4	47	PASS
174	95	50	100	99.6	12361	PASS
175	174	5	9	7.5	928	PASS
176	174	95	101	97.2	12012	PASS
177	176	5	9	6.9	825	PASS

Data Path : C:\msdchem\1\DATA\100617\
 Data File : d9037.D
 Acq On : 7 Oct 2017 6:34
 Operator :
 Sample : vstd005
 Misc : ical e8260w
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Oct 13 14:23:35 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100417.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Thu Oct 05 09:03:09 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.599	114	283412	50.00	ug	0.01
34) Chlorobenzene-d5	10.133	117	246167	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.403	152	114449	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.043	65	86660	50.02	ug	0.02
57) Toluene-d8	8.439	98	314767	49.36	ug	0.00
79) Bromofluorobenzene	11.213	95	118536	52.20	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.524	85	4869	4.29	ug	95
3) Chloromethane	1.699	50	15905	7.13	ug	99
4) Vinyl Chloride	1.797	62	10423	6.18	ug	98
5) Bromomethane	2.098	94	8109	6.90	ug	97
6) Chloroethane	2.186	64	5707	6.37	ug	99
7) Acrolein	2.923	56	5511m	21.48	ug	
8) Trichlorofluoromethane	2.452	101	11599	4.78	ug	99
9) Freon113	3.018	101	4561	2.94	ug	99
10) 1,1-Dichloroethene	3.002	96	8323	5.33	ug	91
11) Allyl Chloride	3.432	41	27637	5.65	ug	81
12) Carbon Disulfide	3.243	76	22799	5.36	ug	100
13) Acetone	3.091	43	7106m	9.90	ug	
14) Iodomethane	3.170	142	2818	4.62	ug	96
15) Acetonitrile	3.422	40	19161m	108.35	ug	
16) Methyl Acetate	3.495	43	7827m	4.32	ug	
17) Methylene Chloride	3.558	84	14443m	7.62	ug	
18) Acrylonitrile	3.872	53	20643m	28.90	ug	
19) trans-1,2-Dichloroethene	3.888	96	9234	5.60	ug	96
20) Mtbe	3.909	73	51589	12.32	ug	99
21) 1,1-Dichloroethane	4.370	63	18553	6.07	ug	86
22) Hexane	4.234	43	1939	1.89	ug	# 86
23) cis-1,2-Dichloroethene	5.078	61	13381	5.28	ug	89
24) 2,2-Dichloropropane	5.073	77	3018	1.75	ug	# 23
25) Propionitrile	5.188	54	19701m	74.91	ug	
26) Bromochloromethane	5.346	128	5614m	5.92	ug	
27) Methacrylonitrile	5.346	67	50933m	62.34	ug	
28) Chloroform	5.445	83	18641	6.16	ug	96
29) Cyclohexane	5.734	84	9022	3.32	ug	# 84
30) 1,1-Dichloro-1-propene	5.875	75	11630	5.11	ug	99
31) 1,2-Dichloroethane	6.137	62	15213	6.23	ug	95
32) 2-Butanone	5.146	43	5436m	6.05	ug	
35) 1,1,1-Trichloroethane	5.666	97	14081	5.42	ug	98
36) Carbon Tetrachloride	5.870	117	9825	4.40	ug	96
37) Benzene	6.116	78	42367	5.90	ug	100
38) Isobutanol	6.074	43	10721m	150.36	ug	
39) Heptane	6.483	43	3411	1.64	ug	# 1
40) Trichloroethene	6.919	130	10667	5.54	ug	94
41) Methyl Cyclohexane	7.149	83	8004	2.57	ug	93
42) 1,2-Dichloropropane	7.176	63	11109m	6.33	ug	
43) Vinyl Acetate	4.502	43	8545	3.36	ug	# 100
44) Dibromomethane	7.317	174	8476m	6.31	ug	
45) 1,4-Dioxane	7.385	88	2761m	133.70	ug	
46) Methyl Methacrylate	7.370	69	8597m	5.92	ug	
47) Bromodichloromethane	7.527	83	14095	5.87	ug	90
49) cis-1,3-Dichloropropene	8.109	75	14424	5.50	ug	93
50) trans-1,3-Dichloropropene	8.827	75	12640m	5.28	ug	
51) 1,1,2-Trichloroethane	9.042	97	10344	6.22	ug	96
52) 1,3-Dichloropropane	9.246	76	18503	6.48	ug	100

Data Path : C:\msdchem\1\DATA\100617\
 Data File : d9037.D
 Acq On : 7 Oct 2017 6:34
 Operator :
 Sample : vstd005
 Misc : ical e8260w
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Oct 13 14:23:35 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100417.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Thu Oct 05 09:03:09 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) 1,2-Dibromoethane	9.634	107	9815m	6.11	ug	
54) Dibromochloromethane	9.509	129	11976	6.10	ug	92
55) Bromoform	10.924	173	8098	5.96	ug	100
56) 4-Methyl-2-Pentanone	8.324	43	11381m	6.88	ug	
58) Toluene	8.533	92	26515	5.65	ug	98
59) Ethyl Metacrylate	8.979	69	12589	5.58	ug	94
60) Tetrachloroethene	9.231	164	8954	5.39	ug	94
61) 2-Hexanone	9.393	43	6783m	6.12	ug	
63) Chlorobenzene	10.159	112	28676	6.08	ug	99
64) 1,1,1,2-Tetrachloroethane	10.248	133	10654	6.40	ug	94
65) Ethylbenzene	10.285	106	14943	5.87	ug	91
66) m,p-Xylene	10.400	91	72329	11.53	ug	97
67) o-Xylene	10.762	106	17966	5.81	ug	94
68) Styrene	10.777	104	25140	5.16	ug	93
69) Isopropylbenzene	11.092	105	44412	5.72	ug	94
70) Chloroprene	11.144	53	1788	8.80	ug	87
71) trans-1,4-Dichloro-2-b...	11.391	88	473	3.13	ug	# 1
72) Bromobenzene	11.338	77	20566	6.00	ug	# 76
73) 1,2,3-Trichloropropane	11.365	75	13372	6.58	ug	# 77
74) 2-Chlorotoluene	11.501	91	31629	5.84	ug	99
75) 4-Chlorotoluene	11.585	91	30990	5.32	ug	97
76) 1,3,5-Trimethylbenzene	11.574	105	34599	5.38	ug	94
77) tert-Butylbenzene	11.831	119	29950	5.39	ug	100
78) 1,2,4-Trimethylbenzene	11.868	105	32265	5.20	ug	99
80) 1,1,2,2-Tetrachloroethane	11.328	83	12506	6.88	ug	97
81) n-Propylbenzene	11.433	91	44795	5.32	ug	100
82) 1,3-Dichlorobenzene	12.078	146	18294	5.43	ug	97
83) sec-Butylbenzene	11.999	105	37332	4.96	ug	99
84) 4-Isopropyltoluene	12.109	119	28977	4.68	ug	95
85) 1,4-Dichlorobenzene	12.146	146	18368m	5.56	ug	
86) 1,2-Dichlorobenzene	12.419	146	18118	5.87	ug	# 47
87) n-Butylbenzene	12.408	91	18898	4.13	ug	92
88) 1,2-Dibromo-3-Chloropr	12.964	157	1534	5.87	ug	# 70
89) 1,2,4-Trichlorobenzene	13.530	180	4583	4.26	ug	94
90) Hexachlorobutadiene	13.635	225	5176	5.26	ug	99
91) Naphthalene	13.698	128	4607	3.67	ug	# 77
92) 1,2,3-Trichlorobenzene	13.850	180	3082m	4.07	ug	

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

Data Path : C:\msdchem\1\DATA\100617\
 Data File : d9038.D
 Acq On : 7 Oct 2017 6:59
 Operator :
 Sample : vstd010
 Misc : ical e8260w
 ALS Vial : 34 Sample Multiplier: 1

Quant Time: Oct 13 14:24:46 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Fri Oct 13 15:24:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.588	114	245901	50.00	ug	-0.01
34) Chlorobenzene-d5	10.133	117	212380	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.403	152	101079	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.022	65	78584	52.26	ug	-0.02
57) Toluene-d8	8.434	98	277131	51.02	ug	0.00
79) Bromofluorobenzene	11.213	95	101075	48.27	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.505	85	10451	12.37	ug	100
3) Chloromethane	1.670	50	23449	8.50	ug	99
4) Vinyl Chloride	1.777	62	16840	9.31	ug	96
5) Bromomethane	2.079	94	12480	8.87	ug	98
6) Chloroethane	2.166	64	10678	10.78	ug	96
7) Acrolein	2.892	56	9560	39.99	ug	98
8) Trichlorofluoromethane	2.425	101	20776	10.32	ug	98
9) Freon113	2.992	101	10303	13.02	ug	94
10) 1,1-Dichloroethene	2.976	96	14076	9.75	ug	89
11) Allyl Chloride	3.395	41	59625m	12.43	ug	
12) Carbon Disulfide	3.217	76	36586	9.25	ug	100
13) Acetone	3.075	43	10424m	8.45	ug	
14) Iodomethane	3.138	142	5203	10.64	ug	88
15) Acetonitrile	3.411	40	12746	38.33	ug	# 47
16) Methyl Acetate	3.458	43	13750	10.12	ug	94
17) Methylene Chloride	3.537	84	18847	7.52	ug	84
18) Acrylonitrile	3.851	53	26426	29.51	ug	92
19) trans-1,2-Dichloroethene	3.862	96	14332	8.94	ug	92
20) Mtbe	3.883	73	77115	17.23	ug	99
21) 1,1-Dichloroethane	4.355	63	29273	9.09	ug	87
22) Hexane	4.213	43	5474	16.27	ug	88
23) cis-1,2-Dichloroethene	5.063	61	22484	9.68	ug	92
24) 2,2-Dichloropropane	5.047	77	10801	20.62	ug	96
25) Propionitrile	5.173	54	33783	98.82	ug	# 80
26) Bromochloromethane	5.330	128	8539	8.77	ug	# 65
27) Methacrylonitrile	5.330	67	90398	102.28	ug	92
28) Chloroform	5.435	83	29020	8.97	ug	99
29) Cyclohexane	5.723	84	18602	11.88	ug	# 88
30) 1,1-Dichloro-1-propene	5.860	75	21338	10.57	ug	97
31) 1,2-Dichloroethane	6.122	62	22996	8.71	ug	94
32) 2-Butanone	5.131	43	11842m	12.55	ug	
35) 1,1,1-Trichloroethane	5.660	97	25048	10.31	ug	99
36) Carbon Tetrachloride	5.860	117	18281	10.78	ug	94
37) Benzene	6.101	78	68711	9.40	ug	100
38) Isobutanol	6.095	43	21704	234.65	ug	# 89
39) Heptane	6.478	43	10752	18.27	ug	# 85
40) Trichloroethene	6.908	130	17572	9.55	ug	95
41) Methyl Cyclohexane	7.144	83	20371	14.75	ug	94
42) 1,2-Dichloropropane	7.165	63	16465	8.59	ug	76
43) Vinyl Acetate	4.465	43	13160	8.93	ug	# 100
44) Dibromomethane	7.317	174	13244	9.06	ug	87
45) 1,4-Dioxane	7.406	88	6895	289.46	ug	# 75
46) Methyl Methacrylate	7.359	69	13036	8.79	ug	# 81
47) Bromodichloromethane	7.516	83	22443	9.23	ug	85
49) cis-1,3-Dichloropropene	8.093	75	23071	9.27	ug	99
50) trans-1,3-Dichloropropene	8.817	75	17909	8.21	ug	88
51) 1,1,2-Trichloroethane	9.037	97	16454	9.22	ug	81
52) 1,3-Dichloropropane	9.247	76	27789	8.70	ug	85

Data Path : C:\msdchem\1\DATA\100617\
 Data File : d9038.D
 Acq On : 7 Oct 2017 6:59
 Operator :
 Sample : vstd010
 Misc : ical e8260w
 ALS Vial : 34 Sample Multiplier: 1

Quant Time: Oct 13 14:24:46 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Fri Oct 13 15:24:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) 1,2-Dibromoethane	9.629	107	14715	8.69	ug	85
54) Dibromochloromethane	9.503	129	18379	8.89	ug	92
55) Bromoform	10.919	173	13757	9.85	ug	99
56) 4-Methyl-2-Pentanone	8.324	43	18856	9.60	ug	99
58) Toluene	8.518	92	45428	9.93	ug	97
59) Ethyl Metacrylate	8.974	69	20953	9.65	ug	# 95
60) Tetrachloroethene	9.226	164	15788	10.22	ug	98
61) 2-Hexanone	9.399	43	13303m	11.37	ug	
63) Chlorobenzene	10.159	112	47386	9.36	ug	100
64) 1,1,1,2-Tetrachloroethane	10.243	133	17126	9.10	ug	99
65) Ethylbenzene	10.279	106	24368	9.23	ug	97
66) m,p-Xylene	10.395	91	121126	18.96	ug	93
67) o-Xylene	10.762	106	30851	9.72	ug	99
68) Styrene	10.778	104	43220	9.73	ug	91
69) Isopropylbenzene	11.087	105	76964	9.81	ug	97
70) Chloroprene	11.139	53	3283	20.79	ug	97
71) trans-1,4-Dichloro-2-b...	11.391	88	1052	12.59	ug	# 1
72) Bromobenzene	11.339	77	33605	9.25	ug	# 78
73) 1,2,3-Trichloropropane	11.359	75	23372	9.90	ug	# 82
74) 2-Chlorotoluene	11.496	91	53421	9.56	ug	98
75) 4-Chlorotoluene	11.585	91	54618	9.98	ug	96
76) 1,3,5-Trimethylbenzene	11.574	105	59252	9.70	ug	91
77) tert-Butylbenzene	11.831	119	52524	9.93	ug	98
78) 1,2,4-Trimethylbenzene	11.868	105	54259	9.52	ug	99
80) 1,1,2,2-Tetrachloroethane	11.333	83	22044	9.98	ug	94
81) n-Propylbenzene	11.433	91	75844	9.59	ug	99
82) 1,3-Dichlorobenzene	12.078	146	31440	9.73	ug	96
83) sec-Butylbenzene	11.999	105	67857	10.29	ug	97
84) 4-Isopropyltoluene	12.109	119	49647	9.70	ug	97
85) 1,4-Dichlorobenzene	12.146	146	30511m	9.40	ug	
86) 1,2-Dichlorobenzene	12.419	146	30115	9.41	ug	# 74
87) n-Butylbenzene	12.408	91	35195	10.54	ug	92
88) 1,2-Dibromo-3-Chloropr	12.959	157	3267	12.06	ug	# 87
89) 1,2,4-Trichlorobenzene	13.530	180	8261	10.20	ug	96
90) Hexachlorobutadiene	13.635	225	8754	9.57	ug	# 90
91) Naphthalene	13.693	128	8396	10.32	ug	98
92) 1,2,3-Trichlorobenzene	13.845	180	6135	11.27	ug	96

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

Data Path : C:\msdchem\1\DATA\100617\
 Data File : d9039.D
 Acq On : 7 Oct 2017 7:20
 Operator :
 Sample : vstd050
 Misc : ical e8260w
 ALS Vial : 34 Sample Multiplier: 1

Quant Time: Oct 13 14:25:55 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Fri Oct 13 15:25:07 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.588	114	256266	50.00	ug	0.00
34) Chlorobenzene-d5	10.127	117	235650	50.00	ug	0.00
61) 1,4-Dichlorobenzene-d4	12.403	152	122293	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.027	65	77981	48.66	ug	0.00
56) Toluene-d8	8.434	98	301848	49.58	ug	0.00
78) Bromofluorobenzene	11.207	95	121508	48.81	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.505	85	52736	53.55	ug	100
3) Chloromethane	1.680	50	120731	45.39	ug	99
4) Vinyl Chloride	1.777	62	89875	49.38	ug	100
5) Bromomethane	2.069	94	62341	45.06	ug	97
6) Chloroethane	2.166	64	53098	49.51	ug	96
7) Acrolein	2.881	56	49826	200.01	ug	96
8) Trichlorofluoromethane	2.430	101	111556	52.34	ug	99
9) Freon113	2.991	101	54337	57.24	ug	93
10) 1,1-Dichloroethene	2.976	96	78111	52.56	ug	94
11) Allyl Chloride	3.395	41	268232	47.85	ug	77
12) Carbon Disulfide	3.222	76	210651	53.09	ug	100
13) Acetone	3.054	43	43748m	36.90	ug	
14) Iodomethane	3.138	142	34262	65.15	ug	91
15) Acetonitrile	3.369	40	88259	368.25	ug	91
16) Methyl Acetate	3.448	43	73930	51.91	ug	98
17) Methylene Chloride	3.537	84	93197	40.73	ug	85
18) Acrylonitrile	3.830	53	170236	209.94	ug	99
19) trans-1,2-Dichloroethene	3.867	96	82332	52.05	ug	96
20) Mtbe	3.878	73	477255	109.93	ug	99
21) 1,1-Dichloroethane	4.355	63	157245	49.09	ug	88
22) Hexane	4.218	43	28261	61.36	ug	96
23) cis-1,2-Dichloroethene	5.052	61	130996	55.01	ug	100
24) 2,2-Dichloropropane	5.052	77	62963	75.34	ug	90
25) Propionitrile	5.136	54	153887	434.49	ug	92
26) Bromochloromethane	5.330	128	50110	52.60	ug	78
27) Methacrylonitrile	5.325	67	470495	505.05	ug	95
28) Chloroform	5.435	83	157962	49.40	ug	96
29) Cyclohexane	5.728	84	94791	53.10	ug	87
30) 1,1-Dichloro-1-propene	5.865	75	113740	52.57	ug	97
31) 1,2-Dichloroethane	6.116	62	124711	48.45	ug	99
32) 2-Butanone	5.089	43	50447	45.51	ug	98
35) 1,1,1-Trichloroethane	5.650	97	131152	47.91	ug	98
36) Carbon Tetrachloride	5.859	117	109863	56.20	ug	96
37) Benzene	6.101	78	385515	49.00	ug	100
38) Isobutanol	6.048	43	86904	779.27	ug	# 77
39) Heptane	6.473	43	56327	61.02	ug	# 92
40) Trichloroethene	6.903	130	99566	49.88	ug	96
41) Methyl Cyclohexane	7.144	83	103675	54.67	ug	91
42) 1,2-Dichloropropane	7.165	63	93566	47.33	ug	88
43) Vinyl Acetate	4.454	43	104722	67.65	ug	# 100
44) Dibromomethane	7.312	174	75128	48.59	ug	94
45) 1,4-Dioxane	7.369	88	26570	821.55	ug	92
46) Methyl Methacrylate	7.354	69	83688	54.13	ug	# 85
47) Bromodichloromethane	7.511	83	125875	48.52	ug	87
48) cis-1,3-Dichloropropene	8.088	75	135892	51.07	ug	96
49) trans-1,3-Dichloropropene	8.806	75	119845	54.39	ug	98
50) 1,1,2-Trichloroethane	9.031	97	94559	49.69	ug	98
51) 1,3-Dichloropropane	9.241	76	158834	47.94	ug	91

Data Path : C:\msdchem\1\DATA\100617\
 Data File : d9039.D
 Acq On : 7 Oct 2017 7:20
 Operator :
 Sample : vstd050
 Misc : ical e8260w
 ALS Vial : 34 Sample Multiplier: 1

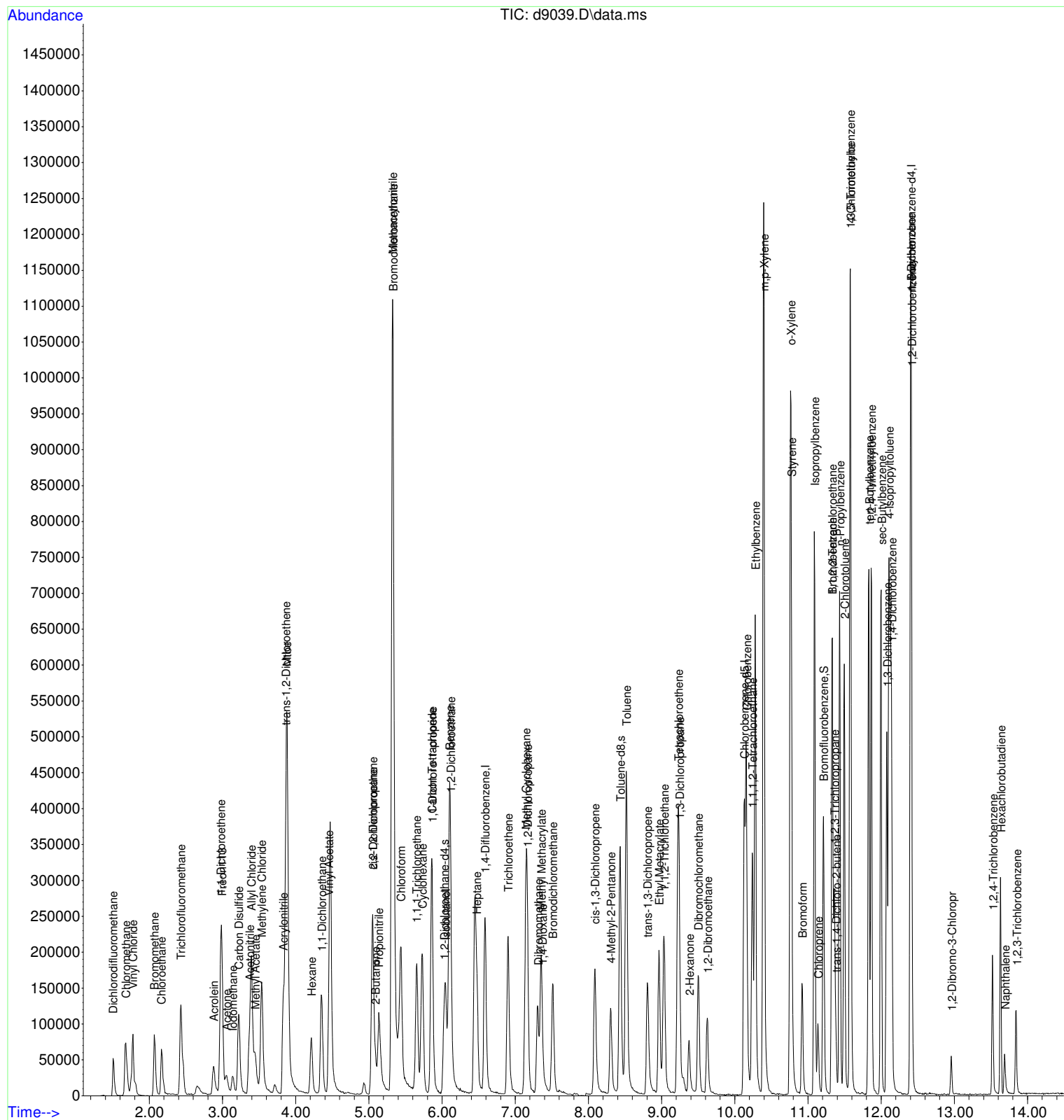
Quant Time: Oct 13 14:25:55 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Fri Oct 13 15:25:07 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) 1,2-Dibromoethane	9.624	107	88220	50.24	ug	95
53) Dibromochloromethane	9.498	129	105588	48.75	ug	93
54) Bromoform	10.919	173	75066	48.79	ug	97
55) 4-Methyl-2-Pentanone	8.303	43	99859	46.76	ug	99
57) Toluene	8.518	92	248893	49.20	ug	99
58) Ethyl Metacrylate	8.963	69	129292	54.61	ug	98
59) Tetrachloroethene	9.225	164	81778	47.19	ug	99
60) 2-Hexanone	9.377	43	63594	45.84	ug	95
62) Chlorobenzene	10.159	112	268592	45.29	ug	100
63) 1,1,1,2-Tetrachloroethane	10.237	133	93488	42.99	ug	96
64) Ethylbenzene	10.279	106	145124	47.26	ug	94
65) m,p-Xylene	10.395	91	713205	94.74	ug	98
66) o-Xylene	10.762	106	176563	46.64	ug	97
67) Styrene	10.772	104	275549	51.98	ug	91
68) Isopropylbenzene	11.087	105	447591	47.61	ug	98
69) Chloroprene	11.134	53	19507	100.12	ug	90
70) trans-1,4-Dichloro-2-b...	11.380	88	7488	65.58	ug	# 1
71) Bromobenzene	11.328	77	194625	46.01	ug	# 76
72) 1,2,3-Trichloropropane	11.359	75	118446	41.67	ug	# 79
73) 2-Chlorotoluene	11.496	91	302360	45.73	ug	96
74) 4-Chlorotoluene	11.580	91	318833	48.20	ug	98
75) 1,3,5-Trimethylbenzene	11.574	105	360131	49.46	ug	95
76) tert-Butylbenzene	11.831	119	305597	47.92	ug	98
77) 1,2,4-Trimethylbenzene	11.863	105	347823	51.68	ug	100
79) 1,1,2,2-Tetrachloroethane	11.328	83	110579	41.42	ug	96
80) n-Propylbenzene	11.433	91	463072	49.40	ug	99
81) 1,3-Dichlorobenzene	12.078	146	187505	48.62	ug	97
82) sec-Butylbenzene	11.999	105	410109	50.67	ug	100
83) 4-Isopropyltoluene	12.104	119	333502	54.68	ug	98
84) 1,4-Dichlorobenzene	12.141	146	175200m	46.00	ug	
85) 1,2-Dichlorobenzene	12.413	146	176424	46.95	ug	97
86) n-Butylbenzene	12.403	91	220831	53.23	ug	94
87) 1,2-Dibromo-3-Chloropr	12.958	157	13510	37.37	ug	# 85
88) 1,2,4-Trichlorobenzene	13.519	180	54310	54.89	ug	96
89) Hexachlorobutadiene	13.630	225	50538	46.68	ug	# 90
90) Naphthalene	13.687	128	45045	45.04	ug	99
91) 1,2,3-Trichlorobenzene	13.845	180	34610	49.41	ug	97

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

Data Path : C:\msdchem\1\DATA\100617\
 Data File : d9039.D
 Acq On : 7 Oct 2017 7:20
 Operator :
 Sample : vstd050
 Misc : ical e8260w
 ALS Vial : 34 Sample Multiplier: 1

Quant Time: Oct 13 14:25:55 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Fri Oct 13 15:25:07 2017
 Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\100617\
 Data File : d9041.D
 Acq On : 7 Oct 2017 8:05
 Operator :
 Sample : vstd100
 Misc : ical e8260w
 ALS Vial : 35 Sample Multiplier: 1

Quant Time: Oct 13 14:26:55 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Fri Oct 13 15:26:11 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.578	114	251696	50.00	ug	-0.01
34) Chlorobenzene-d5	10.127	117	227659	50.00	ug	0.00
61) 1,4-Dichlorobenzene-d4	12.403	152	120711	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.022	65	73671	47.23	ug	0.00
56) Toluene-d8	8.429	98	285743	48.72	ug	0.00
78) Bromofluorobenzene	11.207	95	115054	47.20	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.495	85	99024	100.01	ug	100
3) Chloromethane	1.670	50	213392	84.27	ug	99
4) Vinyl Chloride	1.768	62	171107	96.12	ug	99
5) Bromomethane	2.069	94	109460	83.30	ug	84
6) Chloroethane	2.156	64	111776	106.46	ug	93
7) Acrolein	2.866	56	87593	357.99	ug	95
8) Trichlorofluoromethane	2.420	101	200983	94.53	ug	98
9) Freon113	2.981	101	102644	105.02	ug	95
10) 1,1-Dichloroethene	2.965	96	139711	94.11	ug	93
11) Allyl Chloride	3.385	41	527537m	97.21	ug	
12) Carbon Disulfide	3.207	76	382084	96.06	ug	100
13) Acetone	3.049	43	76697m	72.16	ug	
14) Iodomethane	3.128	142	75989	133.62	ug	92
15) Acetonitrile	3.385	40	185795	865.28	ug	# 74
16) Methyl Acetate	3.427	43	114982	81.17	ug	95
17) Methylene Chloride	3.521	84	160799	76.27	ug	82
18) Acrylonitrile	3.825	53	341138	421.35	ug	97
19) trans-1,2-Dichloroethene	3.857	96	153181	97.27	ug	99
20) Mtbe	3.872	73	880552	199.89	ug	99
21) 1,1-Dichloroethane	4.344	63	281892	90.15	ug	88
22) Hexane	4.203	43	49732	102.20	ug	88
23) cis-1,2-Dichloroethene	5.042	61	230929	95.54	ug	98
24) 2,2-Dichloropropane	5.042	77	128921	134.37	ug	89
25) Propionitrile	5.146	54	333024	1001.07	ug	# 91
26) Bromochloromethane	5.325	128	87388	91.81	ug	79
27) Methacrylonitrile	5.319	67	940463	1024.41	ug	88
28) Chloroform	5.430	83	284522	90.96	ug	96
29) Cyclohexane	5.723	84	191443	106.98	ug	91
30) 1,1-Dichloro-1-propene	5.849	75	214919	99.44	ug	96
31) 1,2-Dichloroethane	6.111	62	224516	89.74	ug	98
32) 2-Butanone	5.084	43	99986m	94.67	ug	
35) 1,1,1-Trichloroethane	5.645	97	246649	94.58	ug	99
36) Carbon Tetrachloride	5.854	117	210449	107.01	ug	96
37) Benzene	6.095	78	690953	91.51	ug	100
38) Isobutanol	6.080	43	199202	1995.79	ug	# 83
39) Heptane	6.468	43	113805	118.89	ug	# 86
40) Trichloroethene	6.898	130	178432	92.61	ug	97
41) Methyl Cyclohexane	7.139	83	201243	106.53	ug	93
42) 1,2-Dichloropropane	7.160	63	170030	90.64	ug	89
43) Vinyl Acetate	4.439	43	161843	96.82	ug	# 100
44) Dibromomethane	7.301	174	132713	89.69	ug	94
45) 1,4-Dioxane	7.396	88	57594	1959.91	ug	88
46) Methyl Methacrylate	7.349	69	163953	106.82	ug	84
47) Bromodichloromethane	7.506	83	226774	91.38	ug	88
48) cis-1,3-Dichloropropene	8.083	75	250086	96.60	ug	98
49) trans-1,3-Dichloropropene	8.801	75	223918	102.19	ug	97
50) 1,1,2-Trichloroethane	9.026	97	159814	87.11	ug	94
51) 1,3-Dichloropropane	9.236	76	276953	87.73	ug	90

Data Path : C:\msdchem\1\DATA\100617\
 Data File : d9041.D
 Acq On : 7 Oct 2017 8:05
 Operator :
 Sample : vstd100
 Misc : ical e8260w
 ALS Vial : 35 Sample Multiplier: 1

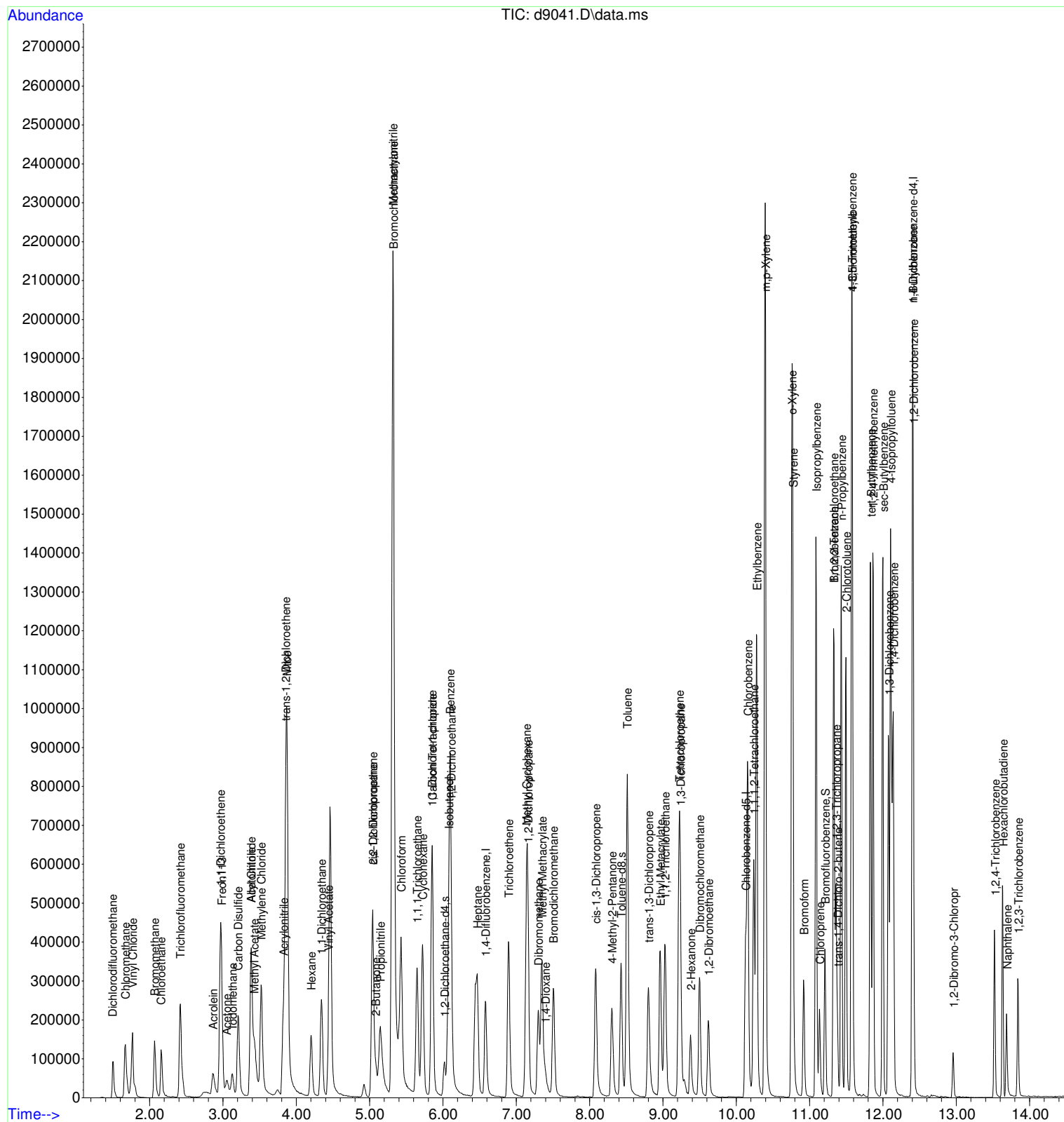
Quant Time: Oct 13 14:26:55 2017
 Quant Method : C:\msdchem\1\qtmetho\fixedw8260-100617.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Fri Oct 13 15:26:11 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) 1,2-Dibromoethane	9.619	107	162677	95.74	ug	93
53) Dibromochloromethane	9.498	129	188191	90.69	ug	91
54) Bromoform	10.919	173	136719	92.73	ug	98
55) 4-Methyl-2-Pentanone	8.303	43	195607	96.90	ug	98
57) Toluene	8.512	92	455992	93.81	ug	100
58) Ethyl Metacrylate	8.963	69	256932	108.98	ug	# 98
59) Tetrachloroethene	9.220	164	151913	92.47	ug	99
60) 2-Hexanone	9.378	43	129145	99.10	ug	96
62) Chlorobenzene	10.154	112	488673	86.18	ug	100
63) 1,1,1,2-Tetrachloroethane	10.237	133	169217	82.70	ug	97
64) Ethylbenzene	10.279	106	270415	90.87	ug	94
65) m,p-Xylene	10.395	91	1326395	181.69	ug	97
66) o-Xylene	10.757	106	327482	89.64	ug	97
67) Styrene	10.772	104	519941	98.08	ug	92
68) Isopropylbenzene	11.087	105	831742	91.08	ug	98
69) Chloroprene	11.134	53	43799	227.66	ug	92
70) trans-1,4-Dichloro-2-b...	11.380	88	16532	132.88	ug	# 1
71) Bromobenzene	11.328	77	357519	87.96	ug	# 77
72) 1,2,3-Trichloropropane	11.359	75	228981	86.41	ug	# 78
73) 2-Chlorotoluene	11.496	91	549725	86.70	ug	94
74) 4-Chlorotoluene	11.580	91	596097	92.40	ug	98
75) 1,3,5-Trimethylbenzene	11.574	105	677670	94.63	ug	94
76) tert-Butylbenzene	11.831	119	583350	93.97	ug	97
77) 1,2,4-Trimethylbenzene	11.863	105	663704	98.80	ug	98
79) 1,1,2,2-Tetrachloroethane	11.328	83	202207	81.39	ug	95
80) n-Propylbenzene	11.433	91	885115	96.04	ug	100
81) 1,3-Dichlorobenzene	12.078	146	346013	91.74	ug	97
82) sec-Butylbenzene	11.999	105	789961	98.44	ug	100
83) 4-Isopropyltoluene	12.104	119	659743	106.27	ug	98
84) 1,4-Dichlorobenzene	12.141	146	332466	90.86	ug	95
85) 1,2-Dichlorobenzene	12.413	146	318289	87.59	ug	95
86) n-Butylbenzene	12.403	91	443482	106.02	ug	96
87) 1,2-Dibromo-3-Chloropr	12.959	157	30519	93.38	ug	94
88) 1,2,4-Trichlorobenzene	13.525	180	114097	113.14	ug	100
89) Hexachlorobutadiene	13.635	225	96299	92.15	ug	# 89
90) Naphthalene	13.687	128	143403	150.23	ug	99
91) 1,2,3-Trichlorobenzene	13.839	180	83671	121.50	ug	98

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

Data Path : C:\msdchem\1\DATA\100617\
 Data File : d9041.D
 Acq On : 7 Oct 2017 8:05
 Operator :
 Sample : vstd100
 Misc : ical e8260w
 ALS Vial : 35 Sample Multiplier: 1

Quant Time: Oct 13 14:26:55 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Fri Oct 13 15:26:11 2017
 Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\100617\
 Data File : d9042.D
 Acq On : 7 Oct 2017 8:27
 Operator :
 Sample : vstd200
 Misc : ical e8260w
 ALS Vial : 35 Sample Multiplier: 1

Quant Time: Oct 13 14:29:19 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Fri Oct 13 15:27:15 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.578	114	209386	50.00	ug	0.00
34) Chlorobenzene-d5	10.127	117	195883	50.00	ug	0.00
61) 1,4-Dichlorobenzene-d4	12.398	152	106372	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.012	65	62991	49.22	ug	-0.01
56) Toluene-d8	8.429	98	246181	49.10	ug	0.00
78) Bromofluorobenzene	11.207	95	100968	47.67	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.476	85	155022	188.20	ug	99
3) Chloromethane	1.641	50	340281	168.14	ug	100
4) Vinyl Chloride	1.748	62	279646	190.68	ug	98
5) Bromomethane	2.040	94	153949	146.96	ug	98
6) Chloroethane	2.127	64	193954	218.54	ug	95
7) Acrolein	2.834	56	149491	754.23	ug	98
8) Trichlorofluoromethane	2.394	101	327078	187.49	ug	100
9) Freon113	2.955	101	158243	192.21	ug	97
10) 1,1-Dichloroethene	2.944	96	220319	181.07	ug	92
11) Allyl Chloride	3.359	41	845036	188.49	ug	77
12) Carbon Disulfide	3.186	76	607886	185.54	ug	100
13) Acetone	3.018	43	122506m	148.92	ug	
14) Iodomethane	3.107	142	162917	317.66	ug	95
15) Acetonitrile	3.343	40	298151	1727.29	ug	# 81
16) Methyl Acetate	3.411	43	197851	176.18	ug	99
17) Methylene Chloride	3.500	84	280596m	170.07	ug	
18) Acrylonitrile	3.799	53	541702	793.69	ug	99
19) trans-1,2-Dichloroethene	3.836	96	251483	193.28	ug	98
20) Mtbe	3.857	73	1576825	430.33	ug	98
21) 1,1-Dichloroethane	4.329	63	463026	182.50	ug	87
22) Hexane	4.187	43	82519	202.73	ug	92
23) cis-1,2-Dichloroethene	5.026	61	397338	199.83	ug	100
24) 2,2-Dichloropropane	5.026	77	226434	261.24	ug	91
25) Propionitrile	5.126	54	540461	1952.39	ug	# 90
26) Bromochloromethane	5.314	128	140209	180.77	ug	# 72
27) Methacrylonitrile	5.309	67	1527549	1987.99	ug	95
28) Chloroform	5.419	83	462922	182.01	ug	98
29) Cyclohexane	5.713	84	299775	197.91	ug	89
30) 1,1-Dichloro-1-propene	5.844	75	343862	191.51	ug	98
31) 1,2-Dichloroethane	6.101	62	373715	184.28	ug	98
32) 2-Butanone	5.063	43	170521m	196.69	ug	
35) 1,1,1-Trichloroethane	5.639	97	405477	183.19	ug	99
36) Carbon Tetrachloride	5.844	117	346365	201.17	ug	95
37) Benzene	6.085	78	1141835	179.57	ug	100
38) Isobutanol	6.043	43	327274	3812.84	ug	# 77
39) Heptane	6.463	43	173987	201.71	ug	# 81
40) Trichloroethene	6.887	130	298064	183.17	ug	98
41) Methyl Cyclohexane	7.134	83	309641	187.44	ug	93
42) 1,2-Dichloropropane	7.155	63	284374	180.41	ug	89
43) Vinyl Acetate	4.418	43	279378	195.81	ug	# 100
44) Dibromomethane	7.296	174	224546	181.04	ug	93
45) 1,4-Dioxane	7.354	88	86750	3448.24	ug	85
46) Methyl Methacrylate	7.338	69	275549	205.15	ug	84
47) Bromodichloromethane	7.501	83	379760	181.77	ug	89
48) cis-1,3-Dichloropropene	8.077	75	432712	195.92	ug	98
49) trans-1,3-Dichloropropene	8.796	75	391236	206.39	ug	97
50) 1,1,2-Trichloroethane	9.032	97	270558	177.10	ug	90
51) 1,3-Dichloropropane	9.236	76	485561	184.43	ug	92

Data Path : C:\msdchem\1\DATA\100617\
 Data File : d9042.D
 Acq On : 7 Oct 2017 8:27
 Operator :
 Sample : vstd200
 Misc : ical e8260w
 ALS Vial : 35 Sample Multiplier: 1

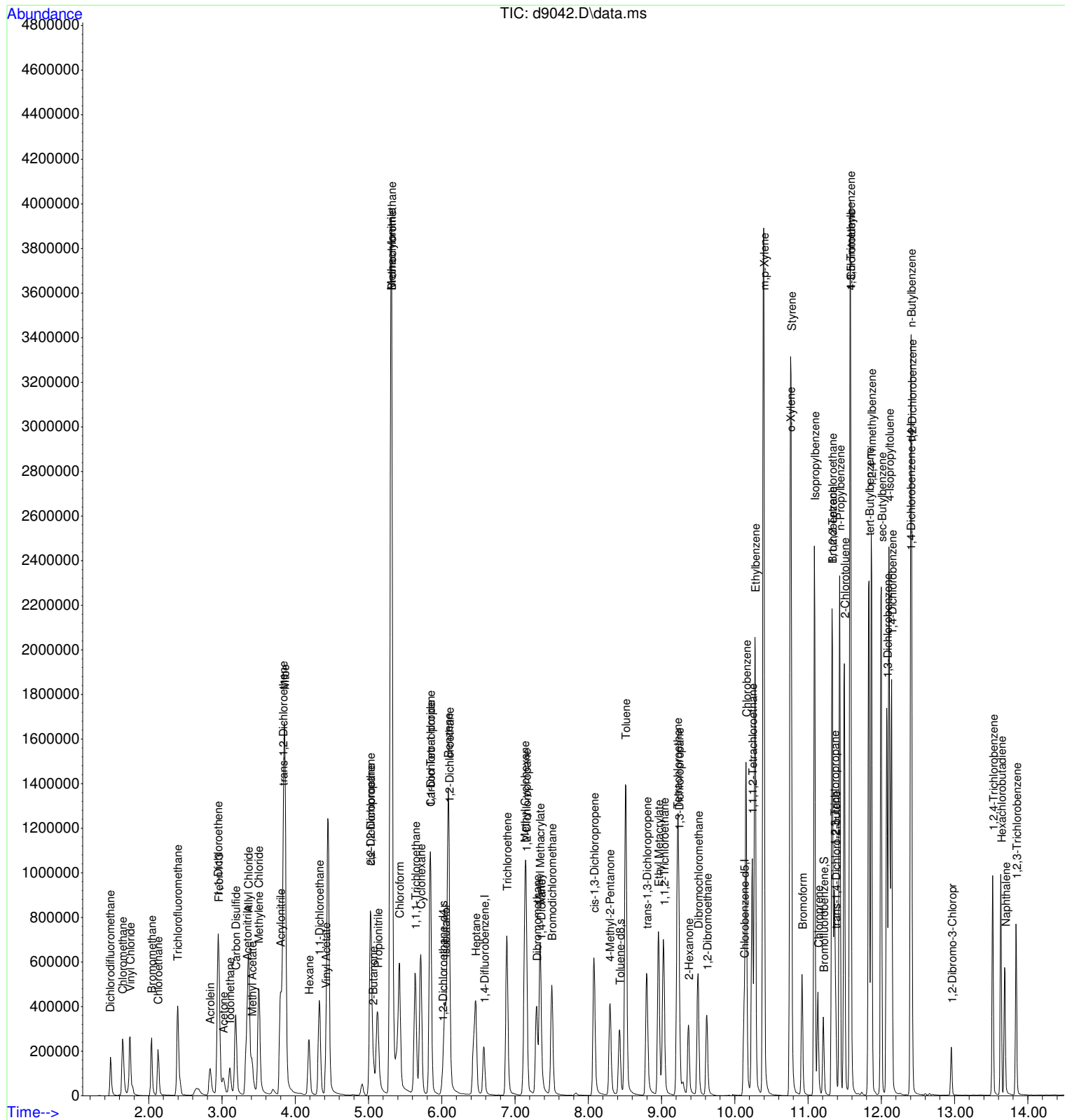
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 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Fri Oct 13 15:27:15 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) 1,2-Dibromoethane	9.619	107	278617	192.63	ug	95
53) Dibromochloromethane	9.498	129	325833	186.84	ug	94
54) Bromoform	10.919	173	239844	192.57	ug	98
55) 4-Methyl-2-Pentanone	8.292	43	331911	192.59	ug	97
57) Toluene	8.507	92	750868	182.35	ug	100
58) Ethyl Metacrylate	8.958	69	451480	217.68	ug	# 99
59) Tetrachloroethene	9.215	164	246432	177.68	ug	99
60) 2-Hexanone	9.367	43	233134	208.39	ug	97
62) Chlorobenzene	10.154	112	819252	169.83	ug	99
63) 1,1,1,2-Tetrachloroethane	10.238	133	283121	164.12	ug	97
64) Ethylbenzene	10.274	106	451668	176.27	ug	94
65) m,p-Xylene	10.395	91	2205528	350.87	ug	98
66) o-Xylene	10.757	106	547528	174.60	ug	97
67) Styrene	10.767	104	911942	196.15	ug	92
68) Isopropylbenzene	11.087	105	1394421	177.23	ug	98
69) Chloroprene	11.134	53	83536	476.27	ug	94
70) trans-1,4-Dichloro-2-b...	11.375	88	34328	289.34	ug	# 1
71) Bromobenzene	11.328	77	629842	181.31	ug	# 77
72) 1,2,3-Trichloropropane	11.360	75	403689	178.95	ug	# 77
73) 2-Chlorotoluene	11.496	91	948492	175.60	ug	96
74) 4-Chlorotoluene	11.580	91	1052747	188.77	ug	97
75) 1,3,5-Trimethylbenzene	11.574	105	1161437	186.55	ug	95
76) tert-Butylbenzene	11.831	119	980537	181.99	ug	98
77) 1,2,4-Trimethylbenzene	11.863	105	1159993	196.55	ug	99
79) 1,1,2,2-Tetrachloroethane	11.328	83	348360	166.88	ug	96
80) n-Propylbenzene	11.433	91	1505172	187.19	ug	99
81) 1,3-Dichlorobenzene	12.078	146	621853	191.04	ug	97
82) sec-Butylbenzene	11.999	105	1327917	188.52	ug	99
83) 4-Isopropyltoluene	12.104	119	1150922	207.13	ug	98
84) 1,4-Dichlorobenzene	12.141	146	617781	196.08	ug	97
85) 1,2-Dichlorobenzene	12.413	146	590275	190.24	ug	94
86) n-Butylbenzene	12.403	91	839619	224.40	ug	96
87) 1,2-Dibromo-3-Chloropr	12.959	157	54964	194.06	ug	# 87
88) 1,2,4-Trichlorobenzene	13.520	180	265949	289.74	ug	98
89) Hexachlorobutadiene	13.635	225	176979	196.04	ug	# 90
90) Naphthalene	13.687	128	389742	411.64	ug	99
91) 1,2,3-Trichlorobenzene	13.839	180	196031	306.55	ug	100

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

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Data Path   : C:\msdchem\1\DATA\100617\  
Data File  : d9042.D  
Acq On     : 7 Oct 2017      8:27  
Operator   :  
Sample     : vstd200  
Misc       : ical e8260w  
ALS Vial   : 35      Sample Multiplier: 1
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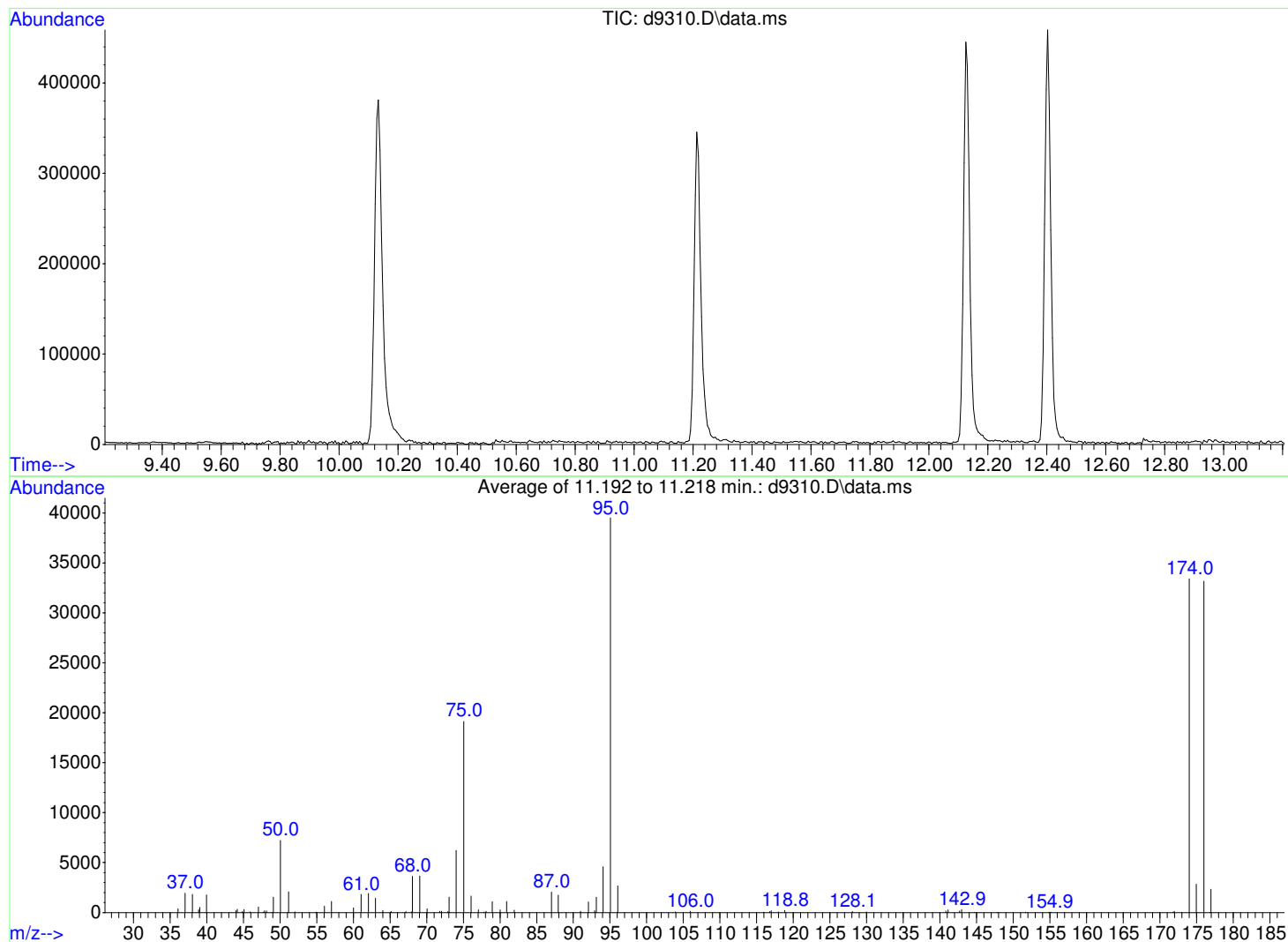
Quant Time: Oct 13 14:29:19 2017
Quant Method : C:\msdchem\1\qtmetho ds\fixedw8260-100617.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Fri Oct 13 15:27:15 2017
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\101317\
 Data File : d9310.D
 Acq On : 14 Oct 2017 2:00
 Operator :
 Sample : bfb
 Misc : tune bfb
 ALS Vial : 56 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
 Title : Voa Calibration 8260 Water
 Last Update : Fri Oct 13 15:29:24 2017



Spectrum Information: Average of 11.192 to 11.218 min.

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	18.3	7229	PASS
75	95	30	60	48.4	19120	PASS
95	95	100	100	100.0	39524	PASS
96	95	5	9	6.8	2676	PASS
173	174	0.00	2	0.1	31	PASS
174	95	50	100	84.6	33421	PASS
175	174	5	9	8.5	2838	PASS
176	174	95	101	99.2	33154	PASS
177	176	5	9	7.0	2334	PASS

Data Path : C:\msdchem\1\DATA\101317\
 Data File : d9311.D
 Acq On : 14 Oct 2017 2:21
 Operator :
 Sample : vstd050
 Misc : ccv e8260w
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Oct 16 08:48:10 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Fri Oct 13 15:29:24 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.588	114	309100	50.00	ug	0.01
34) Chlorobenzene-d5	10.127	117	273026	50.00	ug	0.00
61) 1,4-Dichlorobenzene-d4	12.403	152	135652	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.033	65	94136	49.99	ug	0.02
56) Toluene-d8	8.434	98	353675	50.79	ug	0.00
78) Bromofluorobenzene	11.207	95	131927	49.30	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.524	85	51602m	42.94	ug	
3) Chloromethane	1.690	50	130042m	44.96	ug	
4) Vinyl Chloride	1.787	62	97041	45.25	ug	96
5) Bromomethane	2.079	94	60856	41.56	ug	96
6) Chloroethane	2.186	64	53747m	40.28	ug	
7) Acrolein	2.876	56	52507	181.53	ug	100
8) Trichlorofluoromethane	2.446	101	117510	46.21	ug	98
9) Freon113	3.007	101	62163	51.55	ug	95
10) 1,1-Dichloroethene	2.997	96	78938	44.79	ug	94
11) Allyl Chloride	3.406	41	283942m	43.40	ug	
12) Carbon Disulfide	3.238	76	197742	41.49	ug	100
13) Acetone	3.049	43	42695m	42.39	ug	
14) Iodomethane	3.154	142	23652	27.95	ug	97
15) Acetonitrile	3.369	40	90691	365.89	ug	# 1
16) Methyl Acetate	3.453	43	83361	51.51	ug	95
17) Methylene Chloride	3.547	84	94325	39.92	ug	81
18) Acrylonitrile	3.831	53	164854	163.88	ug	98
19) trans-1,2-Dichloroethene	3.878	96	88494	46.38	ug	97
20) Mtbe	3.893	73	512115	93.26	ug	100
21) 1,1-Dichloroethane	4.360	63	164310	44.65	ug	86
22) Hexane	4.224	43	36338	60.31	ug	93
23) cis-1,2-Dichloroethene	5.057	61	135219	46.07	ug	99
24) 2,2-Dichloropropane	5.057	77	82172	60.51	ug	91
25) Propionitrile	5.141	54	154801	380.62	ug	92
26) Bromochloromethane	5.341	128	52012	46.32	ug	80
27) Methacrylonitrile	5.325	67	481921	425.37	ug	90
28) Chloroform	5.445	83	161250	43.73	ug	99
29) Cyclohexane	5.734	84	108506	48.63	ug	92
30) 1,1-Dichloro-1-propene	5.865	75	120265	45.76	ug	98
31) 1,2-Dichloroethane	6.122	62	132356	44.92	ug	99
32) 2-Butanone	5.089	43	54951m	43.08	ug	
35) 1,1,1-Trichloroethane	5.660	97	141012	46.49	ug	99
36) Carbon Tetrachloride	5.865	117	119933	49.92	ug	95
37) Benzene	6.111	78	408304	47.03	ug	100
38) Isobutanol	6.043	43	84957	716.82	ug	# 79
39) Heptane	6.478	43	76642	63.64	ug	# 89
40) Trichloroethene	6.908	130	105349	47.24	ug	96
41) Methyl Cyclohexane	7.149	83	121880	53.61	ug	92
42) 1,2-Dichloropropane	7.170	63	101316	47.04	ug	90
43) Vinyl Acetate	4.454	43	122079	61.64	ug	# 100
44) Dibromomethane	7.312	174	74828	44.12	ug	92
45) 1,4-Dioxane	7.354	88	25769	755.73	ug	89
46) Methyl Methacrylate	7.354	69	87393	46.44	ug	84
47) Bromodichloromethane	7.516	83	133819	46.81	ug	89
48) cis-1,3-Dichloropropene	8.093	75	144389	47.10	ug	97
49) trans-1,3-Dichloropropene	8.806	75	131576	49.48	ug	98
50) 1,1,2-Trichloroethane	9.037	97	93329	44.86	ug	91
51) 1,3-Dichloropropane	9.241	76	160365	44.39	ug	88

Data Path : C:\msdchem\1\DATA\101317\
 Data File : d9311.D
 Acq On : 14 Oct 2017 2:21
 Operator :
 Sample : vstd050
 Misc : ccv e8260w
 ALS Vial : 31 Sample Multiplier: 1

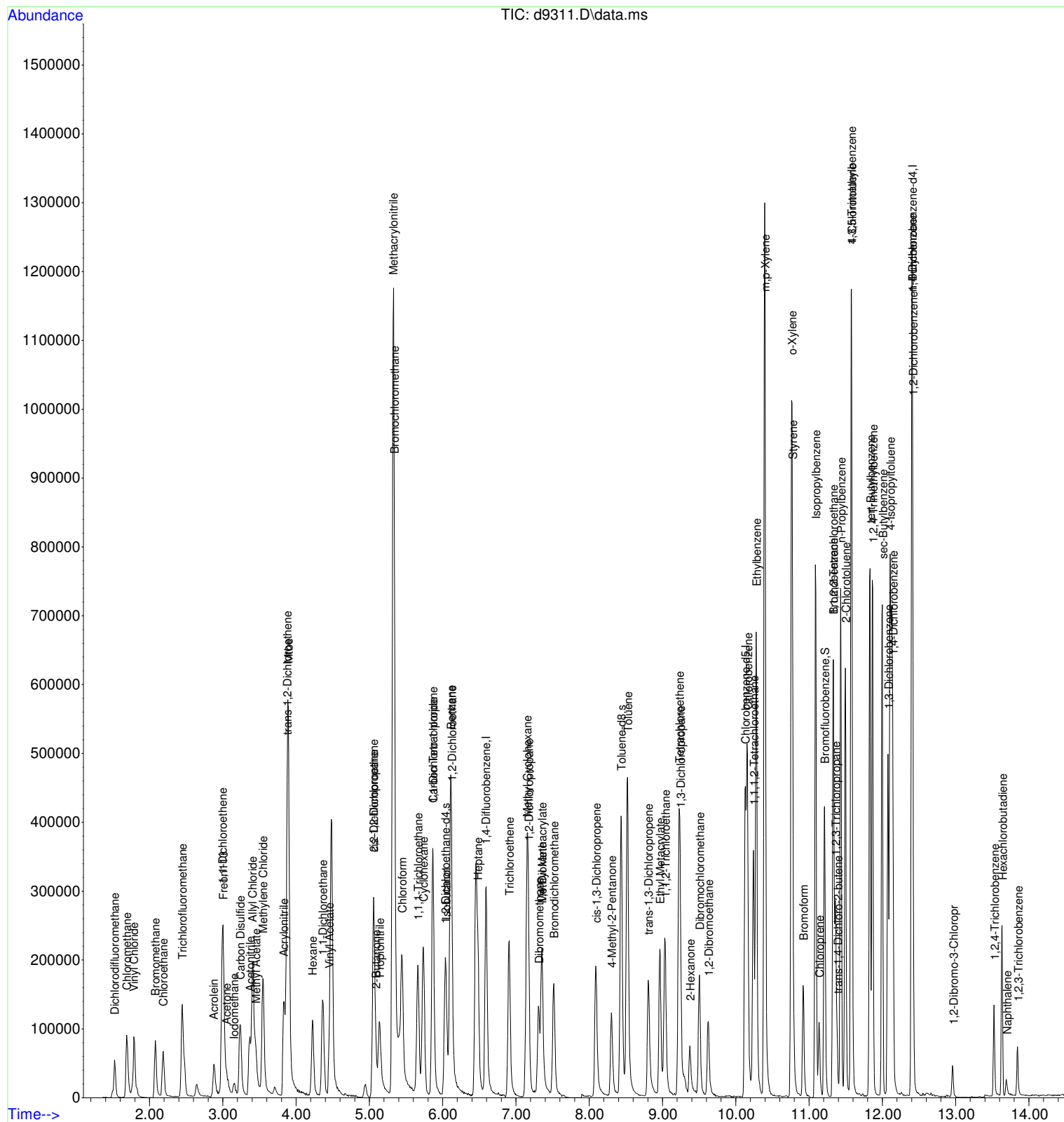
Quant Time: Oct 16 08:48:10 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Fri Oct 13 15:29:24 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) 1,2-Dibromoethane	9.624	107	93289	46.62	ug	96
53) Dibromochloromethane	9.503	129	110238	45.96	ug	92
54) Bromoform	10.919	173	77564	45.01	ug	99
55) 4-Methyl-2-Pentanone	8.303	43	99977m	41.93	ug	
57) Toluene	8.523	92	261510	46.38	ug	99
58) Ethyl Metacrylate	8.963	69	143448	48.76	ug	99
59) Tetrachloroethene	9.226	164	86364	45.69	ug	98
60) 2-Hexanone	9.372	43	63615m	40.46	ug	
62) Chlorobenzene	10.159	112	274487	46.01	ug	99
63) 1,1,1,2-Tetrachloroethane	10.243	133	98738	46.55	ug	97
64) Ethylbenzene	10.279	106	149860	46.98	ug	96
65) m,p-Xylene	10.395	91	745452	95.34	ug	96
66) o-Xylene	10.762	106	186514	47.85	ug	97
67) Styrene	10.772	104	289875	49.08	ug	91
68) Isopropylbenzene	11.087	105	463808	47.30	ug	98
69) Chloroprene	11.134	53	22744	97.95	ug	92
70) trans-1,4-Dichloro-2-b...	11.386	88	7649	46.41	ug	# 1
71) Bromobenzene	11.328	77	199465	45.88	ug	# 77
72) 1,2,3-Trichloropropane	11.360	75	116888	41.50	ug	# 80
73) 2-Chlorotoluene	11.496	91	309154	46.00	ug	96
74) 4-Chlorotoluene	11.580	91	330399	46.98	ug	99
75) 1,3,5-Trimethylbenzene	11.574	105	367300	46.89	ug	93
76) tert-Butylbenzene	11.831	119	319416	47.34	ug	98
77) 1,2,4-Trimethylbenzene	11.868	105	365924	48.79	ug	99
79) 1,1,2,2-Tetrachloroethane	11.328	83	107468	41.75	ug	93
80) n-Propylbenzene	11.433	91	480684	47.48	ug	99
81) 1,3-Dichlorobenzene	12.078	146	178070	43.29	ug	95
82) sec-Butylbenzene	11.999	105	415151	46.75	ug	100
83) 4-Isopropyltoluene	12.104	119	342657	48.01	ug	97
84) 1,4-Dichlorobenzene	12.141	146	170571m	42.62	ug	
85) 1,2-Dichlorobenzene	12.413	146	163511	41.73	ug	99
86) n-Butylbenzene	12.403	91	228954	46.84	ug	96
87) 1,2-Dibromo-3-Chloropr	12.964	157	11979	33.36	ug	# 77
88) 1,2,4-Trichlorobenzene	13.525	180	37643	29.51	ug	98
89) Hexachlorobutadiene	13.635	225	44859	39.12	ug	# 90
90) Naphthalene	13.693	128	21058	14.39	ug	100
91) 1,2,3-Trichlorobenzene	13.845	180	20747	22.99	ug	97

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

Data Path : C:\msdchem\1\DATA\101317\
 Data File : d9311.D
 Acq On : 14 Oct 2017 2:21
 Operator :
 Sample : vstd050
 Misc : ccv e8260w
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Oct 16 08:48:10 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Fri Oct 13 15:29:24 2017
 Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\101317\
 Data File : d9315.D
 Acq On : 14 Oct 2017 3:46
 Operator :
 Sample : vblk
 Misc : mblk e8260w
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Oct 16 08:50:03 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Fri Oct 13 15:29:24 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.588	114	256931	50.00	ug	0.01
34) Chlorobenzene-d5	10.127	117	224188	50.00	ug	0.00
61) 1,4-Dichlorobenzene-d4	12.403	152	102537	50.00	ug	0.00

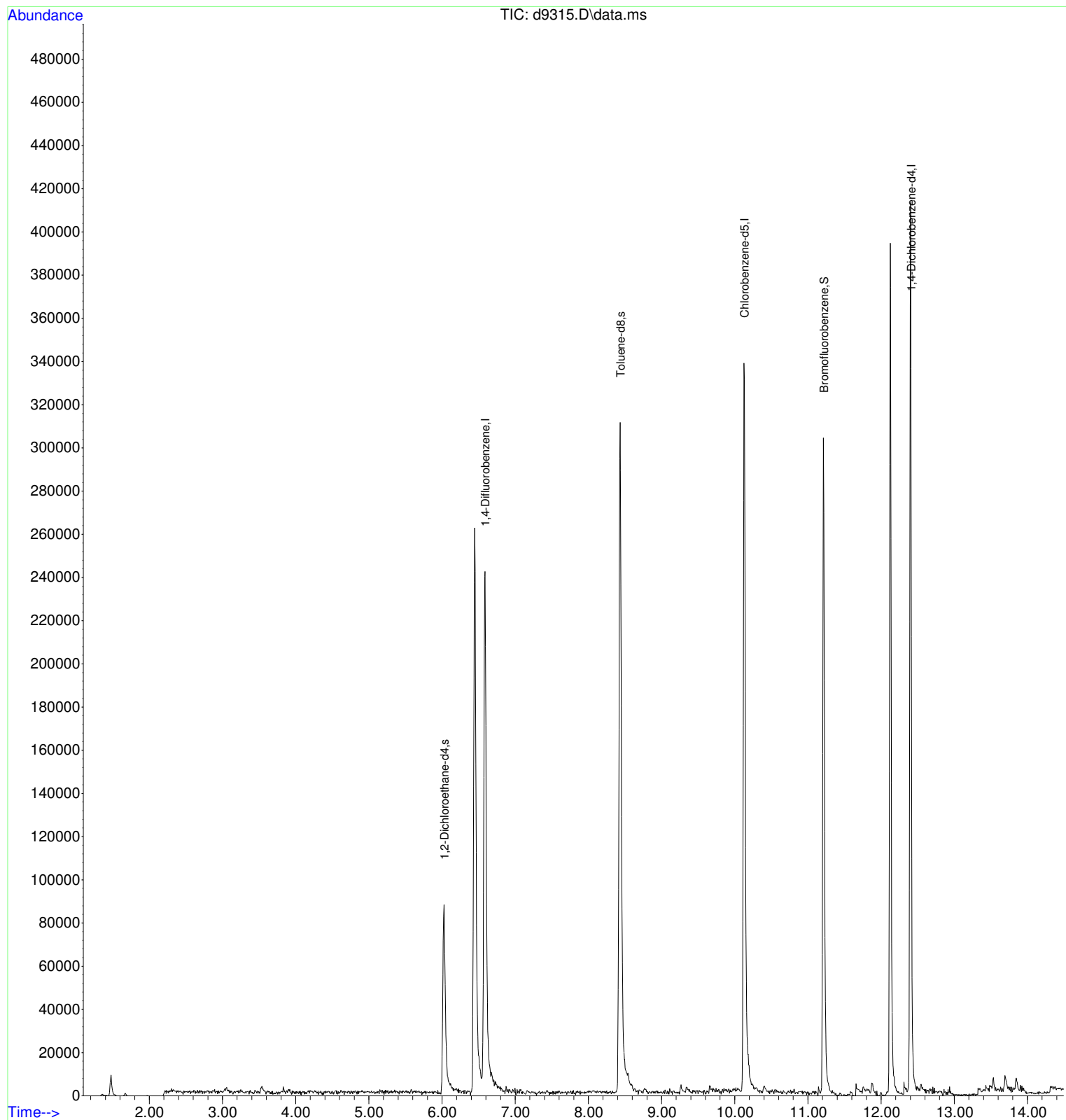
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.027	65	80306	51.30	ug	0.02
56) Toluene-d8	8.434	98	289929	50.70	ug	0.00
78) Bromofluorobenzene	11.213	95	101919	50.39	ug	0.00

Target Compounds	Qvalue

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

Data Path : C:\msdchem\1\DATA\101317\
Data File : d9315.D
Acq On : 14 Oct 2017 3:46
Operator :
Sample : vblk
Misc : mblk e8260w
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Oct 16 08:50:03 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Fri Oct 13 15:29:24 2017
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\101317\
 Data File : d9316.D
 Acq On : 14 Oct 2017 4:08
 Operator :
 Sample : 171005087-003a
 Misc : samp e8260w
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Oct 16 08:50:45 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Fri Oct 13 15:29:24 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.599	114	327143	50.00	ug	0.02
34) Chlorobenzene-d5	10.133	117	274063	50.00	ug	0.00
61) 1,4-Dichlorobenzene-d4	12.403	152	117510	50.00	ug	0.00

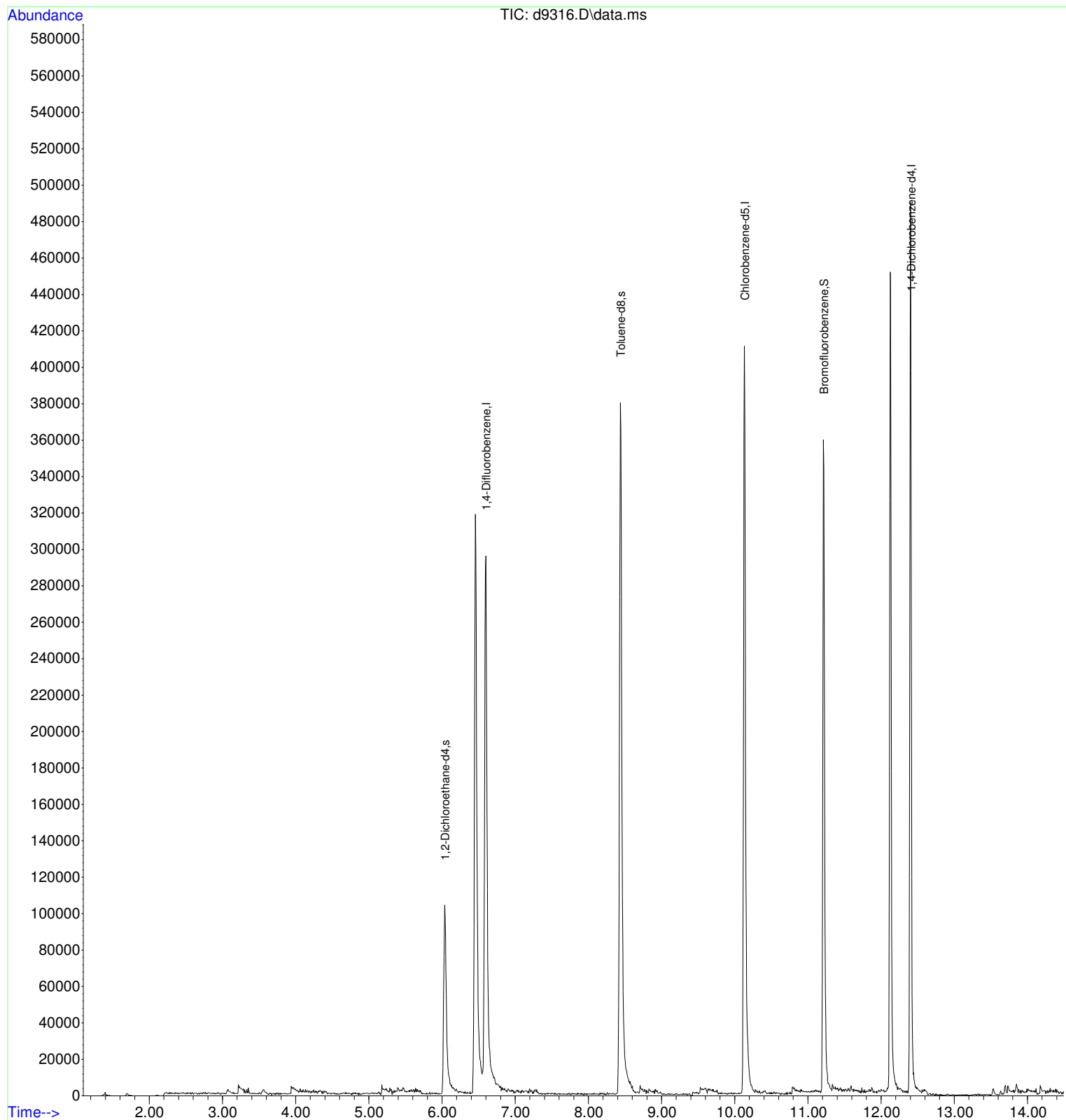
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.038	65	98129	49.23	ug	0.03
56) Toluene-d8	8.439	98	355976	50.93	ug	0.01
78) Bromofluorobenzene	11.213	95	121910	52.59	ug	0.00

Target Compounds	Qvalue

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

Data Path : C:\msdchem\1\DATA\101317\
Data File : d9316.D
Acq On : 14 Oct 2017 4:08
Operator :
Sample : 171005087-003a
Misc : samp e8260w
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Oct 16 08:50:45 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Fri Oct 13 15:29:24 2017
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\101317\
 Data File : d9317.D
 Acq On : 14 Oct 2017 4:29
 Operator :
 Sample : 171005087-001a
 Misc : samp e8260w
 ALS Vial : 34 Sample Multiplier: 1

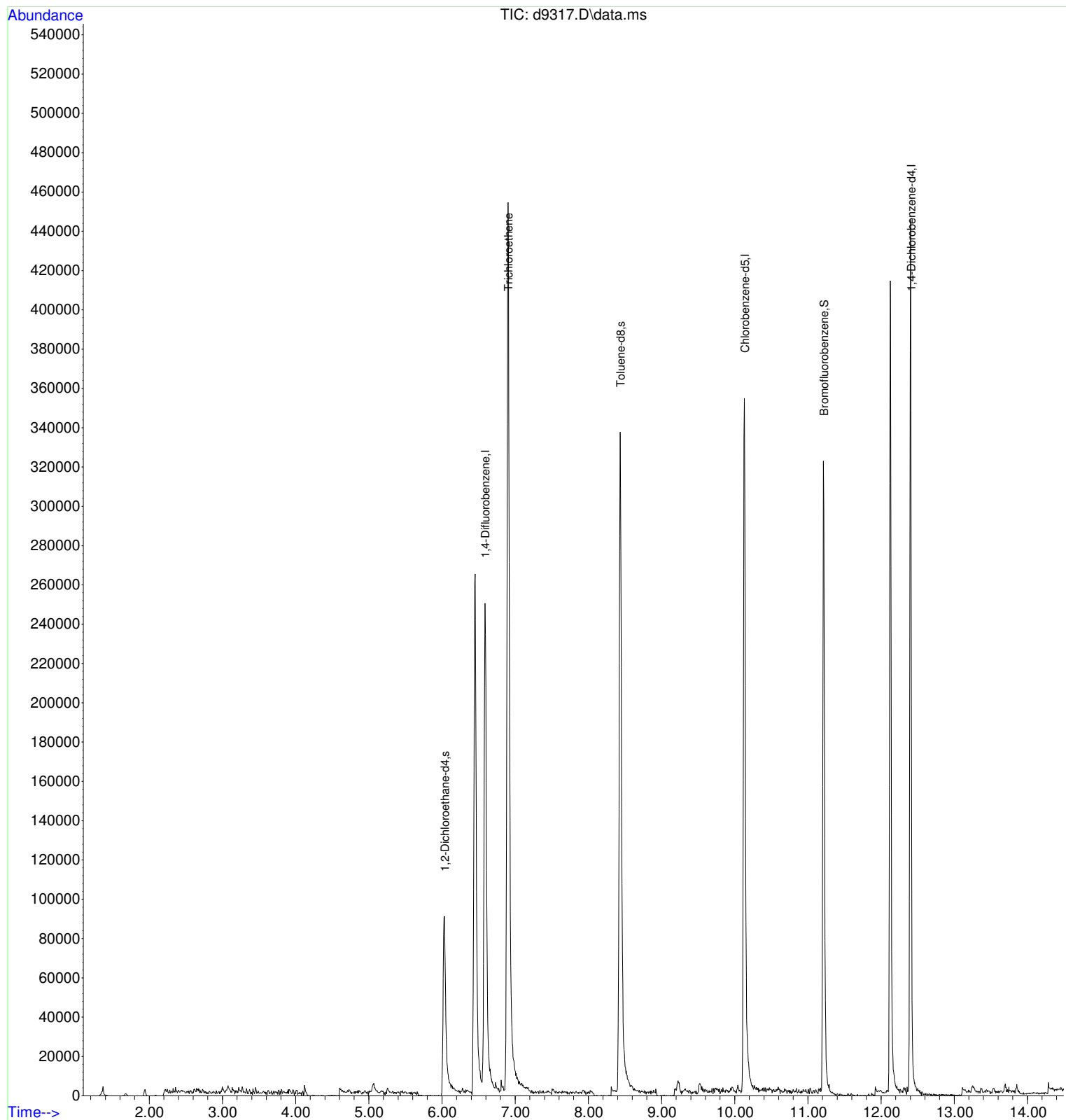
Quant Time: Oct 16 08:51:28 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Fri Oct 13 15:29:24 2017
 Response via : Initial Calibration

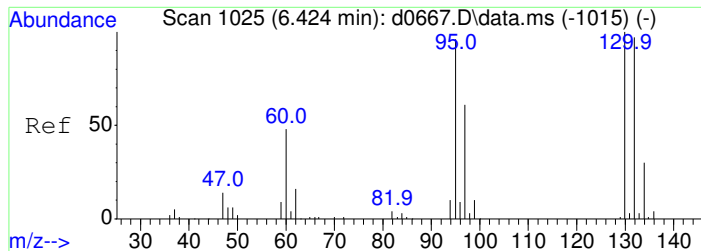
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.589	114	270581	50.00	ug	0.01
34) Chlorobenzene-d5	10.133	117	234037	50.00	ug	0.00
61) 1,4-Dichlorobenzene-d4	12.403	152	107116	50.00	ug	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.033	65	83347	50.56	ug	0.02
56) Toluene-d8	8.434	98	299811	50.23	ug	0.00
78) Bromofluorobenzene	11.213	95	103416	48.94	ug	0.00
Target Compounds						
40) Trichloroethene	6.903	130	206704	108.14	ug	Qvalue 97

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

Data Path : C:\msdchem\1\DATA\101317\
Data File : d9317.D
Acq On : 14 Oct 2017 4:29
Operator :
Sample : 171005087-001a
Misc : samp e8260w
ALS Vial : 34 Sample Multiplier: 1

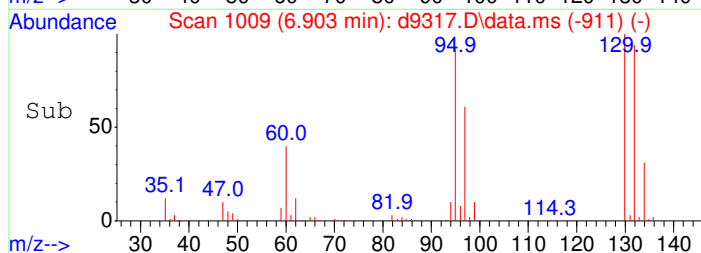
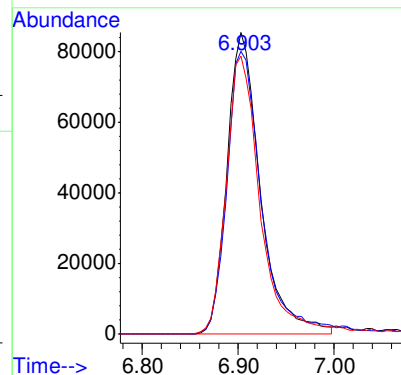
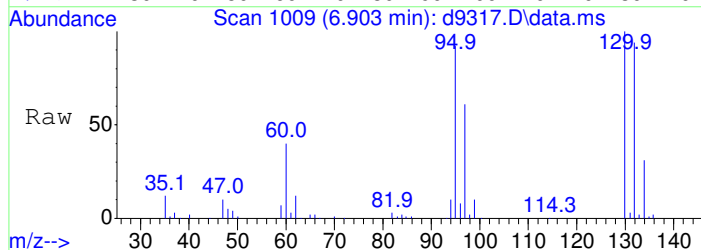
Quant Time: Oct 16 08:51:28 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Fri Oct 13 15:29:24 2017
Response via : Initial Calibration





#40
 Trichloroethene
 Concen: 108.14 ug
 RT: 6.903 min Scan# 1009
 Delta R.T. 0.016 min
 Lab File: d9317.D
 Acq: 14 Oct 2017 4:29

Tgt	Ion	Ratio	Lower	Upper
130	100			
132	98.6	72.9	112.9	
95	93.8	74.0	114.0	



Data Path : C:\msdchem\1\DATA\101317\
 Data File : d9318.D
 Acq On : 14 Oct 2017 4:50
 Operator :
 Sample : 171005087-002a
 Misc : samp e8260w
 ALS Vial : 35 Sample Multiplier: 1

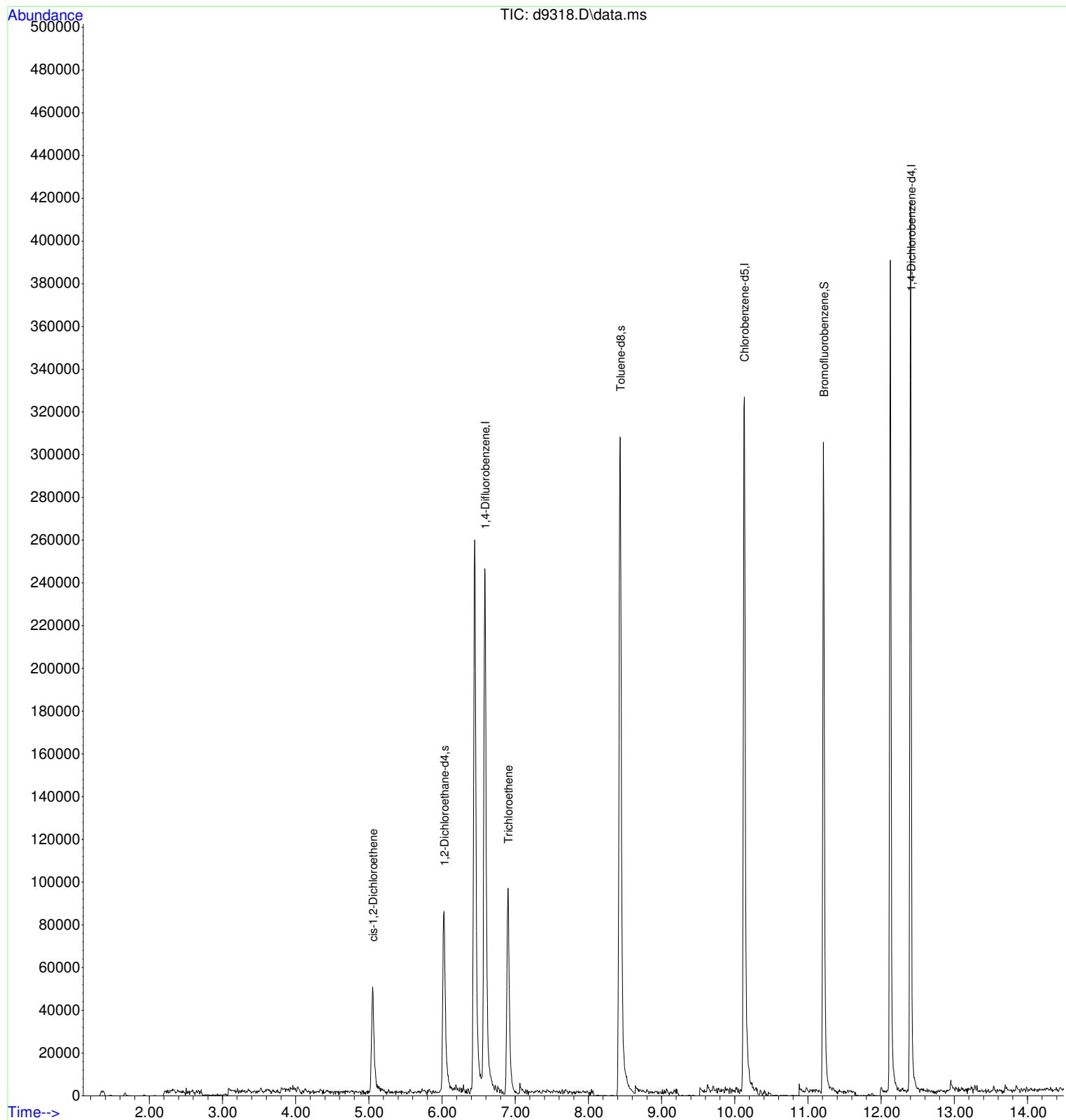
Quant Time: Oct 16 08:52:07 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Fri Oct 13 15:29:24 2017
 Response via : Initial Calibration

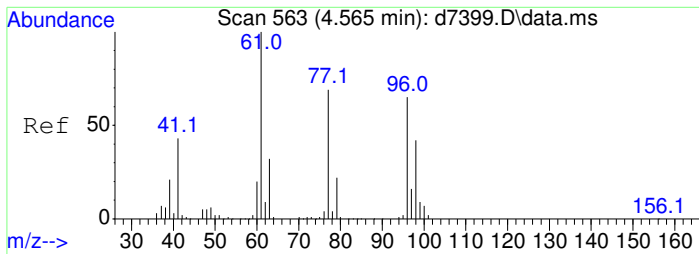
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.588	114	257036	50.00	ug	0.01
34) Chlorobenzene-d5	10.127	117	218273	50.00	ug	0.00
61) 1,4-Dichlorobenzene-d4	12.403	152	97899	50.00	ug	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.027	65	80708	51.54	ug	0.02
56) Toluene-d8	8.434	98	283770	50.97	ug	0.00
78) Bromofluorobenzene	11.213	95	97847	50.67	ug	0.00
Target Compounds						Qvalue
23) cis-1,2-Dichloroethene	5.052	61	36594	14.99	ug	93
40) Trichloroethene	6.903	130	44102	24.74	ug	98

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

Data Path : C:\msdchem\1\DATA\101317\
Data File : d9318.D
Acq On : 14 Oct 2017 4:50
Operator :
Sample : 171005087-002a
Misc : samp e8260w
ALS Vial : 35 Sample Multiplier: 1

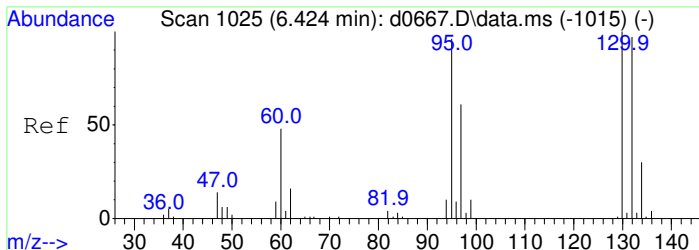
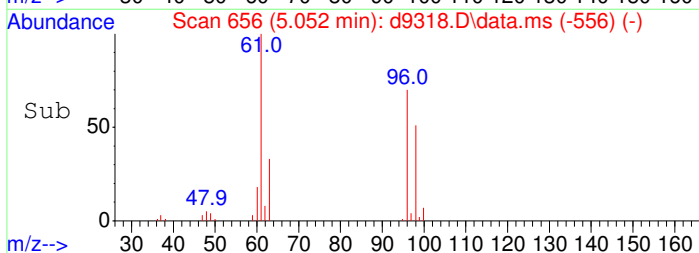
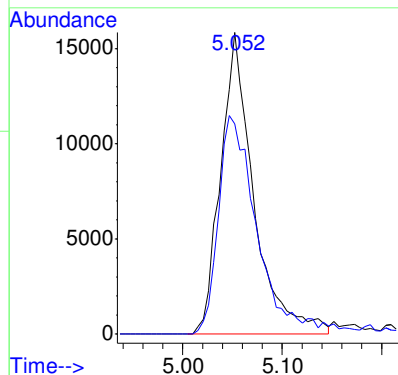
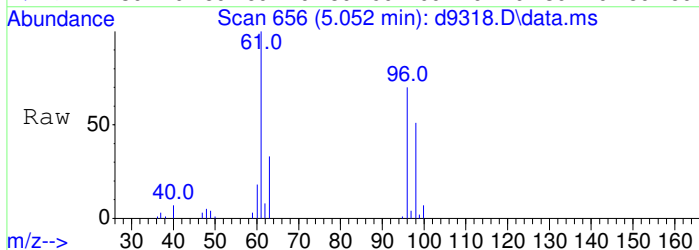
Quant Time: Oct 16 08:52:07 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Fri Oct 13 15:29:24 2017
Response via : Initial Calibration





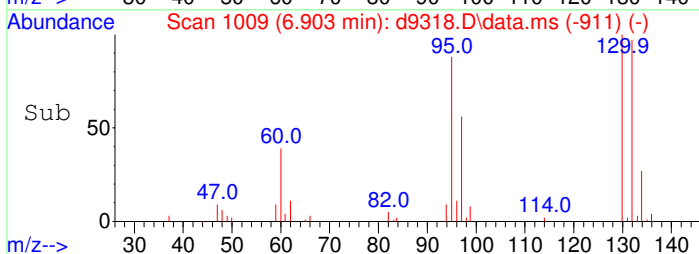
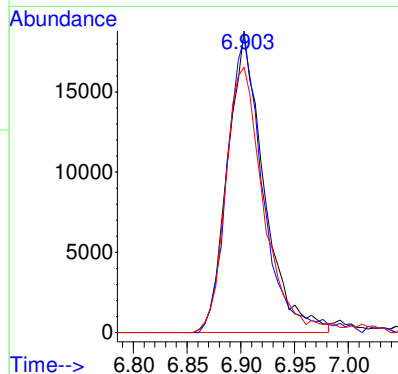
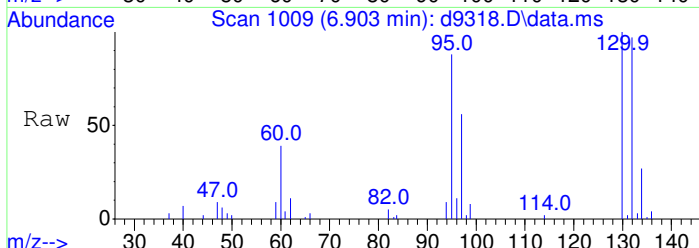
#23
 cis-1,2-Dichloroethene
 Concen: 14.99 ug
 RT: 5.052 min Scan# 656
 Delta R.T. 0.026 min
 Lab File: d9318.D
 Acq: 14 Oct 2017 4:50

Tgt Ion: 61 Resp: 36594
 Ion Ratio Lower Upper
 61 100
 96 80.9 59.7 89.5



#40
 Trichloroethene
 Concen: 24.74 ug
 RT: 6.903 min Scan# 1009
 Delta R.T. 0.016 min
 Lab File: d9318.D
 Acq: 14 Oct 2017 4:50

Tgt Ion: 130 Resp: 44102
 Ion Ratio Lower Upper
 130 100
 132 96.3 72.9 112.9
 95 92.6 74.0 114.0



Data Path : C:\msdchem\1\DATA\101317\
 Data File : d9319.D
 Acq On : 14 Oct 2017 5:11
 Operator :
 Sample : lcs
 Misc : lcs e8260w
 ALS Vial : 36 Sample Multiplier: 1

Quant Time: Oct 16 08:53:00 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Fri Oct 13 15:29:24 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.594	114	313385	50.00	ug	0.02
34) Chlorobenzene-d5	10.127	117	265615	50.00	ug	0.00
61) 1,4-Dichlorobenzene-d4	12.403	152	127658	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.027	65	92626	48.51	ug	0.02
56) Toluene-d8	8.434	98	360522	53.22	ug	0.00
78) Bromofluorobenzene	11.213	95	127852	50.77	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.524	85	89544m	73.50	ug	
3) Chloromethane	1.690	50	141741m	48.34	ug	
4) Vinyl Chloride	1.787	62	120001	55.19	ug	99
5) Bromomethane	2.088	94	41252	27.78	ug	98
6) Chloroethane	2.186	64	59666m	44.10	ug	
7) Acrolein	2.882	56	43845	149.51	ug	96
8) Trichlorofluoromethane	2.441	101	134223	52.06	ug	98
9) Freon113	3.007	101	32937	26.94	ug	93
10) 1,1-Dichloroethene	2.992	96	78602	43.99	ug	88
12) Carbon Disulfide	3.238	76	110755	22.92	ug	100
13) Acetone	3.060	43	41952m	40.90	ug	
14) Iodomethane	3.170	142	2400	2.80	ug	92
15) Acetonitrile	3.359	40	2997	11.93	ug	# 1
16) Methyl Acetate	3.448	43	27299	16.64	ug	100
17) Methylene Chloride	3.547	84	98893	41.28	ug	86
18) Acrylonitrile	3.836	53	165094	161.87	ug	95
19) trans-1,2-Dichloroethene	3.878	96	90047	46.55	ug	97
20) Mtbe	3.893	73	124145	22.30	ug	99
21) 1,1-Dichloroethane	4.365	63	174294	46.72	ug	89
23) cis-1,2-Dichloroethene	5.063	61	134853	45.32	ug	94
24) 2,2-Dichloropropane	5.057	77	32831	23.85	ug	92
26) Bromochloromethane	5.341	128	26326	23.12	ug	88
28) Chloroform	5.445	83	169833	45.43	ug	98
29) Cyclohexane	5.739	84	59296	26.21	ug	95
30) 1,1-Dichloro-1-propene	5.870	75	61612	23.12	ug	97
31) 1,2-Dichloroethane	6.127	62	128843	43.13	ug	98
32) 2-Butanone	5.094	43	50798m	39.28	ug	
35) 1,1,1-Trichloroethane	5.660	97	152279	51.60	ug	100
36) Carbon Tetrachloride	5.865	117	125794	53.82	ug	95
37) Benzene	6.111	78	408948	48.42	ug	100
40) Trichloroethene	6.903	130	103224	47.58	ug	95
41) Methyl Cyclohexane	7.149	83	61458	27.79	ug	93
42) 1,2-Dichloropropane	7.165	63	103296	49.29	ug	90
43) Vinyl Acetate	4.470	43	947	0.49	ug	# 100
44) Dibromomethane	7.317	174	37053	22.46	ug	91
46) Methyl Methacrylate	7.149	69	11261	6.15	ug	# 1
47) Bromodichloromethane	7.516	83	134822	48.47	ug	88
48) cis-1,3-Dichloropropene	8.088	75	146646	49.17	ug	99
49) trans-1,3-Dichloropropene	8.811	75	129784	50.17	ug	97
50) 1,1,2-Trichloroethane	9.037	97	93677	46.28	ug	94
51) 1,3-Dichloropropane	9.241	76	78833	22.43	ug	88
52) 1,2-Dibromoethane	9.624	107	90834	46.66	ug	94
53) Dibromochloromethane	9.503	129	109346	46.86	ug	94
54) Bromoform	10.919	173	74354	44.36	ug	98
55) 4-Methyl-2-Pentanone	8.308	43	96567	41.63	ug	99
57) Toluene	8.523	92	267644	48.80	ug	98
59) Tetrachloroethene	9.226	164	87817	47.76	ug	99
60) 2-Hexanone	9.372	43	60442m	39.51	ug	

Data Path : C:\msdchem\1\DATA\101317\
 Data File : d9319.D
 Acq On : 14 Oct 2017 5:11
 Operator :
 Sample : lcs
 Misc : lcs e8260w
 ALS Vial : 36 Sample Multiplier: 1

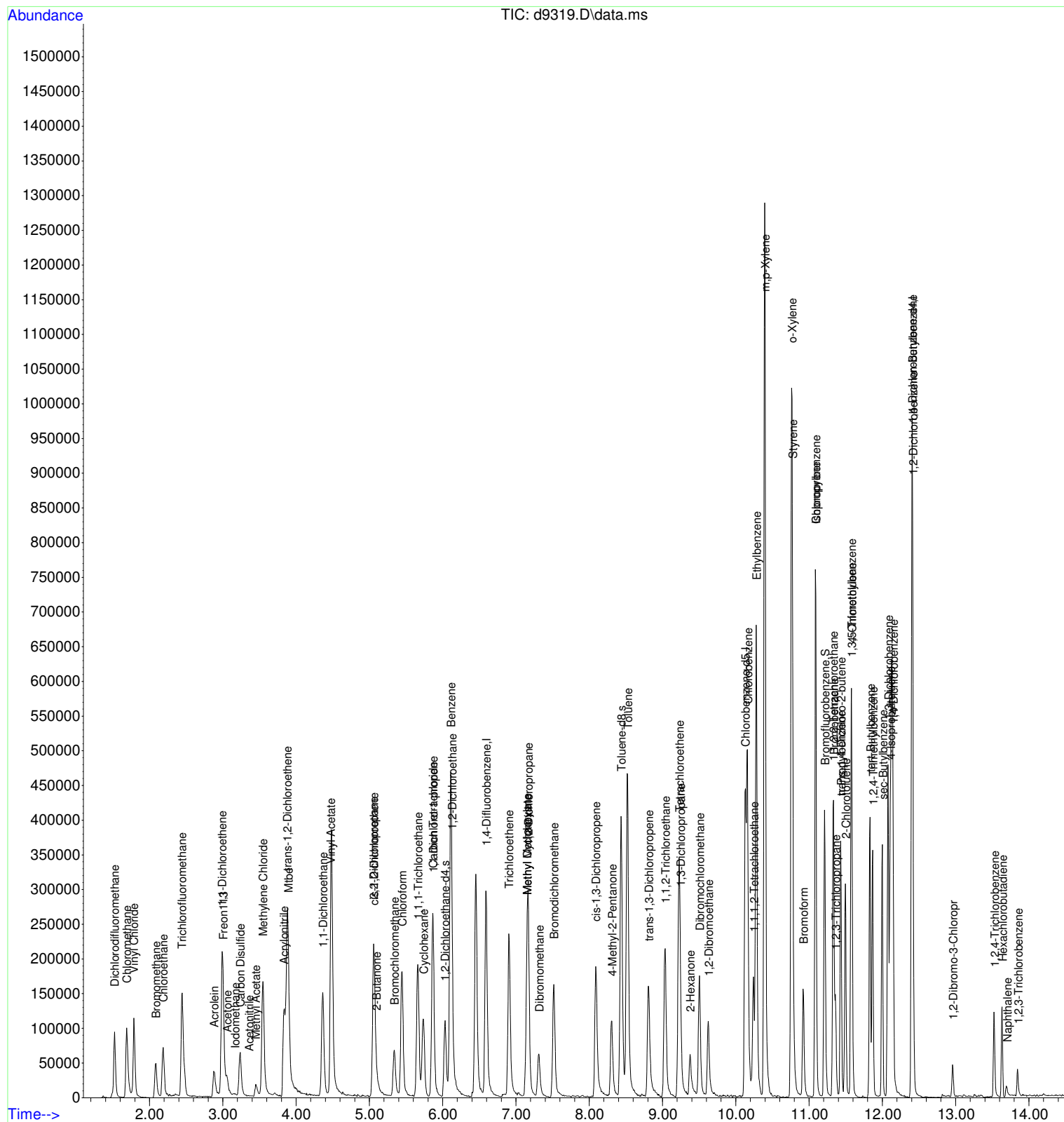
Quant Time: Oct 16 08:53:00 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Fri Oct 13 15:29:24 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) Chlorobenzene	10.159	112	276146	49.18	ug	99
63) 1,1,1,2-Tetrachloroethane	10.243	133	47573	23.83	ug	96
64) Ethylbenzene	10.279	106	153117	51.00	ug	96
65) m,p-Xylene	10.395	91	751726	102.16	ug	96
66) o-Xylene	10.762	106	189971	51.79	ug	97
67) Styrene	10.772	104	293974	52.89	ug	92
68) Isopropylbenzene	11.087	105	456934	49.52	ug	97
69) Chloroprene	11.087	53	5621	25.72	ug	# 1
70) trans-1,4-Dichloro-2-b...	11.433	88	240	1.55	ug	# 1
71) Bromobenzene	11.333	77	94900	23.20	ug	# 79
72) 1,2,3-Trichloropropane	11.360	75	49387	18.63	ug	88
73) 2-Chlorotoluene	11.496	91	152132	24.06	ug	96
74) 4-Chlorotoluene	11.580	91	156245	23.61	ug	96
75) 1,3,5-Trimethylbenzene	11.574	105	187938	25.50	ug	95
76) tert-Butylbenzene	11.831	119	160871	25.34	ug	99
77) 1,2,4-Trimethylbenzene	11.868	105	168655	23.89	ug	99
79) 1,1,2,2-Tetrachloroethane	11.328	83	106167	43.83	ug	97
80) n-Propylbenzene	11.433	91	241493	25.35	ug	99
81) 1,3-Dichlorobenzene	12.078	146	173813	44.90	ug	96
82) sec-Butylbenzene	11.999	105	203734	24.38	ug	98
83) 4-Isopropyltoluene	12.109	119	158816	23.65	ug	98
84) 1,4-Dichlorobenzene	12.146	146	167667m	44.52	ug	
85) 1,2-Dichlorobenzene	12.413	146	166199	45.07	ug	96
86) n-Butylbenzene	12.408	91	110719	24.07	ug	95
87) 1,2-Dibromo-3-Chloropr	12.959	157	11562	34.22	ug	89
88) 1,2,4-Trichlorobenzene	13.525	180	38244	31.86	ug	97
89) Hexachlorobutadiene	13.635	225	23058	21.37	ug	93
90) Naphthalene	13.698	128	12835	9.32	ug	96
91) 1,2,3-Trichlorobenzene	13.845	180	11508	13.55	ug	97

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

Data Path : C:\msdchem\1\DATA\101317\
Data File : d9319.D
Acq On : 14 Oct 2017 5:11
Operator :
Sample : lcs
Misc : lcs e8260w
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Oct 16 08:53:00 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Fri Oct 13 15:29:24 2017
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\101317\
 Data File : d9320.D
 Acq On : 14 Oct 2017 5:33
 Operator :
 Sample : lcsd
 Misc : lcsd e8260w
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Oct 16 08:53:57 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Fri Oct 13 15:29:24 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.588	114	296536	50.00	ug	0.01
34) Chlorobenzene-d5	10.128	117	255540	50.00	ug	0.00
61) 1,4-Dichlorobenzene-d4	12.403	152	124967	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.027	65	88405	48.93	ug	0.02
56) Toluene-d8	8.434	98	340121	52.18	ug	0.00
78) Bromofluorobenzene	11.213	95	124484	50.50	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.515	85	85461m	74.13	ug	
3) Chloromethane	1.680	50	146537	52.81	ug	98
4) Vinyl Chloride	1.787	62	115364	56.07	ug	98
5) Bromomethane	2.079	94	35333m	25.15	ug	
6) Chloroethane	2.176	64	57835m	45.18	ug	
7) Acrolein	2.876	56	41709	150.31	ug	90
8) Trichlorofluoromethane	2.436	101	125165	51.30	ug	99
9) Freon113	3.002	101	29019	25.08	ug	96
10) 1,1-Dichloroethene	2.987	96	72221	42.72	ug	90
12) Carbon Disulfide	3.228	76	104255	22.80	ug	100
13) Acetone	3.049	43	40913m	42.33	ug	
14) Iodomethane	3.144	142	1046	1.29	ug	# 30
15) Acetonitrile	3.385	40	6628	27.87	ug	# 1
16) Methyl Acetate	3.448	43	27576	17.76	ug	94
17) Methylene Chloride	3.542	84	94962	41.89	ug	88
18) Acrylonitrile	3.831	53	152139	157.65	ug	100
19) trans-1,2-Dichloroethene	3.873	96	86762	47.40	ug	99
20) Mtbe	3.883	73	115390	21.90	ug	98
21) 1,1-Dichloroethane	4.360	63	161904	45.86	ug	87
23) cis-1,2-Dichloroethene	5.052	61	128607	45.68	ug	98
24) 2,2-Dichloropropane	5.052	77	30681	23.55	ug	88
26) Bromochloromethane	5.335	128	22636	21.01	ug	78
28) Chloroform	5.440	83	160651	45.42	ug	97
29) Cyclohexane	5.734	84	49341	23.05	ug	86
30) 1,1-Dichloro-1-propene	5.865	75	58891	23.36	ug	98
31) 1,2-Dichloroethane	6.122	62	128076	45.31	ug	99
32) 2-Butanone	5.084	43	50250m	41.06	ug	
35) 1,1,1-Trichloroethane	5.655	97	136908	48.22	ug	97
36) Carbon Tetrachloride	5.865	117	116207	51.68	ug	97
37) Benzene	6.106	78	391154	48.14	ug	100
40) Trichloroethene	6.903	130	100875	48.33	ug	97
41) Methyl Cyclohexane	7.149	83	54038	25.39	ug	90
42) 1,2-Dichloropropane	7.160	63	96156	47.70	ug	89
43) Vinyl Acetate	4.481	43	1095	0.59	ug	# 100
44) Dibromomethane	7.307	174	36522	23.01	ug	90
47) Bromodichloromethane	7.511	83	125625	46.95	ug	91
48) cis-1,3-Dichloropropene	8.093	75	145524	50.71	ug	96
49) trans-1,3-Dichloropropene	8.806	75	122675	49.29	ug	93
50) 1,1,2-Trichloroethane	9.032	97	91012	46.74	ug	92
51) 1,3-Dichloropropane	9.241	76	79629	23.55	ug	91
52) 1,2-Dibromoethane	9.624	107	91831	49.03	ug	96
53) Dibromochloromethane	9.504	129	105141	46.83	ug	92
54) Bromoform	10.924	173	74559	46.23	ug	100
55) 4-Methyl-2-Pentanone	8.303	43	100165	44.88	ug	97
57) Toluene	8.518	92	253858	48.11	ug	98
59) Tetrachloroethene	9.220	164	84898	47.99	ug	100
60) 2-Hexanone	9.378	43	68588	46.61	ug	93
62) Chlorobenzene	10.159	112	277665	50.52	ug	100

Data Path : C:\msdchem\1\DATA\101317\
 Data File : d9320.D
 Acq On : 14 Oct 2017 5:33
 Operator :
 Sample : lcsd
 Misc : lcsd e8260w
 ALS Vial : 37 Sample Multiplier: 1

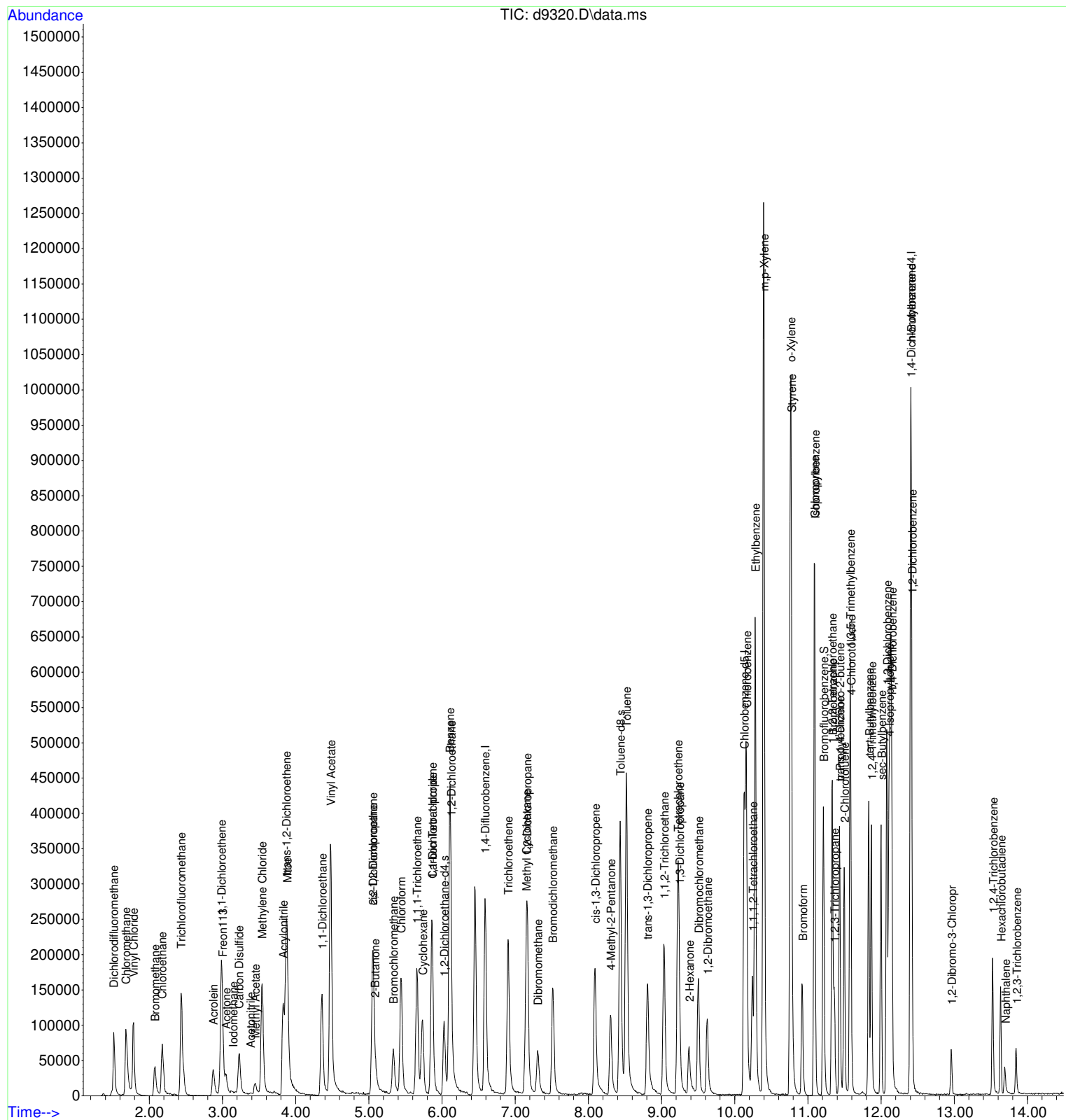
Quant Time: Oct 16 08:53:57 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Fri Oct 13 15:29:24 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,1,1,2-Tetrachloroethane	10.243	133	46560	23.83	ug	97
64) Ethylbenzene	10.280	106	148830	50.64	ug	94
65) m,p-Xylene	10.395	91	737590	102.40	ug	96
66) o-Xylene	10.762	106	187235	52.15	ug	97
67) Styrene	10.772	104	301158	55.35	ug	91
68) Isopropylbenzene	11.092	105	450557	49.88	ug	98
69) Chloroprene	11.087	53	4718	22.06	ug	# 1
70) trans-1,4-Dichloro-2-b...	11.433	88	257	1.69	ug	# 1
71) Bromobenzene	11.333	77	96591	24.12	ug	# 79
72) 1,2,3-Trichloropropane	11.360	75	52876	20.38	ug	91
73) 2-Chlorotoluene	11.496	91	157974	25.52	ug	96
74) 4-Chlorotoluene	11.585	91	170553	26.33	ug	99
75) 1,3,5-Trimethylbenzene	11.575	105	194001	26.89	ug	94
76) tert-Butylbenzene	11.832	119	167326	26.92	ug	100
77) 1,2,4-Trimethylbenzene	11.868	105	175228	25.36	ug	98
79) 1,1,2,2-Tetrachloroethane	11.328	83	113568	47.89	ug	95
80) n-Propylbenzene	11.433	91	243281	26.09	ug	100
81) 1,3-Dichlorobenzene	12.078	146	188871	49.84	ug	97
82) sec-Butylbenzene	11.999	105	218886	26.76	ug	99
83) 4-Isopropyltoluene	12.109	119	169048	25.71	ug	97
84) 1,4-Dichlorobenzene	12.146	146	187371m	50.82	ug	
85) 1,2-Dichlorobenzene	12.419	146	181152	50.19	ug	96
86) n-Butylbenzene	12.408	91	123733	27.48	ug	98
87) 1,2-Dibromo-3-Chloropr	12.959	157	16046	48.51	ug	91
88) 1,2,4-Trichlorobenzene	13.525	180	54435	46.32	ug	99
89) Hexachlorobutadiene	13.635	225	27097	25.65	ug	# 89
90) Naphthalene	13.693	128	31325	23.24	ug	100
91) 1,2,3-Trichlorobenzene	13.845	180	19157	23.04	ug	95

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

Data Path : C:\msdchem\1\DATA\101317\
Data File : d9320.D
Acq On : 14 Oct 2017 5:33
Operator :
Sample : lcsd
Misc : lcsd e8260w
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Oct 16 08:53:57 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-100617.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Fri Oct 13 15:29:24 2017
Response via : Initial Calibration



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Analyst: SMDStandards: 3115VQA12-42JDate: 10/13/17Vial 1 used for samples
unless otherwise noted below

A/S Pos.	File ID	Sample ID	DF	pH	QT Method	Review	Upload	QA/QC Checks			Comments
								Surr Check	IS Check	Res. Cl ₂	
B	D91304	VWIK									
B	05	VWIK									
28	06	VWIK				✓	✓	OK	OK		
29	07	1013050-1A				✓	✓	OK	OK	N	
3130	08	-2A				✓	✓	OK	OK	N	
B	09	BFB									
B	10	BFB - Tune good				✓	✓				2.00
31	11	V512050	5mL	1	Fixed	✓	✓	301K	273K	135K	Acetone LR
B	12	VWIK			W8260-						
B	13	VWIK			100617						
B	14	VWIK									
32	15	VWIK		1		✓	✓	OK	OK		
33	16	1005087-3A		1		✓	✓	OK	OK		28260w
34	17	-1A		1		✓	✓	OK	OK		
35	18	-2A		1		✓	✓	OK	OK		
36	19	ICS		1		✓	✓	OK	OK		
37	20	ICSD	↓	1	↓	✓	✓	OK	OK		
B	21	BTC									
B	22	BTC									
B	23	BFB									
B	24	BFB									
B	25	BFB									
B	26	BFB - Tune good									7.41
38	27	V512002	X50								
38	28	001	X100								
39	29	005	X50								
40	30	010									
41	31	050									
42	32	100									
43	33	200	↓								
44B	34	BTC									
B	35	BTC									
B	36	BTC									
B	37	BTC									

REVIEW

DATE

Adirondack Environmental Services, Inc**Date:** 09-Nov-17**CLIENT:** AECOM Environment**Client Sample ID:** MW-7 100517**Work Order:** 171005087**Collection Date:** 10/5/2017**Reference:** Ward Products Amsterdam /**Lab Sample ID:** 171005087-001**PO#:** 70990ACM**Matrix:** GROUNDWATER**Project# :** 60532721-700

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA 200.7						Analyst: KH
(Prep: SW3010A - 10/19/2017)						
Chromium	ND	5.00		µg/L	1	11/3/2017 11:11:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc**Date:** 09-Nov-17**CLIENT:** AECOM Environment**Client Sample ID:** MW-9 100517**Work Order:** 171005087**Collection Date:** 10/5/2017**Reference:** Ward Products Amsterdam /**Lab Sample ID:** 171005087-002**PO#:** 70990ACM**Matrix:** GROUNDWATER**Project# :** 60532721-700

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA 200.7						Analyst: KH
(Prep: SW3010A - 10/19/2017)						
Chromium	ND	5.00		µg/L	1	11/3/2017 11:14:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentatively Identified Compound-Estimated Conc.

CLIENT: AECOM Environment
Work Order: 171005087
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT**BatchID: 57238**

PDS	SeqNo: 2288752	PrepDate:				TestNo: E200.7		RunNo: 152908			
	Samp ID: 171005087-002 (MW-9 100517)	PrepRef:(SW3010A)				Units: µg/L		Analysis Date: 11/3/2017			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	448.3	10.0	400	0	112	75	125	0	0		
SD	SeqNo: 2288753	PrepDate:				TestNo: E200.7		RunNo: 152908			
	Samp ID: 171005087-002 (MW-9 100517)	PrepRef:(SW3010A)				Units: µg/L		Analysis Date: 11/3/2017			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	50.0	0	0	0	0	0	0	0	0	
MBLK	SeqNo: 2288746	PrepDate:10/19/2017				TestNo: E200.7		RunNo: 152908			
	Samp ID: MB-57238	PrepRef:(SW3010A)				Units: µg/L		Analysis Date: 11/3/2017			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	10.0	0	0	0	0	0	0	0		
LCS	SeqNo: 2288747	PrepDate:10/19/2017				TestNo: E200.7		RunNo: 152908			
	Samp ID: LCS-57238	PrepRef:(SW3010A)				Units: µg/L		Analysis Date: 11/3/2017			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	1961	10.0	2000	0	98.1	80	120	0	0		
MS	SeqNo: 2288751	PrepDate:10/19/2017				TestNo: E200.7		RunNo: 152908			
	Samp ID: 171005087-002 (MW-9 100517)	PrepRef:(SW3010A)				Units: µg/L		Analysis Date: 11/3/2017			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	218.4	10.0	200	0	109	75	125	0	0		
DUP	SeqNo: 2288750	PrepDate:10/19/2017				TestNo: E200.7		RunNo: 152908			
	Samp ID: 171005087-002	PrepRef:				Units: µg/L		Analysis Date: 11/3/2017			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	10.0	0	0	0	0	0	0	0	20	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 171005087
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 57238

CCB	SeqNo: 2288745	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCB-1	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	200	0	0	0	0	0	0	0		
Antimony	ND	60.0	0	0	0	0	0	0	0		
Arsenic	ND	10.0	0	0	0	0	0	0	0		
Barium	ND	200	0	0	0	0	0	0	0		
Beryllium	ND	5.00	0	0	0	0	0	0	0		
Boron	ND	50.0	0	0	0	0	0	0	0		
Cadmium	ND	5.00	0	0	0	0	0	0	0		
Calcium	ND	5000	0	0	0	0	0	0	0		
Chromium	ND	10.0	0	0	0	0	0	0	0		
Cobalt	ND	50.0	0	0	0	0	0	0	0		
Copper	ND	25.0	0	0	0	0	0	0	0		
Iron	ND	100	0	0	0	0	0	0	0		
Lead	ND	3.00	0	0	0	0	0	0	0		
Lithium	ND	100	0	0	0	0	0	0	0		
Magnesium	ND	5000	0	0	0	0	0	0	0		
Manganese	ND	15.0	0	0	0	0	0	0	0		
Molybdenum	ND	50.0	0	0	0	0	0	0	0		
Nickel	ND	40.0	0	0	0	0	0	0	0		
Potassium	ND	5000	0	0	0	0	0	0	0		
Selenium	ND	5.00	0	0	0	0	0	0	0		
Silver	ND	10.0	0	0	0	0	0	0	0		
Sodium	ND	5000	0	0	0	0	0	0	0		
Strontium	ND	20.0	0	0	0	0	0	0	0		
Thallium	ND	10.0	0	0	0	0	0	0	0		
Tin	ND	50.0	0	0	0	0	0	0	0		
Titanium	ND	50.0	0	0	0	0	0	0	0		
Vanadium	ND	50.0	0	0	0	0	0	0	0		
Zinc	ND	20.0	0	0	0	0	0	0	0		

CCB	SeqNo: 2288755	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCB-2	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 171005087
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 57238

CCB	SeqNo: 2288755	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCB-2	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	200	0	0	0	0	0	0	0		
Antimony	ND	60.0	0	0	0	0	0	0	0		
Arsenic	ND	10.0	0	0	0	0	0	0	0		
Barium	ND	200	0	0	0	0	0	0	0		
Beryllium	ND	5.00	0	0	0	0	0	0	0		
Boron	ND	50.0	0	0	0	0	0	0	0		
Cadmium	ND	5.00	0	0	0	0	0	0	0		
Calcium	ND	5000	0	0	0	0	0	0	0		
Chromium	ND	10.0	0	0	0	0	0	0	0		
Cobalt	ND	50.0	0	0	0	0	0	0	0		
Copper	ND	25.0	0	0	0	0	0	0	0		
Iron	ND	100	0	0	0	0	0	0	0		
Lead	ND	3.00	0	0	0	0	0	0	0		
Lithium	ND	100	0	0	0	0	0	0	0		
Magnesium	ND	5000	0	0	0	0	0	0	0		
Manganese	ND	15.0	0	0	0	0	0	0	0		
Molybdenum	ND	50.0	0	0	0	0	0	0	0		
Nickel	ND	40.0	0	0	0	0	0	0	0		
Potassium	ND	5000	0	0	0	0	0	0	0		
Selenium	ND	5.00	0	0	0	0	0	0	0		
Silver	ND	10.0	0	0	0	0	0	0	0		
Sodium	ND	5000	0	0	0	0	0	0	0		
Strontium	ND	20.0	0	0	0	0	0	0	0		
Thallium	ND	10.0	0	0	0	0	0	0	0		
Tin	ND	50.0	0	0	0	0	0	0	0		
Titanium	ND	50.0	0	0	0	0	0	0	0		
Vanadium	ND	50.0	0	0	0	0	0	0	0		
Zinc	ND	20.0	0	0	0	0	0	0	0		

CCB	SeqNo: 2288766	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCB-3	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 171005087
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 57238

CCB	SeqNo: 2288766	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCB-3	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	200	0	0	0	0	0	0	0		
Antimony	ND	60.0	0	0	0	0	0	0	0		
Arsenic	ND	10.0	0	0	0	0	0	0	0		
Barium	ND	200	0	0	0	0	0	0	0		
Beryllium	ND	5.00	0	0	0	0	0	0	0		
Boron	ND	50.0	0	0	0	0	0	0	0		
Cadmium	ND	5.00	0	0	0	0	0	0	0		
Calcium	ND	5000	0	0	0	0	0	0	0		
Chromium	ND	10.0	0	0	0	0	0	0	0		
Cobalt	ND	50.0	0	0	0	0	0	0	0		
Copper	ND	25.0	0	0	0	0	0	0	0		
Iron	ND	100	0	0	0	0	0	0	0		
Lead	ND	3.00	0	0	0	0	0	0	0		
Lithium	ND	100	0	0	0	0	0	0	0		
Magnesium	ND	5000	0	0	0	0	0	0	0		
Manganese	ND	15.0	0	0	0	0	0	0	0		
Molybdenum	ND	50.0	0	0	0	0	0	0	0		
Nickel	ND	40.0	0	0	0	0	0	0	0		
Potassium	ND	5000	0	0	0	0	0	0	0		
Selenium	ND	5.00	0	0	0	0	0	0	0		
Silver	ND	10.0	0	0	0	0	0	0	0		
Sodium	ND	5000	0	0	0	0	0	0	0		
Strontium	ND	20.0	0	0	0	0	0	0	0		
Thallium	ND	10.0	0	0	0	0	0	0	0		
Tin	ND	50.0	0	0	0	0	0	0	0		
Titanium	ND	50.0	0	0	0	0	0	0	0		
Vanadium	ND	50.0	0	0	0	0	0	0	0		
Zinc	ND	20.0	0	0	0	0	0	0	0		

CCB	SeqNo: 2288778	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCB-4	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 171005087
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 57238

CCB	SeqNo: 2288778	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCB-4	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	200	0	0	0	0	0	0	0		
Antimony	ND	60.0	0	0	0	0	0	0	0		
Arsenic	ND	10.0	0	0	0	0	0	0	0		
Barium	ND	200	0	0	0	0	0	0	0		
Beryllium	ND	5.00	0	0	0	0	0	0	0		
Boron	ND	50.0	0	0	0	0	0	0	0		
Cadmium	ND	5.00	0	0	0	0	0	0	0		
Calcium	ND	5000	0	0	0	0	0	0	0		
Chromium	ND	10.0	0	0	0	0	0	0	0		
Cobalt	ND	50.0	0	0	0	0	0	0	0		
Copper	ND	25.0	0	0	0	0	0	0	0		
Iron	ND	100	0	0	0	0	0	0	0		
Lead	ND	3.00	0	0	0	0	0	0	0		
Lithium	ND	100	0	0	0	0	0	0	0		
Magnesium	ND	5000	0	0	0	0	0	0	0		
Manganese	ND	15.0	0	0	0	0	0	0	0		
Molybdenum	ND	50.0	0	0	0	0	0	0	0		
Nickel	ND	40.0	0	0	0	0	0	0	0		
Potassium	ND	5000	0	0	0	0	0	0	0		
Selenium	ND	5.00	0	0	0	0	0	0	0		
Silver	ND	10.0	0	0	0	0	0	0	0		
Sodium	ND	5000	0	0	0	0	0	0	0		
Strontium	ND	20.0	0	0	0	0	0	0	0		
Thallium	ND	10.0	0	0	0	0	0	0	0		
Tin	ND	50.0	0	0	0	0	0	0	0		
Titanium	ND	50.0	0	0	0	0	0	0	0		
Vanadium	ND	50.0	0	0	0	0	0	0	0		
Zinc	ND	20.0	0	0	0	0	0	0	0		

CCB	SeqNo: 2289267	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCB-5	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 171005087
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 57238

CCB	SeqNo: 2289267	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCB-5	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	200	0	0	0	0	0	0	0		
Antimony	ND	60.0	0	0	0	0	0	0	0		
Arsenic	ND	10.0	0	0	0	0	0	0	0		
Barium	ND	200	0	0	0	0	0	0	0		
Beryllium	ND	5.00	0	0	0	0	0	0	0		
Boron	ND	50.0	0	0	0	0	0	0	0		
Cadmium	ND	5.00	0	0	0	0	0	0	0		
Calcium	ND	5000	0	0	0	0	0	0	0		
Chromium	ND	10.0	0	0	0	0	0	0	0		
Cobalt	ND	50.0	0	0	0	0	0	0	0		
Copper	ND	25.0	0	0	0	0	0	0	0		
Iron	ND	100	0	0	0	0	0	0	0		
Lead	ND	3.00	0	0	0	0	0	0	0		
Lithium	ND	100	0	0	0	0	0	0	0		
Magnesium	ND	5000	0	0	0	0	0	0	0		
Manganese	ND	15.0	0	0	0	0	0	0	0		
Molybdenum	ND	50.0	0	0	0	0	0	0	0		
Nickel	ND	40.0	0	0	0	0	0	0	0		
Potassium	ND	5000	0	0	0	0	0	0	0		
Selenium	ND	5.00	0	0	0	0	0	0	0		
Silver	ND	10.0	0	0	0	0	0	0	0		
Sodium	ND	5000	0	0	0	0	0	0	0		
Strontium	ND	20.0	0	0	0	0	0	0	0		
Thallium	ND	10.0	0	0	0	0	0	0	0		
Tin	ND	50.0	0	0	0	0	0	0	0		
Titanium	ND	50.0	0	0	0	0	0	0	0		
Vanadium	ND	50.0	0	0	0	0	0	0	0		
Zinc	ND	20.0	0	0	0	0	0	0	0		

CCB	SeqNo: 2289279	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCB-6	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 171005087
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 57238

CCB	SeqNo: 2289279	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCB-6	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	200	0	0	0	0	0	0	0		
Antimony	ND	60.0	0	0	0	0	0	0	0		
Arsenic	ND	10.0	0	0	0	0	0	0	0		
Barium	ND	200	0	0	0	0	0	0	0		
Beryllium	ND	5.00	0	0	0	0	0	0	0		
Boron	ND	50.0	0	0	0	0	0	0	0		
Cadmium	ND	5.00	0	0	0	0	0	0	0		
Calcium	ND	5000	0	0	0	0	0	0	0		
Chromium	ND	10.0	0	0	0	0	0	0	0		
Cobalt	ND	50.0	0	0	0	0	0	0	0		
Copper	ND	25.0	0	0	0	0	0	0	0		
Iron	ND	100	0	0	0	0	0	0	0		
Lead	ND	3.00	0	0	0	0	0	0	0		
Lithium	ND	100	0	0	0	0	0	0	0		
Magnesium	ND	5000	0	0	0	0	0	0	0		
Manganese	ND	15.0	0	0	0	0	0	0	0		
Molybdenum	ND	50.0	0	0	0	0	0	0	0		
Nickel	ND	40.0	0	0	0	0	0	0	0		
Potassium	ND	5000	0	0	0	0	0	0	0		
Selenium	ND	5.00	0	0	0	0	0	0	0		
Silver	ND	10.0	0	0	0	0	0	0	0		
Sodium	ND	5000	0	0	0	0	0	0	0		
Strontium	ND	20.0	0	0	0	0	0	0	0		
Thallium	ND	10.0	0	0	0	0	0	0	0		
Tin	ND	50.0	0	0	0	0	0	0	0		
Titanium	ND	50.0	0	0	0	0	0	0	0		
Vanadium	ND	50.0	0	0	0	0	0	0	0		
Zinc	ND	20.0	0	0	0	0	0	0	0		

CCB	SeqNo: 2289291	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCB-7	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 171005087
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 57238

CCB	SeqNo: 2289291	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCB-7	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	200	0	0	0	0	0	0	0		
Antimony	ND	60.0	0	0	0	0	0	0	0		
Arsenic	ND	10.0	0	0	0	0	0	0	0		
Barium	ND	200	0	0	0	0	0	0	0		
Beryllium	ND	5.00	0	0	0	0	0	0	0		
Boron	ND	50.0	0	0	0	0	0	0	0		
Cadmium	ND	5.00	0	0	0	0	0	0	0		
Calcium	ND	5000	0	0	0	0	0	0	0		
Chromium	ND	10.0	0	0	0	0	0	0	0		
Cobalt	ND	50.0	0	0	0	0	0	0	0		
Copper	ND	25.0	0	0	0	0	0	0	0		
Iron	ND	100	0	0	0	0	0	0	0		
Lead	ND	3.00	0	0	0	0	0	0	0		
Lithium	ND	100	0	0	0	0	0	0	0		
Magnesium	ND	5000	0	0	0	0	0	0	0		
Manganese	ND	15.0	0	0	0	0	0	0	0		
Molybdenum	ND	50.0	0	0	0	0	0	0	0		
Nickel	ND	40.0	0	0	0	0	0	0	0		
Potassium	ND	5000	0	0	0	0	0	0	0		
Selenium	ND	5.00	0	0	0	0	0	0	0		
Silver	ND	10.0	0	0	0	0	0	0	0		
Sodium	ND	5000	0	0	0	0	0	0	0		
Strontium	ND	20.0	0	0	0	0	0	0	0		
Thallium	ND	10.0	0	0	0	0	0	0	0		
Tin	ND	50.0	0	0	0	0	0	0	0		
Titanium	ND	50.0	0	0	0	0	0	0	0		
Vanadium	ND	50.0	0	0	0	0	0	0	0		
Zinc	ND	20.0	0	0	0	0	0	0	0		

CCB	SeqNo: 2289298	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCB-8	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 171005087
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 57238

CCB	SeqNo: 2289298	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCB-8	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	200	0	0	0	0	0	0	0		
Antimony	ND	60.0	0	0	0	0	0	0	0		
Arsenic	ND	10.0	0	0	0	0	0	0	0		
Barium	ND	200	0	0	0	0	0	0	0		
Beryllium	ND	5.00	0	0	0	0	0	0	0		
Boron	ND	50.0	0	0	0	0	0	0	0		
Cadmium	ND	5.00	0	0	0	0	0	0	0		
Calcium	ND	5000	0	0	0	0	0	0	0		
Chromium	ND	10.0	0	0	0	0	0	0	0		
Cobalt	ND	50.0	0	0	0	0	0	0	0		
Copper	ND	25.0	0	0	0	0	0	0	0		
Iron	ND	100	0	0	0	0	0	0	0		
Lead	ND	3.00	0	0	0	0	0	0	0		
Lithium	ND	100	0	0	0	0	0	0	0		
Magnesium	ND	5000	0	0	0	0	0	0	0		
Manganese	ND	15.0	0	0	0	0	0	0	0		
Molybdenum	ND	50.0	0	0	0	0	0	0	0		
Nickel	ND	40.0	0	0	0	0	0	0	0		
Potassium	ND	5000	0	0	0	0	0	0	0		
Selenium	ND	5.00	0	0	0	0	0	0	0		
Silver	ND	10.0	0	0	0	0	0	0	0		
Sodium	ND	5000	0	0	0	0	0	0	0		
Strontium	ND	20.0	0	0	0	0	0	0	0		
Thallium	ND	10.0	0	0	0	0	0	0	0		
Tin	ND	50.0	0	0	0	0	0	0	0		
Titanium	ND	50.0	0	0	0	0	0	0	0		
Vanadium	ND	50.0	0	0	0	0	0	0	0		
Zinc	ND	20.0	0	0	0	0	0	0	0		

CCV	SeqNo: 2288744	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCV-1	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 171005087
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 57238

CCV	SeqNo: 2288744	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCV-1	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	2008	200	2000	0	100	90	110	0	0		
Antimony	1973	60.0	2000	0	98.7	90	110	0	0		
Arsenic	1991	10.0	2000	0	99.6	90	110	0	0		
Barium	2112	200	2000	0	106	90	110	0	0		
Beryllium	2046	5.00	2000	0	102	90	110	0	0		
Boron	2060	50.0	2000	0	103	90	110	0	0		
Cadmium	2089	5.00	2000	0	104	90	110	0	0		
Calcium	ND	5000	2000	0	105	90	110	0	0		
Chromium	1979	10.0	2000	0	99	90	110	0	0		
Cobalt	2015	50.0	2000	0	101	90	110	0	0		
Copper	2085	25.0	2000	0	104	90	110	0	0		
Iron	2074	100	2000	0	104	90	110	0	0		
Lead	2129	3.00	2000	0	106	90	110	0	0		
Lithium	2008	100	2000	0	100	90	110	0	0		
Magnesium	ND	5000	2000	0	100	90	110	0	0		
Manganese	1973	15.0	2000	0	98.6	90	110	0	0		
Molybdenum	2014	50.0	2000	0	101	90	110	0	0		
Nickel	2148	40.0	2000	0	107	90	110	0	0		
Potassium	9732	5000	10000	0	97.3	90	110	0	0		
Selenium	1981	5.00	2000	0	99	90	110	0	0		
Silver	507.3	10.0	500	0	101	90	110	0	0		
Sodium	ND	5000	2000	0	91.6	90	110	0	0		
Strontium	2081	20.0	2000	0	104	90	110	0	0		
Thallium	2077	10.0	2000	0	104	90	110	0	0		
Tin	1996	50.0	2000	0	99.8	90	110	0	0		
Titanium	ND	50.0	0	0	0	90	110	0	0		
Vanadium	1951	50.0	2000	0	97.6	90	110	0	0		
Zinc	2131	20.0	2000	0	107	90	110	0	0		

CCV	SeqNo: 2288754	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCV-2	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 171005087
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 57238

CCV	SeqNo: 2288754	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCV-2	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	2013	200	2000	0	101	90	110	0	0		
Antimony	1979	60.0	2000	0	99	90	110	0	0		
Arsenic	1998	10.0	2000	0	99.9	90	110	0	0		
Barium	2107	200	2000	0	105	90	110	0	0		
Beryllium	2035	5.00	2000	0	102	90	110	0	0		
Boron	2077	50.0	2000	0	104	90	110	0	0		
Cadmium	2096	5.00	2000	0	105	90	110	0	0		
Calcium	ND	5000	2000	0	104	90	110	0	0		
Chromium	1968	10.0	2000	0	98.4	90	110	0	0		
Cobalt	2012	50.0	2000	0	101	90	110	0	0		
Copper	2077	25.0	2000	0	104	90	110	0	0		
Iron	2061	100	2000	0	103	90	110	0	0		
Lead	2129	3.00	2000	0	106	90	110	0	0		
Lithium	1971	100	2000	0	98.6	90	110	0	0		
Magnesium	ND	5000	2000	0	99.3	90	110	0	0		
Manganese	1987	15.0	2000	0	99.4	90	110	0	0		
Molybdenum	2017	50.0	2000	0	101	90	110	0	0		
Nickel	2141	40.0	2000	0	107	90	110	0	0		
Potassium	9702	5000	10000	0	97	90	110	0	0		
Selenium	1977	5.00	2000	0	98.8	90	110	0	0		
Silver	504.7	10.0	500	0	101	90	110	0	0		
Sodium	ND	5000	2000	0	91.9	90	110	0	0		
Strontium	2066	20.0	2000	0	103	90	110	0	0		
Thallium	2097	10.0	2000	0	105	90	110	0	0		
Tin	1998	50.0	2000	0	99.9	90	110	0	0		
Titanium	ND	50.0	0	0	0	90	110	0	0		
Vanadium	1950	50.0	2000	0	97.5	90	110	0	0		
Zinc	2128	20.0	2000	0	106	90	110	0	0		

CCV	SeqNo: 2288765	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCV-3	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 171005087
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 57238

CCV	SeqNo: 2288765	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCV-3	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	2072	200	2000	0	104	90	110	0	0		
Antimony	2106	60.0	2000	0	105	90	110	0	0		
Arsenic	2108	10.0	2000	0	105	90	110	0	0		
Barium	2068	200	2000	0	103	90	110	0	0		
Beryllium	2195	5.00	2000	0	110	90	110	0	0		
Boron	1944	50.0	2000	0	97.2	90	110	0	0		
Cadmium	2125	5.00	2000	0	106	90	110	0	0		
Calcium	ND	5000	2000	0	103	90	110	0	0		
Chromium	1932	10.0	2000	0	96.6	90	110	0	0		
Cobalt	1879	50.0	2000	0	94	90	110	0	0		
Copper	2061	25.0	2000	0	103	90	110	0	0		
Iron	2003	100	2000	0	100	90	110	0	0		
Lead	1922	3.00	2000	0	96.1	90	110	0	0		
Lithium	2040	100	2000	0	102	90	110	0	0		
Magnesium	ND	5000	2000	0	103	90	110	0	0		
Manganese	2154	15.0	2000	0	108	90	110	0	0		
Molybdenum	2171	50.0	2000	0	109	90	110	0	0		
Nickel	1908	40.0	2000	0	95.4	90	110	0	0		
Potassium	10030	5000	10000	0	100	90	110	0	0		
Selenium	2133	5.00	2000	0	107	90	110	0	0		
Silver	514.8	10.0	500	0	103	90	110	0	0		
Sodium	ND	5000	2000	0	96.8	90	110	0	0		
Strontium	2028	20.0	2000	0	101	90	110	0	0		
Thallium	1921	10.0	2000	0	96.1	90	110	0	0		
Tin	1919	50.0	2000	0	95.9	90	110	0	0		
Titanium	ND	50.0	0	0	0	90	110	0	0		
Vanadium	2082	50.0	2000	0	104	90	110	0	0		
Zinc	2039	20.0	2000	0	102	90	110	0	0		

CCV	SeqNo: 2288777	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCV-4	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 171005087
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 57238

CCV	SeqNo: 2288777	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCV-4	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	2088	200	2000	0	104	90	110	0	0		
Antimony	2129	60.0	2000	0	106	90	110	0	0		
Arsenic	1912	10.0	2000	0	95.6	90	110	0	0		
Barium	2065	200	2000	0	103	90	110	0	0		
Beryllium	2045	5.00	2000	0	102	90	110	0	0		
Boron	1958	50.0	2000	0	97.9	90	110	0	0		
Cadmium	2120	5.00	2000	0	106	90	110	0	0		
Calcium	ND	5000	2000	0	96.2	90	110	0	0		
Chromium	1894	10.0	2000	0	94.7	90	110	0	0		
Cobalt	2183	50.0	2000	0	109	90	110	0	0		
Copper	2010	25.0	2000	0	100	90	110	0	0		
Iron	2000	100	2000	0	100	90	110	0	0		
Lead	1914	3.00	2000	0	95.7	90	110	0	0		
Lithium	2027	100	2000	0	101	90	110	0	0		
Magnesium	ND	5000	2000	0	103	90	110	0	0		
Manganese	2138	15.0	2000	0	107	90	110	0	0		
Molybdenum	2174	50.0	2000	0	109	90	110	0	0		
Nickel	1907	40.0	2000	0	95.4	90	110	0	0		
Potassium	10280	5000	10000	0	103	90	110	0	0		
Selenium	2165	5.00	2000	0	108	90	110	0	0		
Silver	515.1	10.0	500	0	103	90	110	0	0		
Sodium	ND	5000	2000	0	99.7	90	110	0	0		
Strontium	2128	20.0	2000	0	106	90	110	0	0		
Thallium	2114	10.0	2000	0	106	90	110	0	0		
Tin	1954	50.0	2000	0	97.7	90	110	0	0		
Titanium	ND	50.0	0	0	0	90	110	0	0		
Vanadium	2074	50.0	2000	0	104	90	110	0	0		
Zinc	2063	20.0	2000	0	103	90	110	0	0		

CCV	SeqNo: 2289266	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCV-5	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 171005087
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 57238

CCV	SeqNo: 2289266	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCV-5	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	2098	200	2000	0	105	90	110	0	0		
Antimony	2149	60.0	2000	0	107	90	110	0	0		
Arsenic	1950	10.0	2000	0	97.5	90	110	0	0		
Barium	2048	200	2000	0	102	90	110	0	0		
Beryllium	2056	5.00	2000	0	103	90	110	0	0		
Boron	1969	50.0	2000	0	98.4	90	110	0	0		
Cadmium	2210	5.00	2000	0	111	90	110	0	0		S
Calcium	ND	5000	2000	0	99.4	90	110	0	0		
Chromium	1896	10.0	2000	0	94.8	90	110	0	0		
Cobalt	1897	50.0	2000	0	94.9	90	110	0	0		
Copper	1988	25.0	2000	0	99.4	90	110	0	0		
Iron	2030	100	2000	0	101	90	110	0	0		
Lead	1977	3.00	2000	0	98.8	90	110	0	0		
Lithium	2034	100	2000	0	102	90	110	0	0		
Magnesium	ND	5000	2000	0	103	90	110	0	0		
Manganese	2160	15.0	2000	0	108	90	110	0	0		
Molybdenum	2181	50.0	2000	0	109	90	110	0	0		
Nickel	1954	40.0	2000	0	97.7	90	110	0	0		
Potassium	9627	5000	10000	0	96.3	90	110	0	0		
Selenium	1891	5.00	2000	0	94.6	90	110	0	0		
Silver	517.2	10.0	500	0	103	90	110	0	0		
Sodium	ND	5000	2000	0	101	90	110	0	0		
Strontium	2176	20.0	2000	0	109	90	110	0	0		
Thallium	2164	10.0	2000	0	108	90	110	0	0		
Tin	2028	50.0	2000	0	101	90	110	0	0		
Titanium	ND	50.0	0	0	0	90	110	0	0		
Vanadium	2092	50.0	2000	0	105	90	110	0	0		
Zinc	2086	20.0	2000	0	104	90	110	0	0		

CCV	SeqNo: 2289278	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCV-6	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 171005087
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 57238

CCV	SeqNo: 2289278	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCV-6	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	2082	200	2000	0	104	90	110	0	0		
Antimony	2112	60.0	2000	0	106	90	110	0	0		
Arsenic	1896	10.0	2000	0	94.8	90	110	0	0		
Barium	2009	200	2000	0	100	90	110	0	0		
Beryllium	2022	5.00	2000	0	101	90	110	0	0		
Boron	1941	50.0	2000	0	97	90	110	0	0		
Cadmium	2181	5.00	2000	0	109	90	110	0	0		
Calcium	ND	5000	2000	0	98.5	90	110	0	0		
Chromium	1866	10.0	2000	0	93.3	90	110	0	0		
Cobalt	2133	50.0	2000	0	107	90	110	0	0		
Copper	1959	25.0	2000	0	98	90	110	0	0		
Iron	2007	100	2000	0	100	90	110	0	0		
Lead	1955	3.00	2000	0	97.8	90	110	0	0		
Lithium	2056	100	2000	0	103	90	110	0	0		
Magnesium	ND	5000	2000	0	101	90	110	0	0		
Manganese	2132	15.0	2000	0	107	90	110	0	0		
Molybdenum	2194	50.0	2000	0	110	90	110	0	0		
Nickel	1934	40.0	2000	0	96.7	90	110	0	0		
Potassium	10360	5000	10000	0	104	90	110	0	0		
Selenium	2174	5.00	2000	0	109	90	110	0	0		
Silver	511.5	10.0	500	0	102	90	110	0	0		
Sodium	ND	5000	2000	0	99.7	90	110	0	0		
Strontium	2159	20.0	2000	0	108	90	110	0	0		
Thallium	2148	10.0	2000	0	107	90	110	0	0		
Tin	2032	50.0	2000	0	102	90	110	0	0		
Titanium	ND	50.0	0	0	0	90	110	0	0		
Vanadium	2052	50.0	2000	0	103	90	110	0	0		
Zinc	2041	20.0	2000	0	102	90	110	0	0		

CCV	SeqNo: 2289290	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCV-7	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 171005087
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 57238

CCV	SeqNo: 2289290	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCV-7	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	2050	200	2000	0	103	90	110	0	0		
Antimony	2061	60.0	2000	0	103	90	110	0	0		
Arsenic	2158	10.0	2000	0	108	90	110	0	0		
Barium	1961	200	2000	0	98.1	90	110	0	0		
Beryllium	1939	5.00	2000	0	97	90	110	0	0		
Boron	1891	50.0	2000	0	94.6	90	110	0	0		
Cadmium	2117	5.00	2000	0	106	90	110	0	0		
Calcium	ND	5000	2000	0	96.2	90	110	0	0		
Chromium	1821	10.0	2000	0	91	90	110	0	0		
Cobalt	2078	50.0	2000	0	104	90	110	0	0		
Copper	1906	25.0	2000	0	95.3	90	110	0	0		
Iron	1968	100	2000	0	98.4	90	110	0	0		
Lead	1916	3.00	2000	0	95.8	90	110	0	0		
Lithium	2010	100	2000	0	101	90	110	0	0		
Magnesium	ND	5000	2000	0	97.8	90	110	0	0		
Manganese	2072	15.0	2000	0	104	90	110	0	0		
Molybdenum	1989	50.0	2000	0	99.4	90	110	0	0		
Nickel	1903	40.0	2000	0	95.2	90	110	0	0		
Potassium	10140	5000	10000	0	101	90	110	0	0		
Selenium	2114	5.00	2000	0	106	90	110	0	0		
Silver	503	10.0	500	0	101	90	110	0	0		
Sodium	ND	5000	2000	0	95.5	90	110	0	0		
Strontium	2105	20.0	2000	0	105	90	110	0	0		
Thallium	2136	10.0	2000	0	107	90	110	0	0		
Tin	2043	50.0	2000	0	102	90	110	0	0		
Titanium	ND	50.0	0	0	0	90	110	0	0		
Vanadium	1981	50.0	2000	0	99	90	110	0	0		
Zinc	1952	20.0	2000	0	97.6	90	110	0	0		

CCV	SeqNo: 2289297	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCV-8	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 171005087
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 57238

CCV	SeqNo: 2289297	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CCV-8	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	2047	200	2000	0	102	90	110	0	0		
Antimony	2063	60.0	2000	0	103	90	110	0	0		
Arsenic	2109	10.0	2000	0	105	90	110	0	0		
Barium	1966	200	2000	0	98.3	90	110	0	0		
Beryllium	1934	5.00	2000	0	96.7	90	110	0	0		
Boron	1893	50.0	2000	0	94.6	90	110	0	0		
Cadmium	2025	5.00	2000	0	101	90	110	0	0		
Calcium	ND	5000	2000	0	95.9	90	110	0	0		
Chromium	1812	10.0	2000	0	90.6	90	110	0	0		
Cobalt	2078	50.0	2000	0	104	90	110	0	0		
Copper	1891	25.0	2000	0	94.5	90	110	0	0		
Iron	1983	100	2000	0	99.2	90	110	0	0		
Lead	1919	3.00	2000	0	96	90	110	0	0		
Lithium	2004	100	2000	0	100	90	110	0	0		
Magnesium	ND	5000	2000	0	97.7	90	110	0	0		
Manganese	2082	15.0	2000	0	104	90	110	0	0		
Molybdenum	2002	50.0	2000	0	100	90	110	0	0		
Nickel	1903	40.0	2000	0	95.1	90	110	0	0		
Potassium	10140	5000	10000	0	101	90	110	0	0		
Selenium	2107	5.00	2000	0	105	90	110	0	0		
Silver	500.1	10.0	500	0	100	90	110	0	0		
Sodium	ND	5000	2000	0	95.3	90	110	0	0		
Strontium	2115	20.0	2000	0	106	90	110	0	0		
Thallium	2149	10.0	2000	0	107	90	110	0	0		
Tin	2052	50.0	2000	0	103	90	110	0	0		
Titanium	ND	50.0	0	0	0	90	110	0	0		
Vanadium	1972	50.0	2000	0	98.6	90	110	0	0		
Zinc	1948	20.0	2000	0	97.4	90	110	0	0		

CRI	SeqNo: 2288741	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CRI-1	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 171005087
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 57238

CRI	SeqNo: 2288741	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CRI-1	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	23.29	10.0	20	0	116	50	150	0	0		

CRI	SeqNo: 2289294	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: CRI-2	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.05	10.0	20	0	100	50	150	0	0		

ICB	SeqNo: 2288740	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: ICB-1	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	10.0	0	0	0	0	0	0	0		

ICV	SeqNo: 2288739	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: ICV-1	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	1951	10.0	2000	0	97.5	90	110	0	0		

ICSA	SeqNo: 2288742	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: ICSA-1	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	10.0	0	0	0	80	120	0	0		

ICSA	SeqNo: 2289295	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: ICSA-2	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	10.0	0	0	0	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: AECOM Environment
Work Order: 171005087
Project: Ward Products Amsterdam

ANALYTICAL QC SUMMARY REPORT

BatchID: 57238

ICSAB	SeqNo: 2288743	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: ICSAB-1	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	573.6	10.0	500	0	115	80	120	0	0		

ICSAB	SeqNo: 2289296	PrepDate:	TestNo: E200.7	RunNo: 152908
	Samp ID: ICSAB-2	PrepRef:	Units: µg/L	Analysis Date: 11/3/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	533.3	10.0	500	0	107	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Adirondack Environmental Services, Inc**Date:** 03-Nov-17**Test Code:** CLPW**Test Number:** E200.7**Test Name:** ICP Metals Water**Matrix:** Water **Units:** µg/L**METHOD DETECTION /
REPORTING LIMITS****Updated:** 18-Sep-17

Type	Analyte	MDL	PQL
A	Aluminum	32.4	200
A	Antimony	1.86	60
A	Arsenic	2.37	10
A	Barium	2.06	200
A	Beryllium	0.61	5
A	Boron	4.66	50
A	Cadmium	0.25	5
A	Calcium	18.2	5000
A	Chromium	3.73	10
A	Cobalt	0.57	50
A	Copper	2.93	25
A	Iron	7.42	100
A	Lead	1.45	3
A	Lithium	68.3	100
A	Magnesium	43.1	5000
A	Manganese	2.17	15
A	Molybdenum	0.65	50
A	Nickel	0.5	40
A	Potassium	16.2	5000
A	Selenium	2.6	5
A	Silver	5.89	10
A	Sodium	22.3	5000
A	Strontium	16	20
A	Thallium	2.64	10
A	Tin	1.76	50
A	Titanium	0	50
A	Vanadium	5.04	50
A	Zinc	1.86	20

Sample Report

Report Author

Printed: 11/6/2017 12:14 pm

Blank

Acquire Date: 03-Nov-2017 9:13 am

Sample Type: Calib. Std.

Correction Factor: 1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	-.05410	Cts/S	.01766	32.636
Ag	-.31350	Cts/S	.05885	18.772
Al	.05167	Cts/S	.01716	33.219
As	.01859	Cts/S	.00163	8.7929
Au	.33265	Cts/S	.00439	1.3212
B_	.07467	Cts/S	.01483	19.860
Ba	32.624	Cts/S	.049	.15087
Be	5.1006	Cts/S	.0216	.42342
Ca	-.02636	Cts/S	.04512	171.19
Cd	.03888	Cts/S	.00699	17.967
Co	.02222	Cts/S	.02182	98.214
Cr	-.21018	Cts/S	.04614	21.953
Cu	1.1028	Cts/S	.0373	3.3802
Fe	.76774	Cts/S	.04754	6.1919
K_	-.60757	Cts/S	.07847	12.916
Li	-96.854	Cts/S	4.012	4.1418
Mg	.04716	Cts/S	.08632	183.02
Mn	.06357	Cts/S	.01483	23.332
Mo	-.02006	Cts/S	.00829	41.347
Na	-96.899	Cts/S	3.433	3.5433
Ni	.00062	Cts/S	.03142	5,103.2
Pb	-.00216	Cts/S	.01877	868.39
Pd	-.05410	Cts/S	.00196	3.6258
Sb	.02345	Cts/S	.00437	18.617
Se	.01952	Cts/S	.01495	76.587
Si	.29578	Cts/S	.07032	23.774
Sn	-.01821	Cts/S	.00393	21.564
Sr	.20573	Cts/S	.07877	38.289
Ti	-.10958	Cts/S	.16675	152.16
Tl	-.02592	Cts/S	.00252	9.7366
V_	-.01665	Cts/S	.01373	82.496
Zn	.19502	Cts/S	.00438	2.2470
Zr	-.90720	Cts/S	.00393	.43283

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 11/6/2017 12:14 pm

Ag - 1ppm

Acquire Date: 03-Nov-2017 9:18 am

Sample Type: Calib. Std.

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Ag	28.249	Cts/S	.052	.18271

200.7-6

Acquire Date: 03-Nov-2017 9:30 am

Sample Type: Calib. Std.

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
As	16.938	Cts/S	.050	.29571
Cr	24.397	Cts/S	.040	.16308
Li	17.583	Cts/S	2.815	16.012
Se	15.284	Cts/S	.005	.03358
Si	36.762	Cts/S	.056	.15209
Sn	42.544	Cts/S	.086	.20280
V_	20.550	Cts/S	.114	.55354

200.7-1

Acquire Date: 03-Nov-2017 9:40 am

Sample Type: Calib. Std.

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	1383.5	Cts/S	13.4	.96982
Al	88.628	Cts/S	.734	.82856
Ca	117.92	Cts/S	.92	.78315
K_	376.85	Cts/S	1.70	.44978
Mg	66.778	Cts/S	.648	.97073
Na	2621.4	Cts/S	27.6	1.0522
Ni	614.33	Cts/S	1.82	.29648
Zn	1674.7	Cts/S	4.9	.29392

200.7-2

Acquire Date: 03-Nov-2017 9:51 am

Sample Type: Calib. Std.

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Ba	694.98	Cts/S	7.77	1.1185
Be	1206.9	Cts/S	6.1	.50630
Co	396.13	Cts/S	2.37	.59840
Cu	37.483	Cts/S	.100	.26790
Fe	3406.2	Cts/S	5.0	.14672
Mn	1202.4	Cts/S	4.1	.34283
Sr	128.75	Cts/S	.56	.43476

Color Legend: Pass/Unchecked Internal Standard Check Fail Check Warn

200.7-3

Acquire Date: 03-Nov-2017 10:00 am

Sample Type: Calib. Std.

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
B_	19.181	Cts/S	.038	.19615
Cd	134.19	Cts/S	.58	.43127
Pb	19.744	Cts/S	.075	.37777
Tl	6.4836	Cts/S	.0083	.12830

200.7-4

Acquire Date: 03-Nov-2017 10:07 am

Sample Type: Calib. Std.

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Mo	736.14	Cts/S	.62	.08476
Sb	148.00	Cts/S	.21	.14236
Ti	599.39	Cts/S	2.12	.35308

ICV-1

Acquire Date: 03-Nov-2017 10:20 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	1922.3	ppb	1.0	.05170
Ag	502.20	ppb	4.63	.92175
Al	2082.2	ppb	14.2	.68101
As	1948.1	ppb	1.8	.09033
Au	14.886	ppb	.246	1.6529
B_	2053.6	ppb	.1	.00441
Ba	2082.3	ppb	8.4	.40233
Be	1998.1	ppb	3.0	.15225
Ca	2036.8	ppb	4.7	.23120
Cd	2064.7	ppb	5.7	.27759
Co	1976.8	ppb	5.8	.29239
Cr	1950.9	ppb	7.8	.40044
Cu	2070.8	ppb	7.9	.38324
Fe	2006.6	ppb	1.6	.08215
K_	9590.1	ppb	17.4	.18175
Li	1979.0	ppb	72.7	3.6720
Mg	1999.9	ppb	1.6	.07911
Mn	1953.0	ppb	5.1	.25881
Mo	1967.9	ppb	7.9	.40232
Na	1904.3	ppb	2.5	.13059
Ni	2095.5	ppb	8.3	.39638
Pb	2079.0	ppb	8.3	.40038

Color Legend: Pass/Unchecked Internal Standard Check Fail Check Warn

ICV-1

Acquire Date: 03-Nov-2017 10:20 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Pd	<.00000	ppb	12.836	55.415
Sb	1945.8	ppb	5.2	.26639
Se	1928.2	ppb	5.0	.25687
Si	4754.5	ppb	16.7	.35028
Sn	1963.3	ppb	6.6	.33804
Sr	2014.1	ppb	7.1	.35339
Ti	<.00000	ppb	.5560	20.026
Tl	2056.0	ppb	2.7	.13152
V_	1969.6	ppb	10.7	.54166
Zn	2091.2	ppb	7.7	.36623
Zr	2.1242	ppb	4.1071	193.35

ICB-1

Acquire Date: 03-Nov-2017 10:25 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	2.2960	ppb	.0566	2.4656
Ag	1.0201	ppb	4.7385	464.52
Al	<.00000	ppb	3.987	37.855
As	.94861	ppb	.37414	39.440
Au	<.00000	ppb	.85236	398.95
B_	2.5113	ppb	.8147	32.442
Ba	1.2630	ppb	.7677	60.784
Be	<.00000	ppb	.01981	7.8370
Ca	7.2914	ppb	.4992	6.8469
Cd	.03566	ppb	.04716	132.24
Co	<.00000	ppb	.08153	63.045
Cr	<.00000	ppb	.6875	11.837
Cu	.64813	ppb	1.83514	283.14
Fe	<.00000	ppb	.08082	30.115
K_	16.464	ppb	.624	3.7882
Li	38.585	ppb	78.528	203.52
Mg	<.00000	ppb	.0001	.00235
Mn	<.00000	ppb	.01561	29.666
Mo	.22216	ppb	.10671	48.032
Na	3.1689	ppb	30.7651	970.83
Ni	.14071	ppb	.29129	207.02
Pb	.64095	ppb	.61884	96.550
Pd	<.00000	ppb	7.9677	195.81
Sb	.31307	ppb	.14759	47.144

Color Legend: Pass/Unchecked Internal Standard Check Fail Check Warn

Sample Report

Printed: 11/6/2017 12:14 pm

ICB-1

Acquire Date: 03-Nov-2017 10:25 am

Sample Type: Unknown

Correction Factor: 1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Se	<.00000	ppb	.12858	22.719
Si	13.781	ppb	8.819	63.995
Sn	.15943	ppb	.32815	205.83
Sr	<.00000	ppb	.6570	7.7592
Ti	1.3652	ppb	.7854	57.530
Tl	1.6853	ppb	1.0428	61.876
V_	3.1030	ppb	3.6242	116.80
Zn	<.00000	ppb	.03132	50.287
Zr	1.9529	ppb	.2754	14.101

CRI-1

Acquire Date: 03-Nov-2017 10:32 am

Sample Type: Unknown

Correction Factor: 1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	<.00000	ppb	.9618	48.745
Ag	19.518	ppb	2.477	12.690
Al	<.00000	ppb	12.844	73.740
As	20.930	ppb	.235	1.1240
Au	.37555	ppb	.47237	125.78
B_	.30596	ppb	.34741	113.55
Ba	<.00000	ppb	.64002	136.82
Be	9.7497	ppb	.1422	1.4581
Ca	4.9388	ppb	4.1568	84.165
Cd	10.133	ppb	.083	.82113
Co	95.649	ppb	.443	.46348
Cr	23.286	ppb	7.346	31.547
Cu	49.432	ppb	.104	.21109
Fe	1.5567	ppb	.0950	6.0998
K_	8.3095	ppb	5.0950	61.316
Li	<.00000	ppb	66.790	531.86
Mg	5.1882	ppb	1.4776	28.480
Mn	28.295	ppb	.105	.37143
Mo	<.00000	ppb	.02961	158,470
Na	<.00000	ppb	11.300	99.934
Ni	82.868	ppb	.621	.74955
Pb	6.8294	ppb	.2202	3.2239
Pd	8.7663	ppb	3.9838	45.445
Sb	111.47	ppb	.72	.64773
Se	8.9765	ppb	.6132	6.8308
Si	4.8876	ppb	19.0414	389.59

Color Legend: Pass/Unchecked Internal Standard Check Fail Check Warn

Sample Report

Printed: 11/6/2017 12:14 pm

CRI-1

Acquire Date: 03-Nov-2017 10:32 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Sn	.50745	ppb	.08208	16.175
Sr	<.00000	ppb	3.3496	47.604
Ti	.69435	ppb	1.79923	259.12
Tl	20.206	ppb	2.267	11.218
V_	90.010	ppb	1.446	1.6067
Zn	41.907	ppb	.139	.33159
Zr	2.1100	ppb	1.1629	55.112

ICSA-1

Acquire Date: 03-Nov-2017 10:38 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	15.480	ppb	1.773	11.454
Ag	<.00000	ppb	1.926	4.2826
Al	500390.	ppb	1,580	.31580
As	<.00000	ppb	1.94	1.0065
Au	135.84	ppb	.56	.41422
B_	<.00000	ppb	.50	.37671
Ba	<.00000	ppb	.6315	28.474
Be	1.6457	ppb	.0509	3.0930
Ca	429010.	ppb	1,421	.33120
Cd	<.00000	ppb	.0050	.34289
Co	.69803	ppb	.11891	17.035
Cr	<.00000	ppb	2.1092	32.936
Cu	<.00000	ppb	1.108	4.2975
Fe	126740.	ppb	114	.08978
K_	<.00000	ppb	4.264	17.850
Li	<.00000	ppb	147.5	7.0744
Mg	514250.	ppb	1,539	.29921
Mn	<.00000	ppb	.0388	.51122
Mo	<.00000	ppb	.1240	2.7551
Na	23.912	ppb	32.537	136.07
Ni	<.00000	ppb	.298	1.8661
Pb	<.00000	ppb	.141	.16883
Pd	<.00000	ppb	7.9695	94.296
Sb	<.00000	ppb	1.8774	31.409
Se	<.00000	ppb	3.106	6.4861
Si	10.472	ppb	1.071	10.229
Sn	1.3050	ppb	.5537	42.431
Sr	9.2544	ppb	9.0728	98.038

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

ICSA-1

Acquire Date: 03-Nov-2017 10:38 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Ti	<.00000	ppb	.852	5.6539
Tl	<.00000	ppb	4.6770	64.529
V_	<.00000	ppb	.856	3.1292
Zn	<.00000	ppb	.037	.18702
Zr	<.00000	ppb	2.27910	2,347.1

ICSAB-1

Acquire Date: 03-Nov-2017 10:42 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	21.947	ppb	1.219	5.5530
Ag	1022.7	ppb	8.1	.78938
Al	488990.	ppb	5,110	1.0451
As	<.00000	ppb	.56	.28832
Au	141.06	ppb	2.57	1.8232
B_	<.00000	ppb	2.51	1.9233
Ba	490.95	ppb	5.82	1.1848
Be	481.73	ppb	5.71	1.1847
Ca	419960.	ppb	4,535	1.0798
Cd	896.59	ppb	6.46	.71996
Co	441.27	ppb	2.92	.66143
Cr	573.56	ppb	8.97	1.5644
Cu	540.02	ppb	1.26	.23272
Fe	124160.	ppb	1,084	.87300
K_	<.00000	ppb	.466	1.4839
Li	<.00000	ppb	150.0	7.3460
Mg	500840.	ppb	4,573	.91309
Mn	417.39	ppb	4.33	1.0385
Mo	<.00000	ppb	.4089	14.562
Na	26.851	ppb	52.823	196.73
Ni	1014.4	ppb	7.3	.72441
Pb	879.81	ppb	11.55	1.3124
Pd	<.00000	ppb	4.871	17.682
Sb	<.00000	ppb	.26128	29.894
Se	<.00000	ppb	4.116	8.8235
Si	<.00000	ppb	14.5637	261.94
Sn	.08706	ppb	1.08673	1,248.2
Sr	16.577	ppb	.553	3.3345
Ti	<.00000	ppb	.228	1.3095
Tl	<.00000	ppb	.149	.85154

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 11/6/2017 12:14 pm

ICSAB-1

Acquire Date: 03-Nov-2017 10:42 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
V_	434.10	ppb	3.56	.81985
Zn	872.32	ppb	9.03	1.0348
Zr	<.00000	ppb	2.6920	87.530

CCV-1

Acquire Date: 03-Nov-2017 10:51 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	1956.8	ppb	4.9	.24865
Ag	507.26	ppb	.33	.06573
Al	2008.2	ppb	29.4	1.4618
As	1991.1	ppb	8.4	.42027
Au	13.507	ppb	.113	.83710
B_	2060.3	ppb	14.1	.68639
Ba	2111.8	ppb	11.3	.53281
Be	2045.7	ppb	2.0	.10021
Ca	2090.5	ppb	5.2	.24652
Cd	2088.7	ppb	11.3	.54023
Co	2014.8	ppb	13.2	.65284
Cr	1979.3	ppb	15.7	.79103
Cu	2085.3	ppb	3.9	.18559
Fe	2073.5	ppb	3.2	.15543
K_	9731.7	ppb	23.1	.23733
Li	2008.0	ppb	49.6	2.4685
Mg	2004.1	ppb	.3	.01343
Mn	1973.0	ppb	10.4	.52904
Mo	2013.6	ppb	8.3	.41045
Na	1831.8	ppb	3.2	.17674
Ni	2148.4	ppb	15.0	.69855
Pb	2128.8	ppb	14.6	.68455
Pd	<.00000	ppb	.437	1.7014
Sb	1973.3	ppb	9.8	.49421
Se	1981.0	ppb	13.3	.67210
Si	4882.1	ppb	30.5	.62546
Sn	1996.3	ppb	17.0	.85298
Sr	2080.7	ppb	5.3	.25312
Ti	<.00000	ppb	1.3081	62.143
Tl	2077.2	ppb	13.1	.62931
V_	1951.1	ppb	14.4	.73935
Zn	2131.2	ppb	11.9	.55823

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 11/6/2017 12:14 pm

CCV-1

Acquire Date: 03-Nov-2017 10:51 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Zr	1.2711	ppb	.7570	59.556

CCB-1

Acquire Date: 03-Nov-2017 10:58 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	<.00000	ppb	1.85748	189.04
Ag	2.1369	ppb	5.9069	276.43
Al	<.00000	ppb	7.308	26.780
As	.61132	ppb	.95432	156.11
Au	.41601	ppb	.37844	90.968
B_	3.6956	ppb	1.3233	35.808
Ba	<.00000	ppb	.9377	83.358
Be	<.00000	ppb	.00015	.05107
Ca	2.7050	ppb	4.3242	159.86
Cd	.04258	ppb	.05043	118.45
Co	<.00000	ppb	.00882	10.881
Cr	<.00000	ppb	4.1336	76.646
Cu	1.3724	ppb	.1627	11.858
Fe	<.00000	ppb	.05393	8.3324
K_	11.980	ppb	6.237	52.058
Li	20.294	ppb	67.903	334.59
Mg	<.00000	ppb	20.2845	1,084.4
Mn	<.00000	ppb	.02178	141.48
Mo	.18862	ppb	.15414	81.720
Na	<.00000	ppb	4.516	37.964
Ni	.28395	ppb	.11016	38.795
Pb	.95354	ppb	.35422	37.149
Pd	.31344	ppb	13.28053	4,237.0
Sb	<.00000	ppb	.26560	1,307.0
Se	.10131	ppb	1.41522	1,397.0
Si	9.3626	ppb	10.0175	107.00
Sn	.30442	ppb	.00002	.00670
Sr	<.00000	ppb	2.1712	81.989
Ti	2.1056	ppb	.8508	40.406
Tl	<.00000	ppb	1.7579	104.26
V_	<.00000	ppb	.76253	103.01
Zn	<.00000	ppb	.01592	30.543
Zr	<.00000	ppb	.4136	40.351

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 11/6/2017 12:14 pm

MB-57238

Acquire Date: 03-Nov-2017 11:06 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	2024.8	ppb	15.9	.78351
Ag	499.86	ppb	3.57	.71494
Al	2017.1	ppb	43.6	2.1635
As	1858.7	ppb	21.5	1.1567
Au	12.972	ppb	1.136	8.7584
B_	1919.3	ppb	16.3	.84825
Ba	2039.0	ppb	15.2	.74595
Be	2025.0	ppb	20.3	1.0047
Ca	2089.3	ppb	18.3	.87610
Cd	1944.3	ppb	17.0	.87300
Co	1893.9	ppb	20.5	1.0849
Cr	1961.2	ppb	17.2	.87713
Cu	2128.0	ppb	21.9	1.0292
Fe	1974.9	ppb	19.4	.98424
K_	9915.4	ppb	85.6	.86365
Li	2019.5	ppb	95.5	4.7293
Mg	1935.0	ppb	2.9	.15236
Mn	1915.5	ppb	17.4	.90794
Mo	1982.7	ppb	18.3	.92312
Na	1903.9	ppb	15.7	.82607
Ni	2041.1	ppb	22.7	1.1138
Pb	1999.9	ppb	22.4	1.1212
Pd	<.00000	ppb	13.281	25.104
Sb	1854.1	ppb	19.0	1.0267
Se	2057.0	ppb	21.2	1.0293
Si	9763.2	ppb	127.6	1.3068
Sn	1885.0	ppb	22.1	1.1735
Sr	2012.0	ppb	19.3	.96144
Ti	<.00000	ppb	.98171	202.00
Tl	1894.7	ppb	24.0	1.2667
V_	1929.6	ppb	16.0	.83078
Zn	1961.7	ppb	18.3	.93232
Zr	1.8791	ppb	.3798	20.212

LCS-57238

Acquire Date: 03-Nov-2017 11:06 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD

Color Legend: Pass/Unchecked Internal Standard Check Fail Check Warn

Sample Report

Printed: 11/6/2017 12:14 pm

LCS-57238

Acquire Date: 03-Nov-2017 11:06 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	2024.8	ppb	15.9	.78351
Ag	499.86	ppb	3.57	.71494
Al	2017.1	ppb	43.6	2.1635
As	1858.7	ppb	21.5	1.1567
Au	12.972	ppb	1.136	8.7584
B_	1919.3	ppb	16.3	.84825
Ba	2039.0	ppb	15.2	.74595
Be	2025.0	ppb	20.3	1.0047
Ca	2089.3	ppb	18.3	.87610
Cd	1944.3	ppb	17.0	.87300
Co	1893.9	ppb	20.5	1.0849
Cr	1961.2	ppb	17.2	.87713
Cu	2128.0	ppb	21.9	1.0292
Fe	1974.9	ppb	19.4	.98424
K_	9915.4	ppb	85.6	.86365
Li	2019.5	ppb	95.5	4.7293
Mg	1935.0	ppb	2.9	.15236
Mn	1915.5	ppb	17.4	.90794
Mo	1982.7	ppb	18.3	.92312
Na	1903.9	ppb	15.7	.82607
Ni	2041.1	ppb	22.7	1.1138
Pb	1999.9	ppb	22.4	1.1212
Pd	<.00000	ppb	13.281	25.104
Sb	1854.1	ppb	19.0	1.0267
Se	2057.0	ppb	21.2	1.0293
Si	9763.2	ppb	127.6	1.3068
Sn	1885.0	ppb	22.1	1.1735
Sr	2012.0	ppb	19.3	.96144
Ti	<.00000	ppb	.98171	202.00
Tl	1894.7	ppb	24.0	1.2667
V_	1929.6	ppb	16.0	.83078
Zn	1961.7	ppb	18.3	.93232
Zr	1.8791	ppb	.3798	20.212

171005087-001B

Acquire Date: 03-Nov-2017 11:11 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	90740.	ppb	282	.31057
Ag	1.6033	ppb	2.8163	175.65

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 11/6/2017 12:14 pm

171005087-001B

Acquire Date: 03-Nov-2017 11:11 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Al	<.00000	ppb	17.51	5.4229
As	4.0945	ppb	1.8052	44.089
Au	<.00000	ppb	.1327	3.2814
B_	18089.	ppb	146	.80857
Ba	128.54	ppb	.33	.25953
Be	<.00000	ppb	.00185	.91039
Ca	98173.	ppb	307	.31239
Cd	<.00000	ppb	.01789	19.690
Co	.52507	ppb	.13884	26.443
Cr	<.00000	ppb	3.8784	72.856
Cu	3.2877	ppb	2.7538	83.760
Fe	145.75	ppb	.55	.37723
K_	2174.4	ppb	1.6	.07471
Li	<.00000	ppb	59.62	9.1725
Mg	32302.	ppb	218	.67344
Mn	4.6790	ppb	.0350	.74826
Mo	1.5258	ppb	.1008	6.6082
Na	79185.	ppb	527	.66582
Ni	.42558	ppb	.06030	14.170
Pb	1.0146	ppb	.0281	2.7733
Pd	5.3230	ppb	30.1013	565.49
Sb	<.00000	ppb	.50164	273.13
Se	<.00000	ppb	.2289	3.6937
Si	9165.3	ppb	28.8	.31460
Sn	.63799	ppb	.22557	35.356
Sr	418.52	ppb	1.04	.24958
Ti	<.00000	ppb	.8509	72.118
Tl	<.00000	ppb	.99	.91366
V_	.92959	ppb	1.57271	169.18
Zn	5.3599	ppb	.0114	.21222
Zr	.56258	ppb	.58765	104.46

171005087-002B

Acquire Date: 03-Nov-2017 11:14 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	81964.	ppb	942	1.1492
Ag	3.2025	ppb	.2706	8.4489
Al	<.00000	ppb	9.36	3.0234
As	5.1789	ppb	.0388	.74874

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 11/6/2017 12:14 pm

171005087-002B

Acquire Date: 03-Nov-2017 11:14 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Au	<.00000	ppb	.3218	18.203
B_	13042.	ppb	77	.58800
Ba	132.14	ppb	1.10	.83250
Be	<.00000	ppb	.07237	23.687
Ca	111660.	ppb	1,229	1.1010
Cd	.01954	ppb	.00813	41.632
Co	.70105	ppb	.01762	2.5128
Cr	3.1048	ppb	.5171	16.653
Cu	4.3310	ppb	5.4810	126.55
Fe	1964.9	ppb	23.9	1.2160
K_	2521.4	ppb	32.0	1.2673
Li	<.00000	ppb	2.22	.28281
Mg	40648.	ppb	223	.54968
Mn	80.081	ppb	.090	.11194
Mo	.31019	ppb	.24303	78.348
Na	72643.	ppb	173	.23808
Ni	.87251	ppb	.20952	24.014
Pb	2.2725	ppb	.2737	12.046
Pd	<.00000	ppb	26.1199	521.57
Sb	.00367	ppb	.35396	9,644.8
Se	<.00000	ppb	2.1297	39.459
Si	9090.1	ppb	160.4	1.7650
Sn	<.00000	ppb	.57414	1,321.7
Sr	501.06	ppb	19.52	3.8950
Ti	<.00000	ppb	1.0125	43.735
Tl	<.00000	ppb	2.383	3.7437
V_	.15193	ppb	2.48225	1,633.8
Zn	12.437	ppb	.132	1.0593
Zr	2.4110	ppb	1.8377	76.221

171005087-002BDP

Acquire Date: 03-Nov-2017 11:20 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	81955.	ppb	12	.01515
Ag	2.4873	ppb	3.3518	134.76
Al	<.00000	ppb	6.11	2.0442
As	5.7990	ppb	1.3024	22.459
Au	<.00000	ppb	.3408	17.796
B_	13222.	ppb	47	.35284

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 11/6/2017 12:14 pm

171005087-002BDP

Acquire Date: 03-Nov-2017 11:20 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Ba	130.78	ppb	2.21	1.6885
Be	<.00000	ppb	.07834	54.959
Ca	112250.	ppb	84	.07495
Cd	.06784	ppb	.11872	175.01
Co	.77584	ppb	.06169	7.9514
Cr	2.9247	ppb	1.1130	38.055
Cu	6.4903	ppb	2.3081	35.562
Fe	1970.8	ppb	3.8	.19090
K_	2502.8	ppb	13.3	.53076
Li	<.00000	ppb	9.03	1.0656
Mg	41207.	ppb	65	.15674
Mn	80.540	ppb	.070	.08637
Mo	.34372	ppb	.02964	8.6227
Na	73168.	ppb	102	.13919
Ni	.94782	ppb	.19532	20.607
Pb	1.6786	ppb	.5511	32.832
Pd	5.6255	ppb	26.1016	463.99
Sb	<.00000	ppb	1.12052	388.57
Se	<.00000	ppb	.6432	8.6699
Si	9090.1	ppb	4.4	.04823
Sn	.81200	ppb	.10252	12.626
Sr	505.85	ppb	13.52	2.6737
Ti	<.00000	ppb	1.9350	57.347
Tl	<.00000	ppb	.447	.71461
V_	2.1084	ppb	.7632	36.199
Zn	11.654	ppb	.065	.56022
Zr	1.1609	ppb	1.7077	147.10

171005087-002BMS

Acquire Date: 03-Nov-2017 11:46 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	81611.	ppb	705	.86409
Ag	52.015	ppb	1.309	2.5156
Al	1861.7	ppb	17.7	.94967
As	43.339	ppb	1.573	3.6301
Au	1.8069	ppb	.8330	46.103
B_	13150.	ppb	29	.21696
Ba	2229.5	ppb	1.4	.06344
Be	52.754	ppb	.435	.82472

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 11/6/2017 12:14 pm

171005087-002BMS

Acquire Date: 03-Nov-2017 11:46 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Ca	111590.	ppb	711	.63744
Cd	49.862	ppb	.007	.01310
Co	455.31	ppb	1.22	.26852
Cr	218.43	ppb	14.54	6.6583
Cu	273.18	ppb	4.86	1.7784
Fe	2896.2	ppb	.2	.00791
K_	2484.4	ppb	17.7	.71324
Li	<.00000	ppb	62.20	8.0941
Mg	41034.	ppb	347	.84624
Mn	548.04	ppb	.11	.01924
Mo	.62035	ppb	.11262	18.155
Na	72873.	ppb	611	.83801
Ni	477.77	ppb	1.47	.30695
Pb	19.589	ppb	1.427	7.2844
Pd	<.00000	ppb	3.5115	75.133
Sb	474.51	ppb	2.09	.44115
Se	3.4766	ppb	.1572	4.5224
Si	9104.7	ppb	115.7	1.2710
Sn	<.00000	ppb	.51262	196.45
Sr	498.74	ppb	1.42	.28447
Ti	<.00000	ppb	3.0480	86.756
Tl	<.00000	ppb	.834	2.2956
V_	501.72	ppb	8.18	1.6304
Zn	521.51	ppb	1.58	.30344
Zr	3.4335	ppb	2.3253	67.726

171005087-002BA

Acquire Date: 03-Nov-2017 11:51 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	80750.	ppb	113	.14011
Ag	102.71	ppb	.76	.73729
Al	4092.8	ppb	10.9	.26712
As	81.918	ppb	.890	1.0863
Au	4.8859	ppb	.1893	3.8753
B_	12826.	ppb	22	.17041
Ba	4407.0	ppb	16.5	.37382
Be	109.15	ppb	.52	.47760
Ca	110340.	ppb	419	.37983
Cd	102.00	ppb	.37	.35892

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 11/6/2017 12:14 pm

171005087-002BA

Acquire Date: 03-Nov-2017 11:51 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Co	937.71	ppb	4.41	.46991
Cr	448.26	ppb	10.12	2.2576
Cu	554.97	ppb	2.11	.38095
Fe	3833.7	ppb	26.4	.68910
K_	2455.9	ppb	20.5	.83359
Li	<.00000	ppb	54.66	8.3431
Mg	40012.	ppb	28	.07014
Mn	1031.7	ppb	1.9	.18576
Mo	1.6053	ppb	.0830	5.1692
Na	71701.	ppb	386	.53901
Ni	990.60	ppb	5.00	.50455
Pb	40.053	ppb	.593	1.4811
Pd	<.00000	ppb	14.1655	348.17
Sb	962.72	ppb	3.22	.33403
Se	15.969	ppb	1.444	9.0402
Si	9166.5	ppb	40.4	.44077
Sn	.73950	ppb	.49212	66.547
Sr	494.13	ppb	5.82	1.1780
Ti	<.00000	ppb	.2289	6.9686
Tl	<.00000	ppb	.2384	9.6713
V_	1025.6	ppb	4.1	.40263
Zn	1053.5	ppb	4.0	.37684
Zr	1.7094	ppb	1.4501	84.827

171005087-002BL

Acquire Date: 03-Nov-2017 11:58 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	14318.	ppb	51	.35507
Ag	4.4200	ppb	1.4419	32.623
Al	<.00000	ppb	1.98	1.0182
As	4.8780	ppb	.3096	6.3466
Au	<.00000	ppb	.15156	41.869
B_	2678.8	ppb	24.3	.90557
Ba	25.443	ppb	.183	.71801
Be	<.00000	ppb	.05857	17.916
Ca	23053.	ppb	73	.31649
Cd	<.00000	ppb	.06668	186.99
Co	.17292	ppb	.04186	24.207
Cr	<.00000	ppb	2.6798	44.640

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 11/6/2017 12:14 pm

171005087-002BL

Acquire Date: 03-Nov-2017 11:58 am

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Cu	.19434	ppb	2.37416	1,221.7
Fe	401.77	ppb	4.96	1.2338
K_	389.15	ppb	.19	.04877
Li	<.00000	ppb	57.65	25.607
Mg	7827.4	ppb	27.0	.34441
Mn	16.650	ppb	.201	1.2048
Mo	<.00000	ppb	.02370	10.283
Na	14031.	ppb	12	.08771
Ni	.77166	ppb	.02486	3.2211
Pb	3.9496	ppb	1.2378	31.340
Pd	<.00000	ppb	1.3272	23.559
Sb	<.00000	ppb	.11796	299.10
Se	<.00000	ppb	.0286	.79623
Si	1872.5	ppb	19.3	1.0282
Sn	<.00000	ppb	.10251	117.91
Sr	96.150	ppb	10.841	11.275
Ti	<.00000	ppb	.6215	53.734
Tl	<.00000	ppb	1.937	17.545
V_	3.3164	ppb	6.4856	195.56
Zn	2.8660	ppb	.0282	.98502
Zr	1.8805	ppb	.5875	31.241

CCV-2

Acquire Date: 03-Nov-2017 12:19 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	1972.5	ppb	9.2	.46479
Ag	504.68	ppb	.32	.06246
Al	2012.6	ppb	4.0	.20085
As	1997.5	ppb	9.0	.44892
Au	14.966	ppb	.170	1.1362
B_	2077.3	ppb	.0	.00001
Ba	2106.8	ppb	9.6	.45621
Be	2035.1	ppb	4.7	.23062
Ca	2089.1	ppb	18.6	.89142
Cd	2095.7	ppb	11.8	.56113
Co	2012.0	ppb	16.6	.82473
Cr	1967.5	ppb	3.7	.18572
Cu	2076.7	ppb	15.7	.75505
Fe	2061.1	ppb	16.2	.78591

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 11/6/2017 12:14 pm

CCV-2

Acquire Date: 03-Nov-2017 12:19 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
K_	9702.5	ppb	36.6	.37672
Li	1971.3	ppb	63.8	3.2371
Mg	1985.1	ppb	4.5	.22871
Mn	1987.2	ppb	7.3	.36821
Mo	2016.6	ppb	13.0	.64313
Na	1838.1	ppb	6.2	.33767
Ni	2141.3	ppb	17.2	.80240
Pb	2128.9	ppb	16.4	.77169
Pd	<.00000	ppb	2.660	7.0235
Sb	1979.4	ppb	5.7	.28760
Se	1977.0	ppb	11.3	.57197
Si	4864.8	ppb	54.7	1.1247
Sn	1997.7	ppb	13.7	.68514
Sr	2066.4	ppb	12.2	.58880
Ti	<.00000	ppb	.7529	33.206
Tl	2096.8	ppb	2.6	.12518
V_	1950.4	ppb	10.4	.53461
Zn	2127.6	ppb	13.9	.65355
Zr	1.3429	ppb	1.6236	120.90

CCB-2

Acquire Date: 03-Nov-2017 12:23 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	13.001	ppb	.818	6.2906
Ag	1.0143	ppb	1.1755	115.89
Al	<.00000	ppb	24.805	106.13
As	.41071	ppb	.59342	144.49
Au	.49636	ppb	.11401	22.970
B_	7.0857	ppb	.7845	11.071
Ba	<.00000	ppb	.30732	92.414
Be	<.00000	ppb	.09922	31.349
Ca	<.00000	ppb	8.65522	1,045.4
Cd	.10469	ppb	.01465	13.997
Co	<.00000	ppb	.08595	43.432
Cr	<.00000	ppb	1.7781	30.547
Cu	.51162	ppb	.94876	185.44
Fe	<.00000	ppb	.15452	19.347
K_	5.6920	ppb	3.2683	57.419
Li	<.00000	ppb	53.577	248.71

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 11/6/2017 12:14 pm

CCB-2

Acquire Date: 03-Nov-2017 12:23 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Mg	<.00000	ppb	2.367	9.1779
Mn	<.00000	ppb	.00109	3.2865
Mo	.13832	ppb	.14228	102.87
Na	6.8301	ppb	1.2903	18.892
Ni	.08047	ppb	.09938	123.50
Pb	.29778	ppb	.33670	113.07
Pd	20.352	ppb	1.778	8.7345
Sb	<.00000	ppb	.44266	426.40
Se	<.00000	ppb	.1430	10.180
Si	5.3189	ppb	20.1018	377.93
Sn	.24642	ppb	.08200	33.279
Sr	<.00000	ppb	2.6800	97.749
Ti	.23071	ppb	.42445	183.98
Tl	1.5798	ppb	.0001	.00779
V_	<.00000	ppb	3.4781	100.13
Zn	<.00000	ppb	.01428	12.363
Zr	1.6280	ppb	.1831	11.250

CCV-3

Acquire Date: 03-Nov-2017 1:20 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	2141.4	ppb	7.5	.35224
Ag	514.75	ppb	2.36	.45845
Al	2071.6	ppb	14.9	.72116
As	2108.3	ppb	2.6	.12562
Au	19.933	ppb	.417	2.0907
B_	1943.9	ppb	3.2	.16719
Ba	2068.3	ppb	4.9	.23685
Be	2194.6	ppb	5.0	.22976
Ca	2058.3	ppb	1.3	.06281
Cd	2125.1	ppb	4.5	.21211
Co	1879.3	ppb	2.0	.10697
Cr	1931.7	ppb	7.5	.38653
Cu	2060.8	ppb	1.2	.06039
Fe	2002.8	ppb	3.0	.14898
K_	10034.	ppb	41	.40719
Li	2039.9	ppb	49.7	2.4361
Mg	2063.8	ppb	17.8	.86388
Mn	2153.8	ppb	6.0	.28073

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 11/6/2017 12:14 pm

CCV-3

Acquire Date: 03-Nov-2017 1:20 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Mo	2171.3	ppb	6.6	.30219
Na	1935.4	ppb	5.4	.27845
Ni	1907.7	ppb	3.4	.17623
Pb	1922.0	ppb	3.8	.19901
Pd	<.00000	ppb	7.965	17.079
Sb	2106.2	ppb	3.7	.17587
Se	2132.6	ppb	1.6	.07355
Si	4970.3	ppb	10.7	.21558
Sn	1918.8	ppb	8.0	.41638
Sr	2028.1	ppb	13.8	.68260
Ti	<.00000	ppb	4.02438	414.27
Tl	1921.3	ppb	3.5	.18460
V_	2082.1	ppb	4.2	.20352
Zn	2038.7	ppb	1.5	.07194
Zr	3.1745	ppb	.6219	19.592

CCB-3

Acquire Date: 03-Nov-2017 1:24 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	42.078	ppb	1.563	3.7140
Ag	<.00000	ppb	4.05133	8,415.2
Al	<.00000	ppb	12.8450	262.44
As	.38305	ppb	.01255	3.2763
Au	2.3833	ppb	.0202	.84845
B_	6.7948	ppb	1.8333	26.981
Ba	6.0860	ppb	1.0036	16.490
Be	<.00000	ppb	.05742	18.021
Ca	1.2213	ppb	.6396	52.369
Cd	.10466	ppb	.06015	57.470
Co	<.00000	ppb	.00238	1.2130
Cr	<.00000	ppb	12.29715	1,336.8
Cu	<.00000	ppb	1.9227	75.129
Fe	<.00000	ppb	.09046	13.308
K_	3.7124	ppb	9.6137	258.96
Li	<.00000	ppb	64.54	39.673
Mg	4.9883	ppb	11.7580	235.71
Mn	<.00000	ppb	.01234	18.497
Mo	.17603	ppb	.42090	239.12
Na	<.00000	ppb	55.956	442.05

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 11/6/2017 12:14 pm

CCB-3

Acquire Date: 03-Nov-2017 1:24 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Ni	.45811	ppb	.16641	36.325
Pb	.56018	ppb	.23946	42.747
Pd	<.00000	ppb	13.7248	313.16
Sb	.54231	ppb	.35403	65.282
Se	1.3646	ppb	1.1441	83.841
Si	<.00000	ppb	17.1254	974.01
Sn	<.00000	ppb	.54094	970.08
Sr	<.00000	ppb	14.151	64.645
Ti	.92564	ppb	2.12687	229.77
Tl	<.00000	ppb	2.43516	327.93
V_	3.2038	ppb	3.4805	108.64
Zn	<.00000	ppb	.01882	23.921
Zr	.95236	ppb	.03339	3.5063

CCV-4

Acquire Date: 03-Nov-2017 2:20 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	2026.9	ppb	1.4	.06929
Ag	515.06	ppb	.17	.03237
Al	2088.4	ppb	17.5	.83640
As	1912.0	ppb	3.6	.18651
Au	20.801	ppb	.568	2.7322
B_	1958.4	ppb	4.6	.23643
Ba	2065.1	ppb	27.3	1.3242
Be	2045.2	ppb	9.5	.46560
Ca	1924.0	ppb	13.1	.68321
Cd	2120.0	ppb	2.3	.10772
Co	2182.6	ppb	1.8	.08177
Cr	1894.1	ppb	16.9	.88993
Cu	2009.7	ppb	13.6	.67842
Fe	2000.5	ppb	1.3	.06277
K_	10281.	ppb	32	.30943
Li	2026.9	ppb	56.8	2.7999
Mg	2053.5	ppb	20.0	.97454
Mn	2138.0	ppb	1.9	.08801
Mo	2173.7	ppb	4.2	.19340
Na	1994.9	ppb	7.3	.36508
Ni	1907.4	ppb	1.0	.05493
Pb	1914.4	ppb	.4	.02153

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 11/6/2017 12:14 pm

CCV-4

Acquire Date: 03-Nov-2017 2:20 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Pd	<.00000	ppb	6.659	18.985
Sb	2129.2	ppb	1.2	.05719
Se	2165.2	ppb	3.6	.16764
Si	4985.8	ppb	73.6	1.4772
Sn	1954.2	ppb	4.3	.22052
Sr	2128.4	ppb	20.0	.93761
Ti	<.00000	ppb	.8484	25.938
Tl	2114.3	ppb	6.6	.31160
V_	2073.9	ppb	3.8	.18328
Zn	2063.1	ppb	4.1	.19890
Zr	.43670	ppb	2.13715	489.38

CCB-4

Acquire Date: 03-Nov-2017 2:24 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	41.834	ppb	2.260	5.4017
Ag	<.00000	ppb	.3454	6.9430
Al	<.00000	ppb	1.9561	21.308
As	<.00000	ppb	1.73340	1,189.0
Au	3.9105	ppb	.0379	.97024
B_	4.9055	ppb	1.8470	37.651
Ba	9.6424	ppb	.8627	8.9473
Be	<.00000	ppb	.01748	6.7344
Ca	<.00000	ppb	.038	.35740
Cd	.03689	ppb	.06952	188.44
Co	.25990	ppb	.03824	14.715
Cr	<.00000	ppb	2.9951	45.394
Cu	<.00000	ppb	1.899	9.8610
Fe	<.00000	ppb	.07093	11.244
K_	<.00000	ppb	9.69543	1,017.6
Li	<.00000	ppb	59.53	25.281
Mg	15.067	ppb	17.276	114.66
Mn	.04351	ppb	.06049	139.02
Mo	<.00000	ppb	.29233	70.032
Na	<.00000	ppb	59.6321	1,098.9
Ni	.58484	ppb	.12592	21.530
Pb	1.6570	ppb	.0092	.55650
Pd	12.209	ppb	21.251	174.06
Sb	.92602	ppb	.26171	28.262

Color Legend: Pass/Unchecked Internal Standard Check Fail Check Warn

Sample Report

Printed: 11/6/2017 12:14 pm

CCB-4

Acquire Date: 03-Nov-2017 2:24 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Se	1.2147	ppb	.2862	23.566
Si	<.00000	ppb	23.517	100.00
Sn	<.00000	ppb	.44160	198.80
Sr	<.00000	ppb	8.3665	118.51
Ti	<.00000	ppb	1.17233	149.75
Tl	<.00000	ppb	1.7440	153.34
V_	<.00000	ppb	2.7948	136.90
Zn	.10512	ppb	.08468	80.556
Zr	<.00000	ppb	.4497	16.016

CCV-5

Acquire Date: 03-Nov-2017 3:13 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	2185.0	ppb	5.1	.23444
Ag	517.20	ppb	2.30	.44519
Al	2097.7	ppb	15.3	.73023
As	1949.9	ppb	.3	.01415
Au	22.702	ppb	.114	.50003
B_	1968.8	ppb	.3	.01722
Ba	2048.4	ppb	15.2	.74211
Be	2056.1	ppb	10.5	.51135
Ca	1987.0	ppb	5.9	.29480
Cd	2210.2	ppb	4.6	.20651
Co	1897.4	ppb	4.6	.24226
Cr	1896.3	ppb	10.5	.55373
Cu	1988.3	ppb	11.1	.55746
Fe	2029.7	ppb	1.9	.09195
K_	9626.7	ppb	7.9	.08214
Li	2033.7	ppb	55.1	2.7088
Mg	2054.8	ppb	12.5	.60761
Mn	2160.1	ppb	1.4	.06709
Mo	2181.4	ppb	.1	.00542
Na	2018.3	ppb	6.1	.30469
Ni	1954.0	ppb	5.2	.26865
Pb	1976.8	ppb	7.7	.39046
Pd	<.00000	ppb	10.179	26.656
Sb	2149.3	ppb	1.0	.04712
Se	1891.0	ppb	5.9	.31000
Si	5010.6	ppb	6.3	.12642

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 11/6/2017 12:14 pm

CCV-5

Acquire Date: 03-Nov-2017 3:13 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Sn	2027.7	ppb	4.6	.22679
Sr	2175.8	ppb	3.6	.16471
Ti	<.00000	ppb	.4561	13.207
Tl	2164.4	ppb	6.2	.28424
V_	2092.2	ppb	9.2	.44149
Zn	2086.5	ppb	5.4	.26111
Zr	<.00000	ppb	1.7949	94.339

CCB-5

Acquire Date: 03-Nov-2017 3:19 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	24.246	ppb	1.010	4.1665
Ag	<.00000	ppb	2.3456	145.73
Al	<.00000	ppb	19.774	124.04
As	<.00000	ppb	.15512	77.311
Au	5.1290	ppb	.0186	.36203
B_	1.9185	ppb	.6698	34.914
Ba	9.3967	ppb	.8393	8.9323
Be	<.00000	ppb	.01694	5.7944
Ca	<.00000	ppb	5.4891	89.057
Cd	<.00000	ppb	.00158	2.2062
Co	.06460	ppb	.04674	72.358
Cr	1.8178	ppb	5.4144	297.85
Cu	<.00000	ppb	.3223	3.7887
Fe	<.00000	ppb	.11920	17.894
K_	<.00000	ppb	3.9398	77.323
Li	<.00000	ppb	51.91	17.558
Mg	15.882	ppb	9.214	58.018
Mn	<.00000	ppb	.04336	103.76
Mo	<.00000	ppb	.12612	14.145
Na	<.00000	ppb	65.197	219.56
Ni	.43686	ppb	.14643	33.518
Pb	.88301	ppb	.49373	55.915
Pd	<.00000	ppb	22.579	212.14
Sb	<.00000	ppb	.4652	34.286
Se	<.00000	ppb	.65840	1,641.8
Si	<.00000	ppb	15.120	42.041
Sn	<.00000	ppb	.00914	.99455
Sr	<.00000	ppb	2.1493	54.186

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 11/6/2017 12:14 pm

CCB-5

Acquire Date: 03-Nov-2017 3:19 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Ti	<.00000	ppb	.7815	62.858
Tl	<.00000	ppb	.0820	3.0812
V_	<.00000	ppb	.0477	1.4936
Zn	.04640	ppb	.03324	71.635
Zr	<.00000	ppb	2.8323	89.222

CCV-6

Acquire Date: 03-Nov-2017 4:06 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	2008.3	ppb	7.7	.38200
Ag	511.48	ppb	2.06	.40289
Al	2082.0	ppb	12.4	.59633
As	1896.4	ppb	14.8	.78119
Au	21.054	ppb	.928	4.4086
B_	1940.6	ppb	5.0	.25772
Ba	2009.3	ppb	29.3	1.4602
Be	2022.0	ppb	13.9	.68872
Ca	1969.9	ppb	13.3	.67759
Cd	2180.8	ppb	2.5	.11250
Co	2133.3	ppb	2.4	.11188
Cr	1866.1	ppb	6.7	.35810
Cu	1959.4	ppb	11.0	.56184
Fe	2007.2	ppb	4.5	.22556
K_	10356.	ppb	57	.54797
Li	2056.4	ppb	74.8	3.6385
Mg	2010.7	ppb	9.6	.47502
Mn	2131.7	ppb	1.7	.07910
Mo	2193.7	ppb	5.6	.25599
Na	1994.5	ppb	10.3	.51563
Ni	1934.1	ppb	4.6	.23602
Pb	1955.2	ppb	5.9	.29929
Pd	<.00000	ppb	19.929	39.789
Sb	2112.5	ppb	7.0	.33351
Se	2174.0	ppb	13.5	.61893
Si	4964.9	ppb	53.8	1.0841
Sn	2032.1	ppb	3.0	.14699
Sr	2158.7	ppb	26.3	1.2181
Ti	<.00000	ppb	.6844	15.729
Tl	2147.6	ppb	6.9	.32242

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

CCV-6

Acquire Date: 03-Nov-2017 4:06 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
V_	2052.1	ppb	23.2	1.1286
Zn	2040.6	ppb	3.4	.16896
Zr	<.00000	ppb	3.0026	178.35

CCB-6

Acquire Date: 03-Nov-2017 4:10 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	26.388	ppb	.674	2.5548
Ag	<.00000	ppb	1.2404	22.114
Al	<.00000	ppb	5.868	39.890
As	.98774	ppb	.62017	62.786
Au	4.6453	ppb	.2824	6.0788
B_	4.7688	ppb	2.1585	45.262
Ba	7.9690	ppb	.2073	2.6019
Be	<.00000	ppb	.13107	39.333
Ca	<.00000	ppb	6.2515	65.763
Cd	<.00000	ppb	.11534	198.59
Co	.12019	ppb	.27830	231.55
Cr	<.00000	ppb	1.8445	64.566
Cu	<.00000	ppb	3.156	31.013
Fe	<.00000	ppb	.23019	43.927
K_	<.00000	ppb	1.4018	47.819
Li	<.00000	ppb	58.29	19.538
Mg	.40712	ppb	18.42891	4,526.7
Mn	.06947	ppb	.11886	171.11
Mo	<.00000	ppb	.72784	171.07
Na	<.00000	ppb	60.824	122.90
Ni	.40620	ppb	.11412	28.095
Pb	.61639	ppb	.40617	65.894
Pd	<.00000	ppb	22.5801	901.46
Sb	<.00000	ppb	.34868	121.21
Se	.70833	ppb	.88763	125.31
Si	<.00000	ppb	14.335	96.548
Sn	<.00000	ppb	.12602	24.936
Sr	<.00000	ppb	.0772	1.2697
Ti	<.00000	ppb	.0980	6.7545
Tl	<.00000	ppb	.8455	41.397
V_	<.00000	ppb	1.0716	87.998
Zn	.15143	ppb	.14951	98.733

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 11/6/2017 12:14 pm

CCB-6

Acquire Date: 03-Nov-2017 4:10 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Zr	<.00000	ppb	.4126	13.204

CCV-7

Acquire Date: 03-Nov-2017 4:51 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	2172.4	ppb	1.2	.05400
Ag	502.98	ppb	4.13	.82101
Al	2050.4	ppb	16.8	.81799
As	2158.2	ppb	12.8	.59363
Au	18.672	ppb	.208	1.1138
B_	1891.3	ppb	8.6	.45301
Ba	1961.1	ppb	5.5	.28234
Be	1939.3	ppb	7.6	.38991
Ca	1924.6	ppb	6.7	.35059
Cd	2116.7	ppb	11.2	.52890
Co	2078.0	ppb	12.6	.60769
Cr	1820.5	ppb	7.2	.39279
Cu	1906.1	ppb	6.2	.32295
Fe	1968.2	ppb	10.6	.53948
K_	10142.	ppb	9	.08606
Li	2010.1	ppb	57.9	2.8784
Mg	1955.5	ppb	.5	.02751
Mn	2071.5	ppb	12.1	.58444
Mo	1988.6	ppb	18.1	.90823
Na	1910.2	ppb	2.7	.14152
Ni	1903.4	ppb	11.2	.58618
Pb	1916.0	ppb	13.0	.67872
Pd	<.00000	ppb	7.526	21.854
Sb	2060.7	ppb	11.6	.56403
Se	2113.5	ppb	13.7	.64873
Si	4917.8	ppb	26.3	.53483
Sn	2043.1	ppb	19.7	.96218
Sr	2105.3	ppb	.0	.00028
Ti	<.00000	ppb	1.2049	38.197
Tl	2136.5	ppb	18.4	.86046
V_	1980.7	ppb	10.1	.50986
Zn	1951.5	ppb	10.1	.51671
Zr	<.00000	ppb	1.2084	33.213

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 11/6/2017 12:14 pm

CCB-7

Acquire Date: 03-Nov-2017 4:54 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	18.264	ppb	.435	2.3815
Ag	<.00000	ppb	.8976	21.403
Al	<.00000	ppb	7.1696	262.96
As	<.00000	ppb	.0259	1.9694
Au	4.8867	ppb	.2079	4.2552
B_	4.1004	ppb	2.8032	68.365
Ba	7.9219	ppb	.3828	4.8321
Be	<.00000	ppb	.14305	31.280
Ca	<.00000	ppb	3.5827	64.940
Cd	.12624	ppb	.18010	142.66
Co	.17575	ppb	.37813	215.16
Cr	<.00000	ppb	6.28586	1,791.7
Cu	<.00000	ppb	.2010	14.123
Fe	<.00000	ppb	.33018	81.265
K_	<.00000	ppb	5.1823	382.72
Li	<.00000	ppb	40.29	12.592
Mg	10.588	ppb	.000	.00230
Mn	.14016	ppb	.29225	208.52
Mo	<.00000	ppb	.93420	1,002.3
Na	<.00000	ppb	63.543	95.913
Ni	.83958	ppb	.35251	41.986
Pb	.63317	ppb	.68279	107.84
Pd	<.00000	ppb	27.8911	891.04
Sb	.04131	ppb	.81427	1,971.3
Se	<.00000	ppb	.6153	26.100
Si	<.00000	ppb	1.787	6.6291
Sn	<.00000	ppb	.77841	474.12
Sr	9.9515	ppb	11.4079	114.63
Ti	<.00000	ppb	1.39994	869.74
Tl	<.00000	ppb	1.22601	176.73
V_	<.00000	ppb	3.0266	64.269
Zn	.21741	ppb	.28623	131.65
Zr	<.00000	ppb	1.6906	46.489

CRI-2

Acquire Date: 03-Nov-2017 5:07 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 11/6/2017 12:14 pm

CRI-2

Acquire Date: 03-Nov-2017 5:07 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	12.451	ppb	1.698	13.634
Ag	18.585	ppb	5.243	28.211
Al	<.00000	ppb	3.9111	95.169
As	19.674	ppb	.637	3.2394
Au	4.9941	ppb	.0964	1.9306
B_	3.6145	ppb	.8114	22.448
Ba	10.284	ppb	.346	3.3657
Be	9.4524	ppb	.0097	.10259
Ca	<.00000	ppb	1.9439	28.886
Cd	10.613	ppb	.060	.56610
Co	109.19	ppb	.14	.13086
Cr	20.052	ppb	3.106	15.492
Cu	50.392	ppb	.626	1.2416
Fe	1.6390	ppb	.0295	1.8021
K_	8.7258	ppb	1.7105	19.603
Li	<.00000	ppb	47.87	14.927
Mg	15.271	ppb	12.381	81.074
Mn	30.232	ppb	.059	.19541
Mo	<.00000	ppb	.32674	53.392
Na	<.00000	ppb	64.292	90.818
Ni	75.444	ppb	.054	.07153
Pb	6.5165	ppb	.0240	.36894
Pd	<.00000	ppb	4.8701	155.62
Sb	119.73	ppb	1.12	.93843
Se	9.6026	ppb	2.6169	27.252
Si	<.00000	ppb	9.456	29.213
Sn	<.00000	ppb	.18653	28.927
Sr	19.695	ppb	2.232	11.335
Ti	<.00000	ppb	.78149	99.846
Tl	19.787	ppb	.983	4.9696
V_	93.896	ppb	3.868	4.1198
Zn	39.328	ppb	.134	.34067
Zr	<.00000	ppb	.9674	29.140

ICSA-2

Acquire Date: 03-Nov-2017 5:10 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	54.579	ppb	1.717	3.1464
Ag	<.00000	ppb	8.425	16.593

Color Legend: Pass/Unchecked Internal Standard Check Fail Check Warn

Sample Report

Printed: 11/6/2017 12:14 pm

ICSA-2

Acquire Date: 03-Nov-2017 5:10 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Al	504380.	ppb	954	.18907
As	<.00000	ppb	3.20	1.7047
Au	175.87	ppb	.10	.05408
B_	<.00000	ppb	.63	.40327
Ba	10.401	ppb	.887	8.5245
Be	2.1453	ppb	.0429	1.9984
Ca	406050.	ppb	450	.11074
Cd	<.00000	ppb	.0017	.10227
Co	.83813	ppb	.17198	20.519
Cr	<.00000	ppb	3.808	23.792
Cu	<.00000	ppb	.668	2.5110
Fe	131220.	ppb	1,244	.94838
K_	<.00000	ppb	5.229	21.167
Li	<.00000	ppb	122.1	4.8398
Mg	490210.	ppb	482	.09825
Mn	<.00000	ppb	.0350	.50575
Mo	<.00000	ppb	.0739	1.2168
Na	<.00000	ppb	55.051	145.04
Ni	<.00000	ppb	.089	.50023
Pb	<.00000	ppb	.83	.72214
Pd	<.00000	ppb	25.227	98.295
Sb	<.00000	ppb	.5993	10.364
Se	<.00000	ppb	.024	.04647
Si	<.00000	ppb	26.762	66.699
Sn	<.00000	ppb	.0712	5.9614
Sr	15.061	ppb	8.718	57.885
Ti	<.00000	ppb	.198	1.4323
Tl	<.00000	ppb	2.2898	28.232
V_	<.00000	ppb	3.083	8.5515
Zn	<.00000	ppb	.263	1.5108
Zr	<.00000	ppb	2.8289	93.490

ICSAB-2

Acquire Date: 03-Nov-2017 5:14 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	61.583	ppb	1.009	1.6388
Ag	1022.3	ppb	5.5	.54175
Al	494610.	ppb	3,272	.66143
As	<.00000	ppb	4.88	2.5803

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 11/6/2017 12:14 pm

ICSAB-2

Acquire Date: 03-Nov-2017 5:14 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Au	180.54	ppb	1.62	.89965
B_	<.00000	ppb	2.27	1.4426
Ba	474.43	ppb	2.00	.42230
Be	475.93	ppb	2.13	.44752
Ca	397920.	ppb	2,060	.51757
Cd	977.43	ppb	3.03	.31001
Co	441.94	ppb	1.27	.28842
Cr	533.28	ppb	9.81	1.8390
Cu	482.61	ppb	2.59	.53673
Fe	129490.	ppb	1,924	1.4856
K_	<.00000	ppb	10.886	35.228
Li	<.00000	ppb	138.3	5.7235
Mg	476070.	ppb	1,547	.32502
Mn	470.84	ppb	2.76	.58638
Mo	<.00000	ppb	.1720	4.5638
Na	<.00000	ppb	65.615	191.38
Ni	936.50	ppb	3.55	.37923
Pb	822.70	ppb	3.52	.42782
Pd	<.00000	ppb	11.509	26.837
Sb	.89675	ppb	1.29706	144.64
Se	<.00000	ppb	1.072	2.1005
Si	<.00000	ppb	12.389	33.767
Sn	<.00000	ppb	.3490	26.490
Sr	16.690	ppb	4.711	28.226
Ti	<.00000	ppb	1.140	7.7970
Tl	<.00000	ppb	.518	3.1269
V_	444.64	ppb	2.28	.51269
Zn	835.35	ppb	3.39	.40621
Zr	<.00000	ppb	.1723	2.6231

CCV-8

Acquire Date: 03-Nov-2017 5:18 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	2171.6	ppb	10.3	.47311
Ag	500.12	ppb	.46	.09150
Al	2046.7	ppb	21.1	1.0315
As	2108.9	ppb	16.6	.78942
Au	18.659	ppb	.643	3.4487
B_	1892.7	ppb	14.8	.78416

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 11/6/2017 12:14 pm

CCV-8

Acquire Date: 03-Nov-2017 5:18 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Ba	1966.0	ppb	2.8	.14369
Be	1934.4	ppb	2.4	.12185
Ca	1917.7	ppb	11.9	.62107
Cd	2025.3	ppb	17.1	.84411
Co	2078.5	ppb	19.9	.95854
Cr	1811.5	ppb	10.0	.55414
Cu	1890.9	ppb	11.4	.60353
Fe	1983.3	ppb	32.9	1.6591
K_	10137.	ppb	6	.06128
Li	2003.8	ppb	42.2	2.1050
Mg	1954.1	ppb	15.7	.80445
Mn	2081.7	ppb	19.2	.92391
Mo	2001.9	ppb	23.9	1.1931
Na	1905.3	ppb	9.0	.47010
Ni	1902.9	ppb	19.4	1.0197
Pb	1919.3	ppb	24.0	1.2494
Pd	<.00000	ppb	7.078	13.069
Sb	2063.4	ppb	21.2	1.0251
Se	2107.4	ppb	24.0	1.1412
Si	4874.1	ppb	20.4	.41870
Sn	2052.2	ppb	28.7	1.3991
Sr	2115.2	ppb	12.1	.56993
Ti	<.00000	ppb	2.4424	78.579
Tl	2148.6	ppb	26.7	1.2432
V_	1972.3	ppb	6.0	.30280
Zn	1947.8	ppb	12.6	.64526
Zr	<.00000	ppb	.03329	10.522

CCB-8

Acquire Date: 03-Nov-2017 5:22 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	20.278	ppb	.926	4.5663
Ag	<.00000	ppb	.27550	43.497
Al	10.024	ppb	23.900	238.42
As	.96085	ppb	.89265	92.902
Au	4.9143	ppb	1.1926	24.267
B_	5.5237	ppb	3.8153	69.071
Ba	4.6658	ppb	1.7127	36.708
Be	.07517	ppb	.84213	1,120.4

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 11/6/2017 12:14 pm

CCB-8

Acquire Date: 03-Nov-2017 5:22 pm

Sample Type: Unknown

Correction Factor: 1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Ca	6.5026	ppb	33.2358	511.12
Cd	.45248	ppb	.58142	128.49
Co	.60841	ppb	.73082	120.12
Cr	<.00000	ppb	6.5503	77.285
Cu	<.00000	ppb	1.2631	68.196
Fe	<.00000	ppb	.53424	656.78
K_	11.768	ppb	6.325	53.744
Li	<.00000	ppb	35.34	9.7088
Mg	15.066	ppb	46.067	305.77
Mn	.42866	ppb	.61426	143.30
Mo	.34047	ppb	1.43292	420.86
Na	<.00000	ppb	54.101	69.970
Ni	.94532	ppb	.49250	52.099
Pb	.44806	ppb	.59440	132.66
Pd	6.8885	ppb	16.3795	237.78
Sb	.86397	ppb	.29045	33.618
Se	<.00000	ppb	2.8726	66.301
Si	<.00000	ppb	14.094	89.683
Sn	<.00000	ppb	1.08652	204.97
Sr	7.0706	ppb	3.0099	42.569
Ti	.20730	ppb	1.40012	675.41
Tl	.61618	ppb	1.22615	198.99
V_	<.00000	ppb	.2340	3.8395
Zn	.52489	ppb	.53734	102.37
Zr	<.00000	ppb	1.2423	106.13

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 11/6/2017 12:14 pm

Adirondack Environmental Services, Inc

PREP BATCH REPORT

Prep Start Date: **10/19/2017 10:37:3**

Prep End Date: **10/19/2017 12:38:3**

Comments: Temp:95 Start Time:1036 End Time:1152

Page:1 of 1

Prep Factor Units:

mL / mL

Prep Batch **57238** Prep Code: **3010CLP** Technician: **Ashlyn VanBuren**

Sample ID	Matrix	pH	ResCl	SampAmt	Sol Added	Fin Vol	factor	PrepStart	PrepEnd	ExPos	TareWt	CleanUp
MB-57238				50	0	50	1.000	10/19/2017	10/19/2017		0	
LCS-57238				50	0	50	1.000	10/19/2017	10/19/2017		0	
171005087-001B	Groundwater	1		50	0	50	1.000	10/19/2017	10/19/2017		0	
171005087-002B	Groundwater	1		50	0	50	1.000	10/19/2017	10/19/2017		0	
171005087-002BDP	Groundwater	1		50	0	50	1.000	10/19/2017	10/19/2017		0	
171005087-002BMS	Groundwater	1		50	0	50	1.000	10/19/2017	10/19/2017		0	

Number	Reagent Name	Solution ID	Solution Name	SampType	AmtAdd	units
4737	Nitric Acid	MSP-ICP SPIKE-	ICP Spike		0.5ml	
4778	Hydrochloric Acid	MWS-200.7-6-63	200.7-6		50ml	
4736	Hot Block Digestion Vessels - 50mL					