



LEGEND

- ⊗ MONITORING WELL
- PRAXAIR MONITORING WELL
- ⊗ DESTROYED MONITORING WELL
- ◆ INJECTION WELL



FIGURE 1
SITE MAP
WALDEN WATER FLOOD FACILITY
SENW & NESW SEC 2-T9N-R79W
JACKSON COUNTY, COLORADO

BONANZA CREEK ENERGY OPERATING COMPANY LLC

TABLE 1
GROUNDWATER SAMPLE ANALYTICAL DATA
WALDEN WATER FLOOD FACILITY
BONANZA CREEK ENERGY OPERATING COMPANY LLC

SAMPLE ID	SAMPLE DATE	DTW (feet bgs)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYLBENZENE (ug/L)	XYLENES (Total) (ug/L)
MW01	8/22/2012	9.03	810	1.3	400	840
	11/7/2012	10.30	810	<1.0	160	910
	2/28/2013	10.16	790	<1.0	210	570
	5/21/2013	8.96	620	<1.0	160	440
	8/13/2013	9.90	360	<1.0	150	240
	11/13/2013	9.62	200	<1.0	4.2	140
	2/24/2014	10.64	94	<1.0	<1.0	15
	5/8/2014	8.47	250	<1.0	46	140
	8/20/2014	8.16	150	<1.0	<1.0	53
	11/25/2014	8.21	280	<1.0	33	200
	2/19/2015	9.17	58	<1.0	23	68
	5/11/2015	8.89	330	<1.0	38	270
	8/26/2015	9.17	51	<1.0	31	41
MW02	8/22/2012	9.46	2,100	1.7	670	5,400
	11/7/2012	10.00	2,400	<1.0	700	5,400
	2/28/2013	10.15	3,200	<1.0	740	4,300
	5/21/2013	9.33	790	<1.0	150	960
	8/13/2013	10.09	650	<1.0	210	1,100
	11/13/2013	9.91	720	<1.0	66	960
	2/24/2014	10.76	310	<1.0	<1.0	47
	5/9/2014	8.65	170	<1.0	8.1	160
	8/20/2014	8.52	120	<1.0	<1.0	12
	11/25/2014	8.60	520	<1.0	65	290
	2/19/2015	Not Sampled - Could not access well				
	5/11/2015	9.20	800	<1.0	230	630
	8/26/2015	9.51	290	<1.0	93	380
MW03	8/22/2012	8.96	560	100	480	2,500
	11/7/2012	9.84	Product	Product	Product	Product
	2/28/2013	Frozen	-	-	-	-
	5/21/2013	Destroyed	-	-	-	-
MW03R*	8/13/2013	10.37	1,900	25	290	1,500
	11/13/2013	10.21	2,100	10	70	1,000
	2/24/2014	11.01	1,600	11	<1.0	210
	5/9/2014	8.89	1,700	130	360	1,500
	8/20/2014	8.91	2,100	3.5	1.6	1,500
	11/25/2014	8.99	1,900	4.2	180	2,100
	2/19/2015	10.33	2,200	7.0	180	750
	5/12/2015	10.08	1,800	10.0	350	1,300
	8/26/2015	10.48	1,700	<1.0	75	360

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SAMPLE ID	SAMPLE DATE	DTW (feet bgs)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYLBENZENE (ug/L)	XYLENES (Total) (ug/L)
MW04	8/22/2012	9.13	6.6	7.9	200	410
	11/7/2012	10.50	2.5	<1.0	62	60
	2/28/2013	9.85	4.1	<1.0	66	58
	5/21/2013	8.88	<1.0	<1.0	6.4	6.1
	8/13/2013	9.82	1.6	<1.0	19	13
	11/13/2013	9.57	1.9	<1.0	5.7	15
	2/24/2014	10.51	15	<1.0	22	40
	5/9/2014	8.27	3.6	<1.0	15	22
	8/20/2014	8.26	<1.0	<1.0	<1.0	<1.0
	11/25/2014	8.33	2.6	<1.0	4.4	22
	2/19/2015	8.81	2.6	<1.0	<1.0	<1.0
	5/12/2015	8.66	6.2	<1.0	14	30
	8/26/2015	9.04	1.5	1.1	2.4	2.4
MW05	8/22/2012	14.13	<1.0	<1.0	<1.0	2.2
	11/7/2012	8.00	<1.0	<1.0	<1.0	<1.0
	2/28/2013	10.18	<1.0	<1.0	<1.0	<1.0
	5/21/2013	9.40	<1.0	<1.0	<1.0	<1.0
	8/13/2013	10.16	<1.0	<1.0	<1.0	<1.0
	11/13/2013	9.92	<1.0	<1.0	<1.0	<1.0
	2/24/2014	10.69	<1.0	<1.0	<1.0	<1.0
	5/8/2014	8.77	<1.0	<1.0	<1.0	<1.0
	8/20/2014	8.48	<1.0	<1.0	<1.0	<1.0
	11/25/2014	8.55	<1.0	<1.0	<1.0	<1.0
	2/19/2015	9.53	<1.0	<1.0	<1.0	<1.0
	5/11/2015	9.34	<1.0	<1.0	<1.0	<1.0
	8/26/2015	9.58	<1.0	<1.0	<1.0	<1.0
MW06	8/22/2012	10.16	1,200	4.9	300	1,200
	11/7/2012	10.72	9.8	1.6	200	540
	2/28/2013	10.76	1,100	1.2	170	360
	5/21/2013	10.01	1,300	3.0	210	710
	8/13/2013	10.70	1,400	5.2	280	1,200
	11/13/2013	10.58	1,400	4.1	290	840
	2/24/2014	11.24	1,500	1.5	27	170
	5/8/2014	9.22	1,300	1.5	67	270
	8/20/2014	9.05	18	<1.0	<1.0	49
	11/25/2014	9.07	600	<1.0	6.0	210
	2/19/2015	10.96	1,000	3.4	160	600
	5/11/2015	10.69	1,700	4.8	290	1,300
	8/26/2015	11.05	2,300	4.0	230	1,000

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SAMPLE ID	SAMPLE DATE	DTW (feet bgs)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYLBENZENE (ug/L)	XYLENES (Total) (ug/L)
MW07	8/22/2012	9.74	1.5	1.2	4.6	33
	11/7/2012	9.90	2.0	<1.0	1.2	8.7
	2/28/2013	10.44	2.3	<1.0	<1.0	<1.0
	5/21/2013	9.77	2.8	<1.0	1.0	5.4
	8/13/2013	10.44	7.8	<1.0	1.1	2.3
	11/13/2013	10.46	2.7	<1.0	<1.0	<1.0
	2/24/2014	10.97	30	<1.0	1.4	34
	5/9/2014	8.87	100	5.4	31	120
	8/20/2014	8.94	11	<1.0	<1.0	10
	11/25/2014	9.01	55	5.8	14	99
	2/19/2015	10.57	110	24	47	290
	5/11/2015	10.19	110	32	66	410
	8/26/2015	10.70	41	8.8	24	140
MW08	8/22/2012	10.09	7,000	13,000	830	7,800
	11/7/2012	10.43	Product	Product	Product	Product
	2/28/2013	10.66	Product	Product	Product	Product
	5/21/2013	9.76	8,000	11,000	440	6,700
MW08R*	8/13/2013	10.50	6,700	8,600	520	4,900
	11/13/2013	10.58	7,700	9,300	680	6,200
	2/24/2014	NM	5,400	6,500	670	7,000
	5/9/2014	9.37	6,100	6,900	670	6,800
	8/20/2014	9.28	6,100	7,400	660	7,000
	11/25/2014	9.36	9,100	13,000	1,900	19,000
	2/19/2015	10.59	1,700	1,900	160	3,000
	5/12/2015	10.24	7,800	6,600	1,000	9,600
	8/26/2015	10.71	14,000	9,100	830	9,900
MW09	8/22/2012	9.47	1,400	1,700	200	1,700
	11/7/2012	11.41	4,100	4,600	430	3,500
	2/28/2013	10.01	7,200	6,700	680	5,100
	5/21/2013	9.09	5,100	5,000	440	3,900
	8/13/2013	9.96	720	470	67	360
	11/13/2013	9.87	1,100	530	<1.0	520
	2/24/2014	10.47	900	32	<1.0	84
	5/9/2014	8.28	920	85	23	280
	8/20/2014	8.48	1,700	120	14	1,500
	11/25/2014	8.57	2,100	72	50	620
	2/20/2015	9.85	13	<1.0	4.2	76
	5/12/2015	9.54	2,500	440	250	<1.0
	8/26/2015	10.09	4,300	13	170	1,300

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SAMPLE ID	SAMPLE DATE	DTW (feet bgs)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYLBENZENE (ug/L)	XYLENES (Total) (ug/L)
MW10	8/22/2012	7.88	100	<1.0	3.5	14
	11/7/2012	8.66	120	5.2	5.1	30
	2/28/2013	10.75	120	<1.0	2.0	<1.0
	5/21/2013	7.38	70	2.6	<1.0	3.0
	8/13/2013	8.18	19	<1.0	<1.0	<1.0
	11/13/2013	8.28	8.8	1.2	<1.0	<1.0
	2/24/2014	8.81	3.5	<1.0	<1.0	<1.0
	5/8/2014	6.54	3.2	1.1	<1.0	<1.0
	8/20/2014	6.79	<1.0	<1.0	<1.0	<1.0
	11/25/2014	7.08	2.9	6.4	4.0	51
	2/20/2015	7.35	<1.0	<1.0	<1.0	<1.0
	5/12/2015	7.00	<1.0	<1.0	<1.0	<1.0
	8/26/2015	7.71	1.6	<1.0	<1.0	<1.0
MW11	8/22/2012	14.18	<1.0	<1.0	<1.0	<1.0
	11/7/2012	9.75	<1.0	<1.0	<1.0	<1.0
	2/28/2013	6.87	10	<1.0	2.8	16
	5/21/2013	6.63	<1.0	<1.0	<1.0	<1.0
	8/13/2013	8.04	<1.0	<1.0	<1.0	<1.0
	11/13/2013	7.97	<1.0	<1.0	<1.0	<1.0
	2/24/2014	8.27	<1.0	<1.0	<1.0	<1.0
	5/8/2014	6.21	<1.0	<1.0	<1.0	<1.0
	8/20/2014	6.61	<1.0	<1.0	<1.0	<1.0
	11/25/2014	6.68	1.4	2.4	1.3	17
	2/20/2015	7.24	<1.0	<1.0	<1.0	<1.0
	5/12/2015	6.64	<1.0	<1.0	<1.0	<1.0
	8/26/2015	7.76	<1.0	<1.0	<1.0	<1.0
MW12	8/22/2012	Dry	Dry	Dry	Dry	Dry
	11/7/2012	7.42	<1.0	<1.0	<1.0	<1.0
	2/28/2013	7.52	<1.0	<1.0	<1.0	<1.0
	5/21/2013	6.62	<1.0	<1.0	<1.0	<1.0
	8/13/2013	9.02	<1.0	<1.0	<1.0	<1.0
	11/13/2013	9.01	<1.0	<1.0	<1.0	<1.0
	2/24/2014	9.25	<1.0	<1.0	<1.0	<1.0
	5/8/2014	7.21	<1.0	<1.0	<1.0	<1.0
	8/20/2014	7.67	<1.0	<1.0	<1.0	<1.0
	11/25/2014	7.58	<1.0	1.5	<1.0	6.0
	2/20/2015	7.87	<1.0	<1.0	<1.0	<1.0
	5/12/2015	7.47	<1.0	<1.0	<1.0	<1.0
	8/26/2015	8.37	<1.0	<1.0	<1.0	<1.0

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SAMPLE ID	SAMPLE DATE	DTW (feet bgs)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYLBENZENE (ug/L)	XYLENES (Total) (ug/L)
MW13	8/22/2012	Dry	Dry	Dry	Dry	Dry
	11/7/2012	9.01	<1.0	<1.0	<1.0	<1.0
	2/28/2013	9.27	<1.0	<1.0	<1.0	<1.0
	5/21/2013	7.86	<1.0	1.2	<1.0	<1.0
	8/13/2013	8.27	<1.0	<1.0	<1.0	<1.0
	11/13/2013	8.48	<1.0	<1.0	<1.0	<1.0
	2/24/2014	8.82	<1.0	<1.0	<1.0	<1.0
	5/8/2014	7.25	<1.0	<1.0	<1.0	<1.0
	8/20/2014	7.05	<1.0	<1.0	<1.0	<1.0
	11/25/2014	6.85	<1.0	1.1	<1.0	2.4
	2/20/2015	8.24	<1.0	<1.0	<1.0	<1.0
	5/12/2015	7.84	<1.0	<1.0	<1.0	<1.0
	8/26/2015	8.38	<1.0	<1.0	<1.0	<1.0
MW14	8/22/2012	Dry	Dry	Dry	Dry	Dry
	11/7/2012	10.12	1.1	<1.0	<1.0	<1.0
	2/28/2013	10.01	<1.0	<1.0	<1.0	<1.0
	5/21/2013	7.74	<1.0	<1.0	<1.0	<1.0
	8/13/2013	8.84	<1.0	<1.0	<1.0	<1.0
	11/13/2013	9.01	<1.0	<1.0	<1.0	<1.0
	2/24/2014	8.92	<1.0	<1.0	<1.0	<1.0
	5/8/2014	6.91	<1.0	<1.0	<1.0	<1.0
	8/20/2014	7.61	<1.0	<1.0	<1.0	<1.0
	11/25/2014	7.42	<1.0	<1.0	<1.0	<1.0
	2/20/2015	7.74	<1.0	<1.0	<1.0	<1.0
	5/12/2015	7.31	<1.0	<1.0	<1.0	<1.0
	8/26/2015	8.37	<1.0	<1.0	<1.0	<1.0
MW15	8/22/2012	10.51	4.7	<1.0	<1.0	<1.0
	11/7/2012	8.37	16	<1.0	<1.0	<1.0
	2/28/2013	9.04	19	<1.0	<1.0	<1.0
	5/21/2013	7.79	5.9	<1.0	<1.0	<1.0
	8/13/2013	9.09	3.9	<1.0	<1.0	<1.0
	11/13/2013	8.94	1.7	<1.0	<1.0	<1.0
	2/24/2014	9.38	1.1	<1.0	<1.0	<1.0
	5/8/2014	7.20	<1.0	<1.0	<1.0	<1.0
	8/20/2014	7.73	<1.0	<1.0	<1.0	<1.0
	11/25/2014	7.59	<1.0	<1.0	<1.0	<1.0
	2/20/2015	8.23	<1.0	<1.0	<1.0	<1.0
	5/12/2015	7.77	<1.0	<1.0	<1.0	<1.0
	8/26/2015	8.62	2.4	<1.0	<1.0	<1.0

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BONANZA CREEK ENERGY OPERATING COMPANY LLC

SAMPLE ID	SAMPLE DATE	DTW (feet bgs)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYLBENZENE (ug/L)	XYLENES (Total) (ug/L)
MW16	8/22/2012	8.67	<1.0	<1.0	<1.0	<1.0
	11/7/2012	9.16	2.9	<1.0	<1.0	<1.0
	2/28/2013	8.99	2.6	<1.0	<1.0	<1.0
	5/21/2013	7.87	2.1	<1.0	<1.0	<1.0
	8/13/2013	9.08	<1.0	<1.0	<1.0	<1.0
	11/13/2013	8.87	<1.0	<1.0	<1.0	<1.0
	2/24/2014	9.38	<1.0	<1.0	<1.0	<1.0
	5/8/2014	7.20	<1.0	<1.0	<1.0	<1.0
	8/21/2014	7.67	<1.0	<1.0	<1.0	<1.0
	11/24/2014	7.62	<1.0	<1.0	<1.0	<1.0
	2/20/2015	7.97	<1.0	<1.0	<1.0	<1.0
	5/12/2015	7.55	<1.0	<1.0	<1.0	<1.0
	8/26/2015	8.34	<1.0	<1.0	<1.0	<1.0
MW17	8/13/2013	11.62	<1.0	<1.0	<1.0	<1.0
	11/13/2013	11.66	<1.0	<1.0	<1.0	<1.0
	2/24/2014	12.09	<1.0	<1.0	<1.0	<1.0
	5/8/2014	10.20	<1.0	<1.0	<1.0	<1.0
	8/21/2014	9.90	<1.0	<1.0	<1.0	<1.0
	11/24/2014	9.52	<1.0	<1.0	<1.0	<1.0
	2/19/2015	11.66	6.8	1.4	<1.0	<1.0
	5/11/2015	14.42	<1.0	<1.0	<1.0	<1.0
	8/26/2015	11.75	<1.0	<1.0	<1.0	<1.0
MW18	8/13/2013	11.31	<1.0	<1.0	<1.0	<1.0
	11/13/2103	11.34	<1.0	<1.0	<1.0	<1.0
	2/24/2014	11.79	<1.0	<1.0	<1.0	<1.0
	5/8/2014	10.35	<1.0	<1.0	<1.0	<1.0
	8/21/2014	9.50	<1.0	<1.0	<1.0	<1.0
	11/24/2014	9.97	<1.0	<1.0	<1.0	<1.0
	2/19/2015	10.73	<1.0	<1.0	<1.0	<1.0
	5/11/2015	10.45	<1.0	<1.0	<1.0	<1.0
	8/26/2015	10.62	<1.0	<1.0	<1.0	<1.0
MW19	8/13/2013	10.09	1,900	41	470	1,500
	11/13/2013	10.06	2,100	11	420	1,400
	2/24/2014	10.63	1,200	5.7	77	350
	5/9/2014	8.48	1,100	5.0	180	550
	8/21/2014	8.58	1,500	320	380	2,600
	11/24/2014	8.63	1,300	360	500	2,500
	2/19/2015	9.16	740	170	570	1,800
	5/11/2015	8.87	630	260	590	1,800
	8/26/2015	9.35	5,600	580	9,600	29,000

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MW20	8/13/2013	8.43	<1.0	<1.0	<1.0	<1.0
	11/13/2013	8.48	<1.0	<1.0	<1.0	<1.0
	2/24/2014	9.04	<1.0	<1.0	<1.0	<1.0
	5/8/2014	6.66	<1.0	<1.0	<1.0	<1.0
	8/21/2014	6.96	<1.0	<1.0	<1.0	<1.0
	11/24/2014	7.08	<1.0	<1.0	<1.0	<1.0
	2/20/2015	7.53	4.0	<1.0	<1.0	<1.0
	5/12/2015	7.17	<1.0	<1.0	<1.0	<1.0
	8/26/2015	7.83	<1.0	<1.0	<1.0	<1.0
MW21	8/13/2013	9.31	520	<1.0	47	18
	11/13/2013	9.25	<1.0	<1.0	<1.0	<1.0
	2/24/2014	9.69	<1.0	<1.0	<1.0	<1.0
	5/9/2014	7.50	180	<1.0	4.7	6.9
	8/21/2014	8.02	200	7.4	1.1	32
	11/24/2014	8.32	<1.0	<1.0	<1.0	<1.0
	2/20/2015	9.25	<1.0	<1.0	<1.0	<1.0
	5/12/2015	8.79	760	<1.0	<1.0	<1.0
	8/26/2015	9.55	930	<1.0	10	3.6
MW22	8/27/2015	NM	<1.0	<1.0	3.3	7.4
	9/23/2015	10.15	<1.0	<1.0	<1.0	<1.0
MW23	8/27/2015	NM	150	190	26	56
	9/23/2015	9.93	170	170	26	61
MW24	8/27/2015	NM	<1.0	<1.0	<1.0	<1.0
	9/23/2015	9.10	<1.0	<1.0	<1.0	<1.0
COGCC Allowable Levels			5	560	700	1,400

Notes:

DTW - Depth to Water

bgs - below ground surface

µg/L - micrograms per liter

COGCC - Colorado Oil and Gas Conservation Commission

* - Denotes 2" diameter monitoring well

Results noted in bold exceed COGCC Table 910.1 allowable levels.

NM - Not Measured

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

September 03, 2015

Justin Solomon
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: Walden Water Flood Facility

Enclosed are the results of analyses for samples received by Summit Scientific on 08/28/15 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in dark ink, appearing to read "M. Clements", with a stylized flourish at the end.

Michelle Clements For Paul Shrewsbury
President



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility

Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	1508231-01	Water	08/26/15 08:30	08/28/15 15:00
MW02	1508231-02	Water	08/26/15 08:40	08/28/15 15:00
MW03R	1508231-03	Water	08/26/15 08:50	08/28/15 15:00
MW04	1508231-04	Water	08/26/15 09:00	08/28/15 15:00
MW05	1508231-05	Water	08/26/15 09:10	08/28/15 15:00
MW06	1508231-06	Water	08/26/15 09:20	08/28/15 15:00
MW07	1508231-07	Water	08/26/15 09:30	08/28/15 15:00
MW08R	1508231-08	Water	08/26/15 09:40	08/28/15 15:00
MW09	1508231-09	Water	08/26/15 09:50	08/28/15 15:00
MW10	1508231-10	Water	08/26/15 10:00	08/28/15 15:00
MW11	1508231-11	Water	08/26/15 10:10	08/28/15 15:00
MW12	1508231-12	Water	08/26/15 10:20	08/28/15 15:00
MW13	1508231-13	Water	08/26/15 10:30	08/28/15 15:00
MW14	1508231-14	Water	08/26/15 10:40	08/28/15 15:00
MW15	1508231-15	Water	08/26/15 10:50	08/28/15 15:00
MW16	1508231-16	Water	08/26/15 11:00	08/28/15 15:00
MW17	1508231-17	Water	08/26/15 11:10	08/28/15 15:00
MW18	1508231-18	Water	08/26/15 11:20	08/28/15 15:00
MW19	1508231-19	Water	08/26/15 11:30	08/28/15 15:00
MW20	1508231-20	Water	08/26/15 11:40	08/28/15 15:00
MW21	1508231-21	Water	08/26/15 11:50	08/28/15 15:00

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

Summit Scientific

S₂

1508231.1

741 Corporate Circle, Suite J&K ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933

Client: LTE Project Manager: Justin Solomon Page 1 of 3
Address: 4600 W 60th Ave E-Mail: JSolomon@LTEU.com
City/State/Zip: ARVADA CO 80003
Phone: 303-433-4780 Fax: _____
Sampler Name: RYAN CLEMENS Project Name: WALDEN WATER FLOOD FACILITY
Project Number: 034512007.01

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions
					HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	BTEX				
1	MW01	8/26/15	0830	3	X				X				X				
2	MW02		0840	3	X				X				X				
3	MW03R		0850	3	X		X		X				X				
4	MW04		0900	3	X				X				X			NO PRES	
5	MW05		0910	3	X				X				X				
6	MW06		0920	3	X				X				X				
7	MW07		0930	3	X				X				X				
8	MW08R		0940	3	X		X		X				X				
9	MW09		0950	3	X				X				X			NO PRES	
10	MW10		1000	3	X				X				X				

Relinquished by: <u>[Signature]</u>	Date/Time: <u>8/28/15 15:00</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8-28-15 15:00</u>	Turn Around Time (Check) Same Day _____ 72 hours _____ 24 hours _____ Standard <u>X</u> 48 hours _____ Sample Integrity: Temperature Upon Receipt: <u>79°C</u> Intact: <u>Yes</u> No	Notes:
Relinquished by: <u>[Signature]</u>	Date/Time: <u>8-28-15 17:50</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8-28 1750</u>		
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____		

www.s2scientific.com

Summit Scientific

[Signature]

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

Summit Scientific

S₂

1508231.2

741 Corporate Circle, Suite J&K • Golden, Colorado 80401
303-277-9310 • 303-374-5933

Page 2 of 3

Client: LTE Project Manager: Justin Solomon
Address: _____ E-Mail: JSolomon@LTEnv.com
City/State/Zip: _____
Phone: _____ Fax: _____
Sampler Name: RYAN ZEGLIS Project Name: WALDEN WATER FLOOD FACILITY
Project Number: 034512007.01

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions
					HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	BTEX				
1	MW11	8/24/15	10:10	3	x				x				x				
2	MW12		10:20	3	x				x				x				
3	MW13		10:30	3	x				x				x				
4	MW14		10:40	3	x				x				x				
5	MW15		10:50	3	x				x				x				
6	MW16		11:00	3	x				x				x				
7	MW17		11:10	3	x				x				x				
8	MW18		11:20	3	x				x				x				
9	MW19		11:30	3	x				x				x				
10	MW20		11:40	3	x				x				x			NO HCl/Preserv	

Relinquished by: <u>R. Egan</u>	Date/Time: <u>8/28/15 15:00</u>	Received by: <u>MA</u>	Date/Time: <u>8-28-15 15:00</u>	Turn Around Time (Check)	Notes:
Relinquished by: <u>MP</u>	Date/Time: <u>8-28-15 17:50</u>	Received by: <u>MA</u>	Date/Time: <u>8-28-15 17:50</u>	Same Day _____ 72 hours _____ 24 hours _____ Standard <u>X</u> 48 hours _____	
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____	Sample Integrity: Temperature Upon Receipt: <u>7.9°C</u> Intact: <u>Yes</u> No	

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M. Clements

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

Summit Scientific

S₂

741 Corporate Circle, Suite J&K ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933

1508231.3

Client: LTE Project Manager: Justin Solomon Page 3 of 3
Address: _____ E-Mail: JSolomon@LTEnv.com
City/State/Zip: _____
Phone: _____ Fax: _____
Sampler Name: Ryan Zevalis Project Name: Walden Water Flood Facility
Project Number: 034512007.01

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions
					HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)					
1	MW 21	8/24/15	11:50	3	X				X				X				
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
Relinquished by: <u>R. Zevalis</u>		Date/Time: <u>8/27/15 15:00</u>		Received by: <u>[Signature]</u>		Date/Time: <u>8-28-15 15:00</u>		Turn Around Time (Check)				Notes:					
Relinquished by: <u>[Signature]</u>		Date/Time: <u>8-28-15 17:50</u>		Received by: <u>[Signature]</u>		Date/Time: <u>8-28 17:50</u>		Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/>									
								24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>									
Relinquished by:		Date/Time:		Received by:		Date/Time:		48 hours <input type="checkbox"/>				Sample Integrity:					
												Temperature Upon Receipt: <u>79°</u>					
												Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

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M. Clements

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility

Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

MW01
1508231-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/26/15 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	51	1.0	ug/l	1	1508249	09/01/15	09/01/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	31	1.0	"	"	"	"	"	"	
Xylenes (total)	41	1.0	"	"	"	"	"	"	

Date Sampled: **08/26/15 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.6 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		109 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96.5 %	45-146		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility

Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

MW02
1508231-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/26/15 08:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	290	10		ug/l	10	1508249	09/01/15	09/01/15	EPA 8260B	
Toluene	ND	1.0		"	1	"	"	"	"	
Ethylbenzene	93	1.0		"	"	"	"	"	"	
Xylenes (total)	380	1.0		"	"	"	"	"	"	

Date Sampled: **08/26/15 08:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		107 %		37-154		"	"	"	"	
Surrogate: Toluene-d8		115 %		45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.1 %		45-146		"	"	"	"	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

MW03R
1508231-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/26/15 08:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	1700	100	ug/l	100	1508249	09/01/15	09/01/15	EPA 8260B	
Toluene	ND	1.0	"	1	"	"	"	"	
Ethylbenzene	75	1.0	"	"	"	"	"	"	
Xylenes (total)	360	1.0	"	"	"	"	"	"	

Date Sampled: **08/26/15 08:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		89.2 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		124 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	45-146		"	"	"	"	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

MW04
1508231-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/26/15 09:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	1.5	1.0		ug/l	1	1508249	09/01/15	09/01/15	EPA 8260B	
Toluene	1.1	1.0		"	"	"	"	"	"	
Ethylbenzene	2.4	1.0		"	"	"	"	"	"	
Xylenes (total)	2.4	1.0		"	"	"	"	"	"	

Date Sampled: **08/26/15 09:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %		37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.6 %		45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		95.3 %		45-146		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

MW05
1508231-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/26/15 09:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	1508249	09/01/15	09/01/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/26/15 09:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		101 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		99.5 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.8 %	45-146		"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

MW06
1508231-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/26/15 09:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	2300	100		ug/l	100	1508249	09/01/15	09/01/15	EPA 8260B	
Toluene	4.0	1.0		"	1	"	"	"	"	
Ethylbenzene	230	1.0		"	"	"	"	"	"	
Xylenes (total)	1000	1.0		"	"	"	"	"	"	

Date Sampled: **08/26/15 09:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>		86.9 %		37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		111 %		45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %		45-146		"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

MW07
1508231-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/26/15 09:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	41	1.0		ug/l	1	1508249	09/01/15	09/01/15	EPA 8260B	
Toluene	8.8	1.0		"	"	"	"	"	"	
Ethylbenzene	24	1.0		"	"	"	"	"	"	
Xylenes (total)	140	1.0		"	"	"	"	"	"	

Date Sampled: **08/26/15 09:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>		114 %		37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %		45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96.0 %		45-146		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

MW08R
1508231-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/26/15 09:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	14000	100		ug/l	100	1508249	09/01/15	09/01/15	EPA 8260B	
Toluene	9100	100		"	"	"	"	"	"	
Ethylbenzene	830	100		"	"	"	"	"	"	
Xylenes (total)	9900	100		"	"	"	"	"	"	

Date Sampled: **08/26/15 09:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %		37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %		45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		92.5 %		45-146		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

MW09
1508231-09 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/26/15 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	4300	100		ug/l	100	1508249	09/01/15	09/01/15	EPA 8260B	
Toluene	13	1.0		"	1	"	"	"	"	
Ethylbenzene	170	1.0		"	"	"	"	"	"	
Xylenes (total)	1300	100		"	100	"	"	"	"	

Date Sampled: **08/26/15 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.0 %		37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		109 %		45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.2 %		45-146		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

MW10
1508231-10 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/26/15 10:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	1.6	1.0	ug/l	1	1508249	09/01/15	09/01/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/26/15 10:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		123 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		100 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.2 %	45-146		"	"	"	"	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

MW11
1508231-11 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/26/15 10:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	1508249	09/01/15	09/01/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/26/15 10:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		115 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.4 %	45-146		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

MW12
1508231-12 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/26/15 10:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	1508249	09/01/15	09/01/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/26/15 10:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		119 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		98.7 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.2 %	45-146		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

MW13
1508231-13 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/26/15 10:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	1508249	09/01/15	09/01/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/26/15 10:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		110 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		98.9 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.4 %	45-146		"	"	"	"	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

MW14
1508231-14 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/26/15 10:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	1508249	09/01/15	09/01/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/26/15 10:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		114 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.5 %	45-146		"	"	"	"	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

MW15
1508231-15 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/26/15 10:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	2.4	1.0	ug/l	1	1508249	09/01/15	09/01/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/26/15 10:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		112 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		98.9 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.0 %	45-146		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

MW16
1508231-16 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/26/15 11:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	1508249	09/01/15	09/01/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/26/15 11:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		107 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		98.3 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	45-146		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

MW17
1508231-17 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/26/15 11:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	1508249	09/01/15	09/01/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/26/15 11:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		108 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		102 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.1 %	45-146		"	"	"	"	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

MW18
1508231-18 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/26/15 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	1508249	09/01/15	09/01/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/26/15 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		104 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.7 %	45-146		"	"	"	"	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

MW19
1508231-19 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/26/15 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	5600	100		ug/l	100	1508249	09/01/15	09/01/15	EPA 8260B	
Toluene	580	100		"	"	"	"	"	"	
Ethylbenzene	9600	100		"	"	"	"	"	"	
Xylenes (total)	29000	100		"	"	"	"	"	"	

Date Sampled: **08/26/15 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>		85.8 %		37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		116 %		45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %		45-146		"	"	"	"	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

MW20
1508231-20 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/26/15 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1508249	09/01/15	09/01/15	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **08/26/15 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		119 %		37-154		"	"	"	"	
Surrogate: Toluene-d8		101 %		45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.1 %		45-146		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

MW21
1508231-21 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/26/15 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	930	10		ug/l	10	1508249	09/01/15	09/01/15	EPA 8260B	
Toluene	ND	1.0		"	1	"	"	"	"	
Ethylbenzene	10	1.0		"	"	"	"	"	"	
Xylenes (total)	3.6	1.0		"	"	"	"	"	"	

Date Sampled: **08/26/15 11:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		114 %		37-154		"	"	"	"	
Surrogate: Toluene-d8		102 %		45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.8 %		45-146		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1508249 - EPA 5030 Water MS

Blank (1508249-BLK1)

Prepared & Analyzed: 09/01/15

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.2		105	37-154			
Surrogate: Toluene-d8	13.4		"	13.3		101	45-149			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		98.6	45-146			

LCS (1508249-BS1)

Prepared & Analyzed: 09/01/15

Benzene	36.2	1.0	ug/l	33.3		109	51-132			
Toluene	32.0	1.0	"	33.3		95.9	51-138			
Ethylbenzene	31.9	1.0	"	33.1		96.4	58-146			
m,p-Xylene	62.6	2.0	"	66.5		94.1	57-144			
o-Xylene	31.2	1.0	"	32.8		95.0	53-146			
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.2		105	37-154			
Surrogate: Toluene-d8	13.2		"	13.3		99.2	45-149			
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.4	45-146			

Matrix Spike (1508249-MS1)

Source: 1508231-01

Prepared & Analyzed: 09/01/15

Benzene	88.1	1.0	ug/l	33.3	50.6	113	34-141			
Toluene	31.0	1.0	"	33.3	ND	92.9	27-151			
Ethylbenzene	63.5	1.0	"	33.1	30.9	98.8	29-160			
m,p-Xylene	105	2.0	"	66.5	41.2	96.3	20-166			
o-Xylene	32.8	1.0	"	32.8	ND	100	33-159			
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.2		101	37-154			
Surrogate: Toluene-d8	15.3		"	13.3		115	45-149			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.8	45-146			

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1508249 - EPA 5030 Water MS

Matrix Spike Dup (1508249-MSD1)	Source: 1508231-01			Prepared & Analyzed: 09/01/15						
Benzene	84.3	1.0	ug/l	33.3	50.6	101	34-141	4.38	32	
Toluene	31.1	1.0	"	33.3	ND	93.2	27-151	0.290	25	
Ethylbenzene	61.5	1.0	"	33.1	30.9	92.6	29-160	3.28	50	
m,p-Xylene	103	2.0	"	66.5	41.2	93.2	20-166	2.01	36	
o-Xylene	32.6	1.0	"	32.8	ND	99.3	33-159	0.734	26	
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.2		100	37-154			
Surrogate: Toluene-d8	15.2		"	13.3		114	45-149			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.7	45-146			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007.01
Project Manager: Justin Solomon

Reported:
09/03/15 14:30

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Summit Scientific

A handwritten signature in black ink, appearing to read 'M. Clement'.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

September 30, 2015

Justin Solomon
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: Walden Water Flood Facility

Enclosed are the results of analyses for samples received by Summit Scientific on 09/23/15 15:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury
President



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007
Project Manager: Justin Solomon

Reported:
09/30/15 14:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW22	1509196-01	Water	09/23/15 08:45	09/23/15 15:55
MW23	1509196-02	Water	09/23/15 09:30	09/23/15 15:55
MW24	1509196-03	Water	09/23/15 10:15	09/23/15 15:55

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007
Project Manager: Justin Solomon

Reported:
09/30/15 14:02

Summit Scientific

S₂

1509196

741 Corporate Circle, Suite J&K ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933

Page 1 of 1

Client: LT Environmental, Inc.

Project Manager: Justin Solomon

Address: 4600 West 60th Ave

E-Mail: jsolomon@ltenv.com

City/State/Zip: Arvada, CO 80003

Phone: 303-433-9788

Fax: 303-433-1432

Project Name: Walden Water Flood Facility

Sampler Name: Kris Rabold

Project Number: 034512007

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions
					HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	BTEX				
1	MW22	9/23/15	8:45	3			X		X				X				
2	MW23	9/23/15	9:30	3			X		X				X				
3	MW24	9/23/15	10:15	3			X		X				X				
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Relinquished by:	Date/Time: 9/23/2015 3:55	Received by:	Date/Time: 9/23/15 3:55 pm	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/>	Notes: on ice
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: 11.3°C	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	

www.s2scientific.com

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007
Project Manager: Justin Solomon

Reported:
09/30/15 14:02

MW22
1509196-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 09/23/15 08:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1509252	09/26/15	09/26/15	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 09/23/15 08:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		94.2 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.9 %	45-146		"	"	"	"	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007
Project Manager: Justin Solomon

Reported:
09/30/15 14:02

MW23
1509196-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/23/15 09:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	170	1.0		ug/l	1	1509252	09/26/15	09/26/15	EPA 8260B	
Toluene	170	1.0		"	"	"	"	"	"	
Ethylbenzene	26	1.0		"	"	"	"	"	"	
Xylenes (total)	61	1.0		"	"	"	"	"	"	

Date Sampled: **09/23/15 09:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %		37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.2 %		45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		95.0 %		45-146		"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007
Project Manager: Justin Solomon

Reported:
09/30/15 14:02

MW24
1509196-03 (Water)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/23/15 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1509252	09/26/15	09/26/15	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **09/23/15 10:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		104 %		37-154		"	"	"	"	
Surrogate: Toluene-d8		95.6 %		45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.4 %		45-146		"	"	"	"	

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Arvada CO, 80003

Project: Walden Water Flood Facility
Project Number: 0345-12007
Project Manager: Justin Solomon

Reported:
09/30/15 14:02

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1509252 - EPA 5030 Water MS

Blank (1509252-BLK1)

Prepared & Analyzed: 09/26/15

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.2		101	37-154			
Surrogate: Toluene-d8	11.9		"	13.3		89.5	45-149			
Surrogate: 4-Bromofluorobenzene	11.7		"	13.3		88.1	45-146			

LCS (1509252-BS1)

Prepared & Analyzed: 09/26/15

Benzene	27.3	1.0	ug/l	33.3		81.8	51-132			
Toluene	26.9	1.0	"	33.3		80.7	51-138			
Ethylbenzene	33.9	1.0	"	33.1		102	58-146			
m,p-Xylene	63.6	2.0	"	66.5		95.6	57-144			
o-Xylene	31.1	1.0	"	32.8		94.8	53-146			
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.2		102	37-154			
Surrogate: Toluene-d8	12.9		"	13.3		96.6	45-149			
Surrogate: 4-Bromofluorobenzene	10.9		"	13.3		82.0	45-146			

Matrix Spike (1509252-MS1)

Source: 1509200-01

Prepared & Analyzed: 09/26/15

Benzene	27.5	1.0	ug/l	33.3	ND	82.6	34-141			
Toluene	29.2	1.0	"	33.3	ND	87.5	27-151			
Ethylbenzene	33.0	1.0	"	33.1	ND	99.6	29-160			
m,p-Xylene	61.3	2.0	"	66.5	ND	92.1	20-166			
o-Xylene	30.0	1.0	"	32.8	ND	91.6	33-159			
Surrogate: 1,2-Dichloroethane-d4	14.0		"	13.2		106	37-154			
Surrogate: Toluene-d8	13.8		"	13.3		104	45-149			
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3		93.7	45-146			

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Project Manager: Justin Solomon

Reported:
09/30/15 14:02

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1509252 - EPA 5030 Water MS

Matrix Spike Dup (1509252-MSD1)	Source: 1509200-01			Prepared & Analyzed: 09/26/15						
Benzene	29.4	1.0	ug/l	33.3	ND	88.4	34-141	6.78	32	
Toluene	31.8	1.0	"	33.3	ND	95.5	27-151	8.76	25	
Ethylbenzene	31.9	1.0	"	33.1	ND	96.5	29-160	3.24	50	
m,p-Xylene	61.5	2.0	"	66.5	ND	92.4	20-166	0.326	36	
o-Xylene	25.3	1.0	"	32.8	ND	77.2	33-159	17.0	26	
Surrogate: 1,2-Dichloroethane-d4	15.1		"	13.2		114	37-154			
Surrogate: Toluene-d8	14.7		"	13.3		110	45-149			
Surrogate: 4-Bromofluorobenzene	11.2		"	13.3		83.7	45-146			

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Reported:
09/30/15 14:02

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Summit Scientific

A handwritten signature in black ink, appearing to be 'MSM'.

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