

TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-BOTT 3-23, HSR-FISCHER 6-23
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
GW01	12/7/2010	730	2200	58	500	4	NA
MW01	1/21/2011	5200	15000	170	6900	3.70	93.35
	4/15/2011	2600	7400	290	660	4.48	92.57
	7/19/2011	1000	870	170	2000	3.30	93.75
	10/28/2011	2900	58	230	980	3.72	93.33
	1/13/2012	1000	140	190	2200	PVC Blocked	NA
	4/20/2012	2200	150	72	250	4.37	92.68
	7/5/2012	2000	89	520	4900	4.33	92.72
	10/16/2012	2200	430	280	1700	6.30	90.75
	1/16/2013	3000	1100	300	2000	6.23	90.82
	4/5/2013	3700	1500	160	1100	4.18	92.87
	7/22/2013	2600	63	160	510	5.16	91.89
	10/2/2013	1500	120	140	1300	3.89	93.16
	10/30/2013	Surveyed - Not Sampled				3.72	93.22
	1/14/2014	1690	39.7	255	2500	3.85	93.20
	4/15/2014	1070	17.5	204	1880	3.57	93.37
	7/18/2014	984	<10.0	208	1940	3.99	92.95
	10/17/2014	1570	<20.0	319	2830	3.81	93.13
	1/20/2015	166	1.5	17.1	253	2.40	94.54
	4/28/2015	455	<20.0	55.4	483	3.48	93.46
	7/13/2015	448	<10.0	22.1	159	4.32	92.62
	10/5/2015	208	<4.0	17.4	151	5.12	91.82
	1/25/2016	113	<4.0	5.8	24.4	3.40	93.54
	4/18/2016	54.3	<1.0	4.3	33.3	1.97	94.97
	7/20/2016	127	<1.00	6.13	14.0	4.64	92.30
	10/11/2016	54.2	<1.00	1.40	4.05	4.50	92.44
	1/16/2017	26.1	<1.00	3.05	6.34	3.58	93.36
	4/28/2017	71.9	<1.00	<1.00	<1.00	0.00	96.94
	7/20/2017	76.1	<1.00	<1.00	<1.00	5.15	91.79
	10/17/2017	403	<1.00	12.0	91.9	4.20	92.74
	1/30/2018	112	<4.00	<4.00	<4.00	3.79	93.15
MW02	1/21/2011	<1.0	3.2	<1.0	<1.0	3.47	93.09
	4/15/2011	29	<1.0	<1.0	<1.0	4.15	92.41
	7/19/2011	110	<1.0	<1.0	<1.0	3.12	93.44
	10/28/2011	<1.0	<1.0	<1.0	<1.0	3.62	92.94



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Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	1/13/2012	1.9	<1.0	<1.0	<1.0	3.10	93.46
	4/20/2012	2.4	<1.0	<1.0	<1.0	4.52	92.04
	7/5/2012	<1.0	<1.0	<1.0	<1.0	4.45	92.11
	10/16/2012	<1.0	<1.0	<1.0	<1.0	6.70	89.86
	1/16/2013	1.9	<1.0	<1.0	<1.0	6.55	90.01
	4/5/2013	<1.0	<1.0	<1.0	<1.0	4.35	92.21
	7/22/2013	<1.0	<1.0	<1.0	<1.0	4.80	91.76
	10/2/2013	2.1	<1.0	<1.0	<1.0	3.69	92.87
	10/30/2013	Surveyed - Not Sampled				3.18	93.28
	1/14/2014	<4.0	<4.0	<4.0	<4.0	3.66	92.90
	4/15/2014	<1.0	<1.0	<1.0	<1.0	3.39	93.07
	7/18/2014	<1.0	<1.0	<1.0	<1.0	3.72	92.74
	10/17/2014	<1.0	<1.0	<1.0	<1.0	3.61	92.85
	1/20/2015	<1.0	<1.0	<1.0	<1.0	2.94	93.52
	4/28/2015	<1.0	<1.0	<1.0	<1.0	3.21	93.25
	7/13/2015	<1.0	<1.0	<1.0	<1.0	3.70	92.76
	10/5/2015	<1.0	<1.0	<1.0	<1.0	4.50	91.96
	1/25/2016	<1.0	<1.0	<1.0	<1.0	3.02	93.44
	4/18/2016	<1.0	<1.0	<1.0	<1.0	1.90	94.56
	7/20/2016	<1.00	<1.00	<1.00	<1.00	4.43	92.03
	10/11/2016	<1.00	<1.00	<1.00	<1.00	4.29	92.17
	1/16/2017	<1.00	<1.00	<1.00	<1.00	3.34	93.12
	4/28/2017	<1.00	<1.00	<1.00	<1.00	0.00	96.46
	7/20/2017	<1.00	<1.00	<1.00	<1.00	5.00	91.46
	10/17/2017	<1.00	<1.00	<1.00	<1.00	4.06	92.40
	1/30/2018	<1.00	<1.00	<1.00	<1.00	3.50	92.96
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MW03	1/21/2011	19	<1.0	<1.0	8.1	3.13	93.20
	4/15/2011	27	<1.0	<1.0	<1.0	3.77	92.56
	7/19/2011	93	<1.0	<1.0	<1.0	2.78	93.55
	10/28/2011	<1.0	<1.0	<1.0	<1.0	3.28	93.05
	1/13/2012	1.4	<1.0	6.5	<1.0	2.76	93.57
	4/20/2012	<1.0	<1.0	<1.0	<1.0	3.46	92.87
	7/5/2012	5.8	<1.0	<1.0	<1.0	3.44	92.89
	10/16/2012	16	<1.0	<1.0	1.0	6.67	89.66
	1/16/2013	93	7.4	1.3	12	6.51	89.82
	4/5/2013	580	3.6	<1.0	9.4	3.25	93.08



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Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	7/22/2013	120	<1.0	<1.0	<1.0	4.49	91.84
	10/2/2013	26	<1.0	<1.0	4.8	3.60	92.73
	10/30/2013	Surveyed - Not Sampled				2.46	93.80
	1/14/2014	27.1	<4.0	<4.0	<4.0	3.24	93.09
	4/15/2014	19.2	<1.0	<1.0	<1.0	3.06	93.20
	7/18/2014	<1.0	<1.0	<1.0	<1.0	3.40	92.86
	10/17/2014	<1.0	<1.0	<1.0	<1.0	3.32	92.94
	1/20/2015	<1.0	<1.0	<1.0	<1.0	2.71	93.55
	4/28/2015	<1.0	<1.0	<1.0	<1.0	2.94	93.32
	7/13/2015	<1.0	<1.0	<1.0	<1.0	3.37	92.89
	10/5/2015	<1.0	<1.0	<1.0	<1.0	4.18	92.08
	1/25/2016	<1.0	<1.0	<1.0	<1.0	2.74	93.52
	4/18/2016	<1.0	<1.0	<1.0	<1.0	1.60	94.66
	7/20/2016	<1.00	<1.00	<1.00	<1.00	4.11	92.15
	10/11/2016	<1.00	<1.00	<1.00	<1.00	3.98	92.28
	1/16/2017	<1.00	<1.00	<1.00	<1.00	3.08	93.18
	4/28/2017	<1.00	<1.00	<1.00	<1.00	0.00	96.26
	7/20/2017	<1.00	<1.00	<1.00	<1.00	4.78	91.48
	10/17/2017	<1.00	<1.00	<1.00	<1.00	3.73	92.53
	1/30/2018	<1.00	<1.00	<1.00	<1.00	3.15	93.11
MW04	1/21/2011	<1.0	<1.0	<1.0	<1.0	3.64	93.32
	4/15/2011	<1.0	<1.0	<1.0	<1.0	4.23	92.73
	7/19/2011	<1.0	<1.0	<1.0	<1.0	3.23	93.73
	10/28/2011	<1.0	<1.0	<1.0	<1.0	3.72	93.24
	1/13/2012	<1.0	<1.0	<1.0	<1.0	3.14	93.82
	4/20/2012	<1.0	<1.0	<1.0	<1.0	4.37	92.59
	7/5/2012	<1.0	<1.0	<1.0	<1.0	4.36	92.66
	10/16/2012	10	<1.0	<1.0	<1.0	6.12	90.84
	1/16/2013	1.4	<1.0	<1.0	<1.0	5.98	90.98
	4/5/2013	<1.0	<1.0	<1.0	<1.0	4.18	92.78
	7/22/2013	<1.0	<1.0	<1.0	<1.0	4.94	92.02
	10/2/2013	<1.0	<1.0	<1.0	<1.0	3.83	93.13
	10/30/2013	Surveyed - Not Sampled				3.32	93.42
	1/14/2014	<4.0	<4.0	<4.0	<4.0	4.77	92.19
	4/15/2014	<1.0	<1.0	<1.0	<1.0	3.38	93.36
	7/18/2014	<1.0	<1.0	<1.0	<1.0	3.77	92.97



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	10/17/2014	<1.0	<1.0	<1.0	<1.0	3.53	93.21
	1/20/2015	<1.0	<1.0	<1.0	<1.0	2.95	93.79
	4/28/2015	<1.0	<1.0	<1.0	<1.0	3.27	93.47
	7/13/2015	<1.0	<1.0	<1.0	<1.0	3.73	93.01
	10/5/2015	<1.0	<1.0	<1.0	<1.0	4.56	92.18
	1/25/2016	<1.0	<1.0	<1.0	<1.0	2.99	93.75
	4/18/2016	<1.0	<1.0	<1.0	<1.0	1.93	94.81
	7/20/2016	<1.00	<1.00	<1.00	<1.00	4.48	92.26
	10/11/2016	<1.00	<1.00	<1.00	<1.00	4.28	92.46
	1/16/2017	<1.00	<1.00	<1.00	<1.00	3.35	93.39
	4/28/2017	<1.00	<1.00	<1.00	<1.00	0.00	96.74
	7/20/2017	<1.00	<1.00	<1.00	<1.00	5.08	91.66
	10/17/2017	<1.00	<1.00	<1.00	<1.00	4.19	92.55
	1/30/2018	<1.00	<1.00	<1.00	<1.00	3.42	93.32
MW05	1/21/2011	<1.0	<1.0	<1.0	2.0	3.36	93.51
	4/15/2011	<1.0	<1.0	<1.0	<1.0	3.94	92.93
	7/19/2011	<1.0	<1.0	<1.0	<1.0	3.04	93.83
	10/28/2011	<1.0	<1.0	<1.0	<1.0	3.51	93.36
	1/13/2012	<1.0	<1.0	<1.0	<1.0	2.96	93.91
	4/20/2012	<1.0	<1.0	<1.0	<1.0	3.79	93.08
	7/5/2012	<1.0	<1.0	<1.0	<1.0	3.71	93.16
	10/16/2012	<1.0	<1.0	<1.0	<1.0	5.87	91.00
	1/16/2013	<1.0	<1.0	<1.0	<1.0	5.68	91.19
	4/5/2013	<1.0	<1.0	<1.0	<1.0	3.52	93.35
	7/22/2013	<1.0	<1.0	<1.0	<1.0	4.76	92.11
	10/2/2013	1.4	<1.0	<1.0	<1.0	3.30	93.57
	10/30/2013	Surveyed - Not Sampled				3.25	93.52
	1/14/2014	<4.0	<4.0	<4.0	<4.0	3.49	93.38
	4/15/2014	<1.0	<1.0	<1.0	<1.0	3.27	93.50
	7/18/2014	<1.0	<1.0	<1.0	<1.0	3.58	93.19
	10/17/2014	<1.0	<1.0	<1.0	<1.0	3.48	93.29
	1/20/2015	<1.0	<1.0	<1.0	<1.0	2.87	93.90
	4/28/2015	<1.0	<1.0	<1.0	<1.0	3.19	93.58
	7/13/2015	<1.0	<1.0	<1.0	<1.0	3.64	93.13
	10/5/2015	<1.0	<1.0	<1.0	<1.0	4.43	92.34
	1/25/2016	<1.0	<1.0	<1.0	<1.0	2.95	93.82



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	4/18/2016	<1.0	<1.0	<1.0	<1.0	1.83	94.94
	7/20/2016	<1.00	<1.00	<1.00	<1.00	4.35	92.42
	10/11/2016	<1.00	<1.00	<1.00	<1.00	4.17	92.60
	1/16/2017	<1.00	<1.00	<1.00	<1.00	3.25	93.52
	4/28/2017	<1.00	<1.00	<1.00	<1.00	0.00	96.77
	7/20/2017	<1.00	<1.00	<1.00	<1.00	5.07	91.70
	10/17/2017	<1.00	<1.00	<1.00	<1.00	3.91	92.86
	1/30/2018	<1.00	<1.00	<1.00	<1.00	3.38	93.39
MW06	7/19/2011	<1.0	<1.0	<1.0	<1.0	3.01	93.54
	10/28/2011	<1.0	1.2	<1.0	<1.0	3.50	93.05
	1/13/2012	<1.0	<1.0	<1.0	<1.0	2.95	93.60
	4/20/2012	<1.0	<1.0	<1.0	<1.0	3.88	92.67
	7/5/2012	<1.0	<1.0	<1.0	<1.0	3.84	92.71
	10/16/2012	<1.0	<1.0	<1.0	<1.0	5.89	90.66
	1/16/2013	<1.0	<1.0	<1.0	<1.0	5.70	90.85
	4/5/2013	<1.0	<1.0	<1.0	<1.0	3.43	93.12
	7/22/2013	<1.0	<1.0	<1.0	<1.0	4.70	91.85
	10/2/2013	<1.0	<1.0	<1.0	<1.0	4.25	92.30
	10/30/2013	Surveyed - Not Sampled				3.27	93.19
	1/14/2014	<4.0	<4.0	<4.0	<4.0	3.49	93.06
	4/15/2014	<1.0	<1.0	<1.0	<1.0	3.23	93.23
	7/18/2014	3.0	<1.0	<1.0	<1.0	3.59	92.87
	10/17/2014	<1.0	<1.0	<1.0	<1.0	3.47	92.99
	1/20/2015	<1.0	<1.0	<1.0	<1.0	2.87	93.59
	4/28/2015	<1.0	<1.0	<1.0	<1.0	3.12	93.34
	7/13/2015	<1.0	<1.0	<1.0	<1.0	3.59	92.87
	10/5/2015	<1.0	<1.0	<1.0	<1.0	4.36	92.10
	1/25/2016	<1.0	<1.0	<1.0	<1.0	2.97	93.49
	4/18/2016	<1.0	<1.0	<1.0	<1.0	1.75	94.71
	7/20/2016	<1.00	<1.00	<1.00	<1.00	4.38	92.08
	10/11/2016	<1.00	<1.00	<1.00	<1.00	4.21	92.25
	1/16/2017	<1.00	<1.00	<1.00	<1.00	3.29	93.17
	4/28/2017	<1.00	<1.00	<1.00	<1.00	0.00	96.46
	7/20/2017	<1.00	<1.00	<1.00	<1.00	5.04	91.42
	10/17/2017	<1.00	<1.00	<1.00	<1.00	3.96	92.50
	1/30/2018	<1.00	<1.00	<1.00	<1.00	3.41	93.05



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MW07	7/19/2011	<1.0	<1.0	<1.0	<1.0	2.84	93.38
	10/28/2011	<1.0	<1.0	<1.0	<1.0	3.36	92.86
	1/13/2012	<1.0	<1.0	<1.0	<1.0	2.80	93.42
	4/20/2012	<1.0	<1.0	<1.0	<1.0	3.75	92.47
	7/5/2012	<1.0	<1.0	<1.0	<1.0	3.72	92.50
	10/16/2012	<1.0	<1.0	<1.0	<1.0	5.75	90.47
	1/16/2013	<1.0	<1.0	<1.0	<1.0	5.72	90.50
	4/5/2013	<1.0	<1.0	<1.0	<1.0	3.30	92.92
	7/22/2013	13	<1.0	<1.0	<1.0	4.61	91.61
	10/2/2013	1.4	<1.0	<1.0	<1.0	3.40	92.82
	10/30/2013	Surveyed - Not Sampled				3.16	93.06
	1/14/2014	<4.0	<4.0	<4.0	<4.0	3.29	92.93
	4/15/2014	<1.0	<1.0	<1.0	<1.0	3.17	93.05
	7/18/2014	1.0	<1.0	<1.0	<1.0	3.55	92.67
	10/17/2014	<1.0	<1.0	<1.0	<1.0	3.39	92.83
	1/20/2015	<1.0	<1.0	<1.0	<1.0	2.79	93.43
	4/28/2015	<1.0	<1.0	<1.0	<1.0	3.08	93.14
	7/13/2015	<1.0	<1.0	<1.0	<1.0	3.55	92.67
	10/5/2015	<1.0	<1.0	<1.0	<1.0	4.35	91.87
	1/25/2016	<1.0	<1.0	<1.0	<1.0	2.88	93.34
	4/18/2016	<1.0	<1.0	<1.0	<1.0	1.70	94.52
	7/20/2016	<4.00	<4.00	<4.00	<4.00	4.34	91.88
	10/11/2016	<1.00	<1.00	<1.00	<1.00	4.15	92.07
	1/16/2017	<1.00	<1.00	<1.00	<1.00	3.19	93.03
	4/28/2017	<1.00	<1.00	<1.00	<1.00	0.00	96.22
	7/20/2017	<1.00	<1.00	<1.00	<1.00	4.91	91.31
	10/17/2017	<1.00	<1.00	<1.00	<1.00	3.86	92.36
	1/30/2018	<1.00	<1.00	<1.00	<1.00	3.30	92.92
MW08	7/19/2011	4.2	<1.0	<1.0	<1.0	4.01	93.28
	10/28/2011	<1.0	<1.0	<1.0	<1.0	4.54	92.75
	1/13/2012	<1.0	<1.0	<1.0	<1.0	3.96	93.33
	4/20/2012	<1.0	<1.0	<1.0	<1.0	4.97	92.32
	7/5/2012	<1.0	<1.0	<1.0	<1.0	4.92	92.37
	10/16/2012	<1.0	<1.0	<1.0	<1.0	6.93	90.36
	1/16/2013	<1.0	<1.0	<1.0	<1.0	6.85	90.44



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-BOTT 3-23, HSR-FISCHER 6-23
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	4/5/2013	<1.0	<1.0	<1.0	<1.0	4.45	92.84
	7/22/2013	<1.0	<1.0	<1.0	<1.0	5.71	91.58
	10/2/2013	<1.0	<1.0	<1.0	<1.0	4.55	92.74
	10/30/2013	Surveyed - Not Sampled				4.29	92.97
	1/14/2014	<1.0	<1.0	<1.0	<1.0	4.49	92.80
	4/15/2014	<1.0	<1.0	<1.0	<1.0	4.41	92.85
	7/18/2014	<1.0	<1.0	<1.0	<1.0	4.68	92.58
	10/17/2014	<1.0	<1.0	<1.0	<1.0	4.55	92.71
	1/20/2015	<1.0	<1.0	<1.0	<1.0	3.95	93.31
	4/28/2015	<1.0	<1.0	<1.0	<1.0	4.19	93.07
	7/13/2015	<1.0	<1.0	<1.0	<1.0	4.66	92.60
	8/28/2015	Removed from monitoring				NM	NA

COGCC Allowable Levels	5	1000	700	1400
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Notes: COGCC - Colorado Oil and Gas Conservation Commission

Elev. - elevation

ft bgs - feet below ground surface

GW - groundwater

NA - not analyzed/not available

NM - not measured

µg/L - micrograms per liter

< - less than laboratory reporting limit

Bold indicates result exceeds allowable level

Excavation groundwater depth is approximate

Results in red indicate data from samples collected after start up of air sparge/soil vapor extraction remediation system.



February 06, 2018

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - HSR-Bott 3-23, Fischer 6-23 Project Number - KMG10821/WO#884385

Attached are your analytical results for KMG - HSR-Bott 3-23, Fischer 6-23 received by Origins Laboratory, Inc. January 30, 2018. This project is associated with Origins project number Y801433-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y801433-01	Water	January 30, 2018 10:30	01/30/2018 17:03
MW02	Y801433-02	Water	January 30, 2018 10:35	01/30/2018 17:03
MW03	Y801433-03	Water	January 30, 2018 10:40	01/30/2018 17:03
MW04	Y801433-04	Water	January 30, 2018 10:45	01/30/2018 17:03
MW05	Y801433-05	Water	January 30, 2018 10:50	01/30/2018 17:03
MW06	Y801433-06	Water	January 30, 2018 10:55	01/30/2018 17:03
MW07	Y801433-07	Water	January 30, 2018 11:00	01/30/2018 17:03

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

ORIGINS
LABORATORY, INC

1801433

1725 Elk Place, Denver, CO 80211
Laboratory # - 303.433.1322

Client: LT Environmental, Inc.		Project Manager: Brian Sulzberger						
Project: KMG - HSR Bott 3-23, Fischer 6-23		Project Number: KMG10821/WO#88438557						
Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analysis
01-001	MW01	Water	1-30-18	1036	DT	12 40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
02-001	MW02	Water		1035		12 40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
03-001	MW03	Water		1040		12 40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
04-001	MW04	Water		1045		12 40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
05-001	MW05	Water		1050		12 40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
06-001	MW06	Water		1055		12 40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
07-001	MW07	Water		1100		12 40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C

Relinquishing By	1-30-18	1703	Date / Time
Received By	1-30-18	1703	Date / Time

Requisitioned By	Date / Time
Received By	Date / Time

Temperature on Receipt: 41	<input type="checkbox"/> 72-hr	<input checked="" type="checkbox"/> Standard
Turn Around Time:	<input type="checkbox"/> 24-hr	<input type="checkbox"/> 48-hr

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y64433

Client: LTE

Client Project ID: KMG - HSR-Bott 3-23, Fischer 6-23

Checklist Completed by: Dan Lee

Shipped Via: FD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 1-31-12

Airbill #: 100

Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☒ Other: ☐

Cooler Number/Temperature: 1 31 °C 1 31 °C 1 31 °C (Describe)

Thermometer ID: 1003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / (pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: [Signature] (Project Manager)

Date/Time Reviewed: 2/1/12

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

MW01

1/30/2018 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y801433-01 (Water)

BTEX by EPA 8260C

Benzene	112	4.00	ug/L	4	B8B0104	02/01/2018	02/02/2018	
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	ND	4.00	"	"	"	"	"	U
Xylenes, total	ND	4.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

MW02

1/30/2018 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y801433-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8B0104	02/01/2018	02/02/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.1 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

MW03

1/30/2018 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y801433-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8B0104	02/01/2018	02/02/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.1 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

MW04

1/30/2018 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y801433-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8B0104	02/01/2018	02/02/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121	"	"	"
Surrogate: Toluene-d8	98.8 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

MW05

1/30/2018 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y801433-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8B0104	02/01/2018	02/02/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.7 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

MW06

1/30/2018 10:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y801433-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8B0104	02/01/2018	02/02/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121	"	"	"
Surrogate: Toluene-d8	99.2 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

MW07

1/30/2018 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y801433-07 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8B0104	02/01/2018	02/02/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.2 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8B0104 - EPA 5030B (Water)

Blank (B8B0104-BLK1)

Prepared: 02/01/2018 Analyzed: 02/01/2018

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5	102		84-121			
Surrogate: Toluene-d8	62		"	62.5	99.8		85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.1		84-114			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8B0104 - EPA 5030B (Water)

Blank (B8B0104-BLK2)

Prepared: 02/01/2018 Analyzed: 02/01/2018

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5	99.0		84-121			
Surrogate: Toluene-d8	63		"	62.5	101		85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5	102		84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B8B0104 - EPA 5030B (Water)										
LCS (B8B0104-BS1)					Prepared: 02/01/2018 Analyzed: 02/01/2018					
Benzene	49.6	1.00	ug/L	50.0		99.2	73.3-129			
Toluene	48.7	1.00	"	50.0		97.4	76.2-123			
Ethylbenzene	51.2	1.00	"	50.0		102	73.6-130			
m,p-Xylene	104	2.00	"	100		104	76.1-126			
o-Xylene	53.6	1.00	"	50.0		107	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		93.7	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8B0104 - EPA 5030B (Water)

LCS (B8B0104-BS2)

Prepared: 02/01/2018 Analyzed: 02/01/2018

Benzene	49.6	1.00	ug/L	50.0		99.2	73.3-129			
Toluene	48.9	1.00	"	50.0		97.8	76.2-123			
Ethylbenzene	52.6	1.00	"	50.0		105	73.6-130			
m,p-Xylene	105	2.00	"	100		105	76.1-126			
o-Xylene	52.8	1.00	"	50.0		106	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.3	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8B0104 - EPA 5030B (Water)

Matrix Spike (B8B0104-MS1)		Source: Y801407-01			Prepared: 02/01/2018 Analyzed: 02/01/2018					
Benzene	42.9	1.00	ug/L	50.0	ND	85.9	74-130			
Toluene	42.8	1.00	"	50.0	0.120	85.3	73-131			
Ethylbenzene	45.7	1.00	"	50.0	ND	91.4	76-132			
m,p-Xylene	94.8	2.00	"	100	0.480	94.3	69-139			
o-Xylene	49.1	1.00	"	50.0	ND	98.3	74-131			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.1	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8B0104 - EPA 5030B (Water)

Matrix Spike (B8B0104-MS2)		Source: Y801407-07			Prepared: 02/01/2018 Analyzed: 02/01/2018					
Benzene	53.4	1.00	ug/L	50.0	ND	107	74-130			
Toluene	53.4	1.00	"	50.0	ND	107	73-131			
Ethylbenzene	57.2	1.00	"	50.0	ND	114	76-132			
m,p-Xylene	117	2.00	"	100	ND	117	69-139			
o-Xylene	59.5	1.00	"	50.0	ND	119	74-131			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.6	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG10821/WO#88438557
Project: KMG - HSR-Bott 3-23, Fischer 6-23

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8B0104 - EPA 5030B (Water)

Matrix Spike Dup (B8B0104-MSD1)		Source: Y801407-01			Prepared: 02/01/2018 Analyzed: 02/01/2018					
Benzene	51.7	1.00	ug/L	50.0	ND	103	74-130	18.6	20	
Toluene	51.3	1.00	"	50.0	0.120	102	73-131	18.2	20	
Ethylbenzene	55.1	1.00	"	50.0	ND	110	76-132	18.6	20	
m,p-Xylene	113	2.00	"	100	0.480	113	69-139	17.8	20	
o-Xylene	58.1	1.00	"	50.0	ND	116	74-131	16.8	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.5	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8B0104 - EPA 5030B (Water)

Matrix Spike Dup (B8B0104-MSD2)		Source: Y801407-07			Prepared: 02/01/2018 Analyzed: 02/01/2018					
Benzene	41.3	1.00	ug/L	50.0	ND	82.5	74-130	25.5	20	QR-02
Toluene	40.7	1.00	"	50.0	ND	81.3	73-131	27.1	20	QR-02
Ethylbenzene	43.3	1.00	"	50.0	ND	86.6	76-132	27.7	20	QR-02
m,p-Xylene	89.8	2.00	"	100	ND	89.8	69-139	26.5	20	QR-02
o-Xylene	46.5	1.00	"	50.0	ND	93.1	74-131	24.5	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.4	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.5	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	84-114			

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Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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