

TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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	1/7/2008	140	1300	37	1700	6.0	NA
	9/26/2008	2400	4600	67	2100	6.0	NA
MW01	2/20/2008	460	45	200	2800	7.08	NA
	5/8/2008	470	72	210	2800	6.95	NA
	8/26/2008	140	44	160	1600	4.70	NA
	11/14/2008	200	51	170	1800	5.66	NA
	2/17/2009	420	24	260	3100	5.74	NA
	5/15/2009	450	3.4	250	2800	4.75	NA
	8/26/2009	470	25	270	2200	6.54	NA
	11/18/2009	200	2	130	890	6.34	NA
	2/4/2010	450	13	180	1400	6.42	NA
	5/19/2010	290	2.2	120	480	4.23	NA
	8/13/2010	34	7.8	160	1100	4.97	NA
	11/11/2010	24	2.2	160	390	5.51	NA
	2/16/2011	200	1.1	220	510	5.54	NA
	5/24/2011	38	1.4	160	450	3.65	NA
	8/19/2011	280	1.1	160	370	6.42	NA
	11/19/2011	450	12	160	830	6.16	NA
MW01 destroyed as of 12/1/2011							
MW01R	8/21/2012	<1.0	15	39	370	7.45	89.35
	11/29/2012	<1.0	<1.0	<1.0	170	7.70	89.10
	2/28/2013	<1.0	<1.0	<1.0	<1.0	6.82	89.98
	5/13/2013	210	3.6	47	300	5.38	91.42
	8/29/2013	Product - Not Sampled				7.50 (0.04)	89.30
	11/7/2013	7.4	<1.0	12.1	207	5.97	90.83
	11/18/2013	Surveyed - Not Sampled				6.37	90.76
	2/18/2014	14.6	<1.0	31.6	326	5.91	90.89
	5/13/2014	18.7	<1.0	20.8	201	5.77	NA
	7/29/2014	60.2	<1.0	88.2	799	10.09	NA
	11/5/2014	25.1	<1.0	27	178	10.31	NA
	2/18/2015	22.6	<1.0	13.3	132	10.03	NA
	5/6/2015	29.3	<4.0	21.6	158	9.24	NA
	8/24/2015	4.2	<1.0	5	8	11.26	NA
	11/16/2015	23.4	<1.0	10.8	22.7	11.27	NA
	2/16/2016	56.8	<1.0	16.1	32	10.25	NA



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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)
	5/10/2016	35.4	<1.0	6.8	12.8	8.45	NA
	8/9/2016	23.8	<1.00	3.67	2.26	9.00	NA
	11/4/2016	24.7	<1.00	<1.00	<1.00	6.33	NA
	2/6/2017	7.73	<1.00	<1.00	<1.00	6.23	NA
	5/15/2017	20.8	<1.00	<1.00	<1.00	6.26	NA
	8/18/2017	146	<1.00	<1.00	1.21	6.30	NA
	11/17/2017	76.5	<1.00	<1.00	<1.00	6.92	NA
	2/23/2018	<1.00	<1.00	<1.00	<1.00	6.31	NA
	5/9/2018	14.3	<1.00	<1.00	<1.00	6.08	NA
	8/24/2018	37.0	<1.00	<1.00	<1.00	6.47	NA
	11/5/2018	19.3	<1.00	<1.00	<1.00	6.53	NA
MW02	2/20/2008	<1.0	1.4	180	2400	6.60	NA
	5/8/2008	<10	<10	95	1200	6.65	NA
	8/26/2008	23	<1.0	63	410	4.25	NA
	11/14/2008	8	<1.0	55	280	5.24	NA
	2/17/2009	5.1	<1.0	36	360	5.40	NA
	5/15/2009	5.1	<1.0	84	480	4.41	NA
	8/26/2009	1.6	<1.0	5.2	47	6.19	NA
	11/18/2009	<1.0	<1.0	5	43	5.77	NA
	2/4/2010	1.4	<1.0	21	130	5.88	NA
	5/19/2010	15	<1.0	14	32	3.74	NA
	8/13/2010	3.5	<1.0	24	150	4.44	NA
	11/11/2010	<1.0	<1.0	6.7	29	5.03	NA
	2/16/2011	<1.0	<1.0	<1.0	<1.0	5.02	NA
	5/24/2011	<1.0	<1.0	<1.0	<1.0	3.15	NA
	8/19/2011	<1.0	<1.0	<1.0	<1.0	5.90	NA
	11/19/2011	<1.0	<1.0	<1.0	7.7	5.74	NA
MW02 destroyed as of 12/1/2011							
MW03	2/20/2008	<1.0	<1.0	<1.0	<1.0	6.60	NA
	5/8/2008	<1.0	<1.0	<1.0	<1.0	6.40	NA
	8/26/2008	<1.0	<1.0	<1.0	<1.0	4.23	NA
	11/14/2008	<1.0	<1.0	<1.0	<1.0	5.13	NA
	2/17/2009	<1.0	<1.0	<1.0	<1.0	5.35	NA
	5/15/2009	<1.0	<1.0	<1.0	<1.0	3.99	NA
	8/26/2009	<1.0	<1.0	<1.0	<1.0	5.88	NA



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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)
	11/18/2009	<1.0	<1.0	<1.0	<1.0	5.89	NA
	2/4/2010	<1.0	<1.0	<1.0	<1.0	5.84	NA
	5/19/2010	<1.0	<1.0	<1.0	<1.0	3.80	NA
	8/13/2010	<1.0	<1.0	<1.0	<1.0	4.47	NA
	11/11/2010	<1.0	<1.0	<1.0	<1.0	5.05	NA
	2/16/2011	<1.0	<1.0	<1.0	<1.0	5.05	NA
	5/24/2011	<1.0	<1.0	<1.0	<1.0	3.21	NA
	8/19/2011	3.4	<1.0	1.5	12	5.86	NA
	11/19/2011	<1.0	<1.0	<1.0	<1.0	5.81	NA
	MW03 destroyed as of 12/1/2011						
MW03R	8/21/2012	<1.0	<1.0	<1.0	<1.0	7.32	90.08
	11/29/2012	<1.0	<1.0	<1.0	<1.0	7.01	90.39
	2/28/2013	<1.0	<1.0	<1.0	<1.0	7.06	90.34
	5/13/2013	<1.0	<1.0	<1.0	<1.0	5.66	91.74
	8/29/2013	<1.0	<1.0	<1.0	<1.0	7.65	89.75
	11/7/2013	<1.0	<1.0	<1.0	<1.0	6.26	91.14
	11/18/2013	Surveyed - Not Sampled				5.98	91.10
	2/18/2014	<1.0	<1.0	<1.0	<1.0	6.24	91.16
	5/13/2014	<1.0	<1.0	<1.0	<1.0	5.67	91.89
	7/29/2014	<1.0	<1.0	<1.0	<1.0	6.90	90.66
	11/5/2014	<1.0	<1.0	<1.0	<1.0	7.12	90.44
	2/18/2015	<1.0	<1.0	<1.0	<1.0	6.88	90.68
	5/6/2015	<1.0	<1.0	<1.0	<1.0	6.07	91.49
	8/24/2015	<1.0	<1.0	<1.0	<1.0	8.00	89.56
	11/16/2015	<1.0	<1.0	<1.0	<1.0	8.06	89.50
	2/16/2016	<1.0	<1.0	<1.0	<1.0	7.01	90.55
	5/10/2016	<1.0	<1.0	<1.0	<1.0	5.34	92.22
	8/9/2016	<1.00	<1.00	<1.00	<1.00	5.77	91.79
	11/4/2016	<1.00	<1.00	<1.00	<1.00	6.71	91.39
	2/6/2017	<1.00	<1.00	<1.00	<1.00	6.71	91.39
	5/15/2017	<1.00	<1.00	<1.00	<1.00	6.70	91.40
	8/18/2017	<1.00	<1.00	<1.00	<1.00	6.62	91.48
	11/17/2017	<1.00	<1.00	<1.00	<1.00	7.22	90.88
	2/23/2018	<1.00	<1.00	<1.00	<1.00	6.70	91.40
	5/9/2018	<1.00	<1.00	<1.00	<1.00	6.56	91.54
	8/24/2018	<1.00	<1.00	<1.00	<1.00	6.87	91.23



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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)
	11/5/2018	<1.00	<1.00	<1.00	<1.00	6.94	91.16
MW04	5/8/2008	<1.0	<1.0	<1.0	<1.0	5.33	NA
	8/26/2008	<1.0	<1.0	<1.0	<1.0	3.18	NA
	11/14/2008	<1.0	<1.0	<1.0	<1.0	4.14	NA
	2/17/2009	<1.0	<1.0	<1.0	<1.0	4.31	NA
	5/15/2009	<1.0	<1.0	<1.0	<1.0	4.19	NA
	8/26/2009	<1.0	<1.0	<1.0	<1.0	6.18	NA
	11/18/2009	<1.0	<1.0	<1.0	<1.0	4.91	NA
	2/4/2010	<1.0	<1.0	<1.0	<1.0	4.80	NA
	5/19/2010	<1.0	<1.0	<1.0	<1.0	2.79	NA
	8/13/2010	<1.0	<1.0	<1.0	<1.0	3.51	NA
	11/11/2010	<1.0	<1.0	<1.0	<1.0	4.10	NA
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.05	NA
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.22	NA
	8/19/2011	<1.0	<1.0	<1.0	<1.0	4.94	NA
	11/19/2011	<1.0	<1.0	<1.0	<1.0	4.76	NA
	2/17/2012	<1.0	<1.0	<1.0	<1.0	4.43	NA
MW04 destroyed as of 2/18/2012							
MW04R	8/21/2012	<1.0	<1.0	<1.0	<1.0	7.27	89.68
	11/29/2012	<1.0	<1.0	<1.0	<1.0	6.91	90.04
	2/28/2013	<1.0	<1.0	<1.0	<1.0	7.08	89.87
	5/13/2013	<1.0	<1.0	<1.0	<1.0	5.63	91.32
	8/29/2013	<1.0	<1.0	<1.0	<1.0	7.64	89.31
	11/7/2013	<1.0	<1.0	<1.0	<1.0	6.22	90.73
	11/18/2013	Surveyed - Not Sampled				5.63	90.72
	2/18/2014	<1.0	<1.0	<1.0	<1.0	6.16	90.79
	5/13/2014	<1.0	<1.0	<1.0	<1.0	6.41	90.84
	7/29/2014	<1.0	<1.0	<1.0	<1.0	7.06	90.19
	11/5/2014	<1.0	<1.0	<1.0	<1.0	7.21	90.04
	2/18/2015	<1.0	<1.0	<1.0	<1.0	6.98	90.27
	5/6/2015	<1.0	<1.0	<1.0	<1.0	6.15	91.10
	8/24/2015	<1.0	<1.0	<1.0	<1.0	8.17	89.08
	11/16/2015	<1.0	<1.0	<1.0	<1.0	8.23	89.02
	2/16/2016	<1.0	<1.0	<1.0	<1.0	6.43	90.82
	5/10/2016	<1.0	<1.0	<1.0	<1.0	5.39	91.86



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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)
	8/9/2016	<1.00	<1.00	<1.00	<1.00	5.90	91.35
	11/4/2016	<1.00	<1.00	<1.00	<1.00	6.45	90.94
	2/6/2017	<1.00	<1.00	<1.00	<1.00	6.39	91.00
	5/15/2017	<1.00	<1.00	<1.00	<1.00	6.39	91.00
	8/18/2017	<1.00	<1.00	<1.00	<1.00	6.41	90.98
	11/17/2017	<1.00	<1.00	<1.00	<1.00	7.02	90.37
	2/23/2018	<1.00	<1.00	<1.00	<1.00	6.42	90.97
	5/9/2018	<1.00	<1.00	<1.00	<1.00	6.15	91.24
	8/24/2018	<1.00	<1.00	<1.00	<1.00	6.57	90.82
	11/5/2018	<1.00	<1.00	<1.00	<1.00	6.65	90.74
MW05	5/8/2008	56	5.6	39	440	5.59	NA
	8/26/2008	24	<1.0	3.1	43	3.49	NA
	11/14/2008	38	13	36	250	4.49	NA
	2/17/2009	170	<1.0	22	270	4.41	NA
	5/15/2009	70	2.9	5.7	570	3.32	NA
	8/26/2009	Removed from monitoring				NM	NA
MW06	5/8/2008	820	9.2	200	3200	6.12	NA
	8/26/2008	11	9.3	39	350	3.94	NA
	11/14/2008	210	36	120	1500	5.85	NA
	2/17/2009	140	32	110	1400	5.21	NA
	5/15/2009	190	33	110	1300	3.82	NA
	8/26/2009	30	37	92	780	5.91	NA
	11/18/2009	80	18	75	800	5.72	NA
	2/4/2010	86	26	100	1100	5.73	NA
	5/19/2010	160	43	110	1000	3.53	NA
	8/13/2010	13	48	61	460	5.40	NA
	11/11/2010	<1.0	<1.0	6.6	30	5.41	NA
	2/16/2011	14	1.7	38	100	5.39	NA
	5/24/2011	5.5	2.7	44	140	3.49	NA
	8/19/2011	90	1.3	96	270	6.27	NA
	11/19/2011	26	20	60	270	6.08	NA
	2/17/2012	10	9.2	46	270	5.23	NA
	MW06 destroyed as of 2/18/2012						
MW06R	8/21/2012	15	41	100	990	7.20	NA



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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)
	11/29/2012	18	1.4	30	400	6.82	NA
	2/28/2013	45	1.6	100	560	6.95	NA
	5/13/2013	43	3.3	76	390	5.42	NA
	8/29/2013	23	<1.0	27	85	7.54	NA
	MW06R destroyed as of 11/7/2013						
MW06R2	2/18/2014	15.4	138	58.8	893	5.57	NA
	5/13/2014	6.6	27.6	9.2	140	4.81	NA
	7/29/2014	2.8	6.2	2.3	51.6	6.62	NA
	11/5/2014	30.7	16.6	79.2	897	7.30	NA
	2/18/2015	6.2	21.8	16.2	153	6.55	NA
	5/6/2015	2.8	30.2	29.1	265	5.64	NA
	8/24/2015	15.4	166	105	664	7.79	NA
	11/16/2015	<4.0	33.3	23.6	251	7.95	NA
	2/16/2016	<1.0	46.2	34.3	375	6.72	NA
	5/10/2016	2.6	55.9	31.9	270	5.02	NA
	8/9/2016	6.86	66.2	48.3	444	5.59	NA
	11/4/2016	6.08	62.2	50.9	422	5.99	NA
	2/6/2017	7.57	<1.00	1.84	1.76	5.89	NA
	5/15/2017	1.83	2.29	17.2	135	5.91	NA
	8/18/2017	<1.00	<1.00	<1.00	<1.00	5.92	NA
	11/17/2017	5.92	<1.00	29.1	16.6	6.66	NA
	2/23/2018	Frozen - Not Sampled				NM	NA
	5/9/2018	1.18	<1.00	<1.00	<1.00	6.03	NA
	8/24/2018	2.09	50.5	173	959	6.14	NA
	11/5/2018	4.07	<1.00	106	632	6.16	NA
MW07	6/18/2008	4300	2500	86	5500	6.33	NA
	8/26/2008	730	250	43	680	4.70	NA
	11/14/2008	3300	1600	170	2200	5.56	NA
	2/17/2009	1500	520	150	2300	5.65	NA
	5/15/2009	1500	63	63	1500	4.16	NA
	8/26/2009	1700	16	120	1300	6.34	NA
	11/18/2009	1200	11	120	1600	6.30	NA
	2/4/2010	1800	11	150	2000	6.30	NA
	5/19/2010	1200	17	160	1400	4.24	NA
	8/13/2010	910	2.8	130	600	4.84	NA



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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)
	11/11/2010	280	2.3	93	390	5.50	NA
	2/16/2011	97	<1.0	92	470	5.47	NA
	5/24/2011	110	3.5	14	170	3.57	NA
	8/19/2011	640	29	110	260	6.28	NA
	11/19/2011	780	3.7	160	350	6.13	
	MW07 destroyed as of 12/1/2011						
MW07R	8/21/2012	2.1	<1.0	<1.0	2.9	7.25	89.90
	11/29/2012	77	4.1	29	120	6.59	90.46
	2/28/2013	180	5.8	110	420	6.62	90.43
	5/13/2013	760	3.2	64	260	5.24	91.81
	8/29/2013	510	<1.0	19	130	7.20	89.85
	11/7/2013	128	2.4	12	121	5.83	91.22
	11/18/2013	Surveyed - Not Sampled				6.42	91.16
	2/18/2014	48.6	3.5	16.2	203	5.78	91.27
	5/13/2014	21.2	<1.0	3	38	5.45	NA
	7/29/2014	11.4	1.6	24.6	273	9.71	NA
	11/5/2014	8.4	<1.0	4	45.6	9.93	NA
	2/18/2015	6.7	<1.0	6	82.8	9.70	NA
	5/6/2015	4.6	<1.0	4.7	59.5	8.84	NA
	8/24/2015	9.5	<1.0	54.8	450	12.69	NA
	11/16/2015	13.2	<1.0	55.3	723	11.05	NA
	2/16/2016	4.3	<4.0	11.9	119	9.91	NA
	5/10/2016	2.9	<1.0	2.0	19.2	8.05	NA
	8/9/2016	1.79	<1.00	3.08	21.8	8.61	NA
	11/4/2016	1.36	<1.00	<1.00	7.81	5.97	NA
	2/6/2017	1.12	<1.00	<1.00	<1.00	5.94	NA
	5/15/2017	1.13	<1.00	<1.00	<1.00	5.97	NA
	8/18/2017	<1.00	<1.00	<1.00	<1.00	6.38	NA
	11/17/2017	2.17	<1.00	<1.00	<1.00	7.03	NA
	2/23/2018	<1.00	<1.00	<1.00	<1.00	5.99	NA
	5/9/2018	<1.00	<1.00	<1.00	<1.00	5.78	NA
	8/24/2018	3.53	<1.00	<1.00	<1.00	6.15	NA
	11/5/2018	<1.00	<1.00	<1.00	<1.00	6.18	NA
MW08	6/18/2008	43	870	65	4300	6.17	NA
	8/26/2008	64	250	170	2900	4.00	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	11/14/2008	27	1400	240	3100	5.02	NA
	2/17/2009	29	800	290	4300	5.05	NA
	5/15/2009	100	230	250	3200	3.77	NA
	8/26/2009	40	990	280	3700	5.61	NA
	11/18/2009	28	53	140	1300	5.72	NA
	2/4/2010	26	380	290	1600	5.75	NA
	5/19/2010	1.8	37	34	300	3.36	NA
	8/13/2010	17	930	220	2400	4.11	NA
	11/11/2010	<1.0	530	360	2300	4.75	NA
	2/16/2011	11	120	430	2300	4.69	NA
	5/24/2011	13	740	300	2900	2.78	NA
	8/19/2011	25	1000	200	3900	5.62	NA
	11/19/2011	17	320	360	3000	5.32	NA
MW08 destroyed as of 12/1/2011							
MW08R	8/21/2012	<1.0	68	110	1100	7.52	89.40
	11/29/2012	4.1	200	200	2600	6.95	89.97
	2/28/2013	3.9	200	230	2500	7.13	89.79
	5/13/2013	3.8	190	210	3200	5.63	91.29
	8/29/2013	2.2	400	250	3300	7.73	89.19
	11/7/2013	<1.0	190	169	2130	6.25	90.67
	11/18/2013	Surveyed - Not Sampled				6.15	90.64
	2/18/2014	<4.0	382	277	2300	5.92	91.00
	5/13/2014	<1.0	163	106	934	5.16	NA
	7/29/2014	<2.0	176	160	2740	9.57	NA
	11/5/2014	<1.0	131	145	1760	9.73	NA
	2/18/2015	<1.0	140	189	2060	9.50	NA
	5/6/2015	<1.0	155	220	2250	8.66	NA
	8/24/2015	<4.0	102	161	1590	10.72	NA
	11/16/2015	<4.0	144	181	1860	10.85	NA
	2/16/2016	<4.0	106	176	2190	9.69	NA
	5/10/2016	<1.0	41.3	108	708	7.89	NA
	8/9/2016	<4.00	12.7	67.7	578	8.50	NA
	11/4/2016	<1.00	47.5	122	779	5.94	NA
	2/6/2017	<1.00	4.19	14.0	124	5.86	NA
	5/15/2017	<1.00	<1.00	<1.00	3.66	5.85	NA
	8/18/2017	<1.00	<1.00	7.66	64.9	5.78	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	11/17/2017	<1.00	<1.00	3.14	40.1	6.35	NA
	2/23/2018	<1.00	9.21	30.1	263	5.96	NA
	5/9/2018	<1.00	<1.00	<1.00	<1.00	5.84	NA
	8/24/2018	<1.00	9.39	31.7	342	6.23	NA
	11/5/2018	<1.00	<1.00	1.78	13.8	6.15	NA
MW09	6/18/2008	63	890	270	5000	5.94	NA
	8/26/2008	4	260	130	2700	3.31	NA
	11/14/2008	29	930	220	3000	4.43	NA
	2/17/2009	33	890	290	4000	4.45	NA
	5/15/2009	28	550	110	3300	3.38	NA
	8/26/2009	Removed from monitoring				NM	NA
MW10	6/18/2008	320	<1.0	44	5700	5.63	NA
	8/26/2008	62	<1.0	<1.0	34	3.45	NA
	11/14/2008	150	<1.0	66	360	4.52	NA
	2/17/2009	40	<1.0	<1.0	2.2	4.82	NA
	5/15/2009	<1.0	<1.0	<1.0	<1.0	3.75	NA
	8/26/2009	210	<1.0	14	36	1.86	NA
	11/18/2009	94	<1.0	13	8.7	5.30	NA
	2/4/2010	110	<1.0	45	160	5.34	NA
	5/19/2010	83	<1.0	<1.0	2.8	3.01	NA
	8/13/2010	99	<1.0	7.2	16	3.95	NA
	11/11/2010	10	<1.0	<1.0	<1.0	4.47	NA
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.43	NA
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.48	NA
	8/19/2011	66	<1.0	5.1	8.1	5.36	NA
	11/19/2011	<1.0	<1.0	<1.0	<1.0	5.05	NA
	2/17/2012	<1.0	<1.0	<1.0	<1.0	3.98	NA
	MW10 destroyed as of 2/8/2012						
MW10R	8/21/2012	1.7	<1.0	8.4	4.6	4.80	88.83
	11/29/2012	<1.0	<1.0	<1.0	<1.0	4.41	89.22
	2/28/2013	<1.0	<1.0	<1.0	<1.0	4.48	89.15
	5/13/2013	5.6	1.2	70	150	3.01	90.62
	8/29/2013	<1.0	<1.0	<1.0	<1.0	5.21	88.42
	11/7/2013	3.6	<1.0	44.6	104	3.70	89.93



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	11/18/2013	Surveyed - Not Sampled				3.89	89.88
	2/18/2014	5.9	<1.0	73.9	334	3.55	90.08
	5/13/2014	7.0	<1.0	54.7	205	-0.55	94.32
	7/29/2014	23.2	<1.0	64.9	323	4.51	89.26
	11/5/2014	4.9	<1.0	27.3	115	4.49	89.28
	2/18/2015	1.7	<1.0	5.1	15.3	4.21	89.56
	5/6/2015	4.6	<1.0	24.1	46.7	3.35	90.42
	8/24/2015	22	<1.0	43	297	PVC Blocked	NA
	11/16/2015	2.8	<1.0	24.8	53.6	5.62	88.15
	2/16/2016	<1.0	<1.0	1.6	<1.0	4.43	89.34
	5/10/2016	<1.0	<1.0	<1.0	2.2	2.65	91.12
	8/9/2016	<1.00	<1.00	<1.00	<1.00	3.30	90.47
	11/4/2016	<1.00	<1.00	<1.00	<1.00	3.65	90.08
	2/6/2017	<1.00	<1.00	<1.00	<1.00	3.53	90.20
	5/15/2017	<1.00	<1.00	<1.00	<1.00	3.64	90.09
	8/18/2017	<1.00	<1.00	<1.00	<1.00	3.53	90.20
	11/17/2017	<1.00	<1.00	<1.00	<1.00	4.21	89.52
	2/23/2018	<1.00	<1.00	<1.00	<1.00	3.60	90.13
	5/9/2018	<1.00	<1.00	<1.00	<1.00	3.42	90.31
	8/24/2018	2.29	<1.00	<1.00	<1.00	3.90	89.83
	11/5/2018	<1.00	<1.00	<1.00	<1.00	3.88	89.85
MW11	6/18/2008	1.3	2.5	47	300	5.48	NA
	8/26/2008	<1.0	<1.0	<1.0	13	3.50	NA
	11/14/2008	<1.0	<1.0	31	37	4.61	NA
	2/17/2009	<1.0	<1.0	72	88	4.78	NA
	5/15/2009	<1.0	<1.0	<1.0	<1.0	5.54	NA
	8/26/2009	<1.0	<1.0	60	72	1.77	NA
	11/18/2009	<1.0	2.4	43	130	5.25	NA
	2/4/2010	<1.0	<1.0	5.9	19	5.20	NA
	5/19/2010	<1.0	<1.0	19	64	3.09	NA
	8/13/2010	<1.0	<1.0	<1.0	<1.0	3.94	NA
	11/11/2010	<1.0	<1.0	<1.0	<1.0	4.54	NA
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.46	NA
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.54	NA
	8/19/2011	<1.0	<1.0	1.5	2.4	5.34	NA
	11/19/2011	<1.0	<1.0	<1.0	<1.0	5.08	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
MW11 destroyed as of 2/17/2012							
MW11R	8/21/2012	<1.0	<1.0	<1.0	<1.0	4.60	88.99
	11/29/2012	<1.0	<1.0	<1.0	<1.0	4.12	89.47
	2/28/2013	<1.0	<1.0	<1.0	<1.0	4.26	89.33
	5/13/2013	<1.0	<1.0	12	110	2.83	90.76
	8/29/2013	<1.0	<1.0	<1.0	<1.0	5.00	88.59
	11/7/2013	<1.0	<1.0	4.7	49.2	3.47	90.12
	11/18/2013	Surveyed - Not Sampled				3.65	90.08
	2/18/2014	<1.0	<1.0	22	190	3.34	90.25
	5/13/2014	<1.0	<1.0	10.7	76.3	2.76	90.97
	7/29/2014	<1.0	<1.0	1.5	8.7	4.23	89.50
	11/5/2014	<1.0	<1.0	4.6	29.1	4.29	89.44
	2/18/2015	<1.0	<1.0	<1.0	<1.0	3.72	90.01
	5/6/2015	<1.0	<1.0	6.7	36.4	3.16	90.57
	8/24/2015	<1.0	<1.0	26.6	164	5.38	88.35
	11/16/2015	<1.0	<1.0	8.1	24.1	5.39	88.34
	2/16/2016	<1.0	<1.0	9.3	29	4.16	89.57
	5/10/2016	<1.0	<1.0	4.4	12.4	2.46	91.27
	8/9/2016	<1.00	<1.00	<1.00	<1.00	3.05	90.68
	11/4/2016	<1.00	<1.00	<1.00	<1.00	3.33	90.30
	2/6/2017	<1.00	<1.00	<1.00	<1.00	3.18	90.45
	5/15/2017	<1.00	<1.00	<1.00	<1.00	3.32	90.31
	8/18/2017	<1.00	<1.00	<1.00	<1.00	3.12	90.51
	11/17/2017	<1.00	<1.00	<1.00	<1.00	3.87	89.76
	2/23/2018	<1.00	<1.00	<1.00	<1.00	3.26	90.37
	5/9/2018	<1.00	<1.00	<1.00	<1.00	3.12	90.51
	8/24/2018	<1.00	<1.00	1.04	<1.00	3.57	90.06
	11/5/2018	<1.00	<1.00	<1.00	<1.00	3.51	90.12
MW12	8/26/2008	250	<1.0	45	250	3.33	NA
	11/14/2008	34	<1.0	22	110	3.63	NA
	2/17/2009	19	<1.0	6.6	67	3.81	NA
	5/15/2009	<1.0	<1.0	<1.0	<1.0	2.62	NA
	8/26/2009	<1.0	<1.0	<1.0	2.4	1.78	NA
	11/18/2009	<1.0	<1.0	<1.0	<1.0	5.28	NA
	2/4/2010	2.2	<1.0	<1.0	<1.0	5.22	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	5/19/2010	17	<1.0	1.7	8.4	3.03	NA
	8/13/2010	2	<1.0	<1.0	<1.0	4.03	NA
	11/11/2010	<1.0	<1.0	<1.0	<1.0	4.55	NA
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.45	NA
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.54	NA
	8/19/2011	Removed from monitoring				NM	NA
	11/18/2013	Surveyed - Not Sampled				3.90	89.60
MW13	8/26/2008	74	1.6	18	340	3.15	NA
	11/14/2008	<1.0	<1.0	<1.0	<1.0	4.43	NA
	2/17/2009	21	<1.0	4.2	43	4.38	NA
	5/15/2009	17	<1.0	<1.0	<1.0	3.56	NA
	8/26/2009	<1.0	<1.0	<1.0	<1.0	5.26	NA
	11/18/2009	<1.0	<1.0	<1.0	<1.0	5.15	NA
	2/4/2010	<1.0	<1.0	<1.0	<1.0	5.15	NA
	5/19/2010	11	<1.0	<1.0	<1.0	2.89	NA
	8/13/2010	2.9	<1.0	<1.0	<1.0	3.85	NA
	11/11/2010	1.2	<1.0	<1.0	<1.0	4.38	NA
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.25	NA
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.35	NA
	8/19/2011	15	<1.0	16	14	5.20	NA
	11/19/2011	<1.0	<1.0	<1.0	<1.0	4.91	NA
	2/17/2012	<1.0	<1.0	<1.0	<1.0	4.07	NA
	MW13 destroyed as of 2/18/2012						
MW13R	8/21/2012	1.3	<1.0	<1.0	6.3	4.72	88.23
	11/29/2012	<1.0	<1.0	<1.0	12	4.21	88.74
	2/28/2013	<1.0	<1.0	<1.0	<1.0	4.42	88.53
	5/13/2013	<1.0	<1.0	33	37	PVC Bent	NA
	8/29/2013	<1.0	<1.0	4	<1.0	PVC Bent	NA
	11/7/2013	<1.0	<1.0	23.2	104	3.31	89.74
	11/18/2013	Surveyed - Not Sampled				3.39	89.69
	2/18/2014	<1.0	<1.0	6.6	3.2	3.15	89.90
	5/13/2014	<1.0	<1.0	20.8	21.9	2.36	90.72
	7/29/2014	1.1	<1.0	20.3	77.4	4.06	89.02
	11/5/2014	<1.0	<1.0	5.4	3.1	3.62	89.46
	2/18/2015	<1.0	<1.0	<1.0	<1.0	3.75	89.33



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	5/6/2015	<1.0	<1.0	23.4	12.6	2.91	90.17
	8/24/2015	<1.0	<1.0	10	2.4	7.13	85.95
	11/16/2015	<1.0	<1.0	<1.0	<1.0	5.22	87.86
	2/16/2016	<1.0	<1.0	5.5	18.8	3.95	89.13
	5/10/2016	<1.0	<1.0	1.1	2.7	2.18	90.90
	8/9/2016	<1.00	<1.00	2.54	<1.00	2.90	90.18
	11/4/2016	<1.00	<1.00	<1.00	<1.00	3.24	89.84
	2/6/2017	<1.00	<1.00	1.42	<1.00	3.13	89.95
	5/15/2017	<1.00	<1.00	<1.00	<1.00	3.14	89.94
	8/18/2017	<1.00	<1.00	<1.00	<1.00	3.09	89.99
	11/17/2017	<1.00	<1.00	<1.00	<1.00	3.75	89.33
	2/23/2018	<1.00	<1.00	<1.00	<1.00	3.12	89.96
	5/9/2018	<1.00	<1.00	<1.00	<1.00	2.85	90.23
	8/24/2018	<1.00	<1.00	9.90	<1.00	3.46	89.62
	11/5/2018	<1.00	<1.00	<1.00	<1.00	3.38	89.70
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MW14	8/26/2008	22	<1.0	1.7	50	3.38	NA
	11/14/2008	2.3	<1.0	8.1	21	4.58	NA
	2/17/2009	14	<1.0	37	42	4.61	NA
	5/15/2009	3.7	<1.0	8.6	5.1	3.43	NA
	8/26/2009	5.9	<1.0	6.8	16	5.01	NA
	11/18/2009	18	<1.0	35	140	5.38	NA
	2/4/2010	8	<1.0	12	3.8	5.50	NA
	5/19/2010	6.4	<1.0	5.1	<1.0	3.22	NA
	8/13/2010	2.3	<1.0	<1.0	<1.0	4.14	NA
	11/11/2010	<1.0	<1.0	2.4	<1.0	4.75	NA
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.68	NA
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.65	NA
	8/19/2011	33	<1.0	2.3	<1.0	5.53	NA
	11/19/2011	<1.0	<1.0	<1.0	<1.0	5.24	NA
	2/17/2012	<1.0	<1.0				
MW14 destroyed as of 2/18/2012							
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MW14R	8/21/2012	4.6	<1.0	6.8	38	6.90	88.99
	11/29/2012	<1.0	<1.0	<1.0	79	6.51	89.38
	2/28/2013	<1.0	<1.0	<1.0	67	6.64	83.25
	5/13/2013	2.1	<1.0	<1.0	<1.0	5.06	90.83



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	8/29/2013	7.5	<1.0	<1.0	<1.0	7.25	88.64
	11/7/2013	<1.0	<1.0	<1.0	<1.0	5.76	90.13
	11/18/2013	Surveyed - Not Sampled				5.10	90.15
	2/18/2014	11.8	<1.0	18.8	53.1	5.58	90.31
	5/13/2014	5.6	<1.0	7	16.3	5.04	91.17
	7/29/2014	<1.0	<1.0	<1.0	<1.0	7.62	88.59
	11/5/2014	<1.0	<1.0	<1.0	<1.0	6.76	89.45
	2/18/2015	<1.0	<1.0	<1.0	<1.0	6.47	89.74
	5/6/2015	<1.0	<1.0	<1.0	<1.0	6.04	90.17
	8/24/2015	1.4	<1.0	1	<1.0	7.88	88.33
	11/16/2015	23.3	<1.0	3.9	17.6	8.07	88.14
	2/16/2016	8.6	<1.0	2.8	1.9	6.68	89.53
	5/10/2016	<1.0	<1.0	<1.0	<1.0	4.93	91.28
	8/9/2016	2.10	<1.00	<1.00	<1.00	5.58	90.63
	11/4/2016	<1.00	<1.00	<1.00	<1.00	6.01	90.23
	2/6/2017	1.45	<1.00	<1.00	<1.00	5.83	90.41
	5/15/2017	<1.00	<1.00	<1.00	<1.00	5.93	90.31
	8/18/2017	76.9	<1.00	<1.00	<1.00	5.74	90.50
	11/17/2017	<1.00	<1.00	2.20	7.93	6.36	89.88
	2/23/2018	1.53	<1.00	<1.00	<1.00	5.84	90.40
	5/9/2018	<1.00	<1.00	<1.00	<1.00	5.61	90.63
	8/24/2018	<1.00	<1.00	<1.00	<1.00	6.16	90.08
	11/5/2018	<1.00	<1.00	<1.00	<1.00	6.14	90.10
MW15	8/26/2008	52	120	120	1900	3.74	NA
	11/14/2008	62	22	89	1100	4.88	NA
	2/17/2009	340	310	76	960	4.96	NA
	5/15/2009	68	11	29	2300	3.48	NA
	8/26/2009	88	<1.0	64	260	5.31	NA
	11/18/2009	220	<1.0	74	190	5.65	NA
	2/4/2010	240	<1.0	74	170	5.65	NA
	5/19/2010	110	<1.0	36	95	3.49	NA
	8/13/2010	4.6	2.7	8.8	37	4.30	NA
	11/11/2010	9.8	<1.0	6.2	15	4.90	NA
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.75	NA
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.88	NA
	8/19/2011	150	<1.0	71	95	5.75	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	11/19/2011	<1.0	<1.0	<1.0	<1.0	5.45	NA
	MW15 destroyed as of 12/1/2011						
MW15R	8/21/2012	1.3	5.1	4.4	22	7.00	89.11
	11/29/2012	<1.0	<1.0	<1.0	22	6.33	89.78
	2/28/2013	<1.0	<1.0	<1.0	<1.0	6.47	89.64
	5/13/2013	2.5	2.2	2.1	25	4.96	91.15
	8/29/2013	2.2	<1.0	<1.0	6.1	7.04	89.07
	11/7/2013	<1.0	<1.0	<1.0	3	5.60	90.51
	11/18/2013	Surveyed - Not Sampled				6.20	90.43
	2/18/2014	<1.0	1.7	1.8	20.5	5.57	90.54
	5/13/2014	<1.0	<1.0	<1.0	13.9	5.21	91.42
	7/29/2014	<1.0	1.3	4.2	51.3	4.71	91.92
	11/5/2014	<1.0	<1.0	<1.0	<1.0	6.91	89.72
	2/18/2015	<1.0	<1.0	<1.0	<1.0	6.60	90.03
	5/6/2015	<1.0	<1.0	<1.0	<1.0	5.71	90.92
	8/24/2015	<1.0	<1.0	<1.0	<1.0	7.87	88.76
	11/16/2015	<1.0	<1.0	<1.0	<1.0	8.04	88.59
	2/16/2016	<1.0	<1.0	<1.0	<1.0	6.88	89.75
	5/10/2016	<1.0	<1.0	<1.0	<1.0	5.00	91.63
	8/9/2016	<1.00	<1.00	<1.00	<1.00	5.60	91.03
	11/4/2016	<1.00	<1.00	<1.00	<1.00	6.01	90.60
	2/6/2017	<1.00	<1.00	<1.00	<1.00	5.92	90.69
	5/15/2017	<1.00	<1.00	<1.00	<1.00	5.95	90.66
	8/18/2017	<1.00	<1.00	<1.00	<1.00	6.03	90.58
	11/17/2017	<1.00	<1.00	<1.00	<1.00	6.85	89.76
	2/23/2018	<1.00	<1.00	<1.00	<1.00	6.01	90.60
	5/9/2018	<1.00	<1.00	<1.00	<1.00	5.88	90.73
	8/24/2018	<1.00	<1.00	<1.00	<1.00	6.25	90.36
	11/5/2018	<1.00	<1.00	<1.00	<1.00	6.24	90.37
MW16	1/23/2009	<1.0	<1.0	<1.0	<1.0	4.78	NA
	2/17/2009	<1.0	<1.0	<1.0	<1.0	4.85	NA
	5/15/2009	<1.0	<1.0	<1.0	<1.0	3.95	NA
	8/26/2009	6.3	<1.0	76	3.8	5.72	NA
	11/18/2009	<1.0	<1.0	<1.0	<1.0	5.52	NA
	2/4/2010	<1.0	<1.0	<1.0	<1.0	5.54	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	5/19/2010	<1.0	<1.0	1	<1.0	3.19	NA
	8/13/2010	<1.0	<1.0	8.8	<1.0	4.25	NA
	11/11/2010	<1.0	<1.0	5.6	<1.0	4.75	NA
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.64	NA
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.69	NA
	8/19/2011	1.7	<1.0	4.8	3.6	5.58	NA
	11/19/2011	<1.0	<1.0	<1.0	<1.0	5.21	NA
	2/17/2012	<1.0	<1.0	<1.0	<1.0	4.28	NA
	5/21/2012	<1.0	<1.0	<1.0	<1.0	4.24	NA
	8/21/2012	1.3	<0.88	3.1	24	4.97	NA
	11/29/2012	<1.0	<1.0	<1.0	<1.0	4.51	NA
	2/28/2013	<1.0	<1.0	<1.0	<1.0	4.62	NA
	5/13/2013	<1.0	<1.0	<1.0	<1.0	3.11	NA
	8/29/2013	<1.0	<1.0	<1.0	3.4	5.39	NA
	11/7/2013	<1.0	<1.0	<1.0	<1.0	3.85	NA
	2/18/2014	<1.0	<1.0	<1.0	<1.0	NM	NA
	5/13/2014	<1.0	<1.0	<1.0	<1.0	NM	NA
	7/29/2014	<1.0	<1.0	<1.0	7.8	NM	NA
	11/5/2014	<1.0	<1.0	<1.0	4.9	NM	NA
	5/6/2015	<1.0	<1.0	<1.0	<1.0	3.22	90.14
	8/24/2015	1.5	<1.0	1.5	4.3	NM	NA
	11/16/2015	<1.0	<1.0	<1.0	<1.0	NM	NA
	2/16/2016	<1.0	<1.0	<1.0	<1.0	4.35	89.01
	5/10/2016	<1.0	<1.0	<1.0	<1.0	2.55	90.81
	8/9/2016	<1.00	<1.00	<1.00	<1.00	3.29	90.07
	11/4/2016	<1.00	<1.00	<1.00	<1.00	3.70	89.70
	2/6/2017	<1.00	<1.00	<1.00	<1.00	3.56	89.84
	5/15/2017	<1.00	<1.00	<1.00	<1.00	3.65	89.75
	8/18/2017	<1.00	<1.00	<1.00	<1.00	3.54	89.86
	11/17/2017	<1.00	<1.00	<1.00	<1.00	4.33	89.07
	2/23/2018	<1.00	<1.00	<1.00	<1.00	3.56	89.84
	5/9/2018	<1.00	<1.00	<1.00	<1.00	3.34	90.06
	8/24/2018	<1.00	<1.00	2.53	8.16	3.95	89.45
	11/5/2018	<1.00	<1.00	<1.00	<1.00	3.87	89.53
<hr/>							
MW17	1/23/2009	120	<1.0	43	140	4.65	88.52
	2/17/2009	71	<1.0	13	110	4.58	88.44



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	5/15/2009	<1.0	<1.0	<1.0	<1.0	3.47	89.55
	8/26/2009	69	<1.0	29	200	5.35	87.67
	11/18/2009	8.4	<1.0	5.7	17	5.25	87.77
	2/4/2010	86	<1.0	16	11	5.19	87.83
	5/19/2010	330	<1.0	36	23	2.94	90.08
	8/13/2010	76	<1.0	8.8	9	3.98	89.04
	11/11/2010	49	<1.0	5.9	47	4.48	88.54
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.36	88.66
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.47	90.55
	8/19/2011	62	<1.0	2.8	43	5.28	87.74
	11/19/2011	<1.0	<1.0	<1.0	<1.0	4.98	88.04
	2/17/2012	2.2	<1.0	<1.0	<1.0	4.04	88.98
	5/21/2012	<1.0	<1.0	<1.0	<1.0	3.95	89.07
	8/21/2012	1.5	<1.0	<1.0	12	4.55	88.33
	11/29/2012	<1.0	<1.0	<1.0	<1.0	4.12	88.76
	2/28/2013	21	<1.0	<1.0	22	4.22	88.66
	5/13/2013	79	<1.0	35	110	2.76	90.12
	8/29/2013	Inaccessible - Not Sampled				Inaccessible	NA
	11/7/2013	40.1	<1.0	71.4	350	3.48	89.40
	11/18/2013	Surveyed - Not Sampled				3.65	89.39
	2/18/2014	88.4	<1.0	60.2	337	3.27	89.61
	5/13/2014	131	<1.0	62.4	360	2.64	90.40
	7/29/2014	8.2	<1.0	26.3	33.5	4.38	88.66
	11/5/2014	81.8	<1.0	26.4	357	4.31	88.73
	2/18/2015	1.2	<1.0	1	73.7	3.98	89.06
	5/6/2015	68.7	<1.0	22.8	167	3.10	89.94
	8/24/2015	24.3	<1.0	23.3	<1.0	5.54	87.50
	11/16/2015	50.7	<1.0	<1.0	<1.0	5.40	87.64
	2/16/2016	24.6	<1.0	<1.0	<1.0	4.17	88.87
	5/10/2016	10.8	<1.0	<1.0	<1.0	2.40	90.64
	8/9/2016	12.1	<1.00	<1.00	<1.00	3.13	89.91
	11/4/2016	<1.00	<1.00	<1.00	<1.00	3.50	89.57
	2/6/2017	16.5	<1.00	<1.00	<1.00	3.45	89.62
	5/15/2017	38.7	<1.00	<1.00	<1.00	3.50	89.57
	8/18/2017	75.3	<1.00	<1.00	<1.00	3.50	89.57
	11/17/2017	34.1	<1.00	<1.00	<1.00	4.10	88.97
	2/23/2018	21.5	<1.00	<1.00	<1.00	3.42	89.65



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	5/9/2018	<1.00	<1.00	<1.00	<1.00	3.19	89.88
	8/24/2018	12.7	<1.00	<1.00	<1.00	3.72	89.35
	11/5/2018	1.83	<1.00	<1.00	<1.00	3.65	89.42
MW18	2/19/2009	150	<1.0	<1.0	<1.0	NM	NA
	5/15/2009	<1.0	<1.0	<1.0	<1.0	3.60	88.56
	8/26/2009	19	<1.0	<1.0	<1.0	5.50	86.66
	11/18/2009	12	<1.0	<1.0	<1.0	5.10	87.06
	2/4/2010	<1.0	<1.0	<1.0	<1.0	4.97	87.19
	5/19/2010	<1.0	<1.0	<1.0	<1.0	2.77	89.39
	8/13/2010	19	<1.0	<1.0	<1.0	3.98	88.18
	11/11/2010	<1.0	<1.0	<1.0	<1.0	4.39	87.77
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.23	87.93
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.35	89.81
	8/19/2011	14	<1.0	<1.0	<1.0	5.09	87.07
	11/19/2011	<1.0	<1.0	<1.0	<1.0	4.77	87.39
	2/17/2012	<1.0	<1.0	<1.0	<1.0	3.83	88.33
	5/21/2012	<1.0	<1.0	<1.0	<1.0	3.76	88.40
	8/21/2012	<1.0	<1.0	<1.0	<1.0	4.53	87.70
	11/29/2012	<1.0	<1.0	<1.0	<1.0	4.13	88.10
	2/28/2013	<1.0	<1.0	<1.0	<1.0	4.20	88.03
	5/13/2013	6.1	<1.0	<1.0	<1.0	2.78	89.45
	8/29/2013	Inaccessible - Not Sampled				Inaccessible	NA
	11/7/2013	<1.0	<1.0	<1.0	<1.0	3.57	88.72
	11/18/2013	Surveyed - Not Sampled				3.45	88.67
	2/18/2014	3.9	<1.0	4	5.9	3.28	88.95
	5/13/2014	1.2	<1.0	<1.0	<1.0	2.37	89.75
	7/29/2014	1.7	<1.0	<1.0	<1.0	-0.73	92.85
	11/5/2014	<1.0	<1.0	<1.0	<1.0	4.03	88.09
	2/18/2015	<1.0	<1.0	<1.0	<1.0	3.67	88.45
	5/6/2015	15.6	<1.0	<1.0	<1.0	2.70	89.42
	8/24/2015	<1.0	<1.0	<1.0	<1.0	5.46	86.66
	11/16/2015	1.9	<1.0	<1.0	<1.0	5.26	86.86
	2/16/2016	6	<1.0	4.8	4.4	3.97	88.15
	5/10/2016	1.7	<1.0	<1.0	<1.0	2.15	89.97
	8/9/2016	1.15	<1.00	<1.00	<1.00	3.03	89.09
	11/4/2016	<1.00	<1.00	<1.00	<1.00	3.28	88.82



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	2/6/2017	<1.00	<1.00	<1.00	<1.00	3.09	89.01
	5/15/2017	<1.00	<1.00	<1.00	<1.00	3.21	88.89
	8/18/2017	<1.00	<1.00	<1.00	<1.00	3.03	89.07
	11/17/2017	<1.00	<1.00	<1.00	<1.00	3.71	88.39
	2/23/2018	<1.00	<1.00	<1.00	<1.00	3.09	89.01
	5/9/2018	<1.00	<1.00	<1.00	<1.00	2.89	89.21
	8/24/2018	<1.00	<1.00	<1.00	<1.00	3.49	88.61
	11/5/2018	<1.00	<1.00	<1.00	<1.00	3.40	88.70
MW19	2/19/2009	<1.0	1.6	<1.0	<1.0	NM	NA
	5/15/2009	<1.0	<1.0	<1.0	<1.0	3.39	89.04
	8/26/2009	<1.0	<1.0	<1.0	<1.0	5.29	87.14
	11/18/2009	<1.0	<1.0	<1.0	<1.0	5.28	87.15
	2/4/2010	<1.0	<1.0	<1.0	<1.0	5.06	87.37
	5/19/2010	<1.0	<1.0	<1.0	<1.0	2.69	89.56
	8/13/2010	<1.0	<1.0	<1.0	<1.0	4.01	88.42
	11/11/2010	<1.0	<1.0	<1.0	<1.0	4.44	87.99
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.33	88.10
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.51	89.92
	8/19/2011	<1.0	<1.0	<1.0	<1.0	5.18	87.25
	11/19/2011	<1.0	<1.0	<1.0	<1.0	4.80	87.63
	2/17/2012	<1.0	<1.0	<1.0	<1.0	3.89	88.54
	5/21/2012	<1.0	<1.0	<1.0	<1.0	3.38	88.60
	8/21/2012	<1.0	<1.0	<1.0	<1.0	4.35	87.95
	11/29/2012	<1.0	<1.0	<1.0	<1.0	4.06	88.24
	2/28/2013	<1.0	<1.0	<1.0	<1.0	4.13	88.17
	5/13/2013	<1.0	<1.0	<1.0	<1.0	2.68	89.62
	8/28/2013	Removed from monitoring				NM	NA
	11/18/2013	Surveyed - Not Sampled				3.58	88.80
MW20	2/4/2010	<1.0	<1.0	<1.0	<1.0	5.82	NA
	5/19/2010	<1.0	<1.0	<1.0	<1.0	3.71	NA
	8/13/2010	<1.0	<1.0	<1.0	<1.0	4.92	NA
	11/11/2010	<1.0	<1.0	<1.0	<1.0	5.21	NA
	2/16/2011	<1.0	<1.0	<1.0	<1.0	5.11	NA
	5/24/2011	<1.0	<1.0	<1.0	<1.0	3.13	NA
	8/19/2011	<1.0	<1.0	<1.0	<1.0	4.33	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	11/19/2011	<1.0	<1.0	<1.0	<1.0	5.71	NA
	2/17/2012	<1.0	<1.0	<1.0	<1.0	4.92	NA
	MW20 destroyed as of 2/18/2012						
MW20R	8/21/2012	<0.88	<0.88	<0.88	<0.88	6.67	88.00
	11/29/2012	<1.0	<1.0	<1.0	<1.0	6.20	88.47
	2/28/2013	<1.0	<1.0	<1.0	<1.0	6.25	88.42
	5/13/2013	<1.0	<1.0	<1.0	<1.0	4.75	88.92
	8/29/2013	<1.0	<1.0	<1.0	<1.0	6.89	87.78
	11/18/2013	Surveyed - Not Sampled				5.20	89.15
	2/18/2014	<4.0	<4.0	<4.0	<4.0	5.78	89.05
	5/13/2014	<1.0	<1.0	<1.0	<1.0	4.67	90.16
	7/29/2014	<1.0	<1.0	<1.0	<1.0	6.18	88.65
	11/5/2014	<1.0	<1.0	<1.0	<1.0	6.41	88.42
	2/18/2015	<1.0	<1.0	<1.0	<1.0	6.05	88.78
	5/6/2015	<1.0	<1.0	<1.0	<1.0	5.13	89.70
	8/24/2015	<1.0	<1.0	<1.0	<1.0	7.35	87.48
	11/16/2015	<1.0	<1.0	<1.0	<1.0	7.50	87.33
	2/16/2016	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	5/10/2016	<1.0	<1.0	<1.0	<1.0	4.39	90.44
	8/9/2016	<1.00	<1.00	<1.00	<1.00	5.09	89.74
	11/4/2016	<1.00	<1.00	<1.00	<1.00	5.52	89.31
	2/6/2017	<1.00	<1.00	<1.00	<1.00	5.42	89.41
	5/15/2017	<1.00	<1.00	<1.00	<1.00	5.48	89.35
	8/18/2017	<1.00	<1.00	<1.00	<1.00	5.47	89.36
	11/17/2017	<1.00	<1.00	<1.00	<1.00	6.12	88.71
	2/23/2018	Not Found - Not Sampled				NM	NA
	5/9/2018	Not Found - Not Sampled				NM	NA
	8/24/2018	<1.00	<1.00	<1.00	<1.00	5.71	89.12
	11/5/2018	<1.00	<1.00	<1.00	<1.00	5.69	89.14
MW21	2/4/2010	<1.0	<1.0	<1.0	<1.0	5.47	NA
	5/19/2010	<1.0	<1.0	<1.0	<1.0	3.28	NA
	8/13/2010	<1.0	<1.0	<1.0	<1.0	4.30	NA
	11/11/2010	<1.0	<1.0	<1.0	<1.0	4.84	NA
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.75	NA
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.75	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	8/19/2011	<1.0	<1.0	<1.0	<1.0	6.65	NA
	11/19/2011	<1.0	<1.0	<1.0	<1.0	5.29	NA
	2/17/2012	<1.0	<1.0	<1.0	<1.0	4.38	NA
	MW21 destroyed as of 2/18/2012						
MW21R	8/21/2012	<1.0	<1.0	<1.0	<1.0	4.75	88.51
	11/29/2012	<1.0	<1.0	<1.0	<1.0	4.24	89.02
	2/28/2013	<1.0	<1.0	<1.0	<1.0	4.25	89.01
	5/13/2013	<1.0	<1.0	<1.0	<1.0	2.81	90.45
	8/29/2013	<1.0	<1.0	<1.0	<1.0	5.10	88.16
	11/7/2013	<1.0	<1.0	<1.0	<1.0	3.53	89.73
	11/18/2013	Surveyed - Not Sampled				3.69	89.70
	2/18/2014	<1.0	<1.0	<1.0	<1.0	3.36	89.90
	5/13/2014	<1.0	<1.0	<1.0	<1.0	2.59	90.80
	7/29/2014	<1.0	<1.0	<1.0	<1.0	4.31	89.08
	11/5/2014	<1.0	<1.0	<1.0	<1.0	3.32	90.07
	2/18/2015	<1.0	<1.0	<1.0	<1.0	4.03	89.36
	5/6/2015	<1.0	<1.0	<1.0	<1.0	3.13	90.26
	8/24/2015	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	11/16/2015	<1.0	<1.0	<1.0	<1.0	5.54	87.85
	2/16/2016	<1.0	<1.0	<1.0	<1.0	4.32	89.07
	5/10/2016	<1.0	<1.0	<1.0	<1.0	2.42	90.97
	8/9/2016	<1.00	<1.00	<1.00	<1.00	3.15	90.24
	11/4/2016	<1.00	<1.00	<1.00	<1.00	3.45	89.84
	2/6/2017	<1.00	<1.00	<1.00	<1.00	3.36	89.93
	5/15/2017	<1.00	<1.00	<1.00	<1.00	3.38	89.91
	8/18/2017	<1.00	<1.00	<1.00	<1.00	3.41	89.88
	11/17/2017	<1.00	<1.00	<1.00	<1.00	3.99	89.30
	2/23/2018	<1.00	<1.00	<1.00	<1.00	3.34	89.95
	5/18/2018	<1.00	<1.00	<1.00	<1.00	2.73	90.56
	8/24/2018	<1.00	<1.00	<1.00	<1.00	3.70	89.59
	11/5/2018	<1.00	<1.00	<1.00	<1.00	3.61	89.68
MW22	2/4/2010	<1.0	<1.0	<1.0	<1.0	5.35	87.85
	5/19/2010	<1.0	<1.0	<1.0	<1.0	3.20	90.00
	8/13/2010	<1.0	<1.0	<1.0	<1.0	4.31	88.89
	11/11/2010	<1.0	<1.0	<1.0	<1.0	4.78	88.42



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.67	88.53
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.71	90.49
	8/19/2011	<1.0	<1.0	<1.0	<1.0	5.57	87.63
	11/19/2011	<1.0	<1.0	<1.0	<1.0	5.16	88.04
	2/17/2012	<1.0	<1.0	<1.0	<1.0	4.28	88.92
	5/21/2012	<1.0	<1.0	<1.0	<1.0	4.25	88.95
	8/21/2012	<1.0	<1.0	<1.0	<1.0	4.95	88.15
	11/29/2012	<1.0	<1.0	<1.0	<1.0	4.42	88.68
	2/28/2013	<1.0	<1.0	<1.0	<1.0	4.50	88.60
	5/13/2013	<1.0	<1.0	<1.0	<1.0	2.99	90.11
	8/29/2013	Inaccessible - Not Sampled				Inaccessible	NA
	11/7/2013	<1.0	<1.0	<1.0	<1.0	3.70	90.55
	11/18/2013	Surveyed - Not Sampled				3.86	89.11
	2/18/2014	<1.0	<1.0	<1.0	<1.0	4.86	89.39
	5/13/2014	<1.0	<1.0	<1.0	<1.0	2.75	90.22
	7/29/2014	<1.0	<1.0	<1.0	<1.0	4.61	88.36
	11/5/2014	<1.0	<1.0	<1.0	<1.0	3.46	89.51
	2/18/2015	<1.0	<1.0	<1.0	<1.0	4.26	NA
	5/6/2015	<1.0	<1.0	<1.0	<1.0	3.27	NA
	8/24/2015	<1.0	<1.0	<1.0	<1.0	5.91	NA
	11/16/2015	<1.0	<1.0	<1.0	<1.0	5.77	NA
	2/16/2016	<1.0	<1.0	<1.0	<1.0	4.48	NA
	5/10/2016	<1.0	<1.0	<1.0	<1.0	2.65	NA
	8/9/2016	<1.00	<1.00	<1.00	<1.00	3.50	NA
	11/4/2016	<1.00	<1.00	<1.00	<1.00	3.69	NA
	2/6/2017	<1.00	<1.00	<1.00	<1.00	3.58	NA
	5/15/2017	<1.00	<1.00	<1.00	<1.00	3.54	NA
	8/18/2017	<1.00	<1.00	<1.00	<1.00	3.54	NA
	11/17/2017	<1.00	<1.00	<1.00	<1.00	4.26	NA
	2/23/2018	<1.00	<1.00	<1.00	<1.00	3.48	NA
	5/18/2018	<1.00	<1.00	<1.00	<1.00	2.86	NA
	8/24/2018	<1.00	<1.00	<1.00	<1.00	3.91	NA
	11/5/2018	<1.00	<1.00	<1.00	<1.00	3.87	NA
<hr/>							
MW23	2/4/2010	<1.0	<1.0	<1.0	<1.0	5.35	86.60
	5/19/2010	<1.0	<1.0	<1.0	<1.0	3.01	89.14
	8/13/2010	<1.0	<1.0	<1.0	<1.0	4.39	87.76



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	11/11/2010	<1.0	<1.0	<1.0	<1.0	4.74	87.41
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.60	87.55
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.71	89.44
	8/19/2011	<1.0	<1.0	<1.0	<1.0	5.48	86.67
	11/19/2011	<1.0	<1.0	<1.0	<1.0	5.03	87.12
	2/17/2012	<1.0	<1.0	<1.0	<1.0	4.20	87.95
	5/21/2012	<1.0	<1.0	<1.0	<1.0	4.17	87.98
	8/21/2012	<1.0	<1.0	<1.0	<1.0	4.65	87.37
	11/29/2012	<1.0	<1.0	<1.0	<1.0	4.27	87.75
	2/28/2013	<1.0	<1.0	<1.0	<1.0	4.42	87.60
	5/13/2013	<1.0	<1.0	<1.0	<1.0	2.90	89.12
	8/28/2013	Removed from monitoring				NM	NA
	11/18/2013	Surveyed - Not Sampled				3.71	88.30
MW24	2/4/2010	<1.0	<1.0	<1.0	<1.0	4.90	86.72
	5/19/2010	<1.0	<1.0	<1.0	<1.0	3.68	87.94
	8/13/2010	<1.0	<1.0	<1.0	<1.0	4.07	87.55
	11/11/2010	Not Found - Not Sampled				Not Found	NA
	2/16/2011	<1.0	<1.0	<1.0	<1.0	4.27	87.36
	5/24/2011	<1.0	<1.0	<1.0	<1.0	2.46	89.17
	8/19/2011	<1.0	<1.0	<1.0	<1.0	5.03	86.60
	11/19/2011	<1.0	<1.0	<1.0	<1.0	4.73	86.90
	2/17/2012	<1.0	<1.0	<1.0	<1.0	3.86	87.77
	5/21/2012	<1.0	<1.0	<1.0	<1.0	3.84	87.79
	8/21/2012	<1.0	<1.0	<1.0	<1.0	4.20	87.19
	11/29/2012	<1.0	<1.0	<1.0	<1.0	3.82	87.57
	2/28/2013	<1.0	<1.0	<1.0	<1.0	3.93	87.46
	5/13/2013	<1.0	<1.0	<1.0	<1.0	2.46	88.93
	8/28/2013	Removed from monitoring				NM	NA
	11/18/2013	Surveyed - Not Sampled				3.33	88.10
MW25	2/18/2015	<1.0	<1.0	<1.0	<1.0	6.83	NA
	5/6/2015	<1.0	<1.0	<1.0	<1.0	5.88	NA
	8/24/2015	<1.0	<1.0	<1.0	<1.0	8.49	NA
	11/16/2015	<1.0	<1.0	2.3	<1.0	8.26	NA
	2/16/2016	<1.0	<1.0	<1.0	<1.0	7.07	NA
	5/10/2016	<1.0	<1.0	<1.0	<1.0	5.27	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-AVERY 10-27A, HSR-SAVUL 15-27, HSR-TUTEUR 9-27A
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)
	8/9/2016	<1.00	<1.00	<1.00	<1.00	6.02	NA
	11/4/2016	<1.00	<1.00	<1.00	<1.00	3.40	NA
	2/6/2017	<1.00	<1.00	<1.00	<1.00	3.29	NA
	5/15/2017	<1.00	<1.00	<1.00	<1.00	3.32	NA
	8/18/2017	<1.00	<1.00	<1.00	<1.00	3.27	NA
	11/17/2017	<1.00	<1.00	<1.00	<1.00	3.96	NA
	2/23/2018	<1.00	<1.00	<1.00	<1.00	3.24	NA
	5/18/2018	<1.00	<1.00	<1.00	<1.00	2.65	NA
	8/24/2018	<1.00	<1.00	<1.00	<1.00	3.60	NA
	11/5/2018	<1.00	<1.00	<1.00	<1.00	3.56	NA
COGCC Allowable Levels		5	1000	700	1400		

Notes: COGCC - Colorado Oil and Gas Conservation Commission

ft bgs - feet below ground surface

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



March 01, 2018

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Avery 10-27A, Savul 15-27, Tuteur 9-27A Project Number - KMG07341/WO #88013:

Attached are your analytical results for KMG - Avery 10-27A, Savul 15-27, Tuteur 9-27A received by Origins Laboratory, Inc. February 23, 2018. This project is associated with Origins project number Y802309-01.

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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01R	Y802309-01	Water	February 23, 2018 10:30	02/23/2018 15:50
MW03R	Y802309-02	Water	February 23, 2018 10:35	02/23/2018 15:50
MW04R	Y802309-03	Water	February 23, 2018 10:40	02/23/2018 15:50
MW07R	Y802309-04	Water	February 23, 2018 10:50	02/23/2018 15:50
MW08R	Y802309-05	Water	February 23, 2018 10:55	02/23/2018 15:50
MW10R	Y802309-06	Water	February 23, 2018 11:00	02/23/2018 15:50
MW11R	Y802309-07	Water	February 23, 2018 11:05	02/23/2018 15:50
MW13R	Y802309-08	Water	February 23, 2018 11:10	02/23/2018 15:50
MW14R	Y802309-09	Water	February 23, 2018 11:15	02/23/2018 15:50
MW15R	Y802309-10	Water	February 23, 2018 11:20	02/23/2018 15:50
MW16	Y802309-11	Water	February 23, 2018 11:25	02/23/2018 15:50
MW17	Y802309-12	Water	February 23, 2018 11:30	02/23/2018 15:50
MW18	Y802309-13	Water	February 23, 2018 11:35	02/23/2018 15:50
MW21R	Y802309-14	Water	February 23, 2018 11:45	02/23/2018 15:50

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: KMG07341/WO #88013337

Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW22	Y802309-15	Water	February 23, 2018 11:50	02/23/2018 15:50
MW25	Y802309-16	Water	February 23, 2018 11:55	02/23/2018 15:50

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

ORIGINS
LABORATORY, INC

Y402309

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

Client: LT Environmental, Inc.		Project Manager: Brian Sulzberger		Project Number: KMG07341/WO #88013337	
Project: KMG - Avery 10-27A, Savul 15-27, Tuteur 9-		Sample Date		Sample Time	
Number	Sample Identification	Matrix	Sample Date	Sample Time	Analyses
01-001	MM01R	Water	2-23-18	1030	3 BTEX by EPA 8260C Filter sample
02-001	MM03R	Water	2-23-18	1035	3 BTEX by EPA 8260C Filter sample
03-001	MM04R	Water	2-23-18	1040	3 BTEX by EPA 8260C Filter sample
04-001	MM06R2	Water	2-23-18	1050	3 BTEX by EPA 8260C Filter sample
05-001	MM07R	Water	2-23-18	1055	3 BTEX by EPA 8260C Filter sample
06-001	MM08R	Water	2-23-18	1100	3 BTEX by EPA 8260C Filter sample
07-001	MM10R	Water	2-23-18	1105	3 BTEX by EPA 8260C Filter sample
08-001	MM11R	Water	2-23-18	1110	3 BTEX by EPA 8260C Filter sample
09-001	MM13R	Water	2-23-18	1115	3 BTEX by EPA 8260C Filter sample
10-001	MM14R	Water	2-23-18	1120	3 BTEX by EPA 8260C Filter sample
11-001	MM15R	Water	2-23-18	1120	3 BTEX by EPA 8260C Filter sample

Temperature on Receipt: 5.8
Turn Around Time: 72-hr ☒ 24-hr ☐ 48-hr ☐

Relinquished By: Date / Time
Received By: Date / Time

Relinquished By: 2-23-18 1550
Received By: 2-23-18 1550

Origins Laboratory, Inc.

Jefe Pellegrini

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: KMG07341/WO #88013337

Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

ORIGINS

LABORATORY, INC

1725 Elk Place, Denver, CO 80211

Laboratory # - 303.433.1322

12-001	MW16	Water	2-23-18	1125	DA	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C	Filter sample
13-001	MW17	Water	↓	1130	↓	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C	Filter sample
14-001	MW18	Water	↓	1135	↓	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C	Filter sample
15-001	MW20R	Water	—	—	—	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C	Filter sample
16-001	MW21R	Water	2-23-18	1145	DA	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C	Filter sample
17-001	MW22	Water	↓	1150	↓	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C	Filter sample
18-001	MW25	Water	↓	1155	↓	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C	Filter sample

Temperature on Receipt: 5.9
Turn Around Time:
Same Day: ☐ 72-hr: ☒
24-hr: ☐ Standard
48-hr: ☐

Relinquished By _____ Date / Time _____

Received By _____ Date / Time _____

Relinquished By: *Debra Mathis* 2-23-18 1530
Date / Time: 2-23-18 1530
Received By: _____ Date / Time _____

Origins Laboratory, Inc.

Jefe Pellegrini

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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y802309

Client: LTE

Client Project ID: KMG-Avery 10-27A, Savul 15-27, Tuteur 9-27A

Checklist Completed by: JG

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

Date/time completed: 2/26/18

Airbill #: N/A

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

Cooler Number/Temperature: 115.8 °C 1 °C 1 °C 1 °C (Describe)

Thermometer ID: T003

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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 (Project Manager) JP

Date/Time Reviewed 2/27/18

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW01R

2/23/2018 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y802309-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8B2802	02/28/2018	02/28/2018	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	99.9 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW03R

2/23/2018 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y802309-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8B2802	02/28/2018	02/28/2018	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	98.7 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW04R

2/23/2018 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y802309-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8B2802	02/28/2018	02/28/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW07R

2/23/2018 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y802309-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8B2802	02/28/2018	02/28/2018	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	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.3 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW08R

2/23/2018 10:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y802309-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8B2802	02/28/2018	02/28/2018	U
Toluene	9.21	1.00	"	"	"	"	"	
Ethylbenzene	30.1	1.00	"	"	"	"	"	
Xylenes, total	263	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW10R

2/23/2018 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y802309-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8B2802	02/28/2018	02/28/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW11R

2/23/2018 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y802309-07 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8B2802	02/28/2018	02/28/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.5 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.6 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW13R

2/23/2018 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y802309-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8B2802	02/28/2018	02/28/2018	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	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.3 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW14R

2/23/2018 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y802309-09 (Water)

BTEX by EPA 8260C

Benzene	1.53	1.00	ug/L	1	B8B2802	02/28/2018	02/28/2018	
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	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW15R

2/23/2018 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y802309-10 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8B2802	02/28/2018	02/28/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.9 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW16

2/23/2018 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y802309-11 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8B2802	02/28/2018	02/28/2018	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	99.9 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.3 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW17

2/23/2018 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y802309-12 (Water)

BTEX by EPA 8260C

Benzene	21.5	1.00	ug/L	1	B8B2802	02/28/2018	02/28/2018	
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	99.2 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.3 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW18

2/23/2018 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y802309-13 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8B2802	02/28/2018	02/28/2018	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	99.7 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.9 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW21R

2/23/2018 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y802309-14 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8B2802	02/28/2018	02/28/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121			"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW22

2/23/2018 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y802309-15 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8B2802	02/28/2018	02/28/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW25

2/23/2018 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y802309-16 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8B2802	02/28/2018	02/28/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

105 % 84-121
101 % 85-115
99.6 % 84-114

" " "
" " "
" " "

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B8B2802 - EPA 5030B (Water)										
Blank (B8B2802-BLK1)					Prepared: 02/28/2018 Analyzed: 02/28/2018					
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	65		"	62.5	104		84-121			
Surrogate: Toluene-d8	62		"	62.5	99.8		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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B8B2802 - EPA 5030B (Water)										
LCS (B8B2802-BS1)					Prepared: 02/28/2018 Analyzed: 02/28/2018					
Benzene	45.7	1.00	ug/L	50.0		91.4	73.3-129			
Toluene	45.0	1.00	"	50.0		90.1	76.2-123			
Ethylbenzene	45.4	1.00	"	50.0		90.7	73.6-130			
m,p-Xylene	89.8	2.00	"	100		89.8	76.1-126			
o-Xylene	45.8	1.00	"	50.0		91.6	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B8B2802 - EPA 5030B (Water)

Matrix Spike (B8B2802-MS1)		Source: Y802318-01			Prepared: 02/28/2018 Analyzed: 02/28/2018					
Benzene	50.6	1.00	ug/L	50.0	ND	101	74-130			
Toluene	50.2	1.00	"	50.0	ND	100	73-131			
Ethylbenzene	50.1	1.00	"	50.0	ND	100	76-132			
m,p-Xylene	99.3	2.00	"	100	ND	99.3	69-139			
o-Xylene	49.3	1.00	"	50.0	ND	98.6	74-131			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.7	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.2	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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B8B2802 - EPA 5030B (Water)

Matrix Spike Dup (B8B2802-MSD1)		Source: Y802318-01			Prepared: 02/28/2018 Analyzed: 02/28/2018					
Benzene	52.6	1.00	ug/L	50.0	ND	105	74-130	3.78	20	
Toluene	51.2	1.00	"	50.0	ND	102	73-131	1.99	20	
Ethylbenzene	52.2	1.00	"	50.0	ND	104	76-132	4.20	20	
m,p-Xylene	104	2.00	"	100	ND	104	69-139	4.38	20	
o-Xylene	51.2	1.00	"	50.0	ND	102	74-131	3.86	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		93.8	84-121			
Surrogate: Toluene-d8	63		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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.



May 15, 2018

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Avery 10-27A, Savul 15-27, Tuteur 9-27A **Project Number - KMG07341/WO #88013**

Attached are your analytical results for KMG - Avery 10-27A, Savul 15-27, Tuteur 9-27A received by Origins Laboratory, Inc. May 09, 2018. This project is associated with Origins project number Y805156-01.

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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01R	Y805156-01	Water	May 9, 2018 11:00	05/09/2018 15:30
MW03R	Y805156-02	Water	May 9, 2018 11:05	05/09/2018 15:30
MW04R	Y805156-03	Water	May 9, 2018 11:10	05/09/2018 15:30
MW06R2	Y805156-04	Water	May 9, 2018 11:15	05/09/2018 15:30
MW07R	Y805156-05	Water	May 9, 2018 11:20	05/09/2018 15:30
MW08R	Y805156-06	Water	May 9, 2018 11:25	05/09/2018 15:30
MW10R	Y805156-07	Water	May 9, 2018 11:30	05/09/2018 15:30
MW11R	Y805156-08	Water	May 9, 2018 11:35	05/09/2018 15:30
MW13R	Y805156-09	Water	May 9, 2018 11:40	05/09/2018 15:30
MW14R	Y805156-10	Water	May 9, 2018 11:45	05/09/2018 15:30
MW15R	Y805156-11	Water	May 9, 2018 11:50	05/09/2018 15:30
MW16	Y805156-12	Water	May 9, 2018 11:55	05/09/2018 15:30
MW17	Y805156-13	Water	May 9, 2018 12:00	05/09/2018 15:30
MW18	Y805156-14	Water	May 9, 2018 12:05	05/09/2018 15:30

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW21R	Y805156-16	Water	May 9, 2018 12:15	05/09/2018 15:30
MW22	Y805156-17	Water	May 9, 2018 12:20	05/09/2018 15:30
MW25	Y805156-18	Water	May 9, 2018 12:25	05/09/2018 15:30

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

ORIGINS
LABORATORY, INC

1405156

1572

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

Client:	LT Environmental, Inc.	Project Manager:	Brian Sulzberger
Project:	KMG - Avery 10-27A, Savul 15-27, Tuteur 9-27A	Project Number:	KMG07341/WO #88013337

Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analysis
01-001	MM01R	Water	5/9/17	1100	F0	01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C Filter sample
02-001	MM03R	Water		1105		01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C Filter sample
03-001	MM04R	Water		1110		01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C Filter sample
04-001	MM06R2	Water		1113		01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C Filter sample
05-001	MM07R	Water		1120		01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C Filter sample
06-001	MM08R	Water		1125		01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C Filter sample
07-001	MM10R	Water		1130		01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C Filter sample
08-001	MM11R	Water		1135		01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C Filter sample
09-001	MM13R	Water		1140		01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C Filter sample
10-001	MM14R	Water		1145		01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C Filter sample
11-001	MM15R	Water		1150		01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C Filter sample

Temperature on Receipt:

Turn Around Time:

Same Day: ☐

24-hr: ☐

48-hr: ☒

Date / Time: 5/9/18 1530

Date / Time: 210°

Relinquished By: [Signature]

Received By: [Signature]

Date / Time: 5/9/18

Date / Time:

Relinquished By: [Signature]

Received By: [Signature]

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

ORIGINS
LABORATORY, INC



Y805156

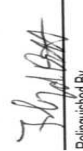
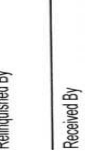
1725 Elk Place, Denver, CO 80211
Laboratory # - 303.433.1322

12-001	MM16	Water	5/9/17	1155	F0	01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C	Filter sample
13-001	MM17	Water		1200		01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C	Filter sample
14-001	MM18	Water		1205		01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C	Filter sample
15-001	MM20R	Water		1210		01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C	Filter sample
16-001	MM21R	Water		1215		01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C	Filter sample
17-001	MM22	Water		1220		01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C	Filter sample
18-001	MM25	Water		1235		01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C	Filter sample

5/9/18

Temperature on Receipt:
Turn Around Time:
Same Day: ☐ 72-hr: ☒
24-hr: ☐ Standard: ☐
48-hr: ☐

Requisitioned By:  Date / Time: 5/9/18 1530
Received By:  Date / Time: 5/9/18 1700

Requisitioned By:  Date / Time: 5/9/18
Received By:  Date / Time: 5/9/18

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y805156

Client: LTE

Client Project ID: KMG - Avery 10-27A, Savul 15-27,

Checklist Completed by: JG

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 5/10/2018

Airbill #: N/A

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

(Describe)

Cooler Number/Temperature: 1 / 21.0 °C / °C / °C / °C

Thermometer ID: T003

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"/>		<u>Same Day Sample</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" 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 checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			<u>did not receive mw20R</u>
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" 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 checked="" type="checkbox"/>		
Additional Comments (if any): <u>Per the email from Andy on 5/10/18, mw20R will be removed from the COC. gjo</u> <u>5/11/18</u>				

⁽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 (Project Manager) JG

Date/Time Reviewed 5/11/18

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW01R

5/9/2018 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y805156-01 (Water)

BTEX by EPA 8260C

Benzene	14.3	1.00	ug/L	1	B8E1101	05/11/2018	05/13/2018	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	97.8 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.9 %	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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW03R

5/9/2018 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y805156-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8E1101	05/11/2018	05/13/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.4 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.9 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.1 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW04R

5/9/2018 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y805156-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8E1101	05/11/2018	05/11/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.7 %	84-121			"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW06R2

5/9/2018 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805156-04 (Water)

BTEX by EPA 8260C

Benzene	1.18	1.00	ug/L	1	B8E1101	05/11/2018	05/11/2018	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	90.7 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.4 %	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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW07R

5/9/2018 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y805156-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8E1101	05/11/2018	05/11/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.7 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.8 %	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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW08R

5/9/2018 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y805156-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8E1101	05/11/2018	05/11/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.9 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW10R
5/9/2018 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805156-07 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8E1101	05/11/2018	05/11/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.9 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.3 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW11R
5/9/2018 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805156-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8E1101	05/11/2018	05/11/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.1 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.6 %	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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW13R
5/9/2018 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805156-09 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8E1101	05/11/2018	05/11/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.1 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.5 %	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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW14R

5/9/2018 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y805156-10 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8E1101	05/11/2018	05/11/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.5 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.3 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	84-114			"	"	"	

Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW15R
5/9/2018 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805156-11 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8E1101	05/11/2018	05/11/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.6 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.9 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW16
5/9/2018 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805156-12 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8E1101	05/11/2018	05/11/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.4 %	84-121			"	"	"	
Surrogate: Toluene-d8	100 %	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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW17
5/9/2018 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805156-13 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8E1101	05/11/2018	05/11/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.3 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.0 %	84-114			"	"	"	

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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW18
5/9/2018 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805156-14 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8E1101	05/11/2018	05/11/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.2 %	84-121			"	"	"	
Surrogate: Toluene-d8	94.4 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	115 %	84-114			"	"	" S-07	

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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW21R
5/9/2018 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805156-16 (Water)

BTEX by EPA 8260C

Benzene	61.7	1.00	ug/L	1	B8E1101	05/11/2018	05/11/2018	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	86.1 %	84-121			"	"	"	
Surrogate: Toluene-d8	97.8 %	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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW22
5/9/2018 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805156-17 (Water)

BTEX by EPA 8260C

Benzene	49.3	1.00	ug/L	1	B8E1101	05/11/2018	05/13/2018	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	99.3 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW25
5/9/2018 12:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805156-18 (Water)

BTEX by EPA 8260C

Benzene	47.8	1.00	ug/L	1	B8E1101	05/11/2018	05/13/2018	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	98.6 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.5 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B8E1101 - EPA 5030B (Water)										
Blank (B8E1101-BLK1)					Prepared: 05/11/2018 Analyzed: 05/11/2018					
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	58		"	62.5	92.2		84-121			
Surrogate: Toluene-d8	62		"	62.5	99.8		85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5	103		84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B8E1101 - EPA 5030B (Water)										
Blank (B8E1101-BLK2)					Prepared: 05/11/2018 Analyzed: 05/11/2018					
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	58		"	62.5	92.4		84-121			
Surrogate: Toluene-d8	63		"	62.5	101		85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5	103		84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B8E1101 - EPA 5030B (Water)										
LCS (B8E1101-BS1)					Prepared: 05/11/2018 Analyzed: 05/11/2018					
Benzene	48.7	1.00	ug/L	50.0		97.4	73.3-129			
Toluene	51.4	1.00	"	50.0		103	76.2-123			
Ethylbenzene	52.2	1.00	"	50.0		104	73.6-130			
m,p-Xylene	105	2.00	"	100		105	76.1-126			
o-Xylene	51.4	1.00	"	50.0		103	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.2	84-121			
Surrogate: Toluene-d8	61		"	62.5		98.4	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B8E1101 - EPA 5030B (Water)

LCS (B8E1101-BS2)

Prepared: 05/11/2018 Analyzed: 05/11/2018

Benzene	49.6	1.00	ug/L	50.0		99.2	73.3-129			
Toluene	59.0	1.00	"	50.0		118	76.2-123			
Ethylbenzene	54.2	1.00	"	50.0		108	73.6-130			
m,p-Xylene	109	2.00	"	100		109	76.1-126			
o-Xylene	53.3	1.00	"	50.0		107	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.7	84-121			
Surrogate: Toluene-d8	68		"	62.5		109	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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B8E1101 - EPA 5030B (Water)

Matrix Spike (B8E1101-MS1)		Source: Y805157-02			Prepared: 05/11/2018 Analyzed: 05/11/2018					
Benzene	48.0	1.00	ug/L	50.0	ND	96.0	74-130			
Toluene	51.8	1.00	"	50.0	ND	104	73-131			
Ethylbenzene	53.0	1.00	"	50.0	ND	106	76-132			QM-07
m,p-Xylene	105	2.00	"	100	ND	105	69-139			
o-Xylene	50.2	1.00	"	50.0	ND	100	74-131			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.9	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B8E1101 - EPA 5030B (Water)

Matrix Spike (B8E1101-MS2)		Source: Y805157-03			Prepared: 05/11/2018 Analyzed: 05/11/2018					
Benzene	48.0	1.00	ug/L	50.0	ND	96.0	74-130			
Toluene	45.7	1.00	"	50.0	ND	91.5	73-131			
Ethylbenzene	52.2	1.00	"	50.0	ND	104	76-132			
m,p-Xylene	103	2.00	"	100	ND	103	69-139			
o-Xylene	50.0	1.00	"	50.0	ND	100	74-131			
Surrogate: 1,2-Dichloroethane-d4	52		"	62.5		83.1	84-121			S-04
Surrogate: Toluene-d8	56		"	62.5		89.6	85-115			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	84-114			

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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B8E1101 - EPA 5030B (Water)

Matrix Spike Dup (B8E1101-MSD1)		Source: Y805157-02			Prepared: 05/11/2018 Analyzed: 05/11/2018					
Benzene	48.7	1.00	ug/L	50.0	ND	97.4	74-130	1.45	20	
Toluene	51.2	1.00	"	50.0	ND	102	73-131	1.09	20	
Ethylbenzene	53.2	1.00	"	50.0	ND	106	76-132	0.471	20	QM-07
m,p-Xylene	105	2.00	"	100	ND	105	69-139	0.447	20	
o-Xylene	50.9	1.00	"	50.0	ND	102	74-131	1.27	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.6	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B8E1101 - EPA 5030B (Water)										
Matrix Spike Dup (B8E1101-MSD2)	Source: Y805157-03				Prepared: 05/11/2018 Analyzed: 05/11/2018					
Benzene	44.6	1.00	ug/L	50.0	ND	89.2	74-130	7.30	20	
Toluene	47.1	1.00	"	50.0	ND	94.2	73-131	2.93	20	
Ethylbenzene	47.1	1.00	"	50.0	ND	94.1	76-132	10.3	20	
m,p-Xylene	97.1	2.00	"	100	ND	97.1	69-139	6.12	20	
o-Xylene	49.8	1.00	"	50.0	ND	99.6	74-131	0.401	20	
Surrogate: 1,2-Dichloroethane-d4	52		"	62.5		83.5	84-121			S-04
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	69		"	62.5		110	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

Notes and Definitions

- U Sample is Non-Detect.
- S-07 High surrogate in sample, however sample is non-detect. High surrogate indicates result values are biased high.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported at a wet weight basis.

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.



May 22, 2018

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - HSR Avery 10-27A

Project Number - KMG 07341

Attached are your analytical results for KMG - HSR Avery 10-27A received by Origins Laboratory, Inc. May 18, 2018. This project is associated with Origins project number Y805285-01.

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



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

Brian Sulzberger
Project Number: KMG 07341
Project: KMG - HSR Avery 10-27A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW21R	Y805285-01	Water	May 18, 2018 9:20	05/18/2018 15:00
MW22	Y805285-02	Water	May 18, 2018 9:30	05/18/2018 15:00
MW25	Y805285-03	Water	May 18, 2018 9:38	05/18/2018 15:00

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: KMG 07341
Project: KMG - HSR Avery 10-27A

www.originslaboratory.com

1805285

ORIGINS
LABORATORY, INC

page 1 of 1

Client: LT Environmental
Address:
Project Manager: Brian Sulzberger
Project Name: HSR-Avery 10-27A
Project Number: KMG 07341 / WO # 88013337
Samples Collected By: Glean Thompson
Telephone Number:
Email Address: KMG Team

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #			
NW21R	5/18/18	920	3		X				X			72 HR TAT	1
NW22	5/18/18	930	3		X				X				2
NW25	5/18/18	938	3		X				X				3
													4
													5
													6
													7
													8
													9
													10
Relinquished By:	Date: 5/18/18	Time: 1500	Time: 1500	Received By:	Date: 5/18/18	Time: 1500	Turnaround Time:	Same Day: <input type="checkbox"/>	24 Hr: <input type="checkbox"/>	48 Hr: <input type="checkbox"/>	72 Hr: <input checked="" type="checkbox"/>		
Relinquished By:	Date:	Time:	Time:	Received By:	Date:	Time:							

Date Results Needed

5.9

Origins Laboratory, Inc.

Jefe Pellegrini

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: KMG 07341
Project: KMG - HSR Avery 10-27A

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y805285

Client: LTE
Client Project ID: KMG-HSR Avery 10-27A

Checklist Completed by: JG
Date/time completed: 5/18/2018

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

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

Cooler Number/Temperature: 1 / 5.9 °C / °C / °C / °C

Thermometer ID: T003

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 (Project Manager) JG

Date/Time Reviewed 5/21/18

Origins Laboratory, Inc.

Jefe Pellegrini

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: KMG 07341
Project: KMG - HSR Avery 10-27A

MW21R

5/18/2018 9:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc. Y805285-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8E1809	05/18/2018	05/21/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.0 %	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: KMG 07341
Project: KMG - HSR Avery 10-27A

MW22

5/18/2018 9:30:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.
Y805285-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8E1809	05/18/2018	05/21/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	92.5 %	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: KMG 07341
Project: KMG - HSR Avery 10-27A

MW25

5/18/2018 9:38:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805285-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8E1809	05/18/2018	05/21/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	84-121			"	"	"
Surrogate: Toluene-d8	101 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	92.2 %	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: KMG 07341
Project: KMG - HSR Avery 10-27A

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 B8E1809 - EPA 5030B (Water)

Blank (B8E1809-BLK1)

Prepared: 05/18/2018 Analyzed: 05/21/2018

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	67		"	62.5	107		84-121			
Surrogate: Toluene-d8	63		"	62.5	101		85-115			
Surrogate: 4-Bromofluorobenzene	58		"	62.5	92.8		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.

Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
Project Number: KMG 07341
Project: KMG - HSR Avery 10-27A

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 B8E1809 - EPA 5030B (Water)

LCS (B8E1809-BS1)

Prepared: 05/18/2018 Analyzed: 05/21/2018

Benzene	52.1	1.00	ug/L	50.0	104	73.3-129
Toluene	52.6	1.00	"	50.0	105	76.2-123
Ethylbenzene	56.2	1.00	"	50.0	112	73.6-130
m,p-Xylene	113	2.00	"	100	113	76.1-126
o-Xylene	56.4	1.00	"	50.0	113	76.6-124
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5	101	84-121
Surrogate: Toluene-d8	64		"	62.5	102	85-115
Surrogate: 4-Bromofluorobenzene	59		"	62.5	93.8	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: KMG 07341
Project: KMG - HSR Avery 10-27A

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 B8E1809 - EPA 5030B (Water)

Matrix Spike (B8E1809-MS1)		Source: Y805256-03			Prepared: 05/18/2018 Analyzed: 05/21/2018					
Benzene	48.2	1.00	ug/L	50.0	ND	96.5	74-130			
Toluene	51.3	1.00	"	50.0	ND	103	73-131			
Ethylbenzene	56.2	1.00	"	50.0	ND	112	76-132			
m,p-Xylene	115	2.00	"	100	0.220	115	69-139			
o-Xylene	49.2	1.00	"	50.0	ND	98.5	74-131			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		103	84-121			
Surrogate: Toluene-d8	67		"	62.5		107	85-115			
Surrogate: 4-Bromofluorobenzene	78		"	62.5		125	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: KMG 07341
Project: KMG - HSR Avery 10-27A

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 B8E1809 - EPA 5030B (Water)

Matrix Spike Dup (B8E1809-MSD1)		Source: Y805256-03			Prepared: 05/18/2018 Analyzed: 05/21/2018					
Benzene	49.0	1.00	ug/L	50.0	ND	97.9	74-130	1.44	20	
Toluene	50.6	1.00	"	50.0	ND	101	73-131	1.53	20	
Ethylbenzene	54.8	1.00	"	50.0	ND	110	76-132	2.57	20	
m,p-Xylene	112	2.00	"	100	0.220	112	69-139	2.61	20	
o-Xylene	55.3	1.00	"	50.0	ND	111	74-131	11.5	20	
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		105	84-121			
Surrogate: Toluene-d8	64		"	62.5		103	85-115			
Surrogate: 4-Bromofluorobenzene	56		"	62.5		90.0	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: KMG 07341
Project: KMG - HSR Avery 10-27A

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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.



August 30, 2018

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Avery 10-27A, Savul 15-27, Tuteur 9-27A **Project Number - KMG07341/WO #88013**

Attached are your analytical results for KMG - Avery 10-27A, Savul 15-27, Tuteur 9-27A received by Origins Laboratory, Inc. August 24, 2018. This project is associated with Origins project number Y808368-01.

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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01R	Y808368-01	Water	August 24, 2018 13:30	08/24/2018 16:15
MW03R	Y808368-02	Water	August 24, 2018 13:35	08/24/2018 16:15
MW04R	Y808368-03	Water	August 24, 2018 13:40	08/24/2018 16:15
MW06R2	Y808368-04	Water	August 24, 2018 13:45	08/24/2018 16:15
MW07R	Y808368-05	Water	August 24, 2018 13:50	08/24/2018 16:15
MW08R	Y808368-06	Water	August 24, 2018 13:55	08/24/2018 16:15
MW10R	Y808368-07	Water	August 24, 2018 14:00	08/24/2018 16:15
MW11R	Y808368-08	Water	August 24, 2018 14:05	08/24/2018 16:15
MW13R	Y808368-09	Water	August 24, 2018 14:10	08/24/2018 16:15
MW14R	Y808368-10	Water	August 24, 2018 14:15	08/24/2018 16:15
MW15R	Y808368-11	Water	August 24, 2018 14:20	08/24/2018 16:15
MW16	Y808368-12	Water	August 24, 2018 14:25	08/24/2018 16:15
MW17	Y808368-13	Water	August 24, 2018 14:30	08/24/2018 16:15
MW18	Y808368-14	Water	August 24, 2018 14:35	08/24/2018 16:15

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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW20R	Y808368-15	Water	August 24, 2018 14:40	08/24/2018 16:15
MW21R	Y808368-16	Water	August 24, 2018 14:45	08/24/2018 16:15
MW22	Y808368-17	Water	August 24, 2018 14:50	08/24/2018 16:15
MW25	Y808368-18	Water	August 24, 2018 14:55	08/24/2018 16:15

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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

ORIGINS
LABORATORY, INC

188364

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

Client: LT Environmental, Inc. Project Manager: Brian Sulzberger
Project: KMG - Avery 10-27A, Savul 15-27, Tuteur 9- Project Number: KMG07341/WO #88013337

Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MW01R	Water	8/24/18	1330	BT	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
02-001	MW03R	Water		1335		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
03-001	MW04R	Water		1340		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
04-001	MW06R2	Water		1345		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
05-001	MW07R	Water		1350		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
06-001	MW08R	Water		1355		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
07-001	MW10R	Water		1400		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
08-001	MW11R	Water		1405		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
09-001	MW13R	Water		1410		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
10-001	MW14R	Water		1415		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
11-001	MW15R	Water		1420		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample

Relinquished By: [Signature] Date / Time: 8/24/18 1615
Received By: [Signature] Date / Time: 8/24/18 1615
Temperature on Receipt: 14.7
Turn Around Time: Same Day ☐ 72-hr ☒ 24-hr ☐ Standard ☐ 48-hr ☐

Origins Laboratory, Inc.

Jefe Pellegrini

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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

ORIGINS
LABORATORY, INC

Y808366

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

12-001	MW16	Water	8/21/16	1425	65	40mL Clear Vial Cool to 4°	3	Filter sample	BTEX by EPA 8260C
13-001	MW17	Water		1430		40mL Clear Vial Cool to 4°	3	Filter sample	BTEX by EPA 8260C
14-001	MW18	Water		1435		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C	Filter sample
15-001	MW20R	Water		1440		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C	Filter sample
16-001	MW21R	Water		1445		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C	Filter sample
17-001	MW22	Water		1450		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C	Filter sample
18-001	MW25	Water		1455		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C	Filter sample

Temperature on Receipt: 14.7
Turn Around Time:
Same Day ☐ 72-hr ☒
24-hr ☐ Standard ☐
48-hr ☐

Relinquished By: [Signature]
Date / Time: 8/24/16 10:15
Received By: [Signature]
Date / Time: [Blank]

Relinquished By: [Signature]
Date / Time: 8/24/16
Received By: [Signature]
Date / Time: [Blank]

Origins Laboratory, Inc.

Jefe Pellegrini

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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y408368

Client: LTE

Client Project ID: KMG - Avery 10-27A, Savul 15-27

Checklist Completed by: JG

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 5/27/2018

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 14.7 °C 1 / 1 °C 1 / 1 °C 1 / 1 °C (Describe)

Thermometer ID: T003

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"/>		<u>Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" 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 checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" 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 checked="" 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 (Project Manager) JP

8/28/18
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW01R

8/24/2018 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y808368-01 (Water)

BTEX by EPA 8260C

Benzene	37.0	1.00	ug/L	1	B8H2702	KDK	08/27/2018	08/28/2018	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

109 % 84-121
93.6 % 85-115
106 % 84-114

" "
" "
" "

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW03R

8/24/2018 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y808368-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H2702	KDK	08/27/2018	08/28/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	84-121	"	"	"
Surrogate: Toluene-d8	92.1 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	84-114	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW04R

8/24/2018 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y808368-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H2702	KDK	08/27/2018	08/28/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	84-121	"	"	"
Surrogate: Toluene-d8	91.2 %	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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW06R2

8/24/2018 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y808368-04 (Water)

BTEX by EPA 8260C

Benzene	2.09	1.00	ug/L	1	B8H2702	KDK	08/27/2018	08/28/2018
Toluene	50.5	1.00	"	"	"	KDK	"	"
Ethylbenzene	173	1.00	"	"	"	KDK	"	"
Xylenes, total	959	8.00	"	8	"	KDK	"	08/29/2018

Surrogate: 1,2-Dichloroethane-d4	110 %	84-121			"	"	08/28/2018
Surrogate: Toluene-d8	94.3 %	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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW07R

8/24/2018 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y808368-05 (Water)

BTEX by EPA 8260C

Benzene	3.53	1.00	ug/L	1	B8H2702	KDK	08/27/2018	08/28/2018	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	84-121			"	"	"
Surrogate: Toluene-d8	91.6 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW08R

8/24/2018 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y808368-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H2702	KDK	08/27/2018	08/28/2018	U
Toluene	9.39	1.00	"	"	"	KDK	"	"	
Ethylbenzene	31.7	1.00	"	"	"	KDK	"	"	
Xylenes, total	342	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	108 %	84-121	"	"	"
Surrogate: Toluene-d8	92.1 %	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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW10R

8/24/2018 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y808368-07 (Water)

BTEX by EPA 8260C

Benzene	2.29	1.00	ug/L	1	B8H2702	KDK	08/27/2018	08/28/2018	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

109 % 84-121
91.6 % 85-115
104 % 84-114

" "
" "
" "

Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW11R

8/24/2018 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y808368-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H2702	KDK	08/27/2018	08/28/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	1.04	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	84-121	"	"	"
Surrogate: Toluene-d8	91.5 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	84-114	"	"	"

Origins Laboratory, Inc.



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Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW13R

8/24/2018 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y808368-09 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H2702	KDK	08/27/2018	08/28/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	9.90	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	84-121	"	"	"
Surrogate: Toluene-d8	91.0 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	84-114	"	"	"

Origins Laboratory, Inc.



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Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW14R

8/24/2018 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y808368-10 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H2702	KDK	08/27/2018	08/28/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	84-121	"	"	"
Surrogate: Toluene-d8	90.7 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	84-114	"	"	"

Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW15R

8/24/2018 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y808368-11 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H2702	KDK	08/27/2018	08/28/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	84-121	"	"	"
Surrogate: Toluene-d8	91.1 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	84-114	"	"	"

Origins Laboratory, Inc.



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Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW16

8/24/2018 2:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y808368-12 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H2702	KDK	08/27/2018	08/28/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	2.53	1.00	"	"	"	KDK	"	"	
Xylenes, total	8.16	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	111 %	84-121	"	"	"
Surrogate: Toluene-d8	92.1 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	84-114	"	"	"

Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW17

8/24/2018 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y808368-13 (Water)

BTEX by EPA 8260C

Benzene	12.7	1.00	ug/L	1	B8H2702	KDK	08/27/2018	08/28/2018	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

110 % 84-121
91.0 % 85-115
104 % 84-114

" "
" "
" "

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW18

8/24/2018 2:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y808368-14 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H2702	KDK	08/27/2018	08/28/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	84-121	"	"	"
Surrogate: Toluene-d8	90.0 %	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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW20R

8/24/2018 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y808368-15 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H2702	KDK	08/27/2018	08/28/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	84-121	"	"	"
Surrogate: Toluene-d8	91.7 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW21R

8/24/2018 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y808368-16 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H2702	KDK	08/27/2018	08/28/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	84-121	"	"	"
Surrogate: Toluene-d8	90.4 %	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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW22

8/24/2018 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y808368-17 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H2702	KDK	08/27/2018	08/28/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	84-121	"	"	"
Surrogate: Toluene-d8	90.2 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	84-114	"	"	"

Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW25

8/24/2018 2:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y808368-18 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8H2702	KDK	08/27/2018	08/28/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	84-121	"	"	"
Surrogate: Toluene-d8	90.8 %	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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B8H2702 - EPA 5030B (Water)										
Blank (B8H2702-BLK1)					Prepared: 08/27/2018 Analyzed: 08/27/2018					
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	70		"	62.5	112		84-121			
Surrogate: Toluene-d8	57		"	62.5	92.0		85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5	104		84-114			

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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B8H2702 - EPA 5030B (Water)

LCS (B8H2702-BS1)

Prepared: 08/27/2018 Analyzed: 08/27/2018

Benzene	55.0	1.00	ug/L	50.0	110	73.3-129
Toluene	48.0	1.00	"	50.0	95.9	76.2-123
Ethylbenzene	49.0	1.00	"	50.0	97.9	73.6-130
m,p-Xylene	96.9	2.00	"	100	96.9	76.1-126
o-Xylene	49.4	1.00	"	50.0	98.8	76.6-124
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5	105	84-121
Surrogate: Toluene-d8	59		"	62.5	93.8	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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B8H2702 - EPA 5030B (Water)

Matrix Spike (B8H2702-MS1)		Source: Y808368-02			Prepared: 08/27/2018 Analyzed: 08/27/2018					
Benzene	58.0	1.00	ug/L	50.0	ND	116	74-130			
Toluene	50.0	1.00	"	50.0	ND	100	73-131			
Ethylbenzene	51.3	1.00	"	50.0	ND	103	76-132			
m,p-Xylene	102	2.00	"	100	ND	102	69-139			
o-Xylene	51.8	1.00	"	50.0	ND	104	74-131			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	84-121			
Surrogate: Toluene-d8	58		"	62.5		92.3	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B8H2702 - EPA 5030B (Water)

Matrix Spike Dup (B8H2702-MSD1)		Source: Y808368-02			Prepared: 08/27/2018 Analyzed: 08/27/2018					
Benzene	58.9	1.00	ug/L	50.0	ND	118	74-130	1.51	20	
Toluene	51.4	1.00	"	50.0	ND	103	73-131	2.80	20	
Ethylbenzene	53.0	1.00	"	50.0	ND	106	76-132	3.26	20	
m,p-Xylene	104	2.00	"	100	ND	104	69-139	2.33	20	
o-Xylene	52.6	1.00	"	50.0	ND	105	74-131	1.49	20	
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	84-121			
Surrogate: Toluene-d8	59		"	62.5		93.7	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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.

November 08, 2018

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Avery 10-27A, Savul 15-27, Tuteur 9-27A **Project Number - KMG07341/WO #88013**

Attached are your analytical results for KMG - Avery 10-27A, Savul 15-27, Tuteur 9-27A received by Origins Laboratory, Inc. November 06, 2018. This project is associated with Origins project number Y811083-01.

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



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01R	Y811083-01	Water	November 5, 2018 10:35	11/06/2018 09:00
MW03R	Y811083-02	Water	November 5, 2018 10:43	11/06/2018 09:00
MW04R	Y811083-03	Water	November 5, 2018 10:52	11/06/2018 09:00
MW06R2	Y811083-04	Water	November 5, 2018 11:02	11/06/2018 09:00
MW07R	Y811083-05	Water	November 5, 2018 11:11	11/06/2018 09:00
MW08R	Y811083-06	Water	November 5, 2018 11:20	11/06/2018 09:00
MW10R	Y811083-07	Water	November 5, 2018 11:31	11/06/2018 09:00
MW11R	Y811083-08	Water	November 5, 2018 11:40	11/06/2018 09:00
MW13R	Y811083-09	Water	November 5, 2018 11:48	11/06/2018 09:00
MW14R	Y811083-10	Water	November 5, 2018 11:56	11/06/2018 09:00
MW15R	Y811083-11	Water	November 5, 2018 12:05	11/06/2018 09:00
MW16	Y811083-12	Water	November 5, 2018 12:16	11/06/2018 09:00
MW17	Y811083-13	Water	November 5, 2018 12:24	11/06/2018 09:00
MW18	Y811083-14	Water	November 5, 2018 12:33	11/06/2018 09:00

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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW20R	Y811083-15	Water	November 5, 2018 12:40	11/06/2018 09:00
MW21R	Y811083-16	Water	November 5, 2018 12:48	11/06/2018 09:00
MW22	Y811083-17	Water	November 5, 2018 12:57	11/06/2018 09:00
MW25	Y811083-18	Water	November 5, 2018 13:05	11/06/2018 09:00

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

ORIGINS
LABORATORY, INC

781063

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

Client: LT Environmental, Inc. Project Manager: Brian Sulzberger
Project: KMG - Avery 10-27A, Savul 15-27, Tuteur 9- Project Number: KMG07341/WO #88013337

Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MM01R	Water	11-5-18	1035	BSH	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
02-001	MM03R	Water		1043		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
03-001	MM04R	Water		1052		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
04-001	MM06R2	Water		1102		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
05-001	MM07R	Water		1111		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
06-001	MM08R	Water		1120		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
07-001	MM10R	Water		1131		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
08-001	MM11R	Water		1140		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
09-001	MM13R	Water		1148		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
10-001	MM14R	Water		1156		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
11-001	MM15R	Water		1205		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample

Relinquished By: [Signature] Date / Time: 11/6/18 9:00
Received By: [Signature] Date / Time: 11/6/18 9:00

Temperature on Receipt: 59
Turn Around Time: Same Day: ☐ 72-hr: ☐ 24-hr: ☐ 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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A



ORIGINS
LABORATORY, INC



1/811083

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

12-001	MW16	Water	11-5-18	1216	1216	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C	Filter sample
13-001	MW17	Water		1224		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C	Filter sample
14-001	MW18	Water		1233		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C	Filter sample
15-001	MW20R	Water		1240		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C	Filter sample
16-001	MW21R	Water		1248		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C	Filter sample
17-001	MW22	Water		1257		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C	Filter sample
18-001	MW25	Water		1305		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C	Filter sample

Temperature on Receipt: 59
Turn Around Time:
Same Day: ☐ 72-hr: ☒
24-hr: ☐ Standard: ☐
48-hr: ☐

Relinquished By:  Date / Time: 11/6/18 9:00
Received By:  Date / Time: 11/6/18 9:00

Relinquished By:  Date / Time: 11-5-18/0904
Received By:  Date / Time: 11-5-18/0904

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y81083 Client: LTE
Client Project ID: KMG - Avery 10-27A, Savul 15-2
Checklist Completed by: JG Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 11/6/2018 Airbill #: N/A
Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: ☐
(Describe)
Cooler Number/Temperature: 1 59 °C / / °C / / °C / / °C
Thermometer ID: T003

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 (Project Manager) JP Date/Time Reviewed 11/7/18

Origins Laboratory, Inc.

Jen Pellegrini

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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW01R

11/5/2018 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y811083-01 (Water)

BTEX by EPA 8260C

Benzene	19.3	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121	"	"	"
Surrogate: Toluene-d8	100 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.1 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW03R

11/5/2018 10:43:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y811083-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121	"	"	"
Surrogate: Toluene-d8	99.4 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.3 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW04R

11/5/2018 10:52:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y811083-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	99.2 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.7 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW06R2

11/5/2018 11:02:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y811083-04 (Water)

BTEX by EPA 8260C

Benzene	4.07	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	106	1.00	"	"	"	JTD	"	"	
Xylenes, total	632	10.0	"	10	"	JTD	"	11/08/2018	

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121		"	"	11/07/2018
Surrogate: Toluene-d8	99.5 %	85-115		"	"	"
Surrogate: 4-Bromofluorobenzene	97.7 %	84-114		"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW07R

11/5/2018 11:11:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y811083-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	96.5 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW08R

11/5/2018 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y811083-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	1.78	1.00	"	"	"	JTD	"	"	
Xylenes, total	13.8	1.00	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	99.4 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.2 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW10R

11/5/2018 11:31:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y811083-07 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	84-121	"	"	"
Surrogate: Toluene-d8	99.3 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.3 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW11R

11/5/2018 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y811083-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121	"	"	"
Surrogate: Toluene-d8	100 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.3 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW13R

11/5/2018 11:48:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y811083-09 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121	"	"	"
Surrogate: Toluene-d8	98.6 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.3 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW14R

11/5/2018 11:56:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y811083-10 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121	"	"	"
Surrogate: Toluene-d8	99.1 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	96.9 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW15R

11/5/2018 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y811083-11 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121	"	"	"
Surrogate: Toluene-d8	99.7 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.8 %	84-114	"	"	"

Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW16

11/5/2018 12:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y811083-12 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	99.4 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.6 %	84-114	"	"	"

Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW17

11/5/2018 12:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y811083-13 (Water)

BTEX by EPA 8260C

Benzene	1.83	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121			"	"	"
Surrogate: Toluene-d8	98.2 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	97.0 %	84-114			"	"	"

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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW18

11/5/2018 12:33:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y811083-14 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121	"	"	"
Surrogate: Toluene-d8	98.9 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.2 %	84-114	"	"	"

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Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW20R

11/5/2018 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y811083-15 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	98.5 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.4 %	84-114	"	"	"

Origins Laboratory, Inc.



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4600 West 60th Avenue
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Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW21R

11/5/2018 12:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y811083-16 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121	"	"	"
Surrogate: Toluene-d8	100 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.6 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW22

11/5/2018 12:57:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y811083-17 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	84-121	"	"	"
Surrogate: Toluene-d8	97.8 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.6 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

MW25

11/5/2018 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y811083-18 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8K0701	JTD	11/07/2018	11/07/2018	U
Toluene	ND	1.00	"	"	"	JTD	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JTD	"	"	U
Xylenes, total	ND	1.00	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121	"	"	"
Surrogate: Toluene-d8	98.9 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.2 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B8K0701 - EPA 5030B (Water)

Blank (B8K0701-BLK1)

Prepared: 11/07/2018 Analyzed: 11/07/2018

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	65		"	62.5	104		84-121			
Surrogate: Toluene-d8	62		"	62.5	99.4		85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	100		84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B8K0701 - EPA 5030B (Water)

Blank (B8K0701-BLK2)

Prepared: 11/07/2018 Analyzed: 11/07/2018

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	78		"	62.5	125		84-121			
Surrogate: Toluene-d8	57		"	62.5	91.9		85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.0		84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B8K0701 - EPA 5030B (Water)

LCS (B8K0701-BS1)

Prepared: 11/07/2018 Analyzed: 11/07/2018

Benzene	45.2	1.00	ug/L	50.0		90.5	73.3-129			
Toluene	50.5	1.00	"	50.0		101	76.2-123			
Ethylbenzene	52.6	1.00	"	50.0		105	73.6-130			
m,p-Xylene	108	2.00	"	100		108	76.1-126			
o-Xylene	50.6	1.00	"	50.0		101	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.8	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B8K0701 - EPA 5030B (Water)

LCS (B8K0701-BS2)

Prepared: 11/07/2018 Analyzed: 11/07/2018

Benzene	47.4	1.00	ug/L	50.0		94.8	73.3-129
Toluene	51.3	1.00	"	50.0		103	76.2-123
Ethylbenzene	53.4	1.00	"	50.0		107	73.6-130
m,p-Xylene	110	2.00	"	100		110	76.1-126
o-Xylene	51.3	1.00	"	50.0		103	76.6-124
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.2	84-121
Surrogate: Toluene-d8	62		"	62.5		100	85-115
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.1	84-114

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Arvada CO 80003

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B8K0701 - EPA 5030B (Water)

Matrix Spike (B8K0701-MS1)		Source: Y811082-01			Prepared: 11/07/2018 Analyzed: 11/07/2018					
Benzene	46.6	1.00	ug/L	50.0	ND	93.1	74-130			
Toluene	50.7	1.00	"	50.0	ND	101	73-131			
Ethylbenzene	53.4	1.00	"	50.0	0.100	107	76-132			
m,p-Xylene	110	2.00	"	100	0.180	110	69-139			
o-Xylene	51.5	1.00	"	50.0	ND	103	74-131			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.6	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	84-114			

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Arvada CO 80003

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B8K0701 - EPA 5030B (Water)

Matrix Spike (B8K0701-MS2)		Source: Y811082-03			Prepared: 11/07/2018 Analyzed: 11/07/2018					
Benzene	46.3	1.00	ug/L	50.0	ND	92.6	74-130			
Toluene	50.2	1.00	"	50.0	ND	100	73-131			
Ethylbenzene	52.3	1.00	"	50.0	0.100	104	76-132			
m,p-Xylene	108	2.00	"	100	0.210	108	69-139			
o-Xylene	50.6	1.00	"	50.0	ND	101	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.7	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.6	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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LT Environmental, Inc.
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Arvada CO 80003

Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B8K0701 - EPA 5030B (Water)

Matrix Spike Dup (B8K0701-MSD1)		Source: Y811082-01			Prepared: 11/07/2018 Analyzed: 11/07/2018					
Benzene	47.5	1.00	ug/L	50.0	ND	95.1	74-130	2.06	20	
Toluene	51.1	1.00	"	50.0	ND	102	73-131	0.688	20	
Ethylbenzene	53.6	1.00	"	50.0	0.100	107	76-132	0.467	20	
m,p-Xylene	110	2.00	"	100	0.180	110	69-139	0.500	20	
o-Xylene	51.6	1.00	"	50.0	ND	103	74-131	0.291	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.1	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.2	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	84-114			

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Brian Sulzberger
Project Number: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

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 B8K0701 - EPA 5030B (Water)

Matrix Spike Dup (B8K0701-MSD2)		Source: Y811082-03			Prepared: 11/07/2018 Analyzed: 11/07/2018					
Benzene	46.7	1.00	ug/L	50.0	ND	93.4	74-130	0.817	20	
Toluene	50.5	1.00	"	50.0	ND	101	73-131	0.675	20	
Ethylbenzene	52.8	1.00	"	50.0	0.100	105	76-132	1.03	20	
m,p-Xylene	109	2.00	"	100	0.210	108	69-139	0.721	20	
o-Xylene	51.1	1.00	"	50.0	ND	102	74-131	1.04	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.7	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.9	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.5	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: KMG07341/WO #88013337
Project: KMG - Avery 10-27A, Savul 15-27,
Tuteur 9-27A

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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