

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**ANDERSON 41-27/ BOHLENDER 2-27**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**

Soil Sample ID	Depth (feet bgs)	Date	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)
E01@8'	8'	11/3/2005	220	270	<50
N01@8'	8'	11/3/2005	<b>670</b>	<b>2100</b>	<b>&lt;50</b>
S01@8'	8'	11/3/2005	560	420	<50
W01@8'	8'	11/3/2005	330	250	<50
N02@8'	8'	11/7/2005	<50	<50	<50
<b>COGCC Sensitive Area Allowable Level</b>			<b>1000*</b>	<b>1000*</b>	<b>1000*</b>

Notes: bgs - below ground surface  
mg/kg - milligrams per kilogram  
TPH - total petroleum hydrocarbons  
DRO - diesel range organics  
GRO - gasoline range organics  
ORO - oil range organics  
COGCC - Colorado Oil and Gas Conservation Commission  
Bold indicates result exceeds allowable level



**TABLE 2**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**ANDERSON 41-27/ BOHLENDER 2-27**  
**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)
ABGW02	11/3/2005	6200	<1.0	630	8600	14	NA
MW01	12/22/2005	970	<1.0	260	2700	14.35	83.85
	3/24/2006	3200	<1.0	380	3400	16.00	82.20
	6/28/2006	840	<1.0	140	2600	13.00	85.00
	9/30/2006	2300	<1.0	340	5200	14.17	84.03
	12/5/2006	2400	<1.0	320	4400	15.10	83.10
	3/5/2007	550	<1.0	84	13	14.96	83.24
	6/4/2007	390	<1.0	41	690	13.31	84.89
	9/11/2007	23	<1.0	4.1	84	9.98	88.22
	12/7/2007	1100	<1.0	83	1100	13.40	84.80
	3/6/2008	<1.0	<1.0	130	680	12.90	85.30
	6/18/2008	600	<1.0	37	4000	9.80	88.40
	9/4/2008	810	<1.0	57	280	11.14	87.06
	12/11/2008	910	<1.0	160	180	12.80	85.40
	3/3/2009	1200	<1.0	<1.0	1300	NM	NA
	6/15/2009	1200	<1.0	69	410	11.77	86.43
	9/4/2009	1200	<1.0	52	370	10.34	87.86
	12/1/2009	3000	<1.0	69	330	12.22	85.98
	3/5/2010	7400	<1.0	160	51	13.94	84.26
	6/23/2010	480	<1.0	62	490	11.91	84.26
	9/10/2010	2800	<1.0	48	170	10.18	88.02
	12/7/2010	3200	<1.0	45	110	12.35	85.85
	3/4/2011	2300	<1.0	74	490	14.14	84.06
	6/6/2011	8300	<1.0	130	470	13.09	85.11
	9/8/2011	3300	<1.0	14	17	10.13	88.07
	12/29/2011	5100	<1.0	75	180	13.06	85.14
	3/14/2012	3400	<1.0	80	230	13.02	85.18
	6/6/2012	3600	<1.0	35	26	12.32	85.88
	9/17/2012	15	<1.0	19	5.7	13.41	84.79
	12/11/2012	<1.0	<1.0	<1.0	<1.0	15.70	82.50
	3/14/2013	23	<1.0	<1.0	2.9	15.20	83.00
	6/26/2013	170	<1.0	34	44	NM	NA
	9/17/2013	45	<1.0	11	14	10.22	87.98
	11/1/2013	Surveyed - Not Sampled				12.96	84.96
	1/30/2014	<4.0	<4.0	<4.0	<4.0	9.00	89.20
	3/13/2014	1.2	<1.0	<1.0	<1.0	14.89	83.31
	6/19/2014	69.8	<1.0	<1.0	3.2	12.52	85.40
	9/26/2014	<1.0	<1.0	<1.0	<1.0	11.94	85.98
	12/4/2014	70.5	<1.0	<1.0	<1.0	13.63	84.29
	3/13/2015	Damaged - Not Sampled				NM	NA
	MW01 destroyed as of 3/13/2015						
MW01R	4/27/2015	28.0	<1.0	<1.0	<1.0	11.92	NA
	6/24/2015	38.6	<1.0	<1.0	8.7	12.04	NA



**TABLE 2**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**ANDERSON 41-27/ BOHLENDER 2-27**  
**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)
	9/25/2015	1.2	<1.0	<1.0	<1.0	7.42	90.85
	12/8/2015	497	<1.0	28.9	40.1	11.04	87.23
	3/11/2016	Surveyed - Not Sampled				13.70	86.58
	3/30/2016	465	<1.0	4.8	24.0	13.56	86.72
	6/27/2016	56.9	<4.00	<4.00	<4.00	9.52	90.76
	9/30/2016	24.9	<1.00	<1.00	8.88	10.70	89.58
	12/28/2016	62.6	<1.00	8.54	36.5	13.28	86.90
	3/29/2017	41.2	<1.00	<1.00	4.15	14.38	85.80
	6/20/2017	<1.00	<1.00	<1.00	<1.00	9.28	90.90
	9/6/2017	<1.00	<1.00	<1.00	<1.00	8.20	91.98
	12/6/2017	1.40	<1.00	<1.00	3.99	13.08	87.10
	3/1/2018	1.86	<1.00	<1.00	<1.00	13.92	86.26
MW02	12/22/2005	<1.0	<1.0	<1.0	<2.0	11.25	NA
	6/28/2006	<1.0	<1.0	<1.0	<1.0	10.25	NA
	9/30/2006	<1.0	<1.0	<1.0	<1.0	12.15	NA
	12/5/2006	<1.0	<1.0	<1.0	<1.0	13.08	NA
	3/5/2007	<1.0	<1.0	<1.0	<1.0	12.17	NA
	6/4/2007	7.8	<1.0	<1.0	<1.0	10.64	NA
	9/11/2007	<1.0	<1.0	<1.0	<1.0	7.44	NA
	12/7/2007	<1.0	<1.0	<1.0	<1.0	10.67	NA
	3/6/2008	<1.0	<1.0	<1.0	<1.0	10.67	NA
	6/18/2008	<1.0	<1.0	<1.0	<1.0	9.60	NA
	9/4/2008	<1.0	<1.0	<1.0	<1.0	8.16	NA
	12/11/2008	Not Found - Not Sampled				NM	NA
	3/3/2009	Not Found - Not Sampled				NM	NA
	6/15/2009	<1.0	<1.0	<1.0	<1.0	8.66	NA
	9/4/2009	<1.0	<1.0	<1.0	<1.0	8.48	NA
	12/1/2009	<1.0	<1.0	<1.0	<1.0	10.36	NA
	3/5/2010	68	<1.0	<1.0	<1.0	12.00	NA
	6/23/2010	710	21	3.9	6.4	8.32	NA
	9/10/2010	11	13	<1.0	<1.0	7.21	NA
	MW02 destroyed as of 12/7/2010						
MW02R	12/7/2010	<1.0	<1.0	<1.0	<1.0	9.31	85.45
	3/4/2011	<1.0	<1.0	<1.0	<1.0	10.81	83.95
	6/6/2011	15	<1.0	<1.0	<1.0	10.00	84.76
	9/8/2011	<1.0	<1.0	<1.0	<1.0	7.83	86.93
	12/29/2011	6.0	<1.0	<1.0	<1.0	10.02	84.74
	3/14/2012	51	<1.0	<1.0	<1.0	10.10	84.66
	6/6/2012	<1.0	<1.0	<1.0	<1.0	9.30	85.46
	9/17/2012	<1.0	<1.0	<1.0	<1.0	9.74	85.02
	12/11/2012	<1.0	130	<1.0	<1.0	12.35	82.41
	3/14/2013	<1.0	1.2	<1.0	<1.0	12.75	82.01
	6/26/2013	<1.0	<1.0	<1.0	<1.0	NM	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)
	9/17/2013	<1.0	<1.0	<1.0	<1.0	6.85	87.91
	11/1/2013	Surveyed - Not Sampled				10.12	85.04
	1/30/2014	<4.0	19.8	<4.0	<4.0	10.55	84.21
	3/13/2014	<1.0	57.7	<1.0	<1.0	11.92	83.16
	6/19/2014	<1.0	<1.0	<1.0	<1.0	9.91	85.25
	9/26/2014	<1.0	<1.0	<1.0	<1.0	9.30	85.86
	12/4/2014	<1.0	<1.0	<1.0	<1.0	10.85	84.31
	3/13/2015	<1.0	<1.0	<1.0	<1.0	11.96	83.20
	6/24/2015	<1.0	<1.0	<1.0	<1.0	9.91	85.25
	9/25/2015	<1.0	<1.0	<1.0	<1.0	7.82	89.60
	12/8/2015	<1.0	<1.0	<1.0	<1.0	10.88	86.54
	3/11/2016	Surveyed - Not Sampled				11.13	85.90
	3/30/2016	<1.0	<1.0	<1.0	<1.0	11.28	85.75
	6/27/2016	<1.00	<1.00	<1.00	<1.00	6.66	90.37
	9/30/2016	<1.00	<1.00	<1.00	<1.00	8.30	88.73
	12/28/2016	<1.00	<1.00	<1.00	<1.00	11.22	86.20
	3/29/2017	<1.00	<1.00	<1.00	<1.00	12.18	85.24
	6/20/2017	<1.00	<1.00	<1.00	<1.00	5.04	92.38
	9/6/2017	<1.00	<1.00	<1.00	<1.00	6.79	90.63
	12/6/2017	<1.00	<1.00	<1.00	<1.00	11.00	86.42
	3/1/2018	<1.00	<1.00	<1.00	<1.00	11.84	85.58
MW03	12/22/2005	<1.0	<1.0	<1.0	<2.0	10.66	NA
	6/28/2006	<b>6.7</b>	2.6	60	47	9.87	NA
	9/30/2006	<1.0	<1.0	<1.0	<1.0	12.53	NA
	12/5/2006	<1.0	<1.0	<1.0	<1.0	13.31	NA
	3/5/2007	<1.0	<1.0	<1.0	<1.0	13.10	NA
	6/4/2007	<1.0	<1.0	<1.0	<1.0	11.63	NA
	9/11/2007	<1.0	<1.0	<1.0	<1.0	0.52	NA
	12/7/2007	<1.0	<1.0	<1.0	<1.0	11.60	NA
	3/6/2008	<1.0	<1.0	<1.0	<1.0	12.62	NA
	6/18/2008	<1.0	<1.0	<1.0	<1.0	10.93	NA
	9/4/2008	<1.0	<1.0	<1.0	<1.0	9.50	NA
	12/11/2008	<b>8.2</b>	<1.0	1.3	<1.0	11.19	NA
	MW03 destroyed as of 3/3/2009						
MW03R	6/15/2009	<1.0	<1.0	<1.0	<1.0	8.13	85.84
	9/4/2009	<1.0	<1.0	<1.0	<1.0	6.98	86.99
	12/1/2009	<1.0	<1.0	<1.0	<1.0	8.67	85.30
	3/5/2010	<1.0	<1.0	<1.0	<1.0	10.08	83.89
	6/23/2010	<1.0	<1.0	<1.0	<1.0	8.15	83.89
	9/10/2010	<1.0	<1.0	<1.0	<1.0	6.80	87.17
	12/7/2010	<1.0	<1.0	<1.0	<1.0	8.89	85.08
	3/4/2011	<1.0	<1.0	<1.0	<1.0	10.27	83.70
	6/6/2011	<1.0	<1.0	<1.0	<1.0	9.51	84.46



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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)
	9/8/2011	<1.0	<1.0	<1.0	<1.0	7.57	86.40
	12/29/2011	<1.0	<1.0	<1.0	<1.0	9.47	84.50
	3/14/2012	<1.0	<1.0	<1.0	<1.0	9.53	84.44
	6/6/2012	<1.0	<1.0	<1.0	<1.0	9.03	84.94
	9/17/2012	<1.0	<1.0	<1.0	<1.0	9.57	84.40
	12/11/2012	<1.0	<1.0	<1.0	<1.0	11.76	82.21
	3/14/2013	<1.0	<1.0	<1.0	<1.0	12.00	81.97
	6/26/2013	1.4	<1.0	<1.0	<1.0	NM	NA
	9/17/2013	<1.0	<1.0	<1.0	<1.0	6.62	87.35
	11/1/2013	Surveyed - Not Sampled				9.48	84.46
	1/30/2014	<4.0	<4.0	<4.0	<4.0	10.65	83.32
	3/13/2014	<1.0	<1.0	<1.0	<1.0	10.94	83.03
	6/19/2014	<1.0	<1.0	<1.0	<1.0	9.09	84.85
	9/26/2014	1.5	<1.0	<1.0	<1.0	8.18	85.76
	12/4/2014	<1.0	<1.0	<1.0	<1.0	9.90	84.04
	3/13/2015	<1.0	<1.0	<1.0	<1.0	10.89	83.05
	6/24/2015	13.8	<1.0	<1.0	<1.0	8.80	85.14
	8/19/2015	2.5	<1.0	<1.0	<1.0	NM	NA
	9/25/2015	<1.0	<1.0	<1.0	<1.0	7.04	89.40
	12/8/2015	<1.0	<1.0	<1.0	<1.0	9.63	86.81
	3/11/2016	Surveyed - Not Sampled				10.53	86.10
	3/30/2016	<1.0	<1.0	<1.0	<1.0	10.59	86.04
	6/27/2016	<1.00	<1.00	<1.00	<1.00	6.49	90.14
	9/30/2016	1.02	<1.00	<1.00	<1.00	8.08	88.55
	12/28/2016	<1.00	<1.00	<1.00	<1.00	10.19	86.38
	3/29/2017	<1.00	<1.00	<1.00	<1.00	11.10	85.47
	6/20/2017	<1.00	<1.00	<1.00	<1.00	4.80	91.77
	9/6/2017	<1.00	<1.00	<1.00	<1.00	5.98	90.59
	12/6/2017	<1.00	<1.00	<1.00	<1.00	10.00	86.57
	3/1/2018	<1.00	<1.00	<1.00	<1.00	10.72	85.85
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MW04	12/22/2005	<1.0	<1.0	<1.0	<2.0	11.06	NA
	6/28/2006	2.7	<1.0	<1.0	3.2	9.80	NA
	9/30/2006	<1.0	<1.0	<1.0	<1.0	12.47	NA
	12/5/2006	<1.0	<1.0	<1.0	<1.0	11.00	NA
	3/5/2007	<1.0	<1.0	<1.0	<1.0	13.05	NA
	6/4/2007	<1.0	<1.0	<1.0	<1.0	11.56	NA
	9/11/2007	<1.0	<1.0	<1.0	<1.0	8.41	NA
	12/7/2007	<1.0	<1.0	<1.0	<1.0	11.53	NA
	3/6/2008	<1.0	<1.0	<1.0	<1.0	12.02	NA
	6/18/2008	<1.0	<1.0	<1.0	<1.0	10.77	NA
	MW04 destroyed as of 9/4/2008						
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MW04R	6/15/2009	<1.0	<1.0	<1.0	<1.0	8.56	NA
	9/4/2009	<1.0	<1.0	<1.0	<1.0	PVC Bent	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)
	12/1/2009	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	3/5/2010	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	6/23/2010	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	9/10/2010	<1.0	<1.0	<1.0	<1.0	PVC Bent	NA
	MW04R destroyed as of 12/7/2010						
MW04R2	12/7/2010	<1.0	<1.0	<1.0	<1.0	8.90	85.36
	3/4/2011	<1.0	<1.0	<1.0	<1.0	10.33	83.93
	6/6/2011	<1.0	<1.0	<1.0	<1.0	9.51	84.75
	9/8/2011	<1.0	<1.0	<1.0	<1.0	7.50	86.76
	12/29/2011	<1.0	<1.0	<1.0	<1.0	9.52	84.74
	3/14/2012	<1.0	<1.0	<1.0	<1.0	9.55	84.71
	6/6/2012	<1.0	<1.0	<1.0	<1.0	8.95	85.31
	9/17/2012	<1.0	<1.0	<1.0	<1.0	9.52	84.74
	12/11/2012	<1.0	<1.0	<1.0	<1.0	11.58	82.68
	3/14/2013	<1.0	<1.0	<1.0	<1.0	12.20	82.06
	6/26/2013	<1.0	<1.0	<1.0	<1.0	NM	NA
	9/17/2013	<1.0	<1.0	<1.0	<1.0	6.59	87.67
	11/1/2013	Surveyed - Not Sampled				9.82	84.76
	1/30/2014	<4.0	<4.0	<4.0	<4.0	11.40	82.86
	3/13/2014	<1.0	<1.0	<1.0	<1.0	11.40	83.22
	6/19/2014	<1.0	<1.0	<1.0	<1.0	9.16	85.13
	9/26/2014	<1.0	<1.0	<1.0	<1.0	7.98	86.31
	12/4/2014	<1.0	<1.0	<1.0	<1.0	9.61	84.68
	3/13/2015	<1.0	<1.0	<1.0	<1.0	11.03	83.26
	6/24/2015	<1.0	<1.0	<1.0	<1.0	8.84	85.45
	9/25/2015	7.9	<1.0	<1.0	<1.0	7.44	89.60
	12/8/2015	<1.0	<1.0	<1.0	<1.0	10.23	86.81
	3/11/2016	Surveyed - Not Sampled				10.78	86.20
	3/30/2016	<1.0	<1.0	<1.0	<1.0	10.92	86.06
	6/27/2016	<1.00	<1.00	<1.00	<1.00	6.70	90.28
	9/30/2016	<1.00	<1.00	<1.00	<1.00	8.22	88.76
	12/28/2016	<1.00	<1.00	<1.00	<1.00	10.61	86.44
	3/29/2017	<1.00	<1.00	<1.00	<1.00	11.53	85.52
	6/20/2017	<1.00	<1.00	<1.00	<1.00	5.03	92.02
	9/6/2017	<1.00	<1.00	<1.00	<1.00	6.00	91.05
	12/6/2017	<1.00	<1.00	<1.00	<1.00	10.43	86.62
	3/1/2018	<1.00	<1.00	<1.00	<1.00	11.21	85.84
MW05	12/8/2010	<1.0	<1.0	<1.0	<1.0	9.95	85.55
	3/4/2011	<1.0	<1.0	<1.0	<1.0	11.45	84.05
	6/6/2011	<1.0	<1.0	<1.0	<1.0	10.77	84.73
	9/8/2011	<1.0	<1.0	<1.0	<1.0	8.25	87.25
	12/29/2011	<1.0	<1.0	<1.0	<1.0	11.70	83.80
	3/14/2012	<1.0	<1.0	<1.0	<1.0	11.72	83.78



**TABLE 2**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**ANDERSON 41-27/ BOHLENDER 2-27**  
**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)
	6/6/2012	<1.0	<1.0	<1.0	<1.0	9.80	85.70
	9/17/2012	<1.0	<1.0	<1.0	<1.0	9.57	85.93
	12/11/2012	<1.0	<1.0	<1.0	<1.0	13.00	82.50
	3/14/2013	<1.0	<1.0	<1.0	<1.0	13.48	82.02
	6/26/2013	<1.0	<1.0	<1.0	<1.0	NM	NA
	9/17/2013	<1.0	<1.0	<1.0	<1.0	7.36	88.14
	11/1/2013	Surveyed - Not Sampled				10.98	84.84
	1/30/2014	<4.0	<4.0	<4.0	<4.0	11.90	83.60
	3/13/2014	<1.0	<1.0	<1.0	<1.0	12.49	83.26
	6/19/2014	<1.0	<1.0	<1.0	<1.0	10.36	85.46
	9/26/2014	<1.0	<1.0	<1.0	<1.0	10.07	85.75
	12/4/2014	<1.0	<1.0	<1.0	<1.0	11.46	84.36
	3/13/2015	<1.0	<1.0	<1.0	<1.0	12.54	83.28
	6/24/2015	<1.0	<1.0	<1.0	<1.0	10.44	85.38
	9/25/2015	<1.0	<1.0	<1.0	<1.0	8.16	90.30
	12/8/2015	<1.0	<1.0	<1.0	<1.0	11.33	87.13
	3/11/2016	Surveyed - Not Sampled				11.92	86.43
	3/30/2016	<1.0	<1.0	<1.0	<1.0	12.12	86.23
	6/27/2016	<1.00	<1.00	<1.00	<1.00	7.55	90.80
	9/30/2016	<1.00	<1.00	<1.00	<1.00	9.09	89.26
	12/28/2016	<1.00	<1.00	<1.00	<1.00	11.78	86.68
	3/29/2017	<1.00	<1.00	<1.00	<1.00	12.71	85.75
	6/20/2017	<1.00	<1.00	<1.00	<1.00	4.96	93.50
	9/6/2017	<1.00	<1.00	<1.00	<1.00	7.31	91.15
	12/6/2017	<1.00	<1.00	<1.00	<1.00	11.62	86.84
	3/1/2018	<1.00	<1.00	<1.00	<1.00	12.41	86.05
<hr/>							
MW06	12/8/2010	<1.0	<1.0	<1.0	<1.0	8.17	85.37
	3/4/2011	<1.0	<1.0	<1.0	<1.0	9.63	83.91
	6/6/2011	<1.0	<1.0	<1.0	<1.0	8.84	84.70
	9/8/2011	2.7	<1.0	<1.0	<1.0	6.70	86.84
	12/29/2011	<1.0	<1.0	<1.0	<1.0	8.62	84.92
	3/14/2012	<1.0	<1.0	<1.0	<1.0	8.65	84.89
	6/6/2012	<1.0	<1.0	<1.0	<1.0	8.17	85.37
	9/17/2012	<1.0	<1.0	<1.0	<1.0	8.40	85.14
	12/11/2012	<1.0	<1.0	<1.0	<1.0	11.35	82.19
	3/14/2013	<1.0	<1.0	<1.0	<1.0	11.95	81.59
	6/26/2013	<1.0	<1.0	<1.0	<1.0	NM	NA
	9/17/2013	<1.0	<1.0	<1.0	<1.0	6.79	86.75
	11/1/2013	Surveyed - Not Sampled				9.09	84.75
	1/30/2014	<4.0	<4.0	<4.0	<4.0	11.48	82.06
	3/13/2014	<1.0	<1.0	<1.0	<1.0	10.81	83.12
	6/19/2014	<1.0	<1.0	<1.0	<1.0	8.65	85.19
	9/26/2014	<1.0	<1.0	<1.0	<1.0	8.06	85.78
	12/4/2014	<1.0	<1.0	<1.0	<1.0	9.57	84.27



**TABLE 2**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**ANDERSON 41-27/ BOHLENDER 2-27**  
**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)
	3/13/2015	<1.0	<1.0	<1.0	<1.0	10.66	83.18
	6/24/2015	<1.0	<1.0	<1.0	<1.0	8.66	85.18
	9/25/2015	<1.0	<1.0	<1.0	<1.0	6.67	89.77
	12/8/2015	<1.0	<1.0	<1.0	<1.0	9.56	86.88
	3/11/2016	Surveyed - Not Sampled				9.88	86.28
	3/30/2016	<1.0	<1.0	<1.0	<1.0	10.10	86.06
	6/27/2016	<1.00	<1.00	<1.00	<1.00	5.34	90.82
	9/30/2016	<1.00	<1.00	<1.00	<1.00	7.26	88.90
	12/28/2016	<1.00	<1.00	<1.00	<1.00	9.94	86.50
	3/29/2017	<1.00	<1.00	<1.00	<1.00	10.89	85.55
	6/20/2017	<1.00	<1.00	<1.00	<1.00	3.30	93.14
	9/6/2017	<1.00	<1.00	<1.00	<1.00	5.80	90.64
	12/6/2017	<1.00	<1.00	<1.00	<1.00	9.75	86.69
	3/1/2018	<1.00	<1.00	<1.00	<1.00	6.58	85.86
<b>COGCC Allowable Levels</b>		<b>5</b>	<b>1000</b>	<b>700</b>	<b>1400</b>		

Notes: COGCC - Colorado Oil and Gas Conservation Commission

Elev. - elevation

ft bgs - feet below ground surface

GW - groundwater

NA - not analyzed/not available

Results in red indicate data from samples collected after completion of carbon slurry injection.

NM - not measured

µg/L - micrograms per liter

< - less than laboratory reporting limit

Bold indicates result exceeds allowable level

Excavation groundwater depth is approximate



June 27, 2017

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

**Project Name - KMG - Anderson 41-27/Bohlender 2-27**    **Project Number - KMG05183/WO #884385**

Attached are your analytical results for KMG - Anderson 41-27/Bohlender 2-27 received by Origins Laboratory, Inc. June 20, 2017. This project is associated with Origins project number Y706268-01.

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: KMG05183/WO #88438532  
Project: KMG - Anderson 41-27/Bohlender 2-27

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01R	Y706268-01	Water	June 20, 2017 13:00	06/20/2017 15:00
MW02R	Y706268-02	Water	June 20, 2017 13:05	06/20/2017 15:00
MW03R	Y706268-03	Water	June 20, 2017 13:10	06/20/2017 15:00
MW04R2	Y706268-04	Water	June 20, 2017 13:15	06/20/2017 15:00
MW05	Y706268-05	Water	June 20, 2017 13:20	06/20/2017 15:00
MW06	Y706268-06	Water	June 20, 2017 13:25	06/20/2017 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: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**ORIGINS**  
 LABORATORY, INC

1706260

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

Client: LT Environmental, Inc. Project Manager: Brian Sulzberger  
 Project: KMG - Anderson 41-27/Bohlender 2-27 Project Number: KMG05183/WO #88438532

Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	QTY	Analyses
01-001	MM01R	Water	6/20/17	1300	CT	40mL Clear Vial Cool to 4°	3	Filter sample BTEX by EPA 8260C
02-001	MM02R	Water		1305		40mL Clear Vial Cool to 4°	3	Filter sample BTEX by EPA 8260C
03-001	MM03R	Water		1316		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
04-001	MM04R2	Water		1315		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
05-001	MM05	Water		1326		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample
06-001	MM06	Water		1325		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C Filter sample

Relinquished By: *AS* Date / Time: 6/20/17 1500  
 Relinquished By: *[Signature]* Date / Time: 6/20/17 1500  
 Received By: *[Signature]* Date / Time: 6/20/17 1500  
 Received By: *[Signature]* Date / Time: 6/20/17 1500

Temperature on Receipt: 58°  
 Turn Around Time:  
 Same Day:  72-hr:  Standard:   
 24-hr:  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: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y 706240

Client: LTE

Client Project ID: KMG - Anderson 41-27 / Bohlender 2-

Checklist Completed by: [Signature]

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

Date/time completed: 6-20-17 1616

Airbill #: NA

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

Cooler Number/Temperature: 6 / 5.8 °C           °C           °C (Describe)  °C

Thermometer ID: 1003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>if yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by [Signature] (Project Manager)

Date/Time Reviewed 6/21/17

Origins Laboratory, Inc.

[Signature: Jen 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: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**MW01R**  
**6/20/2017 1:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y706268-01 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B7F2207	06/22/2017	06/22/2017	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	99.3 %	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: KMG05183/WO #88438532  
Project: KMG - Anderson 41-27/Bohlender 2-27

**MW02R**  
**6/20/2017 1:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y706268-02 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B7F2207	06/22/2017	06/22/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	99.7 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.0 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.6 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**MW03R**  
**6/20/2017 1:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y706268-03 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B7F2207	06/22/2017	06/22/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.5 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.5 %	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: KMG05183/WO #88438532  
Project: KMG - Anderson 41-27/Bohlender 2-27

**MW04R2**  
**6/20/2017 1:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y706268-04 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B7F2207	06/22/2017	06/22/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	99.0 %	84-121			"	"	"	
Surrogate: Toluene-d8	97.1 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**MW05**  
**6/20/2017 1:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y706268-05 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B7F2207	06/22/2017	06/22/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	99.2 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.8 %	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: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**MW06**  
**6/20/2017 1:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y706268-06 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B7F2207	06/22/2017	06/22/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	99.7 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.2 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.8 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**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 B7F2207 - EPA 5030B (Water)**

**Blank (B7F2207-BLK1)**

Prepared: 06/22/2017 Analyzed: 06/22/2017

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		103	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		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: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**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 B7F2207 - EPA 5030B (Water)**

**Blank (B7F2207-BLK2)**

Prepared: 06/22/2017 Analyzed: 06/22/2017

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.5	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: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**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 B7F2207 - EPA 5030B (Water)

**LCS (B7F2207-BS1)**

Prepared: 06/22/2017 Analyzed: 06/22/2017

Benzene	43.9	1.00	ug/L	50.0		87.7	73.3-129			
Toluene	43.5	1.00	"	50.0		87.1	76.2-123			
Ethylbenzene	43.2	1.00	"	50.0		86.5	73.6-130			
m,p-Xylene	85.8	2.00	"	100		85.8	76.1-126			
o-Xylene	41.6	1.00	"	50.0		83.2	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.6	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.2	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

Origins Laboratory, Inc.



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LT Environmental, Inc.  
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 Arvada CO 80003

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**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 B7F2207 - EPA 5030B (Water)**

**LCS (B7F2207-BS2)**

Prepared: 06/22/2017 Analyzed: 06/22/2017

Benzene	51.7	1.00	ug/L	50.0		103	73.3-129			
Toluene	52.8	1.00	"	50.0		106	76.2-123			
Ethylbenzene	54.2	1.00	"	50.0		108	73.6-130			
m,p-Xylene	108	2.00	"	100		108	76.1-126			
o-Xylene	51.7	1.00	"	50.0		103	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.3	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.9	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		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: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**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 B7F2207 - EPA 5030B (Water)**

<b>Matrix Spike (B7F2207-MS1)</b>	<b>Source: Y706277-01</b>			<b>Prepared: 06/22/2017 Analyzed: 06/22/2017</b>						
Benzene	52.5	1.00	ug/L	50.0	0.490	104	74-130			
Toluene	52.8	1.00	"	50.0	ND	106	73-131			
Ethylbenzene	55.2	1.00	"	50.0	ND	110	76-132			
m,p-Xylene	106	2.00	"	100	ND	106	69-139			
o-Xylene	50.5	1.00	"	50.0	ND	101	74-131			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.8	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.7	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	84-114			

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LT Environmental, Inc.  
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Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**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 B7F2207 - EPA 5030B (Water)

Matrix Spike (B7F2207-MS2)	Source: Y706279-04			Prepared: 06/22/2017 Analyzed: 06/22/2017						
Benzene	47.3	1.00	ug/L	50.0	ND	94.6	74-130			
Toluene	48.2	1.00	"	50.0	ND	96.4	73-131			
Ethylbenzene	48.6	1.00	"	50.0	ND	97.2	76-132			
m,p-Xylene	98.3	2.00	"	100	ND	98.3	69-139			
o-Xylene	49.3	1.00	"	50.0	ND	98.6	74-131			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		90.0	84-121			
Surrogate: Toluene-d8	61		"	62.5		98.2	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**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 B7F2207 - EPA 5030B (Water)**

Matrix Spike Dup (B7F2207-MSD1)	Source: Y706277-01			Prepared: 06/22/2017 Analyzed: 06/22/2017						
Benzene	55.4	1.00	ug/L	50.0	0.490	110	74-130	5.45	20	
Toluene	55.0	1.00	"	50.0	ND	110	73-131	4.23	20	
Ethylbenzene	56.8	1.00	"	50.0	ND	114	76-132	2.82	20	
m,p-Xylene	109	2.00	"	100	ND	109	69-139	3.15	20	
o-Xylene	52.3	1.00	"	50.0	ND	105	74-131	3.56	20	
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		90.4	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.7	84-114			

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 Arvada CO 80003

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**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 B7F2207 - EPA 5030B (Water)**

Matrix Spike Dup (B7F2207-MSD2)	Source: Y706279-04			Prepared: 06/22/2017 Analyzed: 06/22/2017						
Benzene	54.7	1.00	ug/L	50.0	ND	109	74-130	14.5	20	
Toluene	56.1	1.00	"	50.0	ND	112	73-131	15.2	20	
Ethylbenzene	58.9	1.00	"	50.0	ND	118	76-132	19.2	20	
m,p-Xylene	117	2.00	"	100	ND	117	69-139	17.0	20	
o-Xylene	56.1	1.00	"	50.0	ND	112	74-131	12.9	20	
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.2	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.4	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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

Brian Sulzberger  
Project Number: KMG05183/WO #88438532  
Project: KMG - Anderson 41-27/Bohlender 2-27

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**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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---

Jen Pellegrini For Noelle Doyle Mathis, President



September 14, 2017

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

**Project Name - KMG - Anderson 41-27/Bohlender 2-27**    **Project Number - KMG05183/WO #884385**

Attached are your analytical results for KMG - Anderson 41-27/Bohlender 2-27 received by Origins Laboratory, Inc. September 06, 2017. This project is associated with Origins project number Y709067-01.

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: KMG05183/WO #88438532  
Project: KMG - Anderson 41-27/Bohlender 2-27

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01R	Y709067-01	Water	September 6, 2017 13:00	09/06/2017 17:05
MW02R	Y709067-02	Water	September 6, 2017 13:05	09/06/2017 17:05
MW03R	Y709067-03	Water	September 6, 2017 13:10	09/06/2017 17:05
MW04R2	Y709067-04	Water	September 6, 2017 13:15	09/06/2017 17:05
MW05	Y709067-05	Water	September 6, 2017 13:20	09/06/2017 17:05
MW06	Y709067-06	Water	September 6, 2017 13:25	09/06/2017 17:05

Origins Laboratory, Inc.



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

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**ORIGINS**  
 LABORATORY, INC

100001

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

Client: LT Environmental, Inc. Project Manager: Brian Sulzberger  
 Project: KMG - Anderson 41-27/Bohlender 2-27 Project Number: KMG05183/WO #88438532

Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MW01R	Water	9/6/17	1300	FD	40mL Clear Vial Cool to 4"	3	Filter sample BTEX by EPA 8260C
02-001	MW02R	Water	/	1305	/	40mL Clear Vial Cool to 4"	3	Filter sample BTEX by EPA 8260C
03-001	MW03R	Water	/	1310	/	40mL Clear Vial Cool to 4"	3	BTEX by EPA Filter sample 8260C
04-001	MW04R2	Water	/	1315	/	40mL Clear Vial Cool to 4"	3	BTEX by EPA Filter sample 8260C
05-001	MW05	Water	/	1320	/	40mL Clear Vial Cool to 4"	3	BTEX by EPA Filter sample 8260C
06-001	MW06	Water	-X	1325	↓	40mL Clear Vial Cool to 4"	3	BTEX by EPA Filter sample 8260C

Relinquished By: *[Signature]* Date / Time: 9/6/17 1705  
 Relinquished By: \_\_\_\_\_ Date / Time: \_\_\_\_\_  
 Received By: *[Signature]* Date / Time: 9-6-17 1705  
 Received By: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Temperature on Receipt: 9.6  
 Turn Around Time:  72-hr  Standard  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: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4709067

Client: LTE

Client Project ID: KMG-Anderson/Bohlender

Checklist Completed by: Dale

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

Date/time completed: 9-2-17 1033

Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 1 / 9.6 °c / \_\_\_\_\_ °c / \_\_\_\_\_ °c (Describe) \_\_\_\_\_ °c

Thermometer ID: T025

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)?</sup>		<input checked="" type="checkbox"/>		<u>sampled 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 <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)?</sup>		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked <sup>(1)?</sup> (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

<sup>(1)</sup>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) Dale

Date/Time Reviewed 9-2-17 1034

Origins Laboratory, Inc.



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

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**MW01R**  
**9/6/2017 1:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y709067-01 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B711103	09/11/2017	09/11/2017	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	99.5 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.6 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05183/WO #88438532  
Project: KMG - Anderson 41-27/Bohlender 2-27

**MW02R**  
**9/6/2017 1:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y709067-02 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B711103	09/11/2017	09/11/2017	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	99.6 %	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: KMG05183/WO #88438532  
Project: KMG - Anderson 41-27/Bohlender 2-27

**MW03R**  
**9/6/2017 1:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y709067-03 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B711103	09/11/2017	09/11/2017	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	96.3 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.5 %	84-114			"	"	"	

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

Brian Sulzberger  
Project Number: KMG05183/WO #88438532  
Project: KMG - Anderson 41-27/Bohlender 2-27

MW04R2  
9/6/2017 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y709067-04 (Water)

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B711103	09/11/2017	09/11/2017	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	99.8 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.0 %	84-114			"	"	"	

Origins Laboratory, Inc.



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LT Environmental, Inc.  
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 Arvada CO 80003

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**MW05**  
**9/6/2017 1:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y709067-05 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B711103	09/11/2017	09/11/2017	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	97.9 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.3 %	84-114			"	"	"	

Origins Laboratory, Inc.



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 Arvada CO 80003

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**MW06**  
**9/6/2017 1:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y709067-06 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B711103	09/11/2017	09/11/2017	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	99.2 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.6 %	84-114			"	"	"	

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 Arvada CO 80003

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**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 B711103 - EPA 5030B (Water)**

**Blank (B711103-BLK1)**

Prepared: 09/11/2017 Analyzed: 09/11/2017

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	84-121			
Surrogate: Toluene-d8	63		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**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 B711103 - EPA 5030B (Water)**

**LCS (B711103-BS1)**

Prepared: 09/11/2017 Analyzed: 09/11/2017

Benzene	46.4	1.00	ug/L	50.0		92.7	73.3-129			
Toluene	45.4	1.00	"	50.0		90.8	76.2-123			
Ethylbenzene	46.6	1.00	"	50.0		93.3	73.6-130			
m,p-Xylene	92.4	2.00	"	100		92.4	76.1-126			
o-Xylene	47.5	1.00	"	50.0		94.9	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.6	84-121			
Surrogate: Toluene-d8	62		"	62.5		100	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: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**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 B711103 - EPA 5030B (Water)**

<b>Matrix Spike (B711103-MS1)</b>	<b>Source: Y709064-03</b>			<b>Prepared: 09/11/2017 Analyzed: 09/11/2017</b>						
Benzene	52.6	1.00	ug/L	50.0	ND	105	74-130			
Toluene	52.7	1.00	"	50.0	ND	105	73-131			
Ethylbenzene	53.8	1.00	"	50.0	ND	108	76-132			
m,p-Xylene	108	2.00	"	100	ND	108	69-139			
o-Xylene	54.6	1.00	"	50.0	ND	109	74-131			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.2	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	84-114			

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LT Environmental, Inc.  
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 Arvada CO 80003

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**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 B711103 - EPA 5030B (Water)**

Matrix Spike Dup (B711103-MSD1)	Source: Y709064-03			Prepared: 09/11/2017 Analyzed: 09/11/2017						
Benzene	51.1	1.00	ug/L	50.0	ND	102	74-130	2.82	20	
Toluene	50.2	1.00	"	50.0	ND	100	73-131	4.96	20	
Ethylbenzene	51.5	1.00	"	50.0	ND	103	76-132	4.37	20	
m,p-Xylene	103	2.00	"	100	ND	103	69-139	4.62	20	
o-Xylene	52.3	1.00	"	50.0	ND	105	74-131	4.38	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.8	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.0	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		100	84-114			

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

Brian Sulzberger  
Project Number: KMG05183/WO #88438532  
Project: KMG - Anderson 41-27/Bohlender 2-27

---

**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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---

Jen Pellegrini For Noelle Doyle Mathis, President



December 13, 2017

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

**Project Name - KMG - Anderson 41-27/Bohlender 2-27**    **Project Number - KMG05183/WO #884385**

Attached are your analytical results for KMG - Anderson 41-27/Bohlender 2-27 received by Origins Laboratory, Inc. December 06, 2017. This project is associated with Origins project number Y712103-01.

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: KMG05183/WO #88438532  
Project: KMG - Anderson 41-27/Bohlender 2-27

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01R	Y712103-01	Water	December 6, 2017 9:45	12/06/2017 15:35
MW02R	Y712103-02	Water	December 6, 2017 9:50	12/06/2017 15:35
MW03R	Y712103-03	Water	December 6, 2017 9:55	12/06/2017 15:35
MW04R2	Y712103-04	Water	December 6, 2017 10:00	12/06/2017 15:35
MW05	Y712103-05	Water	December 6, 2017 10:05	12/06/2017 15:35
MW06	Y712103-06	Water	December 6, 2017 10:10	12/06/2017 15:35

Origins Laboratory, Inc.



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

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**ORIGINS**  
 LABORATORY, INC

Y712103

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

Client: LT Environmental, Inc. Project Manager: Brian Sulzberger  
 Project: KMG - Anderson 41-27/Bohlender 2-27 Project Number: KMG05183/WO #88438532 Phil Hawkins

Number	Sample Identification	Matrix	Sample Date	Sample Time	Container	QTY	Analyses
01-001	MW01R	Water	12/6/17	0945	40mL Clear Vial Cool to 4"	3	BTEX by EPA 8260C Filter sample
02-001	MW02R	Water		0950	40mL Clear Vial Cool to 4"	3	BTEX by EPA 8260C Filter sample
03-001	MW03R	Water		0955	40mL Clear Vial Cool to 4"	3	BTEX by EPA 8260C Filter sample
04-001	MW04R2	Water		1000	40mL Clear Vial Cool to 4"	3	BTEX by EPA 8260C Filter sample
05-001	MW05	Water		1005	40mL Clear Vial Cool to 4"	3	BTEX by EPA 8260C Filter sample
06-001	MW06	Water		1010	40mL Clear Vial Cool to 4"	3	BTEX by EPA 8260C Filter sample

Relinquished By: *[Signature]* Date / Time: 12/6/17 1535  
 Received By: *[Signature]* Date / Time: 12-6-17 1535

Relinquished By: \_\_\_\_\_ Date / Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Temperature on Receipt: 0.3  
 Turn Around Time:  72-hr  Standard  
 Same Day:  24-hr  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: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4712103 Client: LTE  
 Client Project ID: KMG-Anderson  
 Checklist Completed by: D. Lu Shipped Via: HD  
 Date/time completed: 12-7-11 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: NA  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 / 0.3 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)  
 Thermometer ID: T002

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / ( pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

<sup>(1)</sup>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)

Date/Time Reviewed 12-7-11

Origins Laboratory, Inc.



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

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**MW01R**  
**12/6/2017 9:45:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y712103-01 (Water)**

**BTEX by EPA 8260C**

Benzene	1.40	1.00	ug/L	1	B7L1203	12/12/2017	12/13/2017	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	3.99	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	116 %	84-121			"	"	12/12/2017	
Surrogate: Toluene-d8	104 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**MW02R**  
**12/6/2017 9:50:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y712103-02 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B7L1203	12/12/2017	12/12/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	118 %	84-121			"	"	"	
Surrogate: Toluene-d8	97.7 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	110 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**MW03R**

**12/6/2017 9:55:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y712103-03 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B7L1203	12/12/2017	12/12/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	117 %	84-121			"	"	"	
Surrogate: Toluene-d8	107 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	109 %	84-114			"	"	"	

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LT Environmental, Inc.  
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 Arvada CO 80003

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**MW04R2**

**12/6/2017 10:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y712103-04 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B7L1203	12/12/2017	12/12/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	116 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.8 %	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: KMG05183/WO #88438532  
Project: KMG - Anderson 41-27/Bohlender 2-27

**MW05**  
**12/6/2017 10:05:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y712103-05 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B7L1203	12/12/2017	12/12/2017	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	106 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	110 %	84-114			"	"	"	

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LT Environmental, Inc.  
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 Arvada CO 80003

Brian Sulzberger  
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 Project: KMG - Anderson 41-27/Bohlender 2-27

**MW06**

**12/6/2017 10:10:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y712103-06 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B7L1203	12/12/2017	12/12/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	119 %	84-121			"	"	"	
Surrogate: Toluene-d8	107 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %	84-114			"	"	"	

Origins Laboratory, Inc.



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 4600 West 60th Avenue  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**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 B7L1203 - EPA 5030B (Water)**

**Blank (B7L1203-BLK1)**

Prepared: 12/12/2017 Analyzed: 12/12/2017

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	75		"	62.5	120		84-121			
Surrogate: Toluene-d8	67		"	62.5	107		85-115			
Surrogate: 4-Bromofluorobenzene	58		"	62.5	93.2		84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**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 B7L1203 - EPA 5030B (Water)**

**Blank (B7L1203-BLK2)**

Prepared: 12/12/2017 Analyzed: 12/12/2017

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	76		"	62.5	121		84-121			
Surrogate: Toluene-d8	66		"	62.5	105		85-115			
Surrogate: 4-Bromofluorobenzene	70		"	62.5	112		84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**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 B7L1203 - EPA 5030B (Water)**

**LCS (B7L1203-BS1)**

Prepared: 12/12/2017 Analyzed: 12/12/2017

Benzene	47.6	1.00	ug/L	50.0		95.3	73.3-129			
Toluene	49.2	1.00	"	50.0		98.5	76.2-123			
Ethylbenzene	49.1	1.00	"	50.0		98.2	73.6-130			
m,p-Xylene	101	2.00	"	100		101	76.1-126			
o-Xylene	53.7	1.00	"	50.0		107	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.8	84-121			
Surrogate: Toluene-d8	68		"	62.5		110	85-115			
Surrogate: 4-Bromofluorobenzene	71		"	62.5		114	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**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 B7L1203 - EPA 5030B (Water)**

**LCS (B7L1203-BS2)**

Prepared: 12/12/2017 Analyzed: 12/12/2017

Benzene	44.5	1.00	ug/L	50.0		88.9	73.3-129			
Toluene	47.8	1.00	"	50.0		95.5	76.2-123			
Ethylbenzene	48.7	1.00	"	50.0		97.4	73.6-130			
m,p-Xylene	101	2.00	"	100		101	76.1-126			
o-Xylene	52.4	1.00	"	50.0		105	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.3	84-121			
Surrogate: Toluene-d8	69		"	62.5		110	85-115			
Surrogate: 4-Bromofluorobenzene	70		"	62.5		112	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**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 B7L1203 - EPA 5030B (Water)**

<b>Matrix Spike (B7L1203-MS1)</b>	<b>Source: Y712102-01</b>			<b>Prepared: 12/12/2017 Analyzed: 12/12/2017</b>						
Benzene	41.0	1.00	ug/L	50.0	ND	82.1	74-130			
Toluene	41.2	1.00	"	50.0	ND	82.5	73-131			
Ethylbenzene	44.6	1.00	"	50.0	ND	89.1	76-132			
m,p-Xylene	91.3	2.00	"	100	ND	91.3	69-139			
o-Xylene	46.6	1.00	"	50.0	ND	93.3	74-131			
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	84-121			
Surrogate: Toluene-d8	65		"	62.5		104	85-115			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**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 B7L1203 - EPA 5030B (Water)**

<b>Matrix Spike (B7L1203-MS2)</b>	<b>Source: Y712102-02</b>			<b>Prepared: 12/12/2017 Analyzed: 12/12/2017</b>						
Benzene	38.6	1.00	ug/L	50.0	ND	77.1	74-130			
Toluene	40.9	1.00	"	50.0	ND	81.8	73-131			
Ethylbenzene	43.7	1.00	"	50.0	ND	87.4	76-132			
m,p-Xylene	89.9	2.00	"	100	ND	89.9	69-139			
o-Xylene	45.6	1.00	"	50.0	ND	91.2	74-131			
Surrogate: 1,2-Dichloroethane-d4	74		"	62.5		119	84-121			
Surrogate: Toluene-d8	66		"	62.5		106	85-115			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	84-114			

Origins Laboratory, Inc.



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LT Environmental, Inc.  
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 Arvada CO 80003

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**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 B7L1203 - EPA 5030B (Water)**

Matrix Spike Dup (B7L1203-MSD1)	Source: Y712102-01			Prepared: 12/12/2017 Analyzed: 12/12/2017						
Benzene	41.8	1.00	ug/L	50.0	ND	83.6	74-130	1.86	20	
Toluene	41.6	1.00	"	50.0	ND	83.2	73-131	0.893	20	
Ethylbenzene	42.4	1.00	"	50.0	ND	84.8	76-132	4.94	20	
m,p-Xylene	87.6	2.00	"	100	ND	87.6	69-139	4.15	20	
o-Xylene	44.8	1.00	"	50.0	ND	89.5	74-131	4.14	20	
Surrogate: 1,2-Dichloroethane-d4	72		"	62.5		116	84-121			
Surrogate: Toluene-d8	69		"	62.5		111	85-115			
Surrogate: 4-Bromofluorobenzene	69		"	62.5		110	84-114			

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 Arvada CO 80003

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**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 B7L1203 - EPA 5030B (Water)**

Matrix Spike Dup (B7L1203-MSD2)	Source: Y712102-02			Prepared: 12/12/2017 Analyzed: 12/12/2017						
Benzene	39.9	1.00	ug/L	50.0	ND	79.8	74-130	3.37	20	
Toluene	39.0	1.00	"	50.0	ND	78.0	73-131	4.71	20	
Ethylbenzene	43.4	1.00	"	50.0	ND	86.8	76-132	0.758	20	
m,p-Xylene	89.1	2.00	"	100	ND	89.1	69-139	0.938	20	
o-Xylene	45.1	1.00	"	50.0	ND	90.2	74-131	1.08	20	
Surrogate: 1,2-Dichloroethane-d4	75		"	62.5		120	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	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: KMG05183/WO #88438532  
Project: KMG - Anderson 41-27/Bohlender 2-27

---

**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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March 07, 2018

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada CO 80003

**Project Name - KMG - Anderson 41-27/Bohlender 2-27**    **Project Number - KMG05183/WO #884385**

Attached are your analytical results for KMG - Anderson 41-27/Bohlender 2-27 received by Origins Laboratory, Inc. March 01, 2018. This project is associated with Origins project number Y803035-01.

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: KMG05183/WO #88438532  
Project: KMG - Anderson 41-27/Bohlender 2-27

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01R	Y803035-01	Water	March 1, 2018 12:40	03/01/2018 15:50
MW02R	Y803035-02	Water	March 1, 2018 12:45	03/01/2018 15:50
MW03R	Y803035-03	Water	March 1, 2018 12:50	03/01/2018 15:50
MW04R2	Y803035-04	Water	March 1, 2018 12:55	03/01/2018 15:50
MW05	Y803035-05	Water	March 1, 2018 13:00	03/01/2018 15:50
MW06	Y803035-06	Water	March 1, 2018 13:05	03/01/2018 15:50

Origins Laboratory, Inc.



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

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**ORIGINS**  
 LABORATORY, INC

Y903035

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

Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MW01R	Water	3-1-18	1240	DH	01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C Filler sample
02-001	MW02R	Water	↓	1245		01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C Filler sample
03-001	MW03R	Water		1250		01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C Filler sample
04-001	MW04R2	Water		1255		01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C Filler sample
05-001	MW05	Water	↓	1300		01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C Filler sample
06-001	MW06	Water		1305		01_40mL Clear Vial Cool to 4° C	3	BTEX by EPA 8260C Filler sample

Relinquished By: [Signature] Date / Time: 3-1-18 1550  
 Relinquished By: [Signature] Date / Time: 3-1-18 1550  
 Received By: \_\_\_\_\_ Date / Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Temperature on Receipt: 93  
 Turn Around Time:  72-hr  Standard  
 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: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1803035

Client: LTE

Client Project ID: KMG-Anderson 41-27/Bohlender 2

Checklist Completed by: SG

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

Date/time completed: 3/2/18

Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 1 / 9.3 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °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 <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<i>Same Day Sampled</i>
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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

<sup>(1)</sup>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 JP (Project Manager)

3/5/18  
 Date/Time Reviewed

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: KMG05183/WO #88438532  
Project: KMG - Anderson 41-27/Bohlender 2-27

**MW01R**  
**3/1/2018 12:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y803035-01 (Water)**

**BTEX by EPA 8260C**

Benzene	1.86	1.00	ug/L	1	B8C0606	03/06/2018	03/06/2018	
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	99.1 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**MW02R**  
**3/1/2018 12:45:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y803035-02 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B8C0606	03/06/2018	03/06/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	84-121			"	"	"	
Surrogate: Toluene-d8	106 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.1 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**MW03R**  
**3/1/2018 12:50:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y803035-03 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B8C0606	03/06/2018	03/06/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	107 %	84-121			"	"	"	
Surrogate: Toluene-d8	93.9 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	84-114			"	"	"	

Origins Laboratory, Inc.



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 Arvada CO 80003

Brian Sulzberger  
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 Project: KMG - Anderson 41-27/Bohlender 2-27

MW04R2  
 3/1/2018 12:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y803035-04 (Water)

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B8C0606	03/06/2018	03/06/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	107 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.4 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.0 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**MW05**  
**3/1/2018 1:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y803035-05 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B8C0606	03/06/2018	03/06/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	113 %	84-121			"	"	"	
Surrogate: Toluene-d8	112 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.4 %	84-114			"	"	"	

Origins Laboratory, Inc.



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 Arvada CO 80003

Brian Sulzberger  
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 Project: KMG - Anderson 41-27/Bohlender 2-27

**MW06**  
**3/1/2018 1:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y803035-06 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B8C0606	03/06/2018	03/06/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	108 %	84-121			"	"	"	
Surrogate: Toluene-d8	95.1 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.1 %	84-114			"	"	"	

Origins Laboratory, Inc.



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 4600 West 60th Avenue  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**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 B8C0606 - EPA 5030B (Water)**

**Blank (B8C0606-BLK1)**

Prepared: 03/06/2018 Analyzed: 03/06/2018

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	68		"	62.5	110		84-121			
Surrogate: Toluene-d8	59		"	62.5	93.7		85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5	105		84-114			

Origins Laboratory, Inc.



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 4600 West 60th Avenue  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**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 B8C0606 - EPA 5030B (Water)**

**LCS (B8C0606-BS1)**

Prepared: 03/06/2018 Analyzed: 03/06/2018

Benzene	50.5	1.00	ug/L	50.0		101	73.3-129			
Toluene	49.2	1.00	"	50.0		98.5	76.2-123			
Ethylbenzene	50.8	1.00	"	50.0		102	73.6-130			
m,p-Xylene	101	2.00	"	100		101	76.1-126			
o-Xylene	51.0	1.00	"	50.0		102	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	74		"	62.5		119	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	71		"	62.5		114	84-114			

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

Brian Sulzberger  
 Project Number: KMG05183/WO #88438532  
 Project: KMG - Anderson 41-27/Bohlender 2-27

**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 B8C0606 - EPA 5030B (Water)**

<b>Matrix Spike (B8C0606-MS1)</b>	<b>Source: Y803035-01</b>			<b>Prepared: 03/06/2018 Analyzed: 03/06/2018</b>						
Benzene	57.7	1.00	ug/L	50.0	1.86	112	74-130			
Toluene	51.9	1.00	"	50.0	ND	104	73-131			
Ethylbenzene	54.1	1.00	"	50.0	ND	108	76-132			
m,p-Xylene	107	2.00	"	100	0.770	106	69-139			
o-Xylene	53.7	1.00	"	50.0	ND	107	74-131			
Surrogate: 1,2-Dichloroethane-d4	72		"	62.5		115	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.6	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	84-114			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B8C0606 - EPA 5030B (Water)**

Matrix Spike Dup (B8C0606-MSD1)	Source: Y803035-01			Prepared: 03/06/2018 Analyzed: 03/06/2018						
Benzene	59.0	1.00	ug/L	50.0	1.86	114	74-130	2.13	20	
Toluene	55.5	1.00	"	50.0	ND	111	73-131	6.76	20	
Ethylbenzene	55.5	1.00	"	50.0	ND	111	76-132	2.59	20	
m,p-Xylene	112	2.00	"	100	0.770	111	69-139	4.59	20	
o-Xylene	56.7	1.00	"	50.0	ND	113	74-131	5.35	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.0	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	84-114			

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**Notes and Definitions**

U Sample is Non-Detect.  
ND Analyte NOT DETECTED at or above the reporting limit  
RPD Relative Percent Difference

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