

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**CULLEN ODENBAUGH C UT #1/ STANLEY ODENBAUGH 13-12**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**

Soil Sample ID	Depth (bgs)	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	DRO (mg/kg)	GRO (mg/kg)	ORO (mg/kg)	pH (su)	Specific Conductance (mmhos/cm)
E01@3.5	3.5'	11/14/2005	NA	NA	NA	NA	ND	NA	NA	NA	NA
EDL@3.5	3.5'	11/14/2005	NA	NA	NA	NA	74	NA	NA	NA	NA
N01@3.5	3.5'	11/14/2005	NA	NA	NA	NA	ND	NA	NA	NA	NA
S01@3.5	3.5'	11/14/2005	NA	NA	NA	NA	96	NA	NA	NA	NA
W01@3.5	3.5'	11/14/2005	NA	NA	NA	NA	ND	NA	NA	NA	NA
E01@3'	3'	11/03/2017	0.112	<0.050	<0.050	<0.050	<25.0	30.4	<100	8.12	0.118
N01@3'	3'	11/03/2017	<0.050	<0.050	<0.050	<0.050	<25.0	8.23	<100	8.40	0.196
N02@3'	3'	11/03/2017	<0.050	<0.050	<0.050	<0.050	<b>282</b>	<b>1050</b>	<b>&lt;100</b>	8.43	0.145
S01@3'	3'	11/03/2017	0.067	<0.050	4.47	62.0	<b>128</b>	<b>682</b>	<b>&lt;100</b>	8.80	0.113
S02@3'	3'	11/03/2017	<0.050	<0.050	<0.050	0.118	55.8	169	<100	8.60	0.153
W01@3'	3'	11/03/2017	<b>3.02</b>	1.13	12.2	<b>389</b>	<b>623</b>	<b>2770</b>	<b>&lt;100</b>	8.43	0.166
E02@1'	1'	11/08/2017	<0.050	<0.050	<0.050	<0.050	34.0	7.02	<100	8.75	0.239
N03@1'	1'	11/08/2017	<0.050	<0.050	<0.050	<0.050	<25.0	<5.00	<100	8.86	0.184
N04@1'	1'	11/08/2017	0.074	<0.050	0.318	3.59	<25.0	81.1	<100	8.86	0.251
S03@1'	1'	11/08/2017	<0.050	<0.050	<0.050	<0.050	<25.0	<5.00	<100	8.72	0.126
S04@1'	1'	11/08/2017	<0.050	<0.050	<0.050	<0.050	<25.0	<5.00	<100	8.97	0.219
S05@1'	1'	11/08/2017	<0.050	<0.050	<0.050	<0.050	<25.0	<5.00	<100	8.92	0.134
W02@1'	1'	11/08/2017	<0.050	<0.050	<0.050	<0.050	<25.0	<5.00	<100	8.53	0.203



**TABLE 1 (Continued)**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
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**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**

Soil Sample ID	Depth (bgs)	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	DRO (mg/kg)	GRO (mg/kg)	ORO (mg/kg)	pH (su)	Specific Conductance (mmhos/cm)
W03@1'	1'	11/08/2017	<0.050	<0.050	<0.050	<0.050	<25.0	32.0	<100	8.14	0.416
<b>COGCC Allowable Levels</b>			<b>0.17</b>	<b>85</b>	<b>100</b>	<b>175</b>	<b>500*</b>	<b>500*</b>	<b>500*</b>	<b>6-9</b>	<b>4</b>

Notes: bgs - below ground surface

COGCC - Colorado Oil and Gas Conservation Commission

DRO - diesel range organics

GRO - gasoline range organics

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

NA - not analyzed/not available

ORO - oil range organics

su - standard units

TPH - total petroleum hydrocarbons

\* - TPH standard applies to combined DRO-GRO-ORO

< - less than laboratory reporting limit

Bold indicates result exceeds allowable level.



**TABLE 2**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**CULLEN ODENBAUGH C UT #1/ STANLEY ODENBAUGH 13-12**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**

<b>Well Name</b>	<b>Date</b>	<b>Benzene (µg/L)</b>	<b>Toluene (µg/L)</b>	<b>Ethylbenzene (µg/L)</b>	<b>Total Xylenes (µg/L)</b>	<b>Depth Water/ (Product Thickness) (ft bgs)</b>	<b>Relative GW Elev. (ft)</b>
GW01	11/9/2017	5.80	<4.00	<4.00	<4.00	2	NA
GW02	11/9/2017	13.8	<4.00	<4.00	4.56	2	NA
OW01	11/14/2005	87	45	210	3909	4	NA
MW01	2/1/2006	1500	1.1	160	1000	4.06	93.89
	3/29/2006	1300	<1.0	94	330	3.90	93.85
	6/16/2006	2000	<1.0	140	6000	3.65	94.10
	9/22/2006	2600	<1.0	94	410	3.33	94.42
	12/27/2006	990	<1.0	140	380	3.22	94.53
	3/14/2007	940	<1.0	41	410	2.65	95.10
	6/14/2007	1900	<1.0	17	390	NM	NA
	9/14/2007	1200	<1.0	33	220	2.75	95.00
	12/11/2007	1700	<1.0	34	110	3.78	93.97
	3/5/2008	2100	<1.0	72	320	2.64	95.11
	6/10/2008	2500	<1.0	54	190	4.50	93.25
	9/17/2008	1000	<1.0	1.4	46	2.33	95.43
	12/5/2008	1600	<1.0	9.4	2.7	3.84	93.91
	3/30/2009	45	<1.0	1.0	<1.0	NM	NA
	6/26/2009	1200	<1.0	23	25	1.61	96.14
	9/25/2009	420	<1.0	5.5	11	2.44	95.31
	12/14/2009	620	<1.0	2.3	10	2.48	95.27
	3/4/2010	290	<1.0	4.0	11	2.37	95.38
	6/18/2010	230	<1.0	<1.0	3.1	1.76	95.99
	9/2/2010	760	<1.0	4.7	16	2.89	94.86
	12/3/2010	1300	<1.0	29	130	2.81	94.94
	3/16/2011	1700	<1.0	44	200	2.90	94.85
	6/7/2011	1100	<1.0	<1.0	44	2.50	95.25
	9/7/2011	2600	<1.0	15	85	2.71	95.04
	12/9/2011	350	<1.0	13	17	2.66	95.09
	3/8/2012	290	<1.0	3.6	17	2.75	95.05



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**CULLEN ODENBAUGH C UT #1/ STANLEY ODENBAUGH 13-12**  
**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)
	6/18/2012	260	<1.0	<1.0	<1.0	2.77	94.98
	9/14/2012	260	<1.0	<1.0	12	3.28	94.47
	12/11/2012	140	<1.0	<1.0	<1.0	5.20	92.55
	3/14/2013	240	<1.0	1.1	22	3.68	94.07
	6/19/2013	110	<1.0	<1.0	<1.0	2.95	94.80
	9/17/2013	360	<1.0	4.2	79	0.36	97.39
	12/5/2013	413	<10.0	<10.0	81.5	3.45	94.30
	12/6/2013	Surveyed - Not Sampled				2.89	95.19
	3/11/2014	305	<4.0	4.0	65.2	2.11	95.64
	6/9/2014	597	<1.0	10.5	53.9	2.00	96.08
	9/30/2014	428	<4.0	<4.0	92.5	1.72	96.36
	12/8/2014	45.8	<10.0	<10.0	<10.0	2.87	95.21
	3/13/2015	732	<10.0	22.9	86.7	2.94	95.14
	6/25/2015	305	<10.0	<10.0	30.6	1.90	96.18
	9/9/2015	283	<4.0	<4.0	115	2.91	95.17
	12/24/2015	76.0	<4.0	<4.0	68.0	2.97	95.11
	3/3/2016	<1.0	<1.0	<1.0	<1.0	2.93	95.15
	6/15/2016	<1.00	<1.00	24.4	172	2.15	95.93
	9/8/2016	86.6	<1.00	1.41	38.2	4.82	NA
	12/5/2016	317	<1.00	5.44	228	3.12	94.96
	3/9/2017	249	<1.00	3.43	60.0	3.53	94.55
	6/5/2017	310	<4.00	4.96	10.8	2.38	95.70
	9/12/2017	277	<4.00	<4.00	25.2	2.98	95.10

MW01 destroyed as of 11/3/2017

MW02	2/1/2006	56	<1.0	180	400	3.63	NA
	3/29/2006	9.7	<1.0	18	85	3.32	NA
	6/16/2006	6.8	<1.0	19	93	3.07	NA
	9/22/2006	18	<1.0	6.5	<1.0	2.70	NA
	12/27/2006	20	<1.0	6.3	3.0	2.55	NA
	3/14/2007	2.0	<1.0	<1.0	<1.0	1.91	NA

MW02 destroyed as of 6/14/2007



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**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)
MW02R	4/16/2008	1.8	<1.0	1.3	17	3.30	95.35
	6/10/2008	<1.0	<1.0	1.0	11	3.32	95.37
	9/17/2008	<1.0	<1.0	<1.0	<1.0	2.95	95.74
	12/5/2008	<1.0	<1.0	<1.0	<1.0	3.38	95.31
	3/30/2009	<1.0	<1.0	<1.0	<1.0	NM	NA
	6/26/2009	1.6	<1.0	<1.0	<1.0	2.57	96.12
	9/25/2009	<1.0	<1.0	<1.0	<1.0	3.23	95.46
	12/14/2009	<1.0	<1.0	<1.0	<1.0	3.21	95.48
	3/4/2010	<1.0	<1.0	<1.0	<1.0	3.71	94.98
	6/18/2010	<1.0	<1.0	<1.0	<1.0	2.59	96.10
	9/2/2010	<1.0	<1.0	<1.0	<1.0	3.59	95.10
	12/3/2010	<1.0	<1.0	<1.0	<1.0	3.60	95.09
	3/16/2011	<1.0	<1.0	<1.0	<1.0	3.83	94.86
	6/7/2011	<1.0	<1.0	<1.0	<1.0	3.42	95.27
	9/7/2011	<1.0	<1.0	<1.0	<1.0	3.42	95.27
	12/9/2011	<1.0	<1.0	<1.0	<1.0	3.41	95.29
	3/8/2012	<1.0	<1.0	<1.0	<1.0	3.67	95.02
	6/18/2012	<1.0	<1.0	<1.0	<1.0	3.54	95.15
	9/14/2012	<1.0	<1.0	<1.0	<1.0	4.16	94.53
	12/11/2012	<1.0	<1.0	<1.0	<1.0	3.85	94.84
	3/14/2013	1.2	<1.0	<1.0	2.7	4.35	94.34
	6/19/2013	<b>7.9</b>	<1.0	4.3	20	3.78	94.91
	9/17/2013	<1.0	<1.0	<1.0	<1.0	1.08	97.61
	12/5/2013	<1.0	<1.0	<1.0	<1.0	3.15	95.54
	12/6/2013	Surveyed - Not Sampled				2.53	95.48
	3/11/2014	<4.0	<4.0	<4.0	<4.0	3.30	95.39
	6/9/2014	<1.0	<1.0	<1.0	<1.0	2.23	95.78
	9/30/2014	<1.0	<1.0	<1.0	<1.0	2.44	95.57
	12/8/2014	<1.0	<1.0	<1.0	<1.0	2.67	95.34
	3/13/2015	<1.0	<1.0	<1.0	<1.0	2.54	95.47
	6/25/2015	<1.0	<1.0	<1.0	<1.0	1.43	96.58



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**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)
	9/9/2015	<1.0	<1.0	<1.0	<1.0	2.84	95.17
	12/24/2015	<1.0	<1.0	<1.0	<1.0	2.95	95.06
	3/3/2016	<1.0	<1.0	<1.0	<1.0	2.93	95.08
	6/15/2016	<1.00	<1.00	<1.00	<1.00	1.95	96.06
	9/8/2016	<1.00	<1.00	<1.00	<1.00	2.68	95.33
	12/5/2016	<1.00	<1.00	<1.00	<1.00	2.82	95.19
	3/9/2017	<1.00	<1.00	<1.00	<1.00	3.13	94.66
	6/5/2017	<1.00	<1.00	<1.00	<1.00	1.95	95.84
	9/12/2017	<1.00	<1.00	<1.00	<1.00	2.69	95.10

MW02R destroyed as of 11/3/2017

MW03	2/1/2006	<b>1200</b>	<1.0	220	<b>3000</b>	4.14	NA
	3/29/2006	<b>220</b>	<1.0	61	660	3.32	NA
	6/16/2006	<b>1600</b>	<1.0	150	1100	3.11	NA
	9/22/2006	<b>920</b>	<1.0	20	190	2.63	NA
	12/27/2006	<b>1900</b>	<1.0	150	760	2.48	NA
	3/14/2007	<b>420</b>	<1.0	18	73	Damaged	NA

MW03 destroyed as of 6/14/2007

MW03R	4/16/2008	<b>97</b>	<1.0	120	23	3.05	95.35
	6/10/2008	<b>58</b>	<1.0	24	2.4	3.77	94.64
	9/17/2008	<b>51</b>	<1.0	2.9	<1.0	2.73	95.68
	12/5/2008	<b>41</b>	<1.0	17	<1.0	3.53	94.88
	3/30/2009	2.2	<1.0	<1.0	<1.0	NM	NA
	6/26/2009	<b>60</b>	<1.0	5.1	3.3	2.03	96.38
	9/25/2009	<b>45</b>	<1.0	4.2	<1.0	3.06	95.35
	12/14/2009	<b>46</b>	<1.0	6.6	<1.0	3.05	95.36
	3/4/2010	<b>30</b>	<1.0	3.1	<1.0	3.52	94.89
	6/18/2010	<b>24</b>	<1.0	<1.0	<1.0	2.47	95.94
	9/2/2010	<b>17</b>	<1.0	<1.0	<1.0	3.60	94.81
	12/3/2010	<b>8.1</b>	<1.0	<1.0	<1.0	3.42	94.99
	3/16/2011	<b>11</b>	<1.0	<1.0	<1.0	3.63	94.78



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**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)
	6/7/2011	21	<1.0	<1.0	<1.0	3.22	95.19
	9/7/2011	54	<1.0	<1.0	<1.0	3.43	94.98
	12/9/2011	4.8	<1.0	<1.0	<1.0	3.33	95.08
	3/8/2012	3.6	<1.0	<1.0	<1.0	3.49	94.92
	6/18/2012	2.0	<1.0	<1.0	<1.0	3.47	94.94
	9/14/2012	<1.0	<1.0	<1.0	<1.0	4.08	94.33
	12/11/2012	<1.0	<1.0	<1.0	<1.0	3.83	94.58
	3/14/2013	5.2	<1.0	<1.0	<1.0	4.25	94.16
	6/19/2013	1.7	<1.0	<1.0	<1.0	3.65	94.76
	9/17/2013	31	<1.0	1.1	<1.0	1.15	97.26
	12/5/2013	8.1	<1.0	<1.0	<1.0	3.16	95.25
	12/6/2013	Surveyed - Not Sampled				3.03	95.20
	3/11/2014	64.2	<1.0	<1.0	2.5	2.78	95.63
	6/9/2014	40.8	<1.0	1.0	<1.0	2.58	95.65
	9/30/2014	4.9	<1.0	<1.0	<1.0	2.55	95.68
	12/8/2014	<1.0	<1.0	<1.0	<1.0	3.14	95.09
	3/13/2015	1.2	<1.0	<1.0	<1.0	2.82	95.41
	6/25/2015	25.9	<1.0	1.4	<1.0	1.70	96.53
	9/9/2015	<1.0	<1.0	<1.0	<1.0	2.97	95.26
	12/24/2015	<4.0	<4.0	<4.0	<4.0	3.09	95.14
	3/3/2016	<1.0	<1.0	<1.0	<1.0	3.03	95.20
	6/15/2016	24.0	<1.00	<1.00	<1.00	2.24	95.99
	9/8/2016	2.10	<1.00	<1.00	<1.00	2.95	95.28
	12/5/2016	1.54	<1.00	<1.00	<1.00	3.19	95.04
	3/9/2017	<1.00	<1.00	<1.00	<1.00	3.51	94.72
	6/5/2017	<4.00	<4.00	<4.00	<4.00	2.22	96.01
	9/12/2017	<1.00	<1.00	<1.00	<1.00	3.07	95.16
MW03R destroyed as of 11/3/2017							
MW04	3/29/2006	<1.0	<1.0	<1.0	4.1	3.48	94.16
	6/16/2006	<1.0	<1.0	<1.0	<1.0	3.23	94.41
	9/22/2006	<1.0	<1.0	<1.0	<1.0	2.90	94.74



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**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)
	12/27/2006	<1.0	<1.0	<1.0	<1.0	2.46	95.18
	3/14/2007	<1.0	<1.0	<1.0	<1.0	2.03	95.61
	6/14/2007	<1.0	<1.0	<1.0	<1.0	NM	NA
	9/14/2007	<1.0	<1.0	<1.0	<1.0	2.15	95.49
	12/11/2007	<1.0	<1.0	<1.0	<1.0	3.18	94.46
	3/5/2008	<1.0	<1.0	<1.0	<1.0	2.01	95.63
	6/10/2008	<1.0	<1.0	<1.0	<1.0	2.06	95.58
	9/17/2008	<1.0	<1.0	<1.0	<1.0	1.75	95.89
	12/5/2008	<1.0	<1.0	<1.0	<1.0	2.82	94.82
	3/30/2009	<1.0	<1.0	<1.0	<1.0	NM	NA
	6/26/2009	<1.0	<1.0	<1.0	<1.0	1.35	96.29
	9/25/2009	<1.0	<1.0	<1.0	<1.0	2.06	94.58
	12/14/2009	<1.0	<1.0	<1.0	<1.0	2.99	95.65
	3/4/2010	<1.0	<1.0	<1.0	<1.0	2.50	95.14
	6/18/2010	<1.0	<1.0	<1.0	<1.0	1.31	96.33
	9/2/2010	<1.0	<1.0	<1.0	<1.0	2.40	95.24
	12/3/2010	<1.0	<1.0	<1.0	<1.0	2.39	95.25
	3/16/2011	<1.0	<1.0	<1.0	<1.0	2.71	94.93
	6/7/2011	<1.0	<1.0	<1.0	<1.0	2.16	95.48
	9/7/2011	Removed from monitoring					NM
12/6/2013	Surveyed - Not Sampled					2.38	95.67
	MW04 destroyed as of 11/3/2017						
MW05	3/29/2006	<1.0	<1.0	<1.0	<1.0	3.47	92.48
	6/16/2006	<1.0	<1.0	<1.0	<1.0	3.51	92.44
	9/22/2006	<1.0	<1.0	<1.0	<1.0	3.00	92.95
	12/27/2006	<1.0	<1.0	<1.0	<1.0	2.94	93.01
	3/14/2007	<1.0	<1.0	<1.0	<1.0	2.22	93.73
	6/14/2007	<1.0	<1.0	<1.0	<1.0	NM	NA
	9/14/2007	<1.0	<1.0	<1.0	<1.0	2.51	93.44
	12/11/2007	<1.0	<1.0	<1.0	<1.0	3.54	92.41
	3/5/2008	<1.0	<1.0	<1.0	<1.0	2.33	93.62





**TABLE 2**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**CULLEN ODENBAUGH C UT #1/ STANLEY ODENBAUGH 13-12**  
**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)
	6/10/2008	<1.0	<1.0	<1.0	<1.0	2.47	93.48
	9/17/2008	<1.0	<1.0	<1.0	<1.0	1.95	94.00
	12/5/2008	<1.0	<1.0	<1.0	<1.0	3.01	92.96
	3/30/2009	<1.0	<1.0	<1.0	<1.0	NM	NA
	6/26/2009	<1.0	<1.0	<1.0	<1.0	1.40	94.55
	9/25/2009	<1.0	<1.0	<1.0	<1.0	2.13	93.82
	12/14/2009	<1.0	<1.0	<1.0	<1.0	2.04	93.91
	3/4/2010	<1.0	<1.0	<1.0	<1.0	PVC Broken	94.58
	6/18/2010	<1.0	<1.0	<1.0	<1.0	2.21	95.55
	9/2/2010	<1.0	<1.0	<1.0	<1.0	3.21	94.55
	12/3/2010	<1.0	<1.0	<1.0	<1.0	3.03	94.73
	3/16/2011	<1.0	<1.0	<1.0	<1.0	3.13	94.63
	6/7/2011	<1.0	<1.0	<1.0	<1.0	2.93	94.83
	9/7/2011	<1.0	<1.0	<1.0	<1.0	2.83	94.93
	12/9/2011	<1.0	<1.0	<1.0	<1.0	2.73	95.03
	3/8/2012	Dry - Not Sampled				Dry	NA
	6/18/2012	<1.0	<1.0	<1.0	<1.0	3.72	94.04
	9/14/2012	<1.0	<1.0	<1.0	<1.0	3.48	94.28
	12/11/2012	<1.0	<1.0	<1.0	<1.0	5.23	92.53
	3/14/2013	<1.0	<1.0	<1.0	<1.0	3.47	94.29
	6/19/2013	<1.0	<1.0	<1.0	<1.0	3.09	94.67
	9/17/2013	<1.0	<1.0	<1.0	<1.0	0.48	97.28
	12/5/2013	<1.0	<1.0	<1.0	<1.0	2.40	95.36
	12/6/2013	Surveyed - Not Sampled				2.78	95.34
	3/11/2014	<1.0	<1.0	<1.0	<1.0	2.52	95.24
	6/9/2014	<1.0	<1.0	<1.0	<1.0	2.53	95.59
	9/30/2014	<1.0	<1.0	<1.0	<1.0	2.72	95.40
	12/8/2014	<1.0	<1.0	<1.0	<1.0	2.93	95.19
	3/13/2015	<1.0	<1.0	<1.0	<1.0	2.91	95.21
	6/25/2015	<1.0	<1.0	<1.0	<1.0	1.71	96.41
	9/9/2015	<1.0	<1.0	<1.0	<1.0	3.21	94.91
	12/24/2015	<1.0	<1.0	<1.0	<1.0	3.05	95.07



**TABLE 2**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**CULLEN ODENBAUGH C UT #1/ STANLEY ODENBAUGH 13-12**  
**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)
	3/3/2016	<1.0	<1.0	<1.0	<1.0	2.38	95.74
	6/15/2016	<1.00	<1.00	<1.00	<1.00	2.37	95.75
	9/8/2016	<1.00	<1.00	<1.00	<1.00	3.02	95.10
	12/5/2016	<1.00	<1.00	<1.00	<1.00	3.16	94.96
	3/9/2017	<1.00	<1.00	<1.00	<1.00	3.56	94.56
	6/5/2017	<1.00	<1.00	<1.00	<1.00	2.52	95.60
	9/12/2017	<1.00	<1.00	<1.00	<1.00	3.19	94.93
MW06	3/29/2006	<1.0	<1.0	<1.0	<1.0	3.65	93.04
	6/16/2006	<1.0	<1.0	<1.0	<1.0	3.64	93.05
	9/22/2006	<1.0	<1.0	<1.0	<1.0	3.17	93.52
	12/27/2006	<1.0	<1.0	<1.0	<1.0	3.17	93.52
	3/14/2007	<1.0	<1.0	<1.0	<1.0	2.38	94.31
	6/14/2007	<1.0	<1.0	<1.0	<1.0	NM	NA
	9/14/2007	<1.0	<1.0	<1.0	<1.0	2.82	93.87
	12/11/2007	<1.0	<1.0	<1.0	<1.0	3.85	92.84
	3/5/2008	<1.0	<1.0	<1.0	<1.0	2.64	94.05
	6/10/2008	<1.0	<1.0	<1.0	<1.0	3.89	92.80
	9/17/2008	<1.0	<1.0	<1.0	<1.0	2.36	94.33
	12/5/2008	<1.0	<1.0	<1.0	<1.0	3.86	92.83
	3/30/2009	<1.0	<1.0	<1.0	<1.0	NM	NA
	6/26/2009	<1.0	<1.0	<1.0	<1.0	1.63	95.06
	9/25/2009	<1.0	<1.0	<1.0	<1.0	2.41	94.28
	12/14/2009	<1.0	<1.0	<1.0	<1.0	2.32	94.37
	3/4/2010	<1.0	<1.0	<1.0	<1.0	2.63	94.06
	6/18/2010	<1.0	<1.0	<1.0	<1.0	1.70	94.99
	9/2/2010	<1.0	<1.0	<1.0	<1.0	2.86	93.83
	12/3/2010	<1.0	<1.0	<1.0	<1.0	2.64	94.05
	3/16/2011	<1.0	<1.0	<1.0	<1.0	2.65	94.04
	6/7/2011	<1.0	<1.0	<1.0	<1.0	2.53	94.16
	9/7/2011	<1.0	<1.0	<1.0	<1.0	2.61	94.08
	12/9/2011	<1.0	<1.0	<1.0	<1.0	2.47	94.22



**TABLE 2**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**CULLEN ODENBAUGH C UT #1/ STANLEY ODENBAUGH 13-12**  
**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)
	3/8/2012	<1.0	<1.0	<1.0	<1.0	2.72	93.97
	6/18/2012	<1.0	<1.0	<1.0	<1.0	2.70	93.99
	9/14/2012	<1.0	<1.0	<1.0	<1.0	3.35	93.34
	12/11/2012	<1.0	<1.0	<1.0	<1.0	2.95	90.74
	3/14/2013	<1.0	<1.0	<1.0	<1.0	3.36	93.32
	6/19/2013	<1.0	<1.0	<1.0	<1.0	2.88	93.81
	9/17/2013	<1.0	<1.0	<1.0	<1.0	0.23	96.46
	12/5/2013	<1.0	<1.0	<1.0	<1.0	2.80	95.34
	12/6/2013	Surveyed - Not Sampled				2.88	95.23
	3/11/2014	Damaged - Not Sampled				2.92	95.22
	6/9/2014	Not Found - Not Sampled				Not Found	NA
	9/30/2014	Not Found - Not Sampled				Not Found	NA
	12/8/2014	Damaged - Not Sampled				2.21	NA
	MW06 destroyed as of 3/13/2015						
MW06R	9/9/2015	<1.0	<1.0	<1.0	<1.0	2.24	95.21
	12/24/2015	Not Found - Not Sampled				Not Found	NA
	3/3/2016	<1.0	<1.0	<1.0	<1.0	2.30	95.15
	6/15/2016	<1.00	<1.00	<1.00	<1.00	1.54	95.91
	7/21/2016	Surveyed - Not Sampled				NM	NA
	9/8/2016	<1.00	<1.00	<1.00	<1.00	2.59	95.24
	12/5/2016	<1.00	<1.00	<1.00	<1.00	2.55	NA
	3/9/2017	<1.00	<1.00	<1.00	<1.00	3.06	94.72
	6/5/2017	<1.00	<1.00	<1.00	<1.00	2.74	95.04
	9/12/2017	<1.00	<1.00	<1.00	<1.00	2.60	95.18
MW07	3/25/2014	<4.0	<4.0	<4.0	<4.0	NM	NA
	6/9/2014	11.5	<1.0	<1.0	<1.0	2.14	NA
	9/30/2014	<1.0	<1.0	<1.0	<1.0	2.24	95.65
	12/8/2014	<1.0	<1.0	<1.0	<1.0	2.68	95.39
	3/13/2015	<1.0	<1.0	<1.0	<1.0	2.59	95.48
	6/25/2015	<1.0	<1.0	<1.0	<1.0	1.23	96.84



**TABLE 2**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**CULLEN ODENBAUGH C UT #1/ STANLEY ODENBAUGH 13-12**  
**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)
	9/9/2015	<1.0	<1.0	<1.0	<1.0	2.82	95.25
	12/24/2015	Not Found - Not Sampled				Not Found	NA
	3/3/2016	<1.0	<1.0	<1.0	<1.0	2.97	95.10
	6/15/2016	Not Found - Not Sampled				Not Found	NA
	7/21/2016	Surveyed - Not Sampled				NM	NA
	9/8/2016	<1.00	<1.00	<1.00	<1.00	3.01	95.00
	12/5/2016	<1.00	<1.00	<1.00	<1.00	2.94	NA
	3/9/2017	<1.00	<1.00	<1.00	<1.00	3.43	94.64
	6/5/2017	<1.00	<1.00	<1.00	<1.00	3.30	94.77
	9/12/2017	<4.00	262	<4.00	<4.00	3.10	94.97
	MW07 destroyed as of 11/3/2017						
MW08	3/25/2014	<4.0	<4.0	<4.0	<4.0	NM	NA
	6/9/2014	<1.0	<1.0	<1.0	<1.0	2.15	NA
	9/30/2014	<1.0	<1.0	<1.0	<1.0	3.22	94.46
	12/8/2014	<1.0	<1.0	<1.0	<1.0	2.71	95.18
	3/13/2015	<1.0	<1.0	<1.0	<1.0	2.61	95.28
	6/25/2015	<1.0	<1.0	<1.0	<1.0	1.34	96.55
	9/9/2015	<1.0	<1.0	<1.0	<1.0	2.86	95.03
	11/20/2015	Surveyed - Not Sampled				2.36	95.53
	MW08 abandoned as of 11/20/2015						
MW08R	6/15/2016	<1.00	<1.00	<1.00	<1.00	1.55	95.90
	7/14/2016	Surveyed - Not Sampled				2.68	95.24
	12/5/2016	<1.00	<1.00	<1.00	<1.00	2.80	95.60
	3/9/2017	<1.00	<1.00	<1.00	<1.00	3.65	94.75
	6/5/2017	<1.00	<1.00	<1.00	<1.00	3.26	95.14
	9/12/2017	<1.00	<1.00	<1.00	<1.00	3.35	95.05
MW09	9/9/2015	<1.0	<1.0	<1.0	<1.0	2.63	94.99
	11/20/2015	Surveyed - Not Sampled				2.41	95.47
	MW09 abandoned as of 11/20/2015						



**TABLE 2**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**CULLEN ODENBAUGH C UT #1/ STANLEY ODENBAUGH 13-12**  
**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)
MW09R	6/15/2016	<1.00	<1.00	<1.00	<1.00	1.78	95.81
	7/14/2016	Surveyed - Not Sampled				2.88	95.08
	12/5/2016	<1.00	<1.00	<1.00	<1.00	2.78	95.21
	3/9/2017	<1.00	<1.00	<1.00	<1.00	3.29	94.70
	6/5/2017	<1.00	<1.00	<1.00	<1.00	2.83	95.16
	9/12/2017	<1.00	<1.00	<1.00	<1.00	2.93	95.06
<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

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





September 15, 2017

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh**

**Project Number - KMG05184/WO #883347**

Attached are your analytical results for KMG - Cullen Odenbaugh C UT #1/Stanley Odenbaugh received by Origins Laboratory, Inc. September 12, 2017. This project is associated with Origins project number Y709148-01.

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: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

**CROSS REFERENCE REPORT**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y709148-01	Water	September 12, 2017 11:00	09/12/2017 14:50
MW02R	Y709148-02	Water	September 12, 2017 11:05	09/12/2017 14:50
MW03R	Y709148-03	Water	September 12, 2017 11:10	09/12/2017 14:50
MW05	Y709148-04	Water	September 12, 2017 11:15	09/12/2017 14:50
MW06R	Y709148-05	Water	September 12, 2017 11:20	09/12/2017 14:50
MW07	Y709148-06	Water	September 12, 2017 11:25	09/12/2017 14:50
MW08R	Y709148-07	Water	September 12, 2017 11:30	09/12/2017 14:50
MW09R	Y709148-08	Water	September 12, 2017 11:35	09/12/2017 14:50

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: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

**ORIGINS**  
LABORATORY, INC

170115

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

Client: LT Environmental, Inc. Project Manager: Brian Sulzberger  
Project: KMG - Cullen Odenbaugh C UT #1/Stanley C Project Number: KMG05184/WO #88334708 APC Contact: Phil Hunnlin

Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	QTY	Analyses
01-001	MW001	Water	9/12/17	1100	CT	40mL Amber VOA Vial - HC Clear Filter	3	BTEX by EPA 8250C
02-001	MW002R	Water		1105		40mL Amber VOA Vial - HC	3	BTEX by EPA 8250C
03-001	MW003R	Water		1110		40mL Amber VOA Vial - HC	3	BTEX by EPA 8250C
04-001	MW005	Water		1115		40mL Amber VOA Vial - HC	3	BTEX by EPA 8250C
05-001	MW006R	Water		1120		40mL Amber VOA Vial - HC	3	BTEX by EPA 8250C
06-001	MW007	Water		1125		40mL Amber VOA Vial - HC	3	BTEX by EPA 8250C
07-001	MW008R	Water		1130		40mL Amber VOA Vial - HC	3	BTEX by EPA 8250C
08-001	MW009R	Water		1135		40mL Amber VOA Vial - HC	3	BTEX by EPA 8250C

Temperature on Receipt: 4.6  
Turn Around Time: ☐ 72-hr ☒ Standard  
Same Day: ☐ 24-hr ☐ 48-hr

Relinquished By \_\_\_\_\_ Date / Time \_\_\_\_\_

Received By \_\_\_\_\_ Date / Time \_\_\_\_\_

Relinquished By *CLZ* Date / Time 9/12/17 1450  
Received By *CLZ* Date / Time 9-12-17 1450

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: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: Y739148

Client: LTE

Client Project ID: KMG - Cullen Odenbaugh C.U.T. #1 / Stanley Odenbaugh

Checklist Completed by: DL

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

Date/time completed: 9-12-17 1516

Airbill #: ND

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

Cooler Number/Temperature: ✓ 1 4.6 °C ✓ 1 °C ✓ 1 °C (Describe) ✓ 1 °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? 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 <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 Na <sub>2</sub> CO <sub>3</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: DL (Project Manager)

Date/Time Reviewed: 9/13/17

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: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

MW01

9/12/2017 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y709148-01 (Water)

## BTEX by EPA 8260C

Benzene	277	4.00	ug/L	4	B711310	09/13/2017	09/13/2017	
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	ND	4.00	"	"	"	"	"	U
Xylenes, total	25.2	4.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %	84-121			"	"	"	
Surrogate: Toluene-d8	97.3 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.8 %	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: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

MW02R

9/12/2017 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y709148-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B711310	09/13/2017	09/13/2017	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	97.3 %	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: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

MW03R

9/12/2017 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y709148-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B711310	09/13/2017	09/13/2017	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	98.0 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	98.0 %	84-114			"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

MW05

9/12/2017 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y709148-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B711310	09/13/2017	09/13/2017	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	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: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

MW06R

9/12/2017 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y709148-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B711310	09/13/2017	09/13/2017	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	97.4 %	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: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

MW07

9/12/2017 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y709148-06 (Water)

## BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B711310	09/13/2017	09/14/2017	U
Toluene	262	4.00	"	"	"	"	"	
Ethylbenzene	ND	4.00	"	"	"	"	"	U
Xylenes, total	ND	4.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	84-121			"	"	"	
Surrogate: Toluene-d8	97.9 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.4 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

MW08R

9/12/2017 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y709148-07 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B711310	09/13/2017	09/14/2017	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	96.8 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	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: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

MW09R

9/12/2017 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y709148-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B711310	09/13/2017	09/14/2017	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	98.7 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	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: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

**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 B711310 - EPA 5030B (Water)**

**Blank (B711310-BLK1)**

Prepared: 09/13/2017 Analyzed: 09/13/2017

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	63		"	62.5	102		84-121			
Surrogate: Toluene-d8	60		"	62.5	96.7		85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	98.0		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: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

**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 B711310 - EPA 5030B (Water)**

**LCS (B711310-BS1)**

Prepared: 09/13/2017 Analyzed: 09/13/2017

Benzene	53.3	1.00	ug/L	50.0	107	73.3-129
Toluene	52.2	1.00	"	50.0	104	76.2-123
Ethylbenzene	53.9	1.00	"	50.0	108	73.6-130
m,p-Xylene	108	2.00	"	100	108	76.1-126
o-Xylene	53.6	1.00	"	50.0	107	76.6-124
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5	98.4	84-121
Surrogate: Toluene-d8	61		"	62.5	98.4	85-115
Surrogate: 4-Bromofluorobenzene	61		"	62.5	97.1	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: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

**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 B711310 - EPA 5030B (Water)**

Matrix Spike (B711310-MS1)		Source: Y709157-02			Prepared: 09/13/2017 Analyzed: 09/13/2017					
Benzene	53.9	1.00	ug/L	50.0	ND	108	74-130			
Toluene	51.1	1.00	"	50.0	ND	102	73-131			
Ethylbenzene	52.2	1.00	"	50.0	ND	104	76-132			
m,p-Xylene	105	2.00	"	100	ND	105	69-139			
o-Xylene	52.9	1.00	"	50.0	ND	106	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.3	84-121			
Surrogate: Toluene-d8	61		"	62.5		96.8	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: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

**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 B711310 - EPA 5030B (Water)**

Matrix Spike Dup (B711310-MSD1)		Source: Y709157-02			Prepared: 09/13/2017 Analyzed: 09/13/2017					
Benzene	51.3	1.00	ug/L	50.0	ND	103	74-130	4.91	20	
Toluene	49.1	1.00	"	50.0	ND	98.2	73-131	4.03	20	
Ethylbenzene	50.1	1.00	"	50.0	ND	100	76-132	4.09	20	
m,p-Xylene	101	2.00	"	100	ND	101	69-139	4.60	20	
o-Xylene	51.0	1.00	"	50.0	ND	102	74-131	3.58	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.8	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.2	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: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

### 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 05, 2017

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh**

**Project Number - KMG05184/WO #883347**

Attached are your analytical results for KMG - Cullen Odenbaugh C UT #1/Stanley Odenbaugh received by Origins Laboratory, Inc. November 03, 2017. This project is associated with Origins project number Y711066-01.

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: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

**CROSS REFERENCE REPORT**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01@3'	Y711066-01	Soil	November 3, 2017 15:15	11/03/2017 18:38
S01@3'	Y711066-02	Soil	November 3, 2017 15:20	11/03/2017 18:38
E01@3'	Y711066-03	Soil	November 3, 2017 15:25	11/03/2017 18:38
W01@3'	Y711066-04	Soil	November 3, 2017 15:30	11/03/2017 18:38
N02@3'	Y711066-05	Soil	November 3, 2017 15:35	11/03/2017 18:38
S02@3'	Y711066-06	Soil	November 3, 2017 15:40	11/03/2017 18:38

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: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

www.originslaboratory.com

Y71066

page 1 of 1

**ORIGINS**  
LABORATORY, INC

Client: LT Environmental  
Address: 4600 W. 60th Ave  
Arvada, CO 80003  
Telephone Number: 303.433.9788  
Email Address: KMG\_group

Project Manager: B. Sulzberger  
Project Name: Cullen Odenbaugh C UT 1  
Project Number: KMG05184  
Samples Collected By: F. Ditt  
APC Contact: Paul Schwartz  
WO #:

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis				Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa	Other	6-Brx	TPH	
N0103'	11/3/17	1515	2	X				X						1
S0103'	11/3/17	1520	1											2
E0103'		1525	1											3
W0103'		1530	1											4
N0203'		1535	1											5
S0203'		1540	1											6
B6		1545	1											7
														8
														9
														10

Relinquished By: [Signature] Date: 11/3/17 Time: 1830  
Relinquished By: [Signature] Date: 11/3/17 Time: 1830

Received By: [Signature] Date: 11-3-17 Time: 1830  
Received By: [Signature] Date: 11-3-17 Time: 1830

Turnaround Time: Same Day ☒ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☐

Date Results Needed

11/3

Temp Received-

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: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: Y711060

Client: LTE

Client Project ID: Cullen Odenbaugh C UT

Checklist Completed by: J. Pellegrini

Shipped Via: 1410

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

Date/time completed: 11/4/17 1424

Airbill #: DA

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

(Describe)

Cooler Number/Temperature: 1 / 10.3 °C 1 / \_\_\_\_\_ °C 1 / \_\_\_\_\_ °C 1 / \_\_\_\_\_ °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 <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>Sampled Sunday</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"/>			<u>pl</u>
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 (Project Manager)

Date/Time Reviewed 11/4/17

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: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

N01@3'  
11/3/2017 3:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y711066-01 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7K0303	11/03/2017	11/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 73.8 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	8.23	5.00	mg/kg	25	B7K0302	"	11/04/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "  
Surrogate: Toluene-d8 101 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 98.9 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.40		pH Units	1	B7K0307	11/03/2017	11/04/2017	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.196		mmhos/cm	"	B7K0308	11/03/2017	"	
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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

S01@3'  
11/3/2017 3:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y711066-02 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	128	25.0	mg/kg	1	B7K0303	11/03/2017	11/04/2017	D-08
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	75.1 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	682	50.0	mg/kg	250	B7K0302	"	11/04/2017	
Benzene	0.067	0.050	"	25	"	"	11/04/2017	
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	4.47	0.050	"	"	"	"	"	
Xylenes, total	62.0	0.498	"	250	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	11/04/2017	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.8 %	70-130			"	"	"	

**pH in Soil by EPA 9045D**

pH	8.80		pH Units	1	B7K0307	11/03/2017	11/04/2017	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.113		mmhos/cm	"	B7K0308	11/03/2017	"	
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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

E01@3'  
11/3/2017 3:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y711066-03 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7K0303	11/03/2017	11/04/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 73.9 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	30.4	5.00	mg/kg	25	B7K0302	"	11/04/2017	
Benzene	0.112	0.050	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "  
Surrogate: Toluene-d8 104 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 97.8 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.12		pH Units	1	B7K0307	11/03/2017	11/04/2017	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.118		mmhos/cm	"	B7K0308	11/03/2017	"	
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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

W01@3'  
11/3/2017 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y711066-04 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	623	25.0	mg/kg	1	B7K0303	11/03/2017	11/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	104 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	2770	50.0	mg/kg	250	B7K0302	"	11/04/2017	
Benzene	3.02	0.050	"	25	"	"	11/04/2017	
Toluene	1.13	0.050	"	"	"	"	"	
Ethylbenzene	12.2	0.498	"	250	"	"	11/04/2017	
Xylenes, total	389	4.98	"	2500	"	"	11/05/2017	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	11/04/2017	
Surrogate: Toluene-d8	114 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.1 %	70-130			"	"	"	

**pH in Soil by EPA 9045D**

pH	8.43		pH Units	1	B7K0307	11/03/2017	11/04/2017	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.166		mmhos/cm	"	B7K0308	11/03/2017	"	
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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

**N02@3'**  
**11/3/2017 3:35:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y711066-05 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	<b>282</b>	25.0	mg/kg	1	B7K0303	11/03/2017	11/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.2 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	<b>1050</b>	50.0	mg/kg	250	B7K0302	"	11/05/2017	
Benzene	ND	0.050	"	25	"	"	11/04/2017	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	
Surrogate: Toluene-d8	90.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	87.5 %	70-130			"	"	"	

**pH in Soil by EPA 9045D**

pH	<b>8.43</b>		pH Units	1	B7K0307	11/03/2017	11/04/2017	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	<b>0.145</b>		mmhos/cm	"	B7K0308	11/03/2017	"	
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Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

**S02@3'**  
**11/3/2017 3:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y711066-06 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	55.8	25.0	mg/kg	1	B7K0303	11/03/2017	11/04/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	78.3 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	169	5.00	mg/kg	25	B7K0302	"	11/04/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	0.118	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	
Surrogate: Toluene-d8	115 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.2 %	70-130			"	"	"	

**pH in Soil by EPA 9045D**

pH	8.60		pH Units	1	B7K0307	11/03/2017	11/04/2017	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.153		mmhos/cm	"	B7K0308	11/03/2017	"	
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Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

**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
<b>Batch B7K0302 - EPA 5030 (soil)</b>										
<b>Blank (B7K0302-BLK1)</b>					Prepared: 11/03/2017 Analyzed: 11/03/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		112	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	70-130			

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4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
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Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

**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
<b>Batch B7K0302 - EPA 5030 (soil)</b>										
<b>Blank (B7K0302-BLK2)</b>					Prepared: 11/03/2017 Analyzed: 11/03/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	77		ug/kg	62.5		123	70-130			
Surrogate: Toluene-d8	68		"	62.5		108	70-130			
Surrogate: 4-Bromofluorobenzene	92		"	62.5		147	70-130			

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

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

**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
<b>Batch B7K0302 - EPA 5030 (soil)</b>										
<b>LCS (B7K0302-BS1)</b>					Prepared: 11/03/2017 Analyzed: 11/03/2017					
Benzene	0.094	0.002	mg/kg	0.100		94.1	77.1-124			
Toluene	0.102	0.002	"	0.100		102	74.5-128			
Ethylbenzene	0.114	0.002	"	0.100		114	66.4-127			
m,p-Xylene	0.239	0.004	"	0.200		119	76.6-124			
o-Xylene	0.116	0.002	"	0.100		116	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	81		"	62.5		129	70-130			

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

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

**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 B7K0302 - EPA 5030 (soil)										
LCS (B7K0302-BS2)					Prepared: 11/03/2017 Analyzed: 11/03/2017					
Benzene	0.088	0.002	mg/kg	0.100		88.3	77.1-124			
Toluene	0.083	0.002	"	0.100		83.2	74.5-128			
Ethylbenzene	0.107	0.002	"	0.100		107	66.4-127			
m,p-Xylene	0.201	0.004	"	0.200		100	76.6-124			
o-Xylene	0.109	0.002	"	0.100		109	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	72		ug/kg	62.5		115	70-130			
Surrogate: Toluene-d8	52		"	62.5		83.8	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.6	70-130			

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

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

**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 B7K0302 - EPA 5030 (soil)**

Matrix Spike (B7K0302-MS1)		Source: Y711051-01			Prepared: 11/03/2017 Analyzed: 11/03/2017					
Benzene	0.106	0.002	mg/kg	0.100	ND	106	71.8-126			
Toluene	0.116	0.002	"	0.100	0.0008	115	65.1-130			
Ethylbenzene	0.131	0.002	"	0.100	ND	131	62.2-130			QM-07
m,p-Xylene	0.247	0.004	"	0.200	ND	124	46.5-137			
o-Xylene	0.127	0.002	"	0.100	ND	127	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	67		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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4600 West 60th Avenue  
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Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

**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 B7K0302 - EPA 5030 (soil)**

Matrix Spike (B7K0302-MS2)		Source: Y711061-03			Prepared: 11/03/2017 Analyzed: 11/03/2017					
Benzene	0.074	0.002	mg/kg	0.100	ND	74.0	71.8-126			
Toluene	0.061	0.002	"	0.100	0.0008	60.5	65.1-130			QM-07
Ethylbenzene	0.077	0.002	"	0.100	ND	77.3	62.2-130			
m,p-Xylene	0.162	0.004	"	0.200	ND	81.0	46.5-137			
o-Xylene	0.080	0.002	"	0.100	ND	80.3	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	77		ug/kg	62.5		123	70-130			
Surrogate: Toluene-d8	50		"	62.5		79.8	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

**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 B7K0302 - EPA 5030 (soil)**

Matrix Spike Dup (B7K0302-MSD1)		Source: Y711051-01			Prepared: 11/03/2017 Analyzed: 11/03/2017					
Benzene	0.103	0.002	mg/kg	0.100	ND	103	71.8-126	3.26	11.3	
Toluene	0.110	0.002	"	0.100	0.0008	110	65.1-130	4.50	15.4	
Ethylbenzene	0.093	0.002	"	0.100	ND	92.8	62.2-130	34.1	19.6	QR-03
m,p-Xylene	0.180	0.004	"	0.200	ND	89.9	46.5-137	31.6	19.2	QR-03
o-Xylene	0.089	0.002	"	0.100	ND	89.3	54.2-134	35.1	17.9	QR-03
Surrogate: 1,2-Dichloroethane-d4	72		ug/kg	62.5		115	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	51		"	62.5		80.9	70-130			

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4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

**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 B7K0302 - EPA 5030 (soil)**

Matrix Spike Dup (B7K0302-MSD2)		Source: Y711061-03			Prepared: 11/03/2017 Analyzed: 11/03/2017					
Benzene	0.077	0.002	mg/kg	0.100	ND	77.4	71.8-126	4.47	11.3	
Toluene	0.074	0.002	"	0.100	0.0008	73.1	65.1-130	18.5	15.4	QM-07
Ethylbenzene	0.087	0.002	"	0.100	ND	87.4	62.2-130	12.3	19.6	
m,p-Xylene	0.184	0.004	"	0.200	ND	92.0	46.5-137	12.8	19.2	
o-Xylene	0.089	0.002	"	0.100	ND	88.6	54.2-134	9.80	17.9	
Surrogate: 1,2-Dichloroethane-d4	74		ug/kg	62.5		118	70-130			
Surrogate: Toluene-d8	57		"	62.5		90.6	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	70-130			

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

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

**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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**Extractable Petroleum Hydrocarbons by 8015C - 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 B7K0303 - EPA 3580**

**Blank (B7K0303-BLK1)**

Prepared: 11/03/2017 Analyzed: 11/03/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	39		"	50.0		77.3	59-131			

**Blank (B7K0303-BLK2)**

Prepared: 11/03/2017 Analyzed: 11/04/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	46		"	50.0		92.2	59-131			

**LCS (B7K0303-BS1)**

Prepared: 11/03/2017 Analyzed: 11/03/2017

Diesel (C10-C28)	779	50.0	mg/kg	1000		77.9	64-121			
Residual Range Organics (C28-C40)	763	200	"	1000		76.3	58-124			
Surrogate: o-Terphenyl	44		"	50.0		87.3	59-131			

**LCS (B7K0303-BS2)**

Prepared: 11/03/2017 Analyzed: 11/04/2017

Diesel (C10-C28)	826	50.0	mg/kg	1000		82.6	64-121			
Residual Range Organics (C28-C40)	821	200	"	1000		82.1	58-124			
Surrogate: o-Terphenyl	47		"	50.0		94.2	59-131			

**Matrix Spike (B7K0303-MS1)**

Source: Y711051-01

Prepared: 11/03/2017 Analyzed: 11/03/2017

Diesel (C10-C28)	764	50.0	mg/kg	1000	ND	76.4	53-125			
Residual Range Organics (C28-C40)	759	200	"	1000	38.3	72.1	47-133			

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: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

## Extractable Petroleum Hydrocarbons by 8015C - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B7K0303 - EPA 3580</b>										
<b>Matrix Spike (B7K0303-MS1)</b>		<b>Source: Y711051-01</b>			Prepared: 11/03/2017 Analyzed: 11/03/2017					
Surrogate: o-Terphenyl	44		mg/kg	50.0		87.3	59-131			
<b>Matrix Spike (B7K0303-MS2)</b>		<b>Source: Y711063-01</b>			Prepared: 11/03/2017 Analyzed: 11/04/2017					
Diesel (C10-C28)	868	50.0	mg/kg	1000	27.4	84.0	53-125			
Residual Range Organics (C28-C40)	863	200	"	1000	79.9	78.4	47-133			
Surrogate: o-Terphenyl	45		"	50.0		90.7	59-131			
<b>Matrix Spike Dup (B7K0303-MSD1)</b>		<b>Source: Y711051-01</b>			Prepared: 11/03/2017 Analyzed: 11/03/2017					
Diesel (C10-C28)	902	50.0	mg/kg	1000	ND	90.2	53-125	16.6	20	
Residual Range Organics (C28-C40)	914	200	"	1000	38.3	87.6	47-133	19.4	20	
Surrogate: o-Terphenyl	50		"	50.0		100	59-131			
<b>Matrix Spike Dup (B7K0303-MSD2)</b>		<b>Source: Y711063-01</b>			Prepared: 11/03/2017 Analyzed: 11/04/2017					
Diesel (C10-C28)	899	50.0	mg/kg	1000	27.4	87.2	53-125	3.66	20	
Residual Range Organics (C28-C40)	890	200	"	1000	79.9	81.0	47-133	3.32	20	
Surrogate: o-Terphenyl	49		"	50.0		98.8	59-131			

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

## Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B7K0307 - NO PREP</b>										
<b>Duplicate (B7K0307-DUP1)</b>		<b>Source: Y711061-03</b>			Prepared: 11/03/2017 Analyzed: 11/04/2017					
pH	9.29		pH Units		9.18			1.19	25	
<b>Batch B7K0308 - NO PREP</b>										
<b>Blank (B7K0308-BLK1)</b>		Prepared: 11/03/2017 Analyzed: 11/04/2017								
Specific Conductance (EC)	0.00420		mmhos/cm							
<b>Duplicate (B7K0308-DUP1)</b>		<b>Source: Y711061-03</b>			Prepared: 11/03/2017 Analyzed: 11/04/2017					
Specific Conductance (EC)	0.149		mmhos/cm		0.166			10.4	25	

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

### Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

D-08 Results in the diesel organics range are primarily due to overlap from a gasoline range product.

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 09, 2017

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh**

**Project Number - KMG05184/WO #883347**

Attached are your analytical results for KMG - Cullen Odenbaugh C UT #1/Stanley Odenbaugh received by Origins Laboratory, Inc. November 08, 2017. This project is associated with Origins project number Y711136-01.

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: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

**CROSS REFERENCE REPORT**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N03@1'	Y711136-01	Soil	November 8, 2017 13:00	11/08/2017 18:00
N04@1'	Y711136-02	Soil	November 8, 2017 13:05	11/08/2017 18:00
W02@1'	Y711136-03	Soil	November 8, 2017 13:15	11/08/2017 18:00
S03@1'	Y711136-04	Soil	November 8, 2017 13:20	11/08/2017 18:00
S04@1'	Y711136-05	Soil	November 8, 2017 13:25	11/08/2017 18:00
S05@1'	Y711136-06	Soil	November 8, 2017 13:35	11/08/2017 18:00
E02@1'	Y711136-07	Soil	November 8, 2017 14:00	11/08/2017 18:00
W03@1'	Y711136-08	Soil	November 8, 2017 14:05	11/08/2017 18:00

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: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

**ORIGINS**  
LABORATORY, INC

Client: LT Environmental  
Address: 4600 W 60th Ave  
Arvada, CO 80003  
Telephone Number: 303 433 9788  
Email Address: bsulzberger@ltenv.com

www.originslaboratory.com

page 1 of 1

Project Manager: Brian Sulzberger  
Project Name: Cullen Odenbaugh  
Project Number: KMG05184  
Samples Collected By: Daniel Thomas

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summ. #	Other	GTEX	TPH	EC	
N03E1'	11-08-17	1300	2						X						Run
N04E1'		1305													
W02E1'		1315													
S03E1'		1330													
S04E1'		1335													
S05E1'		1345													
F02E1'		1400													
W03E1'		1405													
Relinquished By: <i>[Signature]</i>	Date: 11-08-17	Time: 1800						Received By: <i>[Signature]</i>				Date: 11-8-17	Time: 1800	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>	
Relinquished By: <i>[Signature]</i>	Date:	Time:						Received By:				Date:	Time:		

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: KMG05184/WO #88334708

Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: Y711136

Client: LTG

Client Project ID: KMG - Cullen Odenbaugh

Checklist Completed by: Dan Lin

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

Date/time completed: 11-8-12 1601

Airbill #: 15

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

Cooler Number/Temperature: 1 5.3 °C 1 °C 1 °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"/>		sampled same Day
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"/>			ph
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 (Project Manager) [Signature]

Date/Time Reviewed 11-8-12 1601

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

N03@1'  
11/8/2017 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y711136-01 (Soil)

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7K0805	11/08/2017	11/08/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 75.9 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7K0804	11/08/2017	11/08/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "  
Surrogate: Toluene-d8 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.86		pH Units	1	B7K0802	11/08/2017	11/08/2017	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.184		mmhos/cm	"	B7K0803	11/08/2017	"	
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Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

N04@1'  
11/8/2017 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y711136-02 (Soil)

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7K0805	11/08/2017	11/08/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.4 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	81.1	5.00	mg/kg	25	B7K0804	11/08/2017	11/08/2017	
Benzene	0.074	0.050	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	0.318	0.050	"	"	"	"	"	
Xylenes, total	3.59	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "  
Surrogate: Toluene-d8 105 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.86		pH Units	1	B7K0802	11/08/2017	11/08/2017	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.251		mmhos/cm	"	B7K0803	11/08/2017	"	
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Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

W02@1'

11/8/2017 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y711136-03 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7K0805	11/08/2017	11/08/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 69.6 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7K0804	11/08/2017	11/08/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.53		pH Units	1	B7K0802	11/08/2017	11/08/2017	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.203		mmhos/cm	"	B7K0803	11/08/2017	"	
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Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

S03@1'  
11/8/2017 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y711136-04 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7K0805	11/08/2017	11/08/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 73.9 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7K0804	11/08/2017	11/08/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "  
Surrogate: Toluene-d8 101 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 99.4 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.72		pH Units	1	B7K0802	11/08/2017	11/08/2017	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.126		mmhos/cm	"	B7K0803	11/08/2017	"	
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Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

S04@1'

11/8/2017 1:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y711136-05 (Soil)

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7K0805	11/08/2017	11/08/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 66.8 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7K0804	11/08/2017	11/08/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "  
Surrogate: Toluene-d8 101 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.97		pH Units	1	B7K0802	11/08/2017	11/08/2017	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.219		mmhos/cm	"	B7K0803	11/08/2017	"	
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Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

S05@1'

11/8/2017 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y711136-06 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7K0805	11/08/2017	11/08/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 70.1 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7K0804	11/08/2017	11/08/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "  
Surrogate: Toluene-d8 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.92		pH Units	1	B7K0802	11/08/2017	11/08/2017	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.134		mmhos/cm	"	B7K0803	11/08/2017	"	
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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: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

E02@1'  
11/8/2017 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y711136-07 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	34.0	25.0	mg/kg	1	B7K0805	11/08/2017	11/08/2017	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	74.0 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	7.02	5.00	mg/kg	25	B7K0804	11/08/2017	11/08/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	

**pH in Soil by EPA 9045D**

pH	8.75		pH Units	1	B7K0802	11/08/2017	11/08/2017	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.239		mmhos/cm	"	B7K0803	11/08/2017	"	
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Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

W03@1'

11/8/2017 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y711136-08 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B7K0805	11/08/2017	11/08/2017	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 64.9 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	32.0	5.00	mg/kg	25	B7K0804	11/08/2017	11/08/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "  
Surrogate: Toluene-d8 103 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.14		pH Units	1	B7K0802	11/08/2017	11/08/2017	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.416		mmhos/cm	"	B7K0803	11/08/2017	"	
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Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

**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
<b>Batch B7K0804 - EPA 5030 (soil)</b>										
<b>Blank (B7K0804-BLK1)</b>					Prepared: 11/08/2017 Analyzed: 11/08/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

**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
<b>Batch B7K0804 - EPA 5030 (soil)</b>										
<b>LCS (B7K0804-BS1)</b>					Prepared: 11/08/2017 Analyzed: 11/08/2017					
Benzene	0.096	0.002	mg/kg	0.100		95.8	77.1-124			
Toluene	0.096	0.002	"	0.100		96.3	74.5-128			
Ethylbenzene	0.105	0.002	"	0.100		105	66.4-127			
m,p-Xylene	0.194	0.004	"	0.200		97.1	76.6-124			
o-Xylene	0.102	0.002	"	0.100		102	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	57		ug/kg	62.5		91.0	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.9	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

**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 B7K0804 - EPA 5030 (soil)**

Matrix Spike (B7K0804-MS1)		Source: Y711127-01			Prepared: 11/08/2017 Analyzed: 11/08/2017					
Benzene	0.100	0.002	mg/kg	0.100	ND	99.6	71.8-126			
Toluene	0.099	0.002	"	0.100	ND	98.8	65.1-130			
Ethylbenzene	0.106	0.002	"	0.100	ND	106	62.2-130			
m,p-Xylene	0.196	0.004	"	0.200	ND	98.0	46.5-137			
o-Xylene	0.103	0.002	"	0.100	ND	103	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	56		ug/kg	62.5		90.3	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.2	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

**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 B7K0804 - EPA 5030 (soil)**

Matrix Spike Dup (B7K0804-MSD1)		Source: Y711127-01			Prepared: 11/08/2017 Analyzed: 11/08/2017					
Benzene	0.097	0.002	mg/kg	0.100	ND	97.4	71.8-126	2.23	11.3	
Toluene	0.097	0.002	"	0.100	ND	96.9	65.1-130	1.94	15.4	
Ethylbenzene	0.104	0.002	"	0.100	ND	104	62.2-130	1.95	19.6	
m,p-Xylene	0.194	0.004	"	0.200	ND	96.9	46.5-137	1.21	19.2	
o-Xylene	0.102	0.002	"	0.100	ND	102	54.2-134	1.08	17.9	
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.9	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.8	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

**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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**Extractable Petroleum Hydrocarbons by 8015C - 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 B7K0805 - EPA 3550B**

**Blank (B7K0805-BLK1)**

Prepared: 11/08/2017 Analyzed: 11/08/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	42		"	50.0		84.6	59-131			

**LCS (B7K0805-BS1)**

Prepared: 11/08/2017 Analyzed: 11/08/2017

Diesel (C10-C28)	1030	50.0	mg/kg	1000		103	64-121			
Residual Range Organics (C28-C40)	883	200	"	1000		88.3	58-124			
Surrogate: o-Terphenyl	47		"	50.0		94.6	59-131			

**Matrix Spike (B7K0805-MS1)**

**Source: Y711127-01**

Prepared: 11/08/2017 Analyzed: 11/08/2017

Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	53-125			
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	47-133			
Surrogate: o-Terphenyl	49		"	50.0		98.2	59-131			

**Matrix Spike Dup (B7K0805-MSD1)**

**Source: Y711127-01**

Prepared: 11/08/2017 Analyzed: 11/08/2017

Diesel (C10-C28)	1060	50.0	mg/kg	1000	ND	106	53-125	2.20	20	
Residual Range Organics (C28-C40)	940	200	"	1000	ND	94.0	47-133	7.25	20	
Surrogate: o-Terphenyl	49		"	50.0		98.1	59-131			

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

## Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B7K0802 - NO PREP</b>										
<b>Duplicate (B7K0802-DUP1)</b>		<b>Source: Y711052-01</b>			Prepared: 11/08/2017 Analyzed: 11/08/2017					
pH	7.61		pH Units		7.82			2.72	25	
<b>Batch B7K0803 - NO PREP</b>										
<b>Blank (B7K0803-BLK1)</b>		Prepared: 11/08/2017 Analyzed: 11/08/2017								
Specific Conductance (EC)	0.00360		mmhos/cm							
<b>Duplicate (B7K0803-DUP1)</b>		<b>Source: Y711052-01</b>			Prepared: 11/08/2017 Analyzed: 11/08/2017					
Specific Conductance (EC)	0.145		mmhos/cm		0.118			20.3	25	

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

### 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.*

Jen Pellegrini For Noelle Doyle Mathis, President



November 10, 2017

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh**

**Project Number - KMG05184/WO #883347**

Attached are your analytical results for KMG - Cullen Odenbaugh C UT #1/Stanley Odenbaugh received by Origins Laboratory, Inc. November 09, 2017. This project is associated with Origins project number Y711149-01.

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: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	Y711149-01	Water	November 9, 2017 10:20	11/09/2017 16:20
GW02	Y711149-02	Water	November 9, 2017 10:25	11/09/2017 16:20

Origins Laboratory, Inc.



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

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

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page 1 of 1

9711149

Client: LT Environmental  
Address: 4600 W 60th Ave  
Arvada, CO 80003  
Telephone Number: 303-433-9798  
Email Address: kmg group

Project Manager: B. Sulzberger  
Project Name: Cullen Odenbaugh C U T I  
Project Number: KMG05184  
Samples Collected By: F. D. H.  
APC contact: Paul Schwarz  
WO TBS

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #		
GW01	11/9/17	1030	3	/				/				1
GW02	11/9/17	1025	3	/				/				2
												3
												4
												5
												6
												7
												8
												9
												10
Relinquished By: [Signature]	Date: 11/9/17	Time: 1620						Received By: [Signature]	Date: 11-9-17	Time: 1620		Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>
Relinquished By:	Date:	Time:						Received By:	Date:	Time:		

Temp Received: 5.0 Date Results Needed

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

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger  
Project Number: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4711149

Client: LTC

Client Project ID: KMG - Cullen Odenbaugh C U T 1

Checklist Completed by: Joe Lu

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

Date/time completed: 11-9-12 1642

Airbill #: NP

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

Cooler Number/Temperature: 1 9.0 °C 1 °C 1 °C 1 °C

Thermometer ID: 7003

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? 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: Joe Lu (Project Manager)

11-9-12 1643  
Date/Time Reviewed

Origins Laboratory, Inc.

*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: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

GW01

11/9/2017 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y711149-01 (Water)

## BTEX by EPA 8260C

Benzene	5.80	4.00	ug/L	4	B7K0901	11/09/2017	11/09/2017	
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	ND	4.00	"	"	"	"	"	U
Xylenes, total	ND	4.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"	"	
Surrogate: Toluene-d8	103 %	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: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

## GW02

11/9/2017 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y711149-02 (Water)

### BTEX by EPA 8260C

Benzene	13.8	4.00	ug/L	4	B7K0901	11/09/2017	11/09/2017	
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	ND	4.00	"	"	"	"	"	U
Xylenes, total	4.56	4.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.9 %	84-121			"	"	"	
Surrogate: Toluene-d8	103 %	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: KMG05184/WO #88334708  
Project: KMG - Cullen Odenbaugh C UT  
#1/Stanley Odenbaugh

**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 B7K0901 - EPA 5030B (Water)**

**Blank (B7K0901-BLK1)**

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

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	61		"	62.5		97.9	84-121			
Surrogate: Toluene-d8	61		"	62.5		98.0	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.3	84-114			

Origins Laboratory, Inc.



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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7K0901 - EPA 5030B (Water)**

**LCS (B7K0901-BS1)**

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

Benzene	48.5	1.00	ug/L	50.0		96.9	73.3-129
Toluene	50.1	1.00	"	50.0		100	76.2-123
Ethylbenzene	51.5	1.00	"	50.0		103	73.6-130
m,p-Xylene	101	2.00	"	100		101	76.1-126
o-Xylene	51.9	1.00	"	50.0		104	76.6-124
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.2	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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**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 B7K0901 - EPA 5030B (Water)**

Matrix Spike (B7K0901-MS1)		Source: Y711140-01			Prepared: 11/09/2017 Analyzed: 11/09/2017					
Benzene	55.0	1.00	ug/L	50.0	ND	110	74-130			
Toluene	56.0	1.00	"	50.0	ND	112	73-131			
Ethylbenzene	58.7	1.00	"	50.0	ND	117	76-132			
m,p-Xylene	116	2.00	"	100	ND	116	69-139			
o-Xylene	58.8	1.00	"	50.0	ND	118	74-131			
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	84-114			

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**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7K0901 - EPA 5030B (Water)**

Matrix Spike Dup (B7K0901-MSD1)		Source: Y711140-01			Prepared: 11/09/2017 Analyzed: 11/09/2017					
Benzene	53.4	1.00	ug/L	50.0	ND	107	74-130	2.92	20	
Toluene	55.2	1.00	"	50.0	ND	110	73-131	1.39	20	
Ethylbenzene	57.6	1.00	"	50.0	ND	115	76-132	1.91	20	
m,p-Xylene	115	2.00	"	100	ND	115	69-139	0.779	20	
o-Xylene	57.4	1.00	"	50.0	ND	115	74-131	2.44	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.7	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.6	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

All soil results are reported at a wet weight basis.

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