

TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
GW01	9/25/2009	15000	21000	290	7200	9.0	NA
MW01	12/17/2009	19000	23000	570	7600	8.38	88.05
	3/12/2010	34000	44000	460	5100	10.83	85.60
	6/15/2010	40000	67000	410	5200	9.08	87.35
	9/16/2010	22000	34000	830	8900	8.83	87.60
	12/7/2010	20000	31000	670	7900	9.84	86.59
	3/15/2011	34000	47000	390	5200	11.24	85.19
	6/27/2011	Product - Not Sampled				11.47 (0.50)	84.96
	9/14/2011	27000	42000	1000	12000	9.17	87.26
	12/16/2011	21000	36000	880	12000	9.68	86.75
	3/7/2012	19000	38000	600	10000	10.68	85.75
	6/25/2012	6400	16000	390	5100	11.44	84.99
	9/24/2012	11000	17000	330	4800	11.78	84.65
	12/28/2012	Product - Not Sampled				14.33 (2.10)	82.10
	3/28/2013	Product - Not Sampled				15.73 (1.90)	80.70
	6/5/2013	Product - Not Sampled				13.37 (0.16)	83.06
	9/5/2013	6600	16000	340	6400	11.68	84.75
	12/3/2013	Surveyed - Not Sampled				9.85	86.55
	12/17/2013	15000	31000	325	9430	10.04	86.39
	3/4/2014	14500	30400	696	10100	10.64	85.79
	6/5/2014	15200	31500	594	8520	9.93	86.47
	9/24/2014	16400	35500	665	8710	8.60	87.80
	12/10/2014	8570	16900	313	4640	9.62	86.78
	3/12/2015	13300	29900	565	7280	9.91	86.49
	6/18/2015	13200	37400	666	8690	8.73	87.67
	9/2/2015	10700	36900	718	9070	8.33	88.07
	12/10/2015	6910	24400	510	5600	8.55	87.85
	3/2/2016	9030	40100	765	8840	9.01	87.39
	9/19/2016	2,960	7,400	<500	3,780	8.40	88.00
	12/15/2016	2,330	9,990	361	3,800	9.48	86.92
	3/20/2017	3,890	27,200	712	8,430	10.73	85.67
	6/12/2017	2,770	47,400	570	7,690	9.90	86.50
	9/29/2017	1,420	8,000	<500	3,550	9.50	86.90
	12/18/2017	1,310	13,800	516	4,710	10.21	86.19



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Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	3/22/2018	2,380	36,000	674	10,300	11.51	88.69
	6/21/2018	1,550	30,800	700	9,100	11.12	89.08
	9/13/2018	1,170	25,500	704	9,270	10.18	90.02
	12/7/2018	1,250	32,300	724	9,860	11.52	88.68
	3/22/2019	746	19,200	586	8,070	12.60	87.60
	6/25/2019	544	18,700	753	17,600	10.39	89.81
	9/17/2019	336	21,900	896	22,000	9.07	91.13
MW02	12/17/2009	2100	3100	150	1400	8.99	87.19
	3/12/2010	160	160	57	100	10.61	85.57
	6/15/2010	390	900	24	170	8.97	87.21
	9/16/2010	23	1.5	38	4.4	8.56	87.62
	12/7/2010	89	70	13	24	9.60	86.58
	3/15/2011	77	23	100	11	11.04	85.14
	6/27/2011	1700	5700	560	2800	11.06	85.12
	9/14/2011	17	2.9	29	46	9.06	87.12
	12/16/2011	160	200	39	150	9.63	86.55
	3/7/2012	180	450	39	190	10.56	85.62
	6/25/2012	14	<1.0	27	12	11.06	85.12
	9/24/2012	17	2.9	7.2	<1.0	11.26	84.92
	12/28/2012	14	1.2	5.5	<1.0	12.91	83.27
	3/28/2013	<1.0	<1.0	<1.0	25	13.96	82.22
	6/5/2013	190	64	43	270	12.95	83.23
	9/5/2013	250	5.8	18	210	11.52	84.66
	12/3/2013	Surveyed - Not Sampled				9.84	86.53
	12/17/2013	219	41.9	16.8	397	9.84	86.34
	3/4/2014	251	28.9	66.7	601	10.40	85.78
	6/5/2014	126	20.2	93.3	827	10.00	86.37
	9/24/2014	37.8	<10.0	30.6	184	8.65	87.72
	12/10/2014	3.8	<1.0	21.6	24.5	9.65	86.72
	3/12/2015	38.4	1.4	63.4	373	9.97	86.40
	6/18/2015	31.6	8.5	104	867	8.67	87.70
	9/2/2015	18.4	32.8	27.4	260	8.28	88.09
	12/10/2015	7.3	<4.0	27.3	170	8.57	87.80
	3/2/2016	15.5	12.8	194	1240	9.01	87.36



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Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	9/19/2016	<4.00	<4.00	<4.00	<4.00	8.40	87.97
	12/15/2016	<1.00	<1.00	<1.00	<1.00	9.39	86.98
	3/20/2017	<1.00	<1.00	3.28	3.62	10.73	85.64
	6/12/2017	<1.00	5.47	20.6	213	9.87	86.50
	9/29/2017	<1.00	<1.00	<1.00	<1.00	9.47	86.90
	12/18/2017	<1.00	1.22	<1.00	5.77	10.16	86.21
	3/22/2018	Dry - Not Sampled				Dry	NA
	6/21/2018	Dry - Not Sampled				Dry	NA
	9/13/2018	Insufficient Water - Not Sampled				10.41	89.75
	12/7/2018	<4.00	<4.00	<4.00	<4.00	11.61	88.55
	3/22/2019	<1.00	<1.00	3.28	15.9	12.59	87.57
	6/25/2019	<1.00	<1.00	<1.00	<1.00	10.45	89.71
	9/17/2019	<1.00	<1.00	<1.00	<1.00	9.16	91.00
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MW03	12/17/2009	<1.0	3.4	<1.0	1.3	8.72	87.03
	3/12/2010	<1.0	<1.0	<1.0	<1.0	10.36	85.39
	6/15/2010	<1.0	<1.0	<1.0	<1.0	8.76	86.99
	9/16/2010	<1.0	<1.0	<1.0	<1.0	8.36	87.39
	12/7/2010	<1.0	<1.0	<1.0	<1.0	9.36	86.39
	3/15/2011	<1.0	<1.0	<1.0	<1.0	10.80	84.95
	6/27/2011	2.5	14	1.0	8.1	10.86	84.89
	9/14/2011	<1.0	<1.0	<1.0	<1.0	8.82	86.93
	12/16/2011	1.3	3.8	<1.0	2.3	9.36	86.39
	3/7/2012	<1.0	1.8	<1.0	<1.0	10.36	85.39
	6/25/2012	<1.0	<1.0	<1.0	<1.0	10.74	85.01
	9/24/2012	<1.0	1.3	<1.0	<1.0	10.99	84.76
	12/28/2012	Insufficient Water - Not Sampled				12.71	83.04
	3/28/2013	Dry - Not Sampled				Dry	NA
	6/5/2013	Insufficient Water - Not Sampled				12.73	83.02
	9/5/2013	<1.0	<1.0	<1.0	<1.0	11.20	84.55
	12/3/2013	Surveyed - Not Sampled				9.53	86.39
	12/17/2013	<4.0	<4.0	<4.0	<4.0	9.53	86.22
	3/4/2014	<1.0	<1.0	<1.0	<1.0	10.15	85.60
	6/5/2014	<1.0	<1.0	<1.0	<1.0	9.72	86.20
	9/24/2014	<1.0	<1.0	<1.0	<1.0	8.32	87.60

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Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	12/10/2014	<1.0	<1.0	<1.0	<1.0	9.45	86.47
	3/12/2015	<1.0	<1.0	<1.0	<1.0	9.73	86.19
	6/18/2015	<1.0	<1.0	<1.0	<1.0	8.41	87.51
	9/2/2015	<1.0	<1.0	<1.0	<1.0	8.03	87.89
	12/10/2015	<1.0	<1.0	<1.0	<1.0	8.34	87.58
	3/2/2016	<1.0	<1.0	<1.0	<1.0	8.70	87.22
	9/19/2016	<1.00	<1.00	<1.00	<1.00	8.12	87.80
	12/15/2016	<1.00	<1.00	<1.00	<1.00	9.20	86.72
	3/20/2017	<1.00	<1.00	<1.00	<1.00	10.61	85.31
	6/12/2017	<1.00	<1.00	<1.00	<1.00	9.63	86.29
	9/29/2017	<1.00	<1.00	<1.00	<1.00	9.33	86.59
	12/18/2017	<1.00	<1.00	<1.00	<1.00	9.91	86.01
	3/22/2018	Dry - Not Sampled				Dry	NA
	6/21/2018	<1.00	<1.00	<1.00	<1.00	10.74	88.84
	9/13/2018	<1.00	<1.00	<1.00	<1.00	9.86	89.72
	12/7/2018	<1.00	<1.00	<1.00	<1.00	11.06	88.52
	3/22/2019	Dry - Not Sampled				Dry	NA
	6/25/2019	<1.00	<1.00	<1.00	<1.00	10.04	89.54
	9/17/2019	<1.00	<1.00	<1.00	<1.00	8.68	90.90
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MW04	12/17/2009	1.1	6.8	<1.0	7.4	8.14	87.37
	3/12/2010	<1.0	<1.0	<1.0	<1.0	10.29	85.22
	6/15/2010	<1.0	<1.0	<1.0	<1.0	8.19	87.32
	9/16/2010	<1.0	<1.0	<1.0	<1.0	7.94	87.57
	12/7/2010	<1.0	<1.0	<1.0	<1.0	8.96	86.55
	3/15/2011	<1.0	<1.0	<1.0	<1.0	10.38	85.13
	6/27/2011	2.6	8.2	<1.0	2.8	10.37	85.14
	9/14/2011	1.8	11	<1.0	6.9	8.45	87.06
	12/16/2011	<1.0	<1.0	<1.0	<1.0	10.16	85.35
	3/7/2012	<1.0	<1.0	<1.0	<1.0	9.94	85.57
	6/25/2012	Dry - Not Sampled				Dry	NA
	9/24/2012	<1.0	<1.0	<1.0	<1.0	10.95	84.56
	12/28/2012	Dry - Not Sampled				Dry	NA
	3/28/2013	Dry - Not Sampled				Dry	NA
	6/5/2013	Dry - Not Sampled				Dry	NA

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COGCC Allowable Levels		5	560	700	1400		
	9/5/2013	Insufficient Water - Not Sampled				10.77	84.74
	12/3/2013	Surveyed - Not Sampled				9.32	86.47
	12/17/2013	<4.0	<4.0	<4.0	<4.0	9.07	86.44
	3/4/2014	<1.0	<1.0	<1.0	<1.0	9.73	85.78
	6/5/2014	<1.0	<1.0	<1.0	<1.0	9.34	86.45
	9/24/2014	<1.0	<1.0	<1.0	<1.0	8.04	87.75
	12/10/2014	<1.0	<1.0	<1.0	<1.0	9.12	86.67
	3/12/2015	<1.0	<1.0	<1.0	<1.0	9.40	86.39
	6/18/2015	<1.0	<1.0	<1.0	<1.0	8.04	87.75
	9/2/2015	<1.0	<1.0	<1.0	<1.0	7.82	87.97
	12/10/2015	<1.0	<1.0	<1.0	<1.0	8.05	87.74
	3/2/2016	<1.0	<1.0	<1.0	<1.0	8.40	87.39
	9/19/2016	<1.00	<1.00	<1.00	<1.00	7.86	87.93
	12/15/2016	<1.00	<1.00	<1.00	<1.00	9.93	86.86
	3/20/2017	<4.00	<4.00	<4.00	<4.00	11.22	85.57
	6/12/2017	<1.00	<1.00	<1.00	<1.00	10.27	86.52
	9/29/2017	<1.00	<1.00	<1.00	<1.00	10.03	86.76
	12/18/2017	<1.00	<1.00	<1.00	<1.00	11.64	85.15
	3/22/2018	Dry - Not Sampled				Dry	NA
	6/21/2018	Dry - Not Sampled				Dry	NA
	9/13/2018	Dry - Not Sampled				Dry	NA
	12/7/2018	Dry - Not Sampled				Dry	NA
	3/22/2019	Dry - Not Sampled				Dry	NA
	6/25/2019	Dry - Not Sampled				Dry	NA
	9/17/2019	Dry - Not Sampled				NM	NA
MW05	12/17/2009	<1.0	5.4	<1.0	5.4	7.93	87.73
	3/12/2010	<1.0	<1.0	<1.0	<1.0	9.60	86.06
	6/15/2010	<1.0	<1.0	<1.0	<1.0	8.00	87.66
	9/16/2010	<1.0	<1.0	<1.0	<1.0	8.90	86.76
	12/7/2010	<1.0	<1.0	<1.0	<1.0	8.88	86.78
	3/15/2011	<1.0	<1.0	<1.0	<1.0	10.36	85.30
	6/27/2011	11	69	3.7	49	10.30	85.36
	9/14/2011	<1.0	8.3	<1.0	11	8.42	87.24
	12/16/2011	<1.0	<1.0	<1.0	<1.0	8.91	86.75

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COGCC Allowable Levels		5	560	700	1400		
	3/7/2012	<1.0	<1.0	<1.0	<1.0	9.90	85.76
	6/25/2012	<1.0	<1.0	<1.0	<1.0	9.96	85.70
	9/24/2012	<1.0	2.2	<1.0	<1.0	10.40	85.26
	12/28/2012	Dry - Not Sampled				Dry	NA
	3/28/2013	Dry - Not Sampled				Dry	NA
	6/5/2013	Dry - Not Sampled				Dry	NA
	9/5/2013	1.1	16	<1.0	14	10.76	84.90
	12/3/2013	Surveyed - Not Sampled				9.05	86.79
	12/17/2013	<4.0	<4.0	<4.0	<4.0	9.08	86.58
	3/4/2014	<1.0	<1.0	<1.0	<1.0	9.74	85.92
	6/5/2014	<1.0	<1.0	<1.0	<1.0	9.18	86.66
	9/24/2014	<1.0	<1.0	<1.0	<1.0	7.85	87.99
	12/10/2014	<1.0	<1.0	<1.0	<1.0	8.92	86.92
	3/12/2015	<1.0	<1.0	<1.0	<1.0	9.12	86.72
	6/18/2015	<1.0	<1.0	<1.0	<1.0	7.84	88.00
	9/2/2015	<1.0	<1.0	<1.0	<1.0	7.58	88.26
	12/10/2015	<1.0	<1.0	<1.0	<1.0	7.84	88.00
	3/2/2016	<1.0	<1.0	<1.0	<1.0	8.25	87.59
	9/19/2016	<1.00	<1.00	<1.00	<1.00	7.70	88.14
	12/15/2016	<1.00	<1.00	<1.00	<1.00	8.76	87.08
	3/20/2017	<4.00	<4.00	<4.00	<4.00	10.02	85.82
	6/12/2017	<1.00	<1.00	<1.00	<1.00	9.14	86.70
	9/29/2017	<1.00	<1.00	<1.00	<1.00	8.78	87.06
	12/18/2017	<1.00	<1.00	<1.00	<1.00	9.49	86.35
	3/22/2018	Dry - Not Sampled				Dry	NA
	6/21/2018	Dry - Not Sampled				Dry	NA
	9/13/2018	Dry - Not Sampled				Dry	NA
	12/7/2018	Dry - Not Sampled				Dry	NA
	3/22/2019	Dry - Not Sampled				Dry	NA
	6/25/2019	Dry - Not Sampled				Dry	NA
	9/17/2019	<1.00	<1.00	<1.00	<1.00	NM	NA
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MW06	3/12/2010	1500	13000	<1.0	<1.0	9.95	86.43
	6/15/2010	1700	28000	550	7300	8.60	87.78
	9/16/2010	680	15000	680	7800	8.50	87.88



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COGCC Allowable Levels		5	560	700	1400		
	12/7/2010	1200	23000	690	9000	9.51	86.87
	3/15/2011	920	26000	500	7100	10.99	85.39
	6/27/2011	220	7600	310	3500	10.95	85.43
	9/14/2011	120	15000	570	6900	9.07	87.31
	12/16/2011	14	18000	700	8400	9.97	86.41
	3/7/2012	190	19000	430	6900	10.45	85.93
	6/25/2012	8.6	3200	240	4000	10.80	85.58
	9/24/2012	20	7100	310	3900	10.73	85.65
	12/28/2012	8.9	38	97	1500	12.40	83.98
	3/28/2013	61	200	57	1600	13.43	82.95
	6/5/2013	94	280	170	2200	12.91	83.47
	9/5/2013	81	350	230	2600	11.35	85.03
	12/3/2013	Surveyed - Not Sampled				9.53	86.84
	12/17/2013	<4.0	400	112	4700	9.76	86.62
	3/4/2014	5.1	1800	449	4450	10.34	86.04
	6/5/2014	<4.0	13.5	379	4580	9.59	86.78
	9/24/2014	<4.0	168	508	5580	8.26	88.11
	12/10/2014	<1.0	52.4	525	6350	9.29	87.08
	3/12/2015	<4.0	8.7	495	6050	9.53	86.84
	6/18/2015	<4.0	<4.0	232	2950	8.23	88.14
	9/2/2015	<4.0	<4.0	595	7230	7.98	88.39
	12/10/2015	<1.0	2.1	517	6020	8.21	88.16
	3/2/2016	<4.0	<4.0	314	4710	8.65	87.72
	9/19/2016	<1.00	<1.00	622	7,410	8.10	88.27
	12/15/2016	<1.00	<1.00	<1.00	6,800	9.12	87.24
	3/20/2017	<4.00	<4.00	629	6,250	10.33	86.03
	6/12/2017	<4.00	<4.00	420	5,100	9.49	86.87
	9/29/2017	<4.00	<4.00	487	4,870	9.14	87.22
	12/18/2017	<4.00	14.4	466	4,540	9.87	86.49
	3/22/2018	<4.00	<4.00	157	1,450	11.20	88.86
	6/21/2018	<4.00	<4.00	150	1,090	10.69	89.37
	9/13/2018	<4.00	<4.00	439	4,710	9.94	90.12
	12/7/2018	<4.00	<4.00	220	1,960	11.18	88.88
	3/22/2019	<4.00	<4.00	139	619	12.17	87.89
	6/25/2019	<1.00	<1.00	<1.00	<1.00	9.97	90.09



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	9/17/2019	<4.00	<4.00	<4.00	<4.00	8.72	91.34
MW07	3/12/2010	9900	17000	600	8100	PVC Blocked	NA
	6/15/2010	28000	48000	450	5500	9.22	NA
	9/16/2010	21000	34000	1100	12000	9.05	NA
	12/7/2010	23000	40000	980	12000	10.03	NA
	3/15/2011	23000	44000	600	4700	10.29	NA
	6/27/2011	Product - Not Sampled				PVC Blocked	NA
	9/14/2011	24000	34000	640	15000	9.60	NA
	12/16/2011	20000	31000	920	16000	10.02	NA
	3/7/2012	15000	27000	510	12000	PVC Blocked	NA
	6/25/2012	12000	22000	490	10000	PVC Blocked	NA
	9/24/2012	Dry - Not Sampled				Dry	NA
	12/28/2012	Dry - Not Sampled				Dry	NA
	3/28/2013	Dry - Not Sampled				Dry	NA
	6/5/2013	Dry - Not Sampled				Dry	NA
	9/5/2013	Dry - Not Sampled				Dry	NA
	12/3/2013	Surveyed - Not Sampled				Dry	NA
	MW07 destroyed as of 12/17/2013						
MW07R	3/4/2014	Insufficient Water - Not Sampled				10.63	NA
	3/27/2014	7840	22000	377	5300	NM	NA
	6/5/2014	8300	28800	540	6500	9.90	NA
	9/24/2014	12200	35900	725	10900	8.50	NA
	12/10/2014	7820	26000	444	7540	9.52	NA
	3/12/2015	6660	27300	<500	6920	9.74	NA
	6/18/2015	4420	19800	307	4820	8.68	NA
	9/2/2015	5520	27200	422	6110	8.27	NA
	12/10/2015	3160	20000	<500	3560	8.44	NA
	3/2/2016	3010	23700	338	4840	8.96	NA
	9/19/2016	1,390	18,600	363	5,540	8.38	NA
	12/15/2016	1,010	15,600	211	5,180	9.34	NA
	3/20/2017	868	11,400	480	6,730	10.55	NA
	6/12/2017	479	7,810	299	4,050	9.91	NA
	9/29/2017	308	4,310	266	3,660	9.48	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	12/18/2017	254	1,670	314	4,330	10.11	NA
	3/22/2018	114	324	171	2,450	11.67	89.00
	6/21/2018	20,200	9,280	194	3,300	11.23	89.44
	9/13/2018	224	1,290	<200	1,980	10.49	90.18
	12/7/2018	70.0	6.40	<4.00	588	11.66	89.01
	3/22/2019	16.9	20.3	<4.00	1,580	12.65	88.02
	6/25/2019	38.6	1,360	139	6,770	10.52	90.15
	9/17/2019	4.76	89.1	<4.00	1,420	9.17	91.50
MW08	4/27/2010	5.9	23	2.4	8.1	9.43	86.86
	6/15/2010	<1.0	<1.0	<1.0	<1.0	8.31	88.02
	9/16/2010	<1.0	<1.0	<1.0	<1.0	8.29	88.04
	12/7/2010	<1.0	<1.0	18	1.6	9.32	87.01
	3/15/2011	<1.0	<1.0	38	12	10.77	85.56
	6/27/2011	1.4	11	1.2	9.2	10.62	85.71
	9/14/2011	<1.0	<1.0	<1.0	<1.0	8.84	87.49
	12/16/2011	1.9	6.3	1.7	4.2	9.29	87.04
	3/7/2012	1.4	3.6	<1.0	2.0	10.49	86.04
	6/25/2012	<1.0	<1.0	<1.0	<1.0	10.74	85.79
	9/24/2012	<1.0	<1.0	<1.0	<1.0	10.79	85.74
	12/28/2012	<1.0	3.0	<1.0	<1.0	12.33	84.20
	3/28/2013	<1.0	<1.0	<1.0	<1.0	13.46	83.07
	6/5/2013	<1.0	64	6.2	86	12.85	83.68
	9/5/2013	<1.0	<1.0	<1.0	<1.0	11.33	85.20
	12/3/2013	Surveyed - Not Sampled				9.38	87.04
	12/17/2013	<4.0	<4.0	<4.0	<4.0	9.72	86.81
	3/4/2014	<1.0	<1.0	<1.0	<1.0	10.36	86.17
	6/5/2014	<1.0	3.0	<1.0	<1.0	9.30	87.12
	9/24/2014	<1.0	<1.0	<1.0	<1.0	8.12	88.30
	12/10/2014	<1.0	<1.0	<1.0	<1.0	9.17	87.25
	3/12/2015	<1.0	<1.0	<1.0	<1.0	9.32	87.10
	6/18/2015	<1.0	<1.0	<1.0	<1.0	8.09	88.33
	9/2/2015	<1.0	<1.0	<1.0	<1.0	7.79	88.63
	12/10/2015	<1.0	<1.0	<1.0	<1.0	8.06	88.36
	3/2/2016	<1.0	<1.0	<1.0	<1.0	8.49	87.93

TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	9/19/2016	<1.00	<1.00	<1.00	<1.00	7.96	88.46
	12/15/2016	<1.00	<1.00	<1.00	<1.00	9.01	87.41
	3/20/2017	<1.00	<1.00	<1.00	<1.00	10.23	86.19
	6/12/2017	<1.00	<1.00	<1.00	<1.00	9.29	87.13
	9/29/2017	<1.00	<1.00	<1.00	<1.00	9.03	87.39
	12/18/2017	8.48	222	57.4	205	9.74	86.68
	3/22/2018	<4.00	<4.00	<4.00	<4.00	10.96	89.11
	6/21/2018	<1.00	<1.00	<1.00	<1.00	10.51	89.56
	9/13/2018	<1.00	<1.00	<1.00	<1.00	9.76	90.31
	12/7/2018	<1.00	<1.00	<1.00	<1.00	11.00	89.07
	3/22/2019	<1.00	<1.00	<1.00	<1.00	11.98	88.09
	6/25/2019	<1.00	<1.00	<1.00	<1.00	9.71	90.36
	9/17/2019	<1.00	<1.00	<1.00	<1.00	8.48	91.59
MW09	4/27/2010	5100	20000	790	7200	9.80	86.98
	6/15/2010	3200	57000	450	5600	8.55	88.15
	9/16/2010	2800	34000	900	11000	8.49	88.21
	12/7/2010	2000	37000	740	8900	9.56	87.14
	3/15/2011	1300	49000	620	8700	11.01	85.69
	6/27/2011	740	52000	760	9200	10.92	85.78
	9/14/2011	540	40000	860	11000	9.15	87.55
	12/16/2011	15	25000	560	6400	9.55	87.15
	3/7/2012	150	35000	610	8700	10.49	86.21
	6/25/2012	49	16000	370	4600	10.72	85.98
	9/24/2012	34	20000	400	4800	10.94	85.76
	12/28/2012	5.6	4200	200	3300	12.39	84.31
	3/28/2013	120	7200	<1.0	2900	13.49	83.21
	6/5/2013	Product - Not Sampled				13.69 (1.05)	83.01
	9/5/2013	170	17000	360	7700	11.32	85.30
	12/3/2013	Surveyed - Not Sampled				9.68	87.12
	12/17/2013	17.2	8020	221	4290	9.72	86.90
	3/4/2014	32.9	12400	493	6080	10.37	86.25
	6/5/2014	12.7	8020	330	4150	9.70	87.10
	9/24/2014	12.9	18100	1010	12000	8.37	88.43
	12/10/2014	7.7	15000	667	8000	9.40	87.40



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	3/12/2015	<4.0	10100	629	7580	9.60	87.20
	6/18/2015	<4.0	5750	564	7490	8.39	88.41
	9/2/2015	<4.0	4690	543	6770	8.06	88.74
	12/10/2015	<4.0	2780	475	6290	8.27	88.53
	3/2/2016	<4.0	4790	994	13000	8.72	88.08
	9/19/2016	<4.00	347	610	10,300	8.22	88.58
	12/15/2016	<1.00	53.5	760	11,100	9.23	87.57
	3/20/2017	<4.00	54.9	846	10,900	10.39	86.41
	6/12/2017	<4.00	19.4	740	10,800	9.54	87.26
	9/29/2017	<4.00	<4.00	799	10,500	9.22	87.58
	12/18/2017	<4.00	15.6	643	8,410	10.00	86.80
	3/22/2018	<4.00	<4.00	616	7,910	11.30	89.21
	6/21/2018	<4.00	<4.00	492	6,890	10.84	89.67
	9/13/2018	<4.00	5.20	200	8,810	10.08	90.43
	12/7/2018	<4.00	<4.00	286	8,530	11.34	89.17
	3/22/2019	<4.00	<4.00	173	731	12.28	88.23
	6/25/2019	<1.00	19.1	231	3,520	10.07	90.44
	9/17/2019	<4.00	7.40	346	4,240	8.76	91.75
MW10	4/27/2010	11000	18000	1000	8700	10.03	86.93
	6/15/2010	27000	51000	360	4400	9.07	88.03
	9/16/2010	9600	35000	880	10000	8.95	88.15
	12/7/2010	10000	33000	700	9700	9.92	87.18
	3/15/2011	9300	48000	450	7000	11.42	85.68
	6/27/2011	12000	44000	710	11000	11.35	85.75
	9/14/2011	3200	18000	460	7200	9.65	87.45
	12/16/2011	3200	15000	1700	5400	10.00	87.10
	3/7/2012	2500	18000	370	5500	11.00	86.10
	6/25/2012	2700	17000	400	4900	11.11	85.99
	9/24/2012	2400	11000	270	3800	11.30	85.80
	12/28/2012	Product - Not Sampled				14.00 (0.35)	83.10
	3/28/2013	Product - Not Sampled				14.90 (1.55)	82.20
	6/5/2013	Product - Not Sampled				14.60 (1.70)	82.50
	9/5/2013	3100	17000	290	4800	12.42 (0.77)	84.70
	12/3/2013	Surveyed - Not Sampled				10.07	87.02



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	12/17/2013	Product - Not Sampled				10.29 (0.08)	86.81
	3/4/2014	349	6510	462	4650	10.87	86.23
	6/5/2014	331	3440	214	2160	10.07	87.02
	9/24/2014	435	3250	198	1680	8.70	88.39
	12/10/2014	839	9760	523	6440	9.70	87.39
	3/12/2015	1780	23600	1470	24300	9.83	87.26
	6/18/2015	111	1320	312	3810	8.74	88.35
	9/2/2015	30.8	1890	74.6	821	8.40	88.69
	12/10/2015	63.4	2530	184	1220	8.58	88.51
	3/2/2016	312	8590	368	5410	8.08	89.01
	9/19/2016	60.6	2,360	115	1,750	8.54	88.55
	12/15/2016	77.4	7,290	140	2,620	9.54	87.55
	3/20/2017	57.8	9,070	435	5,710	10.70	86.39
	6/12/2017	24.0	7,200	467	3,380	9.93	87.16
	9/29/2017	14.0	2,470	171	2,030	9.57	87.52
	12/18/2017	69.6	7,620	422	5,220	10.30	86.79
	3/22/2018	13.3	5,150	472	5,740	11.55	89.22
	6/21/2018	28.4	6,930	260	3,820	11.19	89.58
	9/13/2018	7.84	2,810	134	2,540	10.36	90.41
	12/7/2018	23.8	6,080	364	3,860	11.57	89.20
	3/22/2019	Product - Not Sampled				13.33 (1.03)	87.44
	6/25/2019	9.88	2,180	34.2	1,490	10.42	90.35
	9/17/2019	5.88	7,200	500	7,870	9.13	91.64
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MW11	5/25/2010	<1.0	1.2	<1.0	2.8	NM	NA
	6/15/2010	<1.0	<1.0	<1.0	<1.0	7.54	88.67
	9/16/2010	<1.0	<1.0	<1.0	<1.0	7.75	88.46
	12/7/2010	<1.0	<1.0	<1.0	<1.0	8.84	87.37
	3/15/2011	<1.0	<1.0	<1.0	<1.0	10.31	85.90
	6/27/2011	<1.0	<1.0	<1.0	<1.0	10.16	86.05
	9/14/2011	<1.0	<1.0	<1.0	<1.0	8.41	87.80
	12/16/2011	<1.0	<1.0	<1.0	<1.0	8.82	87.39
	3/7/2012	<1.0	<1.0	<1.0	<1.0	9.80	86.41
	6/25/2012	<1.0	<1.0	<1.0	<1.0	9.94	86.27
	9/24/2012	<1.0	<1.0	<1.0	<1.0	10.25	85.96



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	12/28/2012	1.0	6.1	<1.0	2.0	11.73	84.48
	6/5/2013	Dry - Not Sampled				Dry	NA
	9/5/2013	<1.0	2.8	<1.0	2.3	11.00	85.61
	12/3/2013	Surveyed - Not Sampled				9.73	87.39
	12/17/2013	<4.0	<4.0	<4.0	<4.0	9.46	87.15
	3/4/2014	<4.0	<4.0	<4.0	<4.0	10.15	86.46
	6/5/2014	<1.0	<1.0	<1.0	<1.0	9.65	87.47
	9/24/2014	<1.0	<1.0	<1.0	<1.0	8.25	88.87
	12/10/2014	<1.0	<1.0	<1.0	<1.0	9.40	87.72
	3/12/2015	<1.0	<1.0	<1.0	<1.0	9.48	87.64
	6/18/2015	<1.0	<1.0	<1.0	<1.0	8.33	88.79
	9/2/2015	<1.0	<1.0	<1.0	<1.0	8.11	89.01
	12/10/2015	<1.0	<1.0	<1.0	<1.0	8.29	88.83
	3/2/2016	<1.0	<1.0	<1.0	<1.0	8.69	88.43
	9/19/2016	<1.00	<1.00	<1.00	<1.00	8.30	88.82
	12/15/2016	<1.00	<1.00	<1.00	<1.00	9.28	87.84
	3/20/2017	<1.00	<1.00	<1.00	<1.00	10.36	86.76
	6/12/2017	<1.00	<1.00	<1.00	<1.00	9.53	87.59
	9/29/2017	<1.00	<1.00	<1.00	<1.00	9.23	87.89
	12/18/2017	<1.00	<1.00	<1.00	<1.00	10.12	87.00
	3/22/2018	<1.00	1.05	<1.00	<1.00	11.26	89.52
	6/21/2018	<1.00	<1.00	<1.00	<1.00	10.71	90.07
	9/13/2018	<1.00	<1.00	<1.00	<1.00	10.00	90.78
	12/7/2018	<1.00	<1.00	<1.00	<1.00	11.26	89.52
	3/22/2019	<1.00	<1.00	<1.00	<1.00	12.19	88.59
	6/25/2019	<1.00	<1.00	<1.00	<1.00	9.95	90.83
	9/17/2019	<1.00	<1.00	<1.00	<1.00	8.68	92.10
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MW12	5/25/2010	<1.0	2000	250	4100	NM	NA
	6/15/2010	<1.0	810	120	1400	10.21	88.48
	9/16/2010	<1.0	140	130	1400	10.20	88.49
	12/7/2010	<1.0	56	130	370	11.25	87.44
	3/15/2011	<1.0	340	290	650	12.68	86.01
	6/27/2011	<1.0	530	250	3400	12.60	86.09
	9/14/2011	<1.0	90	170	900	10.87	87.82



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	12/16/2011	<1.0	4.4	23	90	10.23	88.46
	3/7/2012	<1.0	110	190	1500	12.20	86.49
	6/25/2012	<1.0	51	110	840	12.20	86.49
	9/24/2012	<1.0	46	130	1100	12.72	85.97
	12/28/2012	Insufficient Water - Not Sampled				13.60	85.09
	3/28/2013	Dry - Not Sampled				Dry	NA
	6/5/2013	Dry - Not Sampled				Dry	NA
	9/5/2013	<1.0	3.6	10	3300	13.08	85.61
	12/3/2013	Surveyed - Not Sampled				10.68	87.39
	12/17/2013	<4.0	<4.0	<4.0	1030	11.51	87.18
	3/4/2014	<1.0	1.3	162	1390	12.18	86.51
	6/5/2014	<4.0	<4.0	62.8	723	10.95	87.12
	9/24/2014	<1.0	<1.0	13.1	60.2	9.39	88.68
	12/10/2014	<1.0	<1.0	4.8	8.0	10.28	87.79
	3/12/2015	<1.0	<1.0	6.1	42.0	10.39	87.68
	6/18/2015	<1.0	<1.0	1.6	<1.0	9.23	88.84
	9/2/2015	<1.0	<1.0	4.6	17.0	9.08	88.99
	12/10/2015	<1.0	<1.0	1.0	<1.0	9.18	88.89
	3/2/2016	<1.0	<1.0	<1.0	<1.0	9.64	88.43
	9/19/2016	<1.00	<1.00	<1.00	<1.00	9.23	88.84
	12/15/2016	<1.00	<1.00	<1.00	<1.00	10.17	87.90
	3/20/2017	<1.00	<1.00	<1.00	<1.00	11.28	86.79
	6/12/2017	<1.00	<1.00	<1.00	<1.00	10.47	87.60
	9/29/2017	<1.00	<1.00	<1.00	<1.00	10.14	87.93
	12/18/2017	<1.00	1.75	<1.00	2.12	10.99	87.08
	3/22/2018	<1.00	<1.00	<1.00	<1.00	12.12	89.58
	6/21/2018	<1.00	<1.00	<1.00	<1.00	11.66	90.04
	9/13/2018	<1.00	<1.00	<1.00	<1.00	10.91	90.79
	12/7/2018	<1.00	<1.00	<1.00	<1.00	12.11	89.59
	3/22/2019	<4.00	<4.00	<4.00	<4.00	13.06	88.64
	6/25/2019	<1.00	<1.00	<1.00	<1.00	10.91	90.79
	9/17/2019	<1.00	<1.00	<1.00	<1.00	9.62	92.08
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MW13	6/15/2010	<1.0	<1.0	<1.0	<1.0	6.66	89.22
	9/16/2010	<1.0	<1.0	<1.0	<1.0	6.92	88.96



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	12/7/2010	<1.0	<1.0	<1.0	<1.0	8.10	87.78
	3/15/2011	<1.0	<1.0	<1.0	<1.0	9.54	86.34
	6/27/2011	<1.0	<1.0	<1.0	<1.0	9.39	86.49
	9/14/2011	<1.0	<1.0	<1.0	<1.0	7.66	88.22
	12/16/2011	<1.0	<1.0	<1.0	<1.0	7.78	88.10
	3/7/2012	<1.0	<1.0	<1.0	<1.0	9.10	86.78
	6/25/2012	<1.0	<1.0	<1.0	<1.0	8.48	87.40
	9/24/2012	<1.0	<1.0	<1.0	<1.0	9.60	86.28
	12/28/2012	<1.0	<1.0	<1.0	<1.0	11.00	84.88
	3/28/2013	Insufficient Water - Not Sampled				12.02	83.86
	6/5/2013	Insufficient Water - Not Sampled				PVC Blocked	NA
	9/5/2013	<1.0	<1.0	<1.0	<1.0	8.80	87.08
	12/3/2013	Surveyed - Not Sampled				9.88	87.73
	12/17/2013	<4.0	<4.0	<4.0	<4.0	8.34	87.54
	3/4/2014	<4.0	<4.0	<4.0	<4.0	9.06	86.82
	6/5/2014	<1.0	<1.0	<1.0	<1.0	9.70	87.91
	9/24/2014	<1.0	<1.0	<1.0	<1.0	8.35	89.26
	12/10/2014	<1.0	<1.0	<1.0	<1.0	9.42	88.19
	3/12/2015	<1.0	<1.0	<1.0	<1.0	9.42	88.19
	6/18/2015	<1.0	<1.0	<1.0	<1.0	8.30	89.31
	9/2/2015	<1.0	<1.0	<1.0	<1.0	8.13	89.48
	12/10/2015	<1.0	<1.0	<1.0	<1.0	8.30	89.31
	3/2/2016	<1.0	<1.0	<1.0	<1.0	8.77	88.84
	9/19/2016	<1.00	<1.00	<1.00	<1.00	8.38	89.23
	12/15/2016	<1.00	<1.00	<1.00	<1.00	9.35	88.26
	3/20/2017	<1.00	<1.00	<1.00	<1.00	10.33	87.28
	6/12/2017	<1.00	<1.00	<1.00	<1.00	9.51	88.10
	9/29/2017	<1.00	<1.00	<1.00	<1.00	9.25	88.36
	12/18/2017	<1.00	1.13	<1.00	<1.00	10.29	87.32
	3/22/2018	<1.00	<1.00	<1.00	<1.00	11.19	89.86
	6/21/2018	<1.00	<1.00	<1.00	<1.00	10.62	90.43
	9/13/2018	<1.00	<1.00	<1.00	<1.00	9.90	91.15
	12/7/2018	<1.00	<1.00	<1.00	<1.00	11.14	89.91
	3/22/2019	<1.00	<1.00	<1.00	<1.00	12.04	89.01
	6/25/2019	<1.00	<1.00	<1.00	<1.00	9.78	91.27



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	9/17/2019	<1.00	<1.00	<1.00	<1.00	8.53	92.52
MW14	6/15/2010	<1.0	<1.0	<1.0	<1.0	10.59	88.70
	9/16/2010	<1.0	<1.0	<1.0	<1.0	10.52	88.77
	12/7/2010	<1.0	<1.0	<1.0	<1.0	11.61	87.68
	3/15/2011	<1.0	<1.0	<1.0	<1.0	13.07	86.22
	6/27/2011	<1.0	<1.0	<1.0	<1.0	12.94	86.35
	9/14/2011	<1.0	<1.0	<1.0	2.3	11.28	88.01
	12/16/2011	<1.0	<1.0	<1.0	<1.0	11.30	87.99
	3/7/2012	<1.0	<1.0	<1.0	<1.0	12.70	86.59
	6/25/2012	<1.0	<1.0	<1.0	<1.0	12.61	86.68
	9/24/2012	<1.0	<1.0	<1.0	<1.0	13.18	86.11
	12/28/2012	<1.0	1.0	<1.0	<1.0	14.50	84.79
	3/28/2013	<1.0	<1.0	<1.0	<1.0	15.55	83.74
	6/5/2013	<1.0	<1.0	<1.0	<1.0	14.90	84.39
	9/5/2013	<1.0	<1.0	<1.0	<1.0	13.42	85.87
	12/3/2013	Surveyed - Not Sampled				11.34	87.57
	12/17/2013	<4.0	<4.0	<4.0	<4.0	11.89	87.40
	3/4/2014	<1.0	<1.0	<1.0	<1.0	12.59	86.70
	6/5/2014	<1.0	<1.0	<1.0	<1.0	11.30	87.61
	9/24/2014	<1.0	<1.0	<1.0	<1.0	9.83	89.08
	12/10/2014	<1.0	<1.0	<1.0	<1.0	10.82	88.09
	3/12/2015	<1.0	<1.0	<1.0	<1.0	10.90	88.01
	6/18/2015	<1.0	<1.0	<1.0	<1.0	9.83	89.08
	9/2/2015	<1.0	<1.0	<1.0	<1.0	9.62	89.29
	12/10/2015	<1.0	<1.0	<1.0	<1.0	9.75	89.16
	3/2/2016	<1.0	<1.0	<1.0	<1.0	10.20	88.71
	9/19/2016	<1.00	<1.00	<1.00	<1.00	9.86	89.05
	12/15/2016	<1.00	<1.00	<1.00	<1.00	10.73	88.18
	3/20/2017	<1.00	<1.00	<1.00	<1.00	11.77	87.14
	6/12/2017	<1.00	<1.00	<1.00	<1.00	11.04	87.87
	9/29/2017	<1.00	<1.00	<1.00	<1.00	10.72	88.19
	12/18/2017	<1.00	<1.00	<1.00	<1.00	11.57	87.34
	3/22/2018	<1.00	<1.00	<1.00	<1.00	12.67	89.73
	6/21/2018	<1.00	<1.00	<1.00	<1.00	12.15	90.25

TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	9/13/2018	<1.00	<1.00	<1.00	<1.00	11.38	91.02
	12/7/2018	<1.00	<1.00	<1.00	<1.00	12.61	89.79
	3/22/2019	<1.00	<1.00	<1.00	<1.00	13.54	88.86
	6/25/2019	<1.00	<1.00	<1.00	<1.00	11.39	91.01
	9/17/2019	<1.00	<1.00	<1.00	<1.00	10.06	92.34
MW15	6/29/2010	4.6	50	130	1400	8.76	88.29
	9/16/2010	<1.0	1.3	16	230	8.78	88.27
	12/7/2010	<1.0	<1.0	16	210	9.86	87.19
	3/15/2011	<1.0	<1.0	17	280	11.18	85.87
	6/27/2011	<1.0	<1.0	8.9	39	11.15	85.90
	9/14/2011	<1.0	<1.0	5.9	3.1	9.37	87.68
	12/16/2011	<1.0	<1.0	6.0	2.6	9.83	87.22
	3/7/2012	<1.0	<1.0	<1.0	<1.0	10.83	86.22
	6/25/2012	<1.0	<1.0	<1.0	<1.0	11.69	85.36
	9/24/2012	<1.0	<1.0	<1.0	<1.0	12.85	84.20
	12/28/2012	1.1	2.8	<1.0	<1.0	12.87	84.18
	3/28/2013	<1.0	<1.0	<1.0	<1.0	13.78	83.27
	6/5/2013	<1.0	<1.0	2.8	4.2	13.18	83.87
	9/5/2013	<1.0	2.1	2.2	7.5	11.63	85.42
	12/3/2013	Surveyed - Not Sampled				9.58	87.24
	12/17/2013	<4.0	<4.0	<4.0	<4.0	10.01	87.04
	3/4/2014	<1.0	<1.0	<1.0	<1.0	10.70	86.35
	6/5/2014	<1.0	<1.0	<1.0	<1.0	9.58	87.24
	9/24/2014	<1.0	<1.0	1.2	1.0	8.26	88.56
	12/10/2014	<1.0	<1.0	<1.0	<1.0	9.32	87.50
	3/12/2015	<1.0	<1.0	<1.0	<1.0	9.43	87.39
	6/18/2015	<1.0	<1.0	<1.0	<1.0	8.22	88.60
	9/2/2015	<1.0	<1.0	<1.0	<1.0	7.98	88.84
	12/10/2015	<1.0	<1.0	<1.0	<1.0	8.19	88.63
	3/2/2016	<1.0	<1.0	<1.0	<1.0	8.63	88.19
	9/19/2016	<1.00	<1.00	<1.00	<1.00	8.14	88.68
	12/15/2016	<1.00	<1.00	<1.00	<1.00	9.15	87.67
	3/20/2017	<1.00	<1.00	<1.00	<1.00	10.31	86.51
	6/12/2017	<1.00	<1.00	<1.00	<1.00	9.50	87.32

TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	9/29/2017	<1.00	<1.00	<1.00	<1.00	10.12	86.70
	12/18/2017	<1.00	<1.00	<1.00	<1.00	9.94	86.88
	3/22/2018	<1.00	<1.00	<1.00	<1.00	10.99	89.33
	6/21/2018	<1.00	<1.00	<1.00	<1.00	10.54	89.78
	9/13/2018	<1.00	<1.00	<1.00	<1.00	9.80	90.52
	12/7/2018	<1.00	<1.00	<1.00	<1.00	10.97	89.35
	3/22/2019	<1.00	<1.00	<1.00	<1.00	11.97	88.35
	6/25/2019	<1.00	<1.00	<1.00	<1.00	9.72	90.60
	9/17/2019	<1.00	<1.00	<1.00	<1.00	8.48	91.84
MW16	6/29/2010	48000	68000	410	4800	9.61	NA
	9/16/2010	13000	16000	660	6400	9.33	NA
	12/7/2010	9200	15000	440	6400	10.32	NA
	3/15/2011	20000	18000	170	8000	11.77	NA
	6/27/2011	26000	39000	680	17000	11.78	NA
	9/14/2011	7900	12000	360	6500	9.97	NA
	12/16/2011	6700	6500	1700	5100	10.43	NA
	3/7/2012	7500	7700	150	5000	11.33	NA
	6/25/2012	20000	21000	240	3300	11.38	NA
	9/24/2012	4300	6800	170	5500	11.55	NA
	12/28/2012	Product - Not Sampled				13.96 (1.43)	NA
	3/28/2013	Damaged - Not Sampled				Damaged	NA
	6/5/2013	Damaged - Not Sampled				Damaged	NA
	MW16 destroyed as of 9/5/2013						
MW16R	3/4/2014	16700	23100	<500	3660	11.73	NA
	6/5/2014	20100	26800	394	5430	13.82	NA
	9/24/2014	22000	30200	638	7290	9.68	NA
	12/10/2014	17300	24300	443	6560	10.65	NA
	3/12/2015	19900	31400	<500	6560	10.94	NA
	6/18/2015	20300	29800	464	6550	9.73	NA
	9/2/2015	25200	33600	454	5940	9.51	NA
	12/10/2015	19900	29100	<500	4940	9.58	NA
	3/2/2016	21700	33300	<500	5750	10.17	NA
	9/19/2016	7,400	11,200	424	2,800	9.49	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	12/15/2016	19,800	22,900	364	6,720	10.50	NA
	3/20/2017	14,800	14,200	416	5,880	11.78	NA
	6/12/2017	14,200	13,200	322	4,370	11.02	NA
	9/29/2017	18,400	9,800	472	6,770	10.64	NA
	12/18/2017	14,100	3,980	301	5,510	10.74	NA
	3/22/2018	7,150	446	143	2,500	11.97	88.87
	6/21/2018	113	577	123	1,570	11.69	89.15
	9/13/2018	13,900	9,770	21.5	7,190	10.81	90.03
	12/7/2018	13,300	1,520	231	4,640	11.94	88.90
	3/22/2019	Dry - Not Sampled				Dry	NA
	6/25/2019	16,100	12,600	219	5,980	10.99	89.85
	9/17/2019	14,200	13,700	284	7,290	NM	NA
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MW17	9/16/2010	<1.0	<1.0	1.2	4.4	8.37	87.12
	12/7/2010	<1.0	1.8	<1.0	<1.0	9.37	86.12
	3/15/2011	<1.0	<1.0	<1.0	<1.0	10.86	84.63
	6/27/2011	1.3	7.4	<1.0	<1.0	10.84	84.65
	9/14/2011	<1.0	4.1	<1.0	2.8	8.87	86.62
	12/16/2011	<1.0	<1.0	<1.0	<1.0	9.31	86.18
	3/7/2012	<1.0	<1.0	<1.0	<1.0	10.39	85.10
	6/25/2012	1.1	1.9	<1.0	<1.0	10.74	84.75
	9/24/2012	<1.0	<1.0	<1.0	<1.0	10.49	85.00
	12/28/2012	<1.0	<1.0	<1.0	<1.0	12.26	83.23
	3/28/2013	<1.0	<1.0	<1.0	<1.0	13.29	82.20
	6/5/2013	<1.0	<1.0	<1.0	<1.0	12.81	82.68
	9/5/2013	<1.0	<1.0	<1.0	<1.0	11.29	84.20
	12/3/2013	Surveyed - Not Sampled				9.40	86.12
	12/17/2013	<4.0	<4.0	<4.0	<4.0	9.57	85.92
	3/4/2014	<6.0	<1.0	<4.0	<4.0	10.15	85.34
	6/5/2014	<1.0	<1.0	<1.0	<1.0	9.70	85.82
	9/24/2014	<1.0	<1.0	<1.0	<1.0	8.29	87.23
	12/10/2014	<1.0	<1.0	<1.0	<1.0	9.34	86.18
	3/12/2015	<1.0	<1.0	<1.0	<1.0	9.78	85.74
	6/18/2015	<1.0	<1.0	<1.0	<1.0	8.43	87.09
	9/2/2015	<1.0	<1.0	<1.0	<1.0	7.90	87.62



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	12/10/2015	<1.0	<1.0	<1.0	<1.0	8.26	87.26
	3/2/2016	<1.0	<1.0	<1.0	<1.0	8.75	86.77
	9/19/2016	<1.00	<1.00	<1.00	<1.00	7.98	87.54
	12/15/2016	<1.00	<1.00	<1.00	<1.00	9.10	86.42
	3/20/2017	<1.00	<1.00	<1.00	<1.00	10.47	85.05
	6/12/2017	<1.00	<1.00	<1.00	<1.00	9.63	85.89
	9/29/2017	<1.00	<1.00	<1.00	<1.00	9.25	86.27
	12/18/2017	<1.00	<1.00	<1.00	<1.00	9.78	85.74
	3/22/2018	<1.00	<1.00	<1.00	<1.00	10.88	88.38
	6/21/2018	<1.00	<1.00	<1.00	<1.00	10.86	88.40
	9/13/2018	<1.00	<1.00	<1.00	<1.00	9.80	89.46
	12/7/2018	<1.00	<1.00	<1.00	<1.00	11.02	88.24
	3/22/2019	<1.00	<1.00	<1.00	<1.00	12.38	86.88
	6/25/2019	<1.00	<1.00	<1.00	<1.00	10.04	89.22
	9/17/2019	<1.00	<1.00	<1.00	<1.00	8.67	90.59
MW18	9/16/2010	75	<1.0	10	37	9.25	87.12
	12/7/2010	<1.0	<1.0	<1.0	<1.0	10.34	86.03
	3/15/2011	2.4	<1.0	<1.0	<1.0	10.86	85.51
	6/27/2011	23	<1.0	<1.0	<1.0	11.85	84.52
	9/14/2011	3.8	<1.0	<1.0	3.1	9.83	86.54
	12/16/2011	6.8	<1.0	16	4.9	10.30	86.07
	3/7/2012	<1.0	<1.0	<1.0	<1.0	11.50	84.87
	6/25/2012	<1.0	<1.0	<1.0	<1.0	11.60	84.77
	9/24/2012	<1.0	<1.0	<1.0	<1.0	11.53	84.84
	12/28/2012	1.1	2.5	<1.0	<1.0	13.10	83.27
	3/28/2013	<1.0	<1.0	<1.0	<1.0	14.10	82.27
	6/5/2013	Dry - Not Sampled				Dry	NA
	9/5/2013	<1.0	<1.0	<1.0	<1.0	12.16	84.21
	12/3/2013	Surveyed - Not Sampled				10.53	85.94
	12/17/2013	<4.0	<4.0	<4.0	<4.0	10.60	85.77
	3/4/2014	8470	2130	346	1850	11.15	85.22
	6/5/2014	3650	141	200	933	10.82	85.65
	9/24/2014	3520	25.8	175	796	9.37	87.10
	12/10/2014	1220	<50.0	<50.0	<50.0	10.40	86.07

TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	3/12/2015	876	<50.0	<50.0	<50.0	10.90	85.57
	6/18/2015	3300	<20.0	96.2	281	9.60	86.87
	9/2/2015	8860	1230	72.2	380	8.91	87.56
	12/10/2015	303	<4.0	16.6	10.3	9.31	87.16
	3/2/2016	265	<4.0	5.2	8.6	9.80	86.67
	9/19/2016	187	<4.00	4.28	<4.00	8.98	87.49
	12/15/2016	<1.00	<1.00	<1.00	<1.00	10.07	86.40
	3/20/2017	488	1.14	42.6	16.8	11.62	84.85
	6/12/2017	13,500	680	227	1,770	10.79	85.68
	9/29/2017	65.9	<4.00	<4.00	<4.00	10.26	86.21
	12/18/2017	61.2	<1.00	<1.00	<1.00	10.79	85.68
	3/22/2018	620	<1.00	4.39	3.55	12.15	88.01
	6/21/2018	5,500	<100	<100	<100	11.76	88.40
	9/13/2018	<4.00	<4.00	<4.00	<4.00	10.82	89.34
	12/7/2018	<1.00	<1.00	<1.00	<1.00	12.04	88.12
	3/22/2019	<1.00	<1.00	<1.00	<1.00	13.32	86.84
	6/25/2019	<1.00	<1.00	<1.00	<1.00	11.17	88.99
	9/17/2019	<1.00	<1.00	<1.00	<1.00	9.62	90.54
MW19	9/16/2010	2100	2900	390	3900	10.85	87.06
	12/7/2010	5000	5600	270	2500	11.78	86.13
	3/15/2011	7300	15000	380	4400	13.33	84.58
	6/27/2011	Product - Not Sampled				13.46 (0.60)	84.45
	9/14/2011	8600	25000	860	14000	11.35	86.56
	12/16/2011	2900	13000	560	7000	11.72	86.19
	3/7/2012	4200	30000	1700	44000	12.75	85.16
	6/25/2012	3800	9000	430	12000	12.55	85.36
	9/24/2012	1300	4200	170	8000	12.90	85.01
	12/28/2012	Product - Not Sampled				14.85 (0.70)	83.06
	3/28/2013	Dry - Not Sampled				Dry	NA
	6/5/2013	Dry - Not Sampled				Dry	NA
	9/5/2013	22000	32000	960	14000	13.42 (0.03)	84.49
	12/3/2013	Surveyed - Not Sampled				11.93	85.98
	12/17/2013	Product - Not Sampled				12.61 (0.01)	85.42
	3/4/2014	25500	49300	930	12000	12.75	85.28



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	6/5/2014	20700	40700	875	11700	12.24	85.67
	9/24/2014	21300	38200	1010	10900	10.75	87.16
	12/10/2014	13300	23600	672	8720	11.71	86.20
	3/12/2015	19600	40300	780	9660	12.21	85.70
	6/18/2015	17200	35800	672	8780	10.99	86.92
	9/2/2015	20300	44400	896	10800	10.35	87.56
	12/10/2015	13500	35100	670	7740	10.62	87.29
	3/2/2016	16900	41500	807	10300	11.17	86.74
	9/19/2016	1,680	4,150	82.5	1,100	10.36	87.55
	12/15/2016	12,700	34,700	537	10,800	11.40	86.51
	3/20/2017	17,100	36,600	906	11,600	12.88	85.03
	6/12/2017	14,000	33,800	658	8,430	12.07	85.84
	9/29/2017	12,200	27,200	612	8,860	11.57	86.34
	12/18/2017	14,600	33,000	712	9,890	12.12	85.79
	3/22/2018	7,530	15,100	370	6,360	13.30	88.11
	6/21/2018	12,300	25,300	<500	10,400	13.01	88.40
	9/13/2018	9,210	15,900	<500	5,700	12.07	89.34
	12/7/2018	9,130	17,500	<200	7,290	13.17	88.24
	3/22/2019	Product - Not Sampled				14.32 (0.16)	87.09
	6/25/2019	Product - Not Sampled				12.47 (0.05)	88.94
	9/17/2019	1,130	6,620	<100	3,420	10.85	90.56
MW20	9/16/2010	16000	13000	200	4800	11.32	87.47
	12/7/2010	35000	32000	400	5200	11.25	87.54
	3/15/2011	46000	42000	250	4500	12.75	86.04
	6/27/2011	29000	32000	280	4300	12.88	85.91
	9/14/2011	21000	22000	320	5500	11.30	87.49
	12/16/2011	28000	27000	350	4600	11.29	87.50
	3/7/2012	21000	26000	580	16000	12.42	86.37
	6/25/2012	22000	22000	280	3800	12.48	86.31
	9/24/2012	24000	22000	220	3400	13.57	85.22
	12/28/2012	22000	19000	250	3400	14.22	84.57
	3/28/2013	Insufficient Water - Not Sampled				PVC Blocked	NA
	6/5/2013	Insufficient Water - Not Sampled				PVC Blocked	NA
	9/5/2013	2000	2700	13	210	PVC Blocked	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)	
COGCC Allowable Levels		5	560	700	1400			
12/3/2013		Surveyed - Not Sampled				11.55	86.62	
MW20 destroyed as of 12/17/2013								
MW20R	3/4/2014	25900	31700	445	5340	12.20	NA	
	6/5/2014	22000	26000	<500	5020	14.58	NA	
	9/24/2014	24500	32900	930	8340	10.07	NA	
	12/10/2014	17500	33000	406	6620	11.05	NA	
	3/12/2015	24600	31300	<500	7150	11.40	NA	
	6/18/2015	17700	20800	142	4160	10.40	NA	
	9/2/2015	18700	24000	344	4730	9.96	NA	
	12/10/2015	14800	21300	<500	4360	9.97	NA	
	3/2/2016	19300	26200	328	5560	10.52	NA	
	9/19/2016	9,730	13,500	249	3,670	9.93	NA	
	12/15/2016	19,600	22,000	271	7,350	10.83	NA	
	3/20/2017	30,600	22,200	536	7,700	12.14	NA	
	6/12/2017	24,000	17,500	334	4,610	11.51	NA	
	9/29/2017	21,500	17,100	434	6,780	11.04	NA	
	12/18/2017	22,200	12,400	412	6,300	11.59	NA	
	3/22/2018	11,800	2,430	<200	2,030	10.96	90.79	
	6/21/2018	21,000	5,020	<500	2,080	12.71	89.04	
	9/13/2018	25,200	4,440	<500	3,080	11.78	89.97	
	12/7/2018	22,900	604	<200	3,120	12.78	88.97	
	3/22/2019	Insufficient Water - Not Sampled					NM	NA
	6/25/2019	15,400	3,470	<500	1,800	11.99	89.76	
	9/17/2019	8,470	553	204	2,920	10.57	91.18	
MW21	9/16/2010	<1.0	<1.0	<1.0	<1.0	10.75	88.07	
	12/7/2010	<1.0	<1.0	<1.0	<1.0	11.52	87.30	
	3/15/2011	<1.0	<1.0	<1.0	<1.0	12.98	85.84	
	6/27/2011	<1.0	<1.0	<1.0	<1.0	13.00	85.82	
	9/14/2011	<1.0	2.8	<1.0	<1.0	11.41	87.41	
	12/16/2011	2.6	4.7	<1.0	<1.0	11.51	87.31	
	3/7/2012	1.3	4.0	<1.0	14	12.60	86.22	
	6/25/2012	Dry - Not Sampled					Dry	NA
	9/24/2012	<1.0	<1.0	<1.0	<1.0	12.90	85.92	



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	12/28/2012	Dry - Not Sampled				Dry	NA
	3/28/2013	Dry - Not Sampled				Dry	NA
	6/5/2013	Dry - Not Sampled				Dry	NA
	9/5/2013	Dry - Not Sampled				Dry	NA
	12/3/2013	Surveyed - Not Sampled				11.86	86.99
	12/17/2013	<4.0	<4.0	<4.0	<4.0	11.95	86.87
	3/4/2014	Insufficient Water - Not Sampled				12.57	86.25
	6/5/2014	<1.0	<1.0	<1.0	<1.0	12.08	86.77
	9/24/2014	<1.0	<1.0	<1.0	<1.0	10.45	88.40
	12/10/2014	<1.0	<1.0	<1.0	<1.0	11.30	87.55
	3/12/2015	<1.0	<1.0	<1.0	<1.0	11.58	87.27
	6/18/2015	<1.0	<1.0	<1.0	<1.0	10.46	88.39
	9/2/2015	<1.0	<1.0	<1.0	<1.0	10.23	88.62
	12/10/2015	<1.0	<1.0	<1.0	<1.0	10.26	88.59
	3/2/2016	<1.0	<1.0	<1.0	<1.0	10.84	88.01
	6/8/2016	<1.00	<1.00	<1.00	<1.00	---	---
	9/19/2016	<1.00	<1.00	<1.00	<1.00	10.32	88.53
	12/15/2016	<1.00	<1.00	<1.00	<1.00	11.17	87.68
	3/20/2017	<1.00	<1.00	<1.00	<1.00	12.38	86.47
	6/12/2017	<1.00	<1.00	<1.00	<1.00	11.82	87.03
	9/29/2017	<1.00	<1.00	<1.00	<1.00	11.34	87.51
	12/18/2017	<1.00	<1.00	<1.00	<1.00	11.90	86.95
	3/22/2018	Dry - Not Sampled				Dry	NA
	6/21/2018	Dry - Not Sampled				Dry	NA
	9/13/2018	Insufficient Water - Not Sampled				12.75	89.70
	12/7/2018	Dry - Not Sampled				Dry	NA
	3/22/2019	Dry - Not Sampled				Dry	NA
	6/25/2019	Insufficient Water - Not Sampled				12.33	90.12
	9/17/2019	<1.00	<1.00	<1.00	<1.00	10.86	91.59
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MW22	9/16/2010	110	<1.0	<1.0	<1.0	11.40	87.27
	12/7/2010	20	1.4	<1.0	<1.0	12.33	86.34
	3/15/2011	3.2	<1.0	<1.0	<1.0	13.88	84.79
	6/27/2011	2.6	19	1.1	11	13.95	84.72
	9/14/2011	150	2.9	<1.0	1.5	12.06	86.61



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	12/16/2011	130	2.3	<1.0	2.7	12.12	86.55
	3/7/2012	<1.0	2.0	<1.0	7.7	13.40	85.27
	6/25/2012	1.4	2.2	<1.0	<1.0	12.76	85.91
	9/24/2012	<1.0	<1.0	<1.0	<1.0	13.48	85.19
	12/28/2012	Dry - Not Sampled				Dry	NA
	3/28/2013	Dry - Not Sampled				Dry	NA
	6/5/2013	Dry - Not Sampled				Dry	NA
	9/5/2013	<1.0	1.4	<1.0	1.0	14.31	84.36
	12/3/2013	Surveyed - Not Sampled				12.82	86.03
	12/17/2013	<4.0	<4.0	<4.0	<4.0	12.73	85.94
	3/4/2014	5.6	<1.0	<1.0	<1.0	13.26	85.41
	6/5/2014	<1.0	<1.0	<1.0	<1.0	13.10	85.75
	9/24/2014	760	<1.0	<1.0	1.8	12.55	86.30
	12/10/2014	2.0	<1.0	<1.0	<1.0	12.44	86.41
	3/12/2015	20.1	<10.0	<10.0	<10.0	12.93	85.92
	6/18/2015	3340	470	84.2	419	11.78	87.07
	9/2/2015	2180	<1.0	2.3	4.8	11.14	87.71
	12/10/2015	104	<1.0	<1.0	<1.0	11.39	87.46
	3/2/2016	4.0	<1.0	<1.0	<1.0	11.95	86.90
	9/19/2016	1.24	<1.00	<1.00	<1.00	11.21	87.64
	12/15/2016	<1.00	<1.00	<1.00	<1.00	12.15	86.70
	3/20/2017	<1.00	<1.00	<1.00	<1.00	13.59	85.26
	6/12/2017	65.6	<1.00	<1.00	<1.00	12.95	85.90
	9/29/2017	17.0	<1.00	<1.00	3.32	12.43	86.42
	12/18/2017	3.12	<1.00	<1.00	<1.00	13.87	84.98
	3/22/2018	3.52	<1.00	<1.00	<1.00	13.88	88.29
	6/21/2018	10.5	<1.00	<1.00	<1.00	13.70	88.47
	9/13/2018	<1.00	<1.00	<1.00	1.85	12.72	89.45
	12/7/2018	<1.00	<1.00	<1.00	<1.00	13.79	88.38
	3/22/2019	Dry - Not Sampled				Dry	NA
	6/25/2019	7,530	29.3	1.50	1,040	13.12	89.05
	9/17/2019	<1.00	<1.00	<1.00	<1.00	11.56	90.61
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MW23	10/15/2010	<1.0	<1.0	<1.0	<1.0	8.80	86.61
	12/7/2010	<1.0	<1.0	<1.0	<1.0	9.62	85.79



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	3/15/2011	<1.0	<1.0	<1.0	<1.0	11.15	84.26
	6/27/2011	<1.0	<1.0	<1.0	<1.0	11.10	84.31
	9/14/2011	<1.0	1.9	<1.0	<1.0	9.00	86.41
	12/16/2011	<1.0	<1.0	<1.0	<1.0	9.60	85.81
	3/7/2012	<1.0	<1.0	<1.0	<1.0	10.75	84.66
	6/25/2012	9.7	<1.0	<1.0	<1.0	10.85	84.56
	9/24/2012	<1.0	<1.0	<1.0	<1.0	10.70	84.71
	12/28/2012	4.5	28	1.0	12	12.45	82.96
	3/28/2013	<1.0	<1.0	<1.0	<1.0	13.55	81.86
	6/5/2013	<1.0	<1.0	<1.0	<1.0	13.04	82.37
	9/5/2013	<1.0	<1.0	<1.0	<1.0	11.36	84.05
	12/3/2013	Surveyed - Not Sampled				9.82	85.72
	12/17/2013	<4.0	<4.0	<4.0	<4.0	9.81	85.60
	3/4/2014	<1.0	2.4	<1.0	<1.0	10.42	84.99
	6/5/2014	<1.0	<1.0	<1.0	<1.0	10.13	85.41
	9/24/2014	<1.0	<1.0	<1.0	<1.0	8.72	86.82
	12/10/2014	<1.0	<1.0	<1.0	<1.0	9.79	85.75
	3/12/2015	1.7	<1.0	<1.0	<1.0	10.34	85.20
	6/18/2015	<1.0	<1.0	<1.0	<1.0	9.15	86.39
	9/2/2015	22.4	<1.0	<1.0	<1.0	8.09	87.45
	12/10/2015	<1.0	<1.0	<1.0	<1.0	8.74	86.80
	3/2/2016	<1.0	<1.0	<1.0	<1.0	9.15	86.39
	9/19/2016	<1.00	<1.00	<1.00	<1.00	8.17	87.37
	12/15/2016	<1.00	<1.00	<1.00	<1.00	9.51	86.03
	3/20/2017	2.92	<1.00	<1.00	<1.00	11.04	84.50
	6/12/2017	198	<1.00	<1.00	<1.00	9.95	85.59
	9/29/2017	<4.00	<4.00	<4.00	<4.00	9.63	85.91
	12/18/2017	<1.00	<1.00	<1.00	<1.00	10.13	85.41
	3/22/2018	<1.00	<1.00	<1.00	<1.00	11.46	87.63
	6/21/2018	6.76	<1.00	<1.00	<1.00	10.99	88.10
	9/13/2018	<1.00	<1.00	<1.00	<1.00	9.91	89.18
	12/7/2018	<1.00	<1.00	<1.00	<1.00	11.30	87.79
	3/22/2019	<1.00	<1.00	<1.00	<1.00	12.56	86.53
	6/25/2019	<1.00	<1.00	<1.00	<1.00	10.29	88.80
	9/17/2019	<1.00	<1.00	<1.00	<1.00	8.77	90.32



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
MW24	10/15/2010	2000	<1.0	<1.0	5.6	11.28	86.74
	12/7/2010	3200	<1.0	<1.0	2.8	12.11	85.91
	3/15/2011	Insufficient Water - Not Sampled				13.61	84.41
	6/27/2011	48	230	19	240	13.68	84.34
	9/14/2011	5500	1.7	<1.0	1.5	11.57	86.45
	12/16/2011	1600	<1.0	<1.0	<1.0	12.09	85.93
	3/7/2012	<1.0	<1.0	<1.0	<1.0	13.17	84.85
	6/25/2012	<1.0	<1.0	<1.0	<1.0	13.09	84.93
	9/24/2012	<1.0	<1.0	<1.0	<1.0	13.27	84.75
	12/28/2012	Dry - Not Sampled				Dry	NA
	3/28/2013	Dry - Not Sampled				Dry	NA
	6/5/2013	Dry - Not Sampled				Dry	NA
	9/5/2013	230	37	<1.0	5.3	13.98	84.04
	12/3/2013	Surveyed - Not Sampled				12.54	85.67
	12/17/2013	<4.0	<4.0	<4.0	<4.0	12.47	85.55
	3/4/2014	<1.0	1.6	<1.0	<1.0	13.00	85.02
	6/5/2014	1370	862	<100	132	12.88	85.33
	9/24/2014	3.0	<1.0	2.8	2.5	11.34	86.87
	12/10/2014	3920	5.4	13.7	26.2	12.32	85.89
	3/12/2015	1.8	2.0	6.9	18.4	12.89	85.32
	6/18/2015	10200	7470	334	2940	11.60	86.61
	9/2/2015	10800	156	410	350	10.81	87.40
	12/10/2015	2130	760	154	<100	11.23	86.98
	3/2/2016	5880	373	286	420	11.78	86.43
	9/19/2016	14,400	13,600	690	5,730	10.85	87.36
	12/15/2016	4,690	437	267	1,890	11.95	86.26
	3/20/2017	71.8	<20.0	122	163	13.51	84.70
	6/12/2017	2,730	654	88.2	737	12.66	85.55
	9/29/2017	11,000	5,520	525	3,980	12.15	86.06
	12/18/2017	3,610	1,580	229	1,390	12.68	85.53
	3/22/2018	1,660	122	153	1,280	14.03	87.84
	6/21/2018	1,990	350	108	746	13.73	88.14
	9/13/2018	18,800	13,300	24.0	8,370	12.69	89.18
	12/7/2018	6,020	4,610	117	3,510	13.92	87.95



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	3/22/2019	Dry - Not Sampled				Dry	NA
	6/25/2019	<1.00	<1.00	<1.00	<1.00	13.19	88.68
	9/17/2019	<1.00	<1.00	<1.00	<1.00	11.48	90.39
MW25	10/15/2010	<1.0	<1.0	<1.0	<1.0	11.69	86.90
	12/7/2010	<1.0	<1.0	<1.0	<1.0	12.52	86.07
	3/15/2011	<1.0	<1.0	<1.0	<1.0	13.98	84.61
	6/27/2011	<1.0	<1.0	<1.0	<1.0	14.14	84.45
	9/14/2011	<1.0	<1.0	<1.0	<1.0	12.19	86.40
	12/16/2011	<1.0	<1.0	<1.0	<1.0	10.57	88.02
	3/7/2012	<1.0	<1.0	<1.0	<1.0	13.58	85.01
	6/25/2012	<1.0	<1.0	<1.0	<1.0	13.48	85.11
	9/24/2012	<1.0	<1.0	<1.0	<1.0	13.48	85.11
	12/28/2012	Dry - Not Sampled				Dry	NA
	3/28/2013	Dry - Not Sampled				Dry	NA
	6/5/2013	Dry - Not Sampled				Dry	NA
	12/3/2013	Surveyed - Not Sampled				12.99	85.76
	12/17/2013	<4.0	<4.0	<4.0	<4.0	12.91	85.68
	3/4/2014	<1.0	<1.0	<1.0	<1.0	13.44	85.15
	6/5/2014	<1.0	<1.0	<1.0	<1.0	13.32	85.43
	9/24/2014	<1.0	<1.0	<1.0	<1.0	11.75	87.00
	12/10/2014	<1.0	<1.0	<1.0	<1.0	12.65	86.10
	3/12/2015	<1.0	<1.0	<1.0	<1.0	13.20	85.55
	6/18/2015	<1.0	<1.0	<1.0	<1.0	12.16	86.59
	9/2/2015	<1.0	<1.0	<1.0	<1.0	11.30	87.45
	12/10/2015	<1.0	<1.0	<1.0	<1.0	11.60	87.15
	3/2/2016	<4.0	<4.0	<4.0	<4.0	12.17	86.58
	9/19/2016	<1.00	<1.00	<1.00	<1.00	11.33	87.42
	12/15/2016	<1.00	<1.00	<1.00	<1.00	12.28	86.47
	3/20/2017	<4.00	<4.00	<4.00	<4.00	13.84	84.91
	6/12/2017	<1.00	<1.00	<1.00	<1.00	13.13	85.62
	9/29/2017	<1.00	<1.00	<1.00	<1.00	12.57	86.18
	12/18/2017	<1.00	<1.00	<1.00	<1.00	13.04	85.71
	3/22/2018	<1.00	<1.00	<1.00	<1.00	14.34	88.00
	6/21/2018	<1.00	1.16	<1.00	<1.00	14.09	88.25

TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	9/13/2018	Insufficient Water - Not Sampled				13.08	89.26
	12/7/2018	<1.00	<1.00	<1.00	<1.00	14.19	88.15
	3/22/2019	Dry - Not Sampled				NM	NA
	6/25/2019	<1.00	<1.00	<1.00	5.86	13.66	88.68
	9/17/2019	<1.00	<1.00	<1.00	<1.00	11.96	90.38
<hr/>							
MW26	10/15/2010	<1.0	<1.0	<1.0	<1.0	12.27	87.14
	12/7/2010	<1.0	<1.0	<1.0	<1.0	12.89	86.52
	3/15/2011	Insufficient Water - Not Sampled				14.21	85.20
	6/27/2011	Insufficient Water - Not Sampled				14.35	85.06
	9/14/2011	<1.0	<1.0	<1.0	<1.0	12.88	86.53
	12/16/2011	<1.0	<1.0	<1.0	<1.0	10.92	88.49
	3/7/2012	Insufficient Water - Not Sampled				14.02	85.39
	6/25/2012	Dry - Not Sampled				Dry	NA
	9/24/2012	<1.0	<1.0	<1.0	<1.0	14.07	85.34
	12/28/2012	Dry - Not Sampled				Dry	NA
	3/28/2013	Dry - Not Sampled				Dry	NA
	6/5/2013	Dry - Not Sampled				Dry	NA
	9/5/2013	Dry - Not Sampled				Dry	NA
	12/3/2013	Surveyed - Not Sampled				13.57	85.97
	12/17/2013	<4.0	<4.0	<4.0	<4.0	13.47	85.94
	3/4/2014	<1.0	<1.0	<1.0	<1.0	13.98	85.43
	6/5/2014	<1.0	<1.0	<1.0	<1.0	13.94	85.60
	9/24/2014	<1.0	<1.0	<1.0	<1.0	12.17	87.37
	12/10/2014	<1.0	1.0	<1.0	<1.0	13.03	86.51
	3/12/2015	<1.0	<1.0	<1.0	<1.0	13.52	86.02
	6/18/2015	<1.0	<1.0	<1.0	<1.0	12.52	87.02
	9/2/2015	<1.0	<1.0	<1.0	<1.0	11.85	87.69
	12/10/2015	<1.0	<1.0	<1.0	<1.0	11.99	87.55
	3/2/2016	<1.0	<1.0	<1.0	<1.0	12.63	86.91
	9/19/2016	<1.00	<1.00	<1.00	<1.00	11.86	87.68
	12/15/2016	<1.00	<1.00	<1.00	<1.00	12.77	86.77
	3/20/2017	<4.00	<4.00	<4.00	<4.00	14.12	85.42
	6/12/2017	<1.00	<1.00	<1.00	<1.00	13.69	85.85
	9/29/2017	<1.00	<1.00	<1.00	<1.00	13.03	86.51

TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	12/18/2017	<1.00	<1.00	<1.00	<1.00	13.47	86.07
	3/22/2018	Dry - Not Sampled				Dry	NA
	6/21/2018	Dry - Not Sampled				Dry	NA
	9/13/2018	Insufficient Water - Not Sampled				13.65	89.47
	12/7/2018	Dry - Not Sampled				Dry	NA
	3/22/2019	Dry - Not Sampled				Dry	NA
	6/25/2019	Insufficient Water - Not Sampled				NM	NA
	9/17/2019	<1.00	<1.00	<1.00	<1.00	12.52	90.60
<hr/>							
MW27	12/7/2010	<1.0	1.6	<1.0	<1.0	12.88	85.70
	3/15/2011	Insufficient Water - Not Sampled				13.83	84.16
	6/27/2011	Insufficient Water - Not Sampled				13.86	84.13
	9/14/2011	<1.0	<1.0	<1.0	<1.0	11.87	86.12
	12/16/2011	<1.0	<1.0	<1.0	<1.0	11.09	86.90
	3/7/2012	<1.0	<1.0	<1.0	<1.0	13.41	84.58
	6/25/2012	Dry - Not Sampled				Dry	NA
	9/24/2012	<1.0	<1.0	<1.0	<1.0	14.01	83.98
	12/28/2012	Dry - Not Sampled				Dry	NA
	3/28/2013	Dry - Not Sampled				Dry	NA
	6/5/2013	Dry - Not Sampled				Dry	NA
	9/5/2013	Dry - Not Sampled				Dry	NA
	12/3/2013	Surveyed - Not Sampled				12.78	85.33
	12/17/2013	<4.0	<4.0	<4.0	<4.0	12.73	85.26
	3/4/2014	<1.0	<1.0	<1.0	<1.0	13.30	84.69
	6/5/2014	<1.0	<1.0	<1.0	<1.0	13.12	84.99
	9/24/2014	<1.0	<1.0	<1.0	<1.0	11.58	86.53
	12/10/2014	<1.0	<1.0	<1.0	<1.0	12.54	85.57
	3/12/2015	<1.0	<1.0	<1.0	<1.0	13.18	84.93
	6/18/2015	<1.0	<1.0	<1.0	<1.0	11.96	86.15
	9/2/2015	<1.0	<1.0	<1.0	<1.0	10.93	87.18
	12/10/2015	<1.0	<1.0	<1.0	<1.0	11.72	86.39
	3/2/2016	<1.0	<1.0	<1.0	<1.0	12.04	86.07
	9/19/2016	<1.00	<1.00	<1.00	<1.00	11.02	87.09
	12/15/2016	<1.00	<1.00	<1.00	<1.00	12.24	85.87
	3/20/2017	<4.00	<4.00	<4.00	<4.00	13.71	84.40

TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	6/12/2017	<1.00	<1.00	<1.00	<1.00	12.84	85.27
	9/29/2017	<1.00	<1.00	<1.00	<1.00	12.31	85.80
	12/18/2017	<1.00	<1.00	<1.00	<1.00	12.86	85.25
	3/22/2018	Dry - Not Sampled				Dry	NA
	6/21/2018	Dry - Not Sampled				Dry	NA
	9/13/2018	Dry - Not Sampled				Dry	NA
	12/7/2018	Dry - Not Sampled				Dry	NA
	3/22/2019	Dry - Not Sampled				Dry	NA
	6/25/2019	Dry - Not Sampled				Dry	NA
	9/17/2019	<1.00	<1.00	<1.00	<1.00	11.45	90.09
<hr/>							
MW28	12/7/2010	<1.0	<1.0	<1.0	<1.0	11.75	85.69
	3/15/2011	<1.0	<1.0	<1.0	<1.0	12.10	84.20
	6/27/2011	<1.0	<1.0	<1.0	<1.0	12.14	84.16
	9/14/2011	<1.0	<1.0	<1.0	<1.0	9.98	86.32
	12/16/2011	1.2	<1.0	<1.0	<1.0	10.66	85.64
	3/7/2012	Insufficient Water - Not Sampled				11.76	84.54
	6/25/2012	1.1	<1.0	<1.0	<1.0	11.72	84.58
	9/24/2012	<1.0	<1.0	<1.0	<1.0	11.70	84.24
	12/28/2012	Dry - Not Sampled				Dry	NA
	3/28/2013	Dry - Not Sampled				Dry	NA
	6/5/2013	Dry - Not Sampled				Dry	NA
	9/5/2013	Dry - Not Sampled				Dry	NA
	12/3/2013	Surveyed - Not Sampled				10.91	85.52
	12/17/2013	<4.0	<4.0	<4.0	<4.0	10.58	85.36
	3/4/2014	<1.0	<1.0	<1.0	<1.0	11.11	84.83
	6/5/2014	<1.0	<1.0	<1.0	<1.0	11.29	85.14
	9/24/2014	<1.0	<1.0	<1.0	<1.0	9.78	86.65
	12/10/2014	<1.0	<1.0	<1.0	<1.0	10.83	85.60
	3/12/2015	<1.0	<1.0	<1.0	<1.0	11.41	85.02
	6/18/2015	<1.0	<1.0	<1.0	<1.0	10.10	86.33
	9/2/2015	<1.0	<1.0	<1.0	<1.0	8.17	88.26
	12/10/2015	<1.0	<1.0	<1.0	<1.0	9.77	86.66
	3/2/2016	<1.0	<1.0	<1.0	<1.0	10.26	86.17
	9/19/2016	<1.00	<1.00	<1.00	<1.00	9.21	87.22

TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	12/15/2016	<1.00	<1.00	<1.00	<1.00	10.52	85.91
	3/20/2017	<1.00	<1.00	<1.00	<1.00	12.00	84.43
	6/12/2017	<1.00	<1.00	<1.00	<1.00	11.10	85.33
	9/29/2017	<1.00	<1.00	<1.00	<1.00	11.34	85.09
	12/18/2017	<1.00	<1.00	<1.00	<1.00	11.19	85.24
	3/22/2018	Dry - Not Sampled				Dry	NA
	6/21/2018	Insufficient Water - Not Sampled				12.08	87.99
	9/13/2018	<4.00	<4.00	<4.00	<4.00	11.09	88.98
	12/7/2018	<4.00	<4.00	<4.00	<4.00	12.32	87.75
	3/22/2019	Dry - Not Sampled				Dry	NA
	6/25/2019	<1.00	<1.00	<1.00	<1.00	11.53	88.54
	9/17/2019	<1.00	<1.00	<1.00	<1.00	9.88	90.19
MW29	12/18/2017	2,980	31,600	1,160	13,600	12.06	NA
	3/22/2018	Dry - Not Sampled				Dry	NA
	6/21/2018	Dry - Not Sampled				Dry	NA
	9/13/2018	Dry - Not Sampled				Dry	NA
	12/7/2018	Dry - Not Sampled				Dry	NA
	3/22/2019	Dry - Not Sampled				Dry	NA
	6/25/2019	Dry - Not Sampled				Dry	NA
	9/17/2019	Dry - Not Sampled				NM	NA
MW30	12/18/2017	Insufficient Water - Not Sampled				NM	NA
	3/22/2018	Dry - Not Sampled				Dry	NA
	6/21/2018	Dry - Not Sampled				Dry	NA
	9/13/2018	<1.00	<1.00	<1.00	<1.00	9.92	88.98
	12/7/2018	Dry - Not Sampled				Dry	NA
	3/22/2019	Dry - Not Sampled				Dry	NA
	6/25/2019	<1.00	<1.00	<1.00	<1.00	10.31	88.59
	9/17/2019	<50.0	<50.0	<50.0	<50.0	8.73	90.17
MW31	3/22/2018	Not Sampled				13.41	88.84
	6/21/2018	<1.00	<1.00	3.54	<1.00	13.14	89.11
	9/13/2018	Not Found - Not Sampled				NM	NA
	12/7/2018	Not Found - Not Sampled				NM	NA

TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
HSR-DREYER 5-5
ADAMS 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 to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	3/22/2019	<1.00	<1.00	<1.00	<1.00	NM	NA
	6/25/2019	<1.00	<1.00	<1.00	<1.00	12.62	89.63
	9/17/2019	<1.00	<1.00	<1.00	<1.00	11.05	91.20

Notes: COGCC - Colorado Oil and Gas Conservation Commission µg/L - micrograms per liter
ft bgs - feet below ground surface < - less than laboratory reporting limit
NA - not analyzed/not available Excavation groundwater depth is approximate
NM - not measured
BOLD = Analytical result is in exceedance of COGCC Table 910-1 groundwater standards.
 = Active remediation implementation period





December 13, 2018

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - HSR-Dreyer 5-5

Project Number - KMG09552/WO #88045

Attached are your analytical results for KMG - HSR-Dreyer 5-5 received by Origins Laboratory, Inc. December 07, 2018. This project is associated with Origins project number Y812116-01.

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: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y812116-01	Water	December 7, 2018 10:00	12/07/2018 14:45
MW02	Y812116-02	Water	December 7, 2018 10:05	12/07/2018 14:45
MW03	Y812116-03	Water	December 7, 2018 10:10	12/07/2018 14:45
MW06	Y812116-04	Water	December 7, 2018 10:25	12/07/2018 14:45
MW07R	Y812116-05	Water	December 7, 2018 10:30	12/07/2018 14:45
MW08	Y812116-06	Water	December 7, 2018 10:35	12/07/2018 14:45
MW09	Y812116-07	Water	December 7, 2018 10:40	12/07/2018 14:45
MW10	Y812116-08	Water	December 7, 2018 10:45	12/07/2018 14:45
MW11	Y812116-09	Water	December 7, 2018 10:50	12/07/2018 14:45
MW12	Y812116-10	Water	December 7, 2018 10:50	12/07/2018 14:45
MW13	Y812116-11	Water	December 7, 2018 10:55	12/07/2018 14:45
MW14	Y812116-12	Water	December 7, 2018 11:00	12/07/2018 14:45
MW15	Y812116-13	Water	December 7, 2018 11:05	12/07/2018 14:45
MW16R	Y812116-14	Water	December 7, 2018 11:10	12/07/2018 14:45

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: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW17	Y812116-15	Water	December 7, 2018 11:15	12/07/2018 14:45
MW18	Y812116-16	Water	December 7, 2018 11:20	12/07/2018 14:45
MW19	Y812116-17	Water	December 7, 2018 11:25	12/07/2018 14:45
MW20R	Y812116-18	Water	December 7, 2018 11:30	12/07/2018 14:45
MW22	Y812116-19	Water	December 7, 2018 11:40	12/07/2018 14:45
MW23	Y812116-20	Water	December 7, 2018 11:45	12/07/2018 14:45
MW24	Y812116-21	Water	December 7, 2018 11:50	12/07/2018 14:45
MW25	Y812116-22	Water	December 7, 2018 11:55	12/07/2018 14:45
MW28	Y812116-23	Water	December 7, 2018 12:00	12/07/2018 14:45

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: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

ORIGINS
LABORATORY, INC

Y812116

1/3

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

Client: LT Environmental, Inc.	Project Manager: Brian Sulzberger
Project: KMG - HSR-Dreyer 5-5	Project Number: KMG09552/WO #88045598

Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MW01	Water	12-7-18	1000	DT/RT	12_40mL Amber VOA Via - HCL	3	BTEX by EPA 8260C
02-001	MW02	Water		1005		12_40mL Amber VOA Via - HCL	3/1	BTEX by EPA 8260C
03-001	MW03	Water		1016		12_40mL Amber VOA Via - HCL	3	BTEX by EPA 8260C
04-001	MW04	Water				12_40mL Amber VOA Via - HCL	30	BTEX by EPA 8260C
05-001	MW05	Water				12_40mL Amber VOA Via - HCL	30	BTEX by EPA 8260C
06-001	MW06	Water	12-7-18	1035	DT/RT	12_40mL Amber VOA Via - HCL	3	BTEX by EPA 8260C
07-001	MW07R	Water		1030		12_40mL Amber VOA Via - HCL	3	BTEX by EPA 8260C
08-001	MW08	Water		1035		12_40mL Amber VOA Via - HCL	3	BTEX by EPA 8260C
09-001	MW09	Water		1040		12_40mL Amber VOA Via - HCL	3	BTEX by EPA 8260C
10-001	MW10	Water		1045		12_40mL Amber VOA Via - HCL	3	BTEX by EPA 8260C
11-001	MW11	Water		1050		12_40mL Amber VOA Via - HCL	3	BTEX by EPA 8260C

Temperature on Receipt: 11.2
Turn Around Time:
Same Day: ☐ 72-hr: ☒
24-hr: ☐ 48-hr: ☐

Relinquished By: [Signature] Date / Time: 12/7/18 1445
Received By: [Signature] Date / Time: 12/7/18 1445

Relinquished By: [Signature] Date / Time: 12-7-18/ 1445
Received By: [Signature] Date / Time: 12-7-18/ 1445

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

ORIGINS
LABORATORY, INC

Y912116

213

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

12-001	MM12	Water	12-7-16	165.6	DT 1.67	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
13-001	MM13	Water		165.5		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
14-001	MM14	Water		110		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
15-001	MM15	Water		116.5		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
16-001	MM16R	Water		111.0		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
17-001	MM17	Water		111.5		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
18-001	MM18	Water		111.6		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
19-001	MM19	Water		111.5		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
20-001	MM20R	Water		113.0		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
21-001	MM21	Water		113.5		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
22-001	MM22	Water		114.0		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
23-001	MM23	Water		114.5		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
24-001	MM24	Water		115.0		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
25-001	MM25	Water		115.5		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C

Relinquished By: [Signature] Date / Time: 12-7-16 1445

Received By: [Signature] Date / Time: 12-7-18 1445

Temperature on Receipt: 11.2

Turn Around Time: ☐ Same Day ☐ 24-hr ☐ 48-hr ☐ 72-hr ☐ Standard

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

ORIGINS
LABORATORY, INC

Y812116

313

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

26-001	MW26	Water	12-7-18	1200	DT/RT	12_40mL Amber VOA Vial - HCL	80	BTEX by EPA 8260C
27-001	MW27	Water		1205		12_40mL Amber VOA Vial - HCL	80	BTEX by EPA 8260C
28-001	MW28	Water		1210		12_40mL Amber VOA Vial - HCL	81	BTEX by EPA 8260C
29-001	MW29	Water		1215		12_40mL Amber VOA Vial - HCL	80	BTEX by EPA 8260C
30-001	MW30	Water		1220		12_40mL Amber VOA Vial - HCL	80	BTEX by EPA 8260C
31-001	MW31	Water				12_40mL Amber VOA Vial - HCL	80	BTEX by EPA 8260C

Relinquished By: [Signature] Date / Time: 12-7-18 / 1445
Received By: [Signature] Date / Time: 12-7-18 / 1445

Temperature on Receipt: 11.2
Turn Around Time:
Same Day: ☐ 72-hr: ☐ Standard
24-hr: ☐ 48-hr: ☐

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y812116

Client: LTE

Client Project ID: KMG - HSR Dreyer 5-5

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 12/10/2018

Airbill #: N/A

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

(Describe)

Cooler Number/Temperature: 1 / 11.2 °C 1 / 1 °C 1 / 1 °C 1 / 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 ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 12/11/18

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW01

12/7/2018 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812116-01 (Water)

BTEX by EPA 8260C

Benzene	1250	200	ug/L	200	B8L1106	KDK	12/11/2018	12/12/2018
Toluene	32300	200	"	"	"	KDK	"	"
Ethylbenzene	724	200	"	"	"	KDK	"	"
Xylenes, total	9860	200	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	97.1 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.5 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW02

12/7/2018 10:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812116-02 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B8L1106	KDK	12/11/2018	12/12/2018	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.4 %	84-121	"	"	"
Surrogate: Toluene-d8	100 %	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: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW03

12/7/2018 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812116-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L1106	KDK	12/11/2018	12/12/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.4 %	84-121	"	"	"
Surrogate: Toluene-d8	98.9 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW06

12/7/2018 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812116-04 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B8L1106	KDK	12/11/2018	12/13/2018	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	220	50.0	"	50	"	KDK	"	12/12/2018	
Xylenes, total	1960	50.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.4 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	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: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW07R

12/7/2018 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812116-05 (Water)

BTEX by EPA 8260C

Benzene	70.0	4.00	ug/L	4	B8L1106	KDK	12/11/2018	12/13/2018	
Toluene	6.40	4.00	"	"	"	KDK	"	"	
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	588	20.0	"	20	"	KDK	"	12/12/2018	

Surrogate: 1,2-Dichloroethane-d4	97.9 %	84-121			"	"	"
Surrogate: Toluene-d8	101 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	99.9 %	84-114			"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW08

12/7/2018 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812116-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L1106	KDK	12/11/2018	12/12/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.8 %	84-121	"	"	"
Surrogate: Toluene-d8	100 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.4 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW09

12/7/2018 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812116-07 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B8L1106	KDK	12/11/2018	12/13/2018	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	286	50.0	"	50	"	KDK	"	12/12/2018	
Xylenes, total	8530	50.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.5 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	96.5 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW10

12/7/2018 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y812116-08 (Water)

BTEX by EPA 8260C

Benzene	23.8	5.00	ug/L	5	B8L1106	KDK	12/11/2018	12/12/2018
Toluene	6080	100	"	100	"	KDK	"	12/13/2018
Ethylbenzene	364	5.00	"	5	"	KDK	"	12/12/2018
Xylenes, total	3860	100	"	100	"	KDK	"	12/13/2018

Surrogate: 1,2-Dichloroethane-d4	97.9 %	84-121	"	"	12/12/2018
Surrogate: Toluene-d8	105 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	96.1 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW11

12/7/2018 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812116-09 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L1106	KDK	12/11/2018	12/12/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.2 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.6 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW12

12/7/2018 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812116-10 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L1106	KDK	12/11/2018	12/12/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.0 %	84-121	"	"	"
Surrogate: Toluene-d8	99.9 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.5 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW13

12/7/2018 10:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812116-11 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L1106	KDK	12/11/2018	12/12/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.9 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.5 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW14

12/7/2018 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812116-12 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L1106	KDK	12/11/2018	12/12/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.1 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.9 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW15

12/7/2018 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812116-13 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L1106	KDK	12/11/2018	12/12/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.8 %	84-121	"	"	"
Surrogate: Toluene-d8	99.9 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.1 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW16R

12/7/2018 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812116-14 (Water)

BTEX by EPA 8260C

Benzene	13300	100	ug/L	100	B8L1106	KDK	12/11/2018	12/12/2018
Toluene	1520	100	"	"	"	KDK	"	"
Ethylbenzene	231	100	"	"	"	KDK	"	"
Xylenes, total	4640	100	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	98.9 %	84-121	"	"	"
Surrogate: Toluene-d8	100 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.5 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW17

12/7/2018 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812116-15 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L1106	KDK	12/11/2018	12/12/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.7 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	84-114	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW18

12/7/2018 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812116-16 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L1106	KDK	12/11/2018	12/12/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.5 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.2 %	84-114	"	"	"

Origins Laboratory, Inc.



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Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW19

12/7/2018 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812116-17 (Water)

BTEX by EPA 8260C

Benzene	9130	200	ug/L	200	B8L1106	KDK	12/11/2018	12/12/2018	
Toluene	17500	200	"	"	"	KDK	"	"	
Ethylbenzene	ND	200	"	"	"	KDK	"	"	U
Xylenes, total	7290	200	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.7 %	84-121	"	"	"	"	"	"	
Surrogate: Toluene-d8	102 %	85-115	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.8 %	84-114	"	"	"	"	"	"	

Origins Laboratory, Inc.



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Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW20R

12/7/2018 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812116-18 (Water)

BTEX by EPA 8260C

Benzene	22900	200	ug/L	200	B8L1106	KDK	12/11/2018	12/12/2018	
Toluene	604	200	"	"	"	KDK	"	"	
Ethylbenzene	ND	200	"	"	"	KDK	"	"	U
Xylenes, total	3120	200	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.4 %	84-114			"	"	"	"	

Origins Laboratory, Inc.



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Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW22

12/7/2018 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812116-19 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L1106	KDK	12/11/2018	12/12/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.7 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.4 %	84-114	"	"	"

Origins Laboratory, Inc.



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Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW23

12/7/2018 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812116-20 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L1106	KDK	12/11/2018	12/12/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.6 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	98.8 %	84-114	"	"	"

Origins Laboratory, Inc.



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Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW24

12/7/2018 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812116-21 (Water)

BTEX by EPA 8260C

Benzene	6020	100	ug/L	100	B8L1106	KDK	12/11/2018	12/12/2018
Toluene	4610	100	"	"	"	KDK	"	"
Ethylbenzene	117	100	"	"	"	KDK	"	"
Xylenes, total	3510	100	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	97.3 %	84-121	"	"	"
Surrogate: Toluene-d8	99.8 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.2 %	84-114	"	"	"

Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW25

12/7/2018 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812116-22 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8L1106	KDK	12/11/2018	12/12/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.2 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.6 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW28

12/7/2018 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y812116-23 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B8L1106	KDK	12/11/2018	12/12/2018	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.2 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.2 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

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 B8L1106 - EPA 5030B (Water)										
Blank (B8L1106-BLK1)					Prepared: 12/11/2018 Analyzed: 12/12/2018					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.0	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.5	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	84-114			

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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

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 B8L1106 - EPA 5030B (Water)										
Blank (B8L1106-BLK2)					Prepared: 12/11/2018 Analyzed: 12/12/2018					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.7	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.5	84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

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 B8L1106 - EPA 5030B (Water)

LCS (B8L1106-BS1)

Prepared: 12/11/2018 Analyzed: 12/12/2018

Benzene	54.7	1.00	ug/L	50.0	109	73.3-129
Toluene	56.5	1.00	"	50.0	113	76.2-123
Ethylbenzene	55.4	1.00	"	50.0	111	73.6-130
m,p-Xylene	111	2.00	"	100	111	76.1-126
o-Xylene	57.5	1.00	"	50.0	115	76.6-124
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5	96.4	84-121
Surrogate: Toluene-d8	63		"	62.5	100	85-115
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.7	84-114

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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

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 B8L1106 - EPA 5030B (Water)

LCS (B8L1106-BS2)

Prepared: 12/11/2018 Analyzed: 12/12/2018

Benzene	47.7	1.00	ug/L	50.0		95.3	73.3-129			
Toluene	47.4	1.00	"	50.0		94.7	76.2-123			
Ethylbenzene	47.2	1.00	"	50.0		94.4	73.6-130			
m,p-Xylene	94.2	2.00	"	100		94.2	76.1-126			
o-Xylene	48.0	1.00	"	50.0		96.0	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.5	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.1	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.9	84-114			

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

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 B8L1106 - EPA 5030B (Water)

Matrix Spike (B8L1106-MS1)		Source: Y812116-03			Prepared: 12/11/2018 Analyzed: 12/12/2018					
Benzene	46.8	1.00	ug/L	50.0	ND	93.6	74-130			
Toluene	47.6	1.00	"	50.0	ND	95.3	73-131			
Ethylbenzene	46.7	1.00	"	50.0	ND	93.5	76-132			
m,p-Xylene	94.1	2.00	"	100	ND	94.1	69-139			
o-Xylene	48.8	1.00	"	50.0	ND	97.5	74-131			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		95.0	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	84-114			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

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 B8L1106 - EPA 5030B (Water)

Matrix Spike (B8L1106-MS2)		Source: Y812116-09			Prepared: 12/11/2018 Analyzed: 12/12/2018					
Benzene	51.3	1.00	ug/L	50.0	ND	103	74-130			
Toluene	52.0	1.00	"	50.0	0.650	103	73-131			
Ethylbenzene	52.1	1.00	"	50.0	ND	104	76-132			
m,p-Xylene	105	2.00	"	100	0.840	104	69-139			
o-Xylene	52.5	1.00	"	50.0	ND	105	74-131			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.7	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.7	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	84-114			

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Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

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 B8L1106 - EPA 5030B (Water)

Matrix Spike Dup (B8L1106-MSD1)		Source: Y812116-03			Prepared: 12/11/2018 Analyzed: 12/12/2018					
Benzene	52.8	1.00	ug/L	50.0	ND	106	74-130	12.0	20	
Toluene	55.0	1.00	"	50.0	ND	110	73-131	14.3	20	
Ethylbenzene	54.1	1.00	"	50.0	ND	108	76-132	14.6	20	
m,p-Xylene	109	2.00	"	100	ND	109	69-139	14.3	20	
o-Xylene	53.6	1.00	"	50.0	ND	107	74-131	9.44	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.5	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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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

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 B8L1106 - EPA 5030B (Water)										
Matrix Spike Dup (B8L1106-MSD2)	Source: Y812116-09				Prepared: 12/11/2018 Analyzed: 12/12/2018					
Benzene	51.1	1.00	ug/L	50.0	ND	102	74-130	0.527	20	QM-07, QR-01
Toluene	69.6	1.00	"	50.0	0.650	138	73-131	28.9	20	
Ethylbenzene	52.0	1.00	"	50.0	ND	104	76-132	0.192	20	
m,p-Xylene	107	2.00	"	100	0.840	106	69-139	2.43	20	
o-Xylene	53.0	1.00	"	50.0	ND	106	74-131	0.872	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		95.2	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.4	84-114			

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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

Notes and Definitions

U Sample is Non-Detect.

QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President



March 28, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - HSR-Dreyer 5-5

Project Number - KMG09552/WO #88045

Attached are your analytical results for KMG - HSR-Dreyer 5-5 received by Origins Laboratory, Inc. March 22, 2019. This project is associated with Origins project number Y903336-01.

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

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

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

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

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

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



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y903336-01	Water	March 22, 2019 13:00	03/22/2019 16:15
MW02	Y903336-02	Water	March 22, 2019 13:05	03/22/2019 16:15
MW06	Y903336-03	Water	March 22, 2019 13:10	03/22/2019 16:15
MW07R	Y903336-04	Water	March 22, 2019 13:15	03/22/2019 16:15
MW08	Y903336-05	Water	March 22, 2019 13:20	03/22/2019 16:15
MW09	Y903336-06	Water	March 22, 2019 13:25	03/22/2019 16:15
MW11	Y903336-07	Water	March 22, 2019 13:30	03/22/2019 16:15
MW12	Y903336-08	Water	March 22, 2019 13:35	03/22/2019 16:15
MW13	Y903336-09	Water	March 22, 2019 13:40	03/22/2019 16:15
MW14	Y903336-10	Water	March 22, 2019 13:45	03/22/2019 16:15
MW15	Y903336-11	Water	March 22, 2019 13:50	03/22/2019 16:15
MW17	Y903336-12	Water	March 22, 2019 13:55	03/22/2019 16:15
MW18	Y903336-13	Water	March 22, 2019 14:00	03/22/2019 16:15
MW23	Y903336-15	Water	March 22, 2019 14:10	03/22/2019 16:15

Origins Laboratory, Inc.



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

LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Brian Sulzberger

Project Number: KMG09552/WO #88045598

Project: KMG - HSR-Dreyer 5-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW31	Y903336-16	Water	March 22, 2019 14:15	03/22/2019 16:15

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

1043

ORIGINS
LABORATORY, INC

1903336

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

Client: LT Environmental, Inc.	Project Manager: Brian Sulzberger
Project: KMG - HSR-Dreyer 5-5	Project Number: KMG09552/WO #88045598

Number	Sample Identification	Matrix	Sample Date	Sample Time	Container	Qty	Analyses
01-001	MM01	Water	3/22/19	1300	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
02-001	MM02	Water	3/22/19	1305	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
03-001	MM03	Water	3/22/19	1310	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
04-001	MM04	Water	3/22/19	1315	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
05-001	MM05	Water	3/22/19	1320	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
06-001	MM06	Water	3/22/19	1325	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
07-001	MM07	Water	3/22/19	1330	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
08-001	MM08	Water	3/22/19	1335	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
09-001	MM09	Water	3/22/19	1340	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
10-001	MM10	Water	3/22/19	1345	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
11-001	MM11	Water	3/22/19	1350	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C

Temperature on Receipt: 9.4

Turn Around Time: ☐ 72-hr ☒ Standard ☐ 48-hr

Relinquished By: [Signature] Date / Time: 3/22/19 1615

Received By: [Signature] Date / Time: 3/22/19 1615

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: KMG09552/VO #88045598
Project: KMG - HSR-Dreyer 5-5

ORIGINS
LABORATORY, INC

KMG-HSR-Dreyer 5-5
KMG 09552

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

12-001	MW12	Water	3/22/19	1335	5b	12_40mL Amber VOA Vial - HCL	1	BTEX by EPA 8260C
13-001	MW13	Water		1310		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
14-001	MW14	Water		1305		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
15-001	MW15	Water		1350		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
16-001	MW16R	Water		-		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
17-001	MW17	Water		1355		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
18-001	MW18	Water		1400		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
19-001	MW19	Water		-		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
20-001	MW20R	Water		1405		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
21-001	MW21	Water		-		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
22-001	MW22	Water		-		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
23-001	MW23	Water		1410		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
24-001	MW24	Water		-		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
25-001	MW25	Water		-		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C

Removed by
you email from
today on 3/22/19

Temperature on Receipt: 9.4

Turn Around Time: ☐ 72-hr ☒ Standard

Relinquished By: *[Signature]* Date / Time: 3/22/19 16:5

Received By: *[Signature]* Date / Time: 3/22/19 16:5

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: KMG09552/VO #88045598
Project: KMG - HSR-Dreyer 5-5

303

ORIGINS
LABORATORY, INC

KMG-HSR Dreyer 5-5
KMG-09552

1903330

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

26-001	4MW26	Water			12-40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
27-001	4MW27	Water			12-40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
28-001	4MW28	Water			12-40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
29-001	4MW29	Water			12-40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
30-001	4MW30	Water			12-40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
31-001	4MW31	Water	1415	3/22/19	12-40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C

Temperature on Receipt: 9.4
Turn Around Time: ☒ 72-hr ☐ Standard
Same Day: ☐ 24-hr ☐ 48-hr

Relinquished By: [Signature] Date / Time: 3/22/19 1615
Received By: [Signature] Date / Time: 3/22/19 1615

Relinquished By: [Signature] Date / Time: 3/22/19 1615
Received By: [Signature] Date / Time: 3/22/19 1615

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: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1903336

Client: LTE

Client Project ID: HSR-Dreyer 5-5

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 3/25/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 9.4 °C / °C / °C (Describe)

Thermometer ID: T003

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

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

Reviewed by (Project Manager) [Signature]

3/26/19
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW01

3/22/2019 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903336-01 (Water)

BTEX by EPA 8260C

Benzene	746	100	ug/L	100	B9C2607	KDK	03/26/2019	03/26/2019
Toluene	19200	200	"	200	"	KDK	"	03/27/2019
Ethylbenzene	586	100	"	100	"	KDK	"	03/26/2019
Xylenes, total	8070	100	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	96.9 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.7 %	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: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW02

3/22/2019 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903336-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2607	KDK	03/26/2019	03/26/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	3.28	1.00	"	"	"	KDK	"	"	
Xylenes, total	15.9	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.5 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW06

3/22/2019 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903336-03 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B9C2607	KDK	03/26/2019	03/26/2019	U
Toluene	ND	4.00	"	"	"	KDK	"	03/26/2019	U
Ethylbenzene	139	4.00	"	"	"	KDK	"	03/26/2019	
Xylenes, total	619	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121	"	"	"
Surrogate: Toluene-d8	103 %	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: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW07R

3/22/2019 1:15:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit								

Origins Laboratory, Inc.
Y903336-04 (Water)

BTEX by EPA 8260C

Benzene	16.9	4.00	ug/L	4	B9C2607	KDK	03/26/2019	03/26/2019	
Toluene	20.3	4.00	"	"	"	KDK	"	"	
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	1580	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.3 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	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: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW08

3/22/2019 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903336-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2607	KDK	03/26/2019	03/26/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.9 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.5 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW09

3/22/2019 1:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903336-06 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B9C2607	KDK	03/26/2019	03/26/2019	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	173	4.00	"	"	"	KDK	"	"	
Xylenes, total	731	50.0	"	50	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.9 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW11

3/22/2019 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903336-07 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2607	KDK	03/26/2019	03/26/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.4 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.9 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW12

3/22/2019 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903336-08 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B9C2607	KDK	03/26/2019	03/26/2019	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.7 %	84-121	"	"	"
Surrogate: Toluene-d8	100 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	97.7 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW13

3/22/2019 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903336-09 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2607	KDK	03/26/2019	03/26/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.9 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.9 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW14

3/22/2019 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903336-10 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2607	KDK	03/26/2019	03/26/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.5 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	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: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW15

3/22/2019 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903336-11 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2607	KDK	03/26/2019	03/26/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	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: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW17

3/22/2019 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903336-12 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2607	KDK	03/26/2019	03/26/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

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

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW18

3/22/2019 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903336-13 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2607	KDK	03/26/2019	03/26/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.9 %	84-121	"	"	"
Surrogate: Toluene-d8	102 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW23

3/22/2019 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903336-15 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2607	KDK	03/26/2019	03/26/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.5 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW31

3/22/2019 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903336-16 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B9C2607	KDK	03/26/2019	03/26/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121	"	"	"
Surrogate: Toluene-d8	100 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	99.8 %	84-114	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

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 B9C2607 - EPA 5030B (Water)

Blank (B9C2607-BLK1)

Prepared: 03/26/2019 Analyzed: 03/26/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5	99.3		84-121			
Surrogate: Toluene-d8	63		"	62.5	100		85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.0		84-114			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

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 B9C2607 - EPA 5030B (Water)

LCS (B9C2607-BS1)

Prepared: 03/26/2019 Analyzed: 03/26/2019

Benzene	48.8	1.00	ug/L	50.0		97.6	73.3-129			
Toluene	47.0	1.00	"	50.0		94.0	76.2-123			
Ethylbenzene	46.8	1.00	"	50.0		93.6	73.6-130			
m,p-Xylene	93.9	2.00	"	100		93.9	76.1-126			
o-Xylene	47.9	1.00	"	50.0		95.8	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.6	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.5	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: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

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 B9C2607 - EPA 5030B (Water)

Matrix Spike (B9C2607-MS1)		Source: Y903336-07			Prepared: 03/26/2019 Analyzed: 03/26/2019					
Benzene	52.8	1.00	ug/L	50.0	ND	106	74-130			
Toluene	51.0	1.00	"	50.0	ND	102	73-131			
Ethylbenzene	50.7	1.00	"	50.0	ND	101	76-132			
m,p-Xylene	101	2.00	"	100	ND	101	69-139			
o-Xylene	50.7	1.00	"	50.0	ND	101	74-131			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.2	84-121			
Surrogate: Toluene-d8	63		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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Arvada CO 80003

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

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 B9C2607 - EPA 5030B (Water)

Matrix Spike Dup (B9C2607-MSD1)		Source: Y903336-07			Prepared: 03/26/2019 Analyzed: 03/26/2019					
Benzene	52.6	1.00	ug/L	50.0	ND	105	74-130	0.228	20	
Toluene	51.6	1.00	"	50.0	ND	103	73-131	1.15	20	
Ethylbenzene	51.0	1.00	"	50.0	ND	102	76-132	0.472	20	
m,p-Xylene	102	2.00	"	100	ND	102	69-139	0.533	20	
o-Xylene	51.5	1.00	"	50.0	ND	103	74-131	1.49	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.4	84-121			
Surrogate: Toluene-d8	63		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.5	84-114			

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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

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



July 02, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - HSR-Dreyer 5-5

Project Number - KMG09552/WO #88045

Attached are your analytical results for KMG - HSR-Dreyer 5-5 received by Origins Laboratory, Inc. June 25, 2019. This project is associated with Origins project number Y906439-01.

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: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y906439-01	Water	June 25, 2019 11:30	06/25/2019 16:15
MW02	Y906439-02	Water	June 25, 2019 11:39	06/25/2019 16:15
MW03	Y906439-03	Water	June 25, 2019 10:32	06/25/2019 16:15
MW06	Y906439-04	Water	June 25, 2019 11:19	06/25/2019 16:15
MW07R	Y906439-05	Water	June 25, 2019 11:48	06/25/2019 16:15
MW08	Y906439-06	Water	June 25, 2019 11:08	06/25/2019 16:15
MW09	Y906439-07	Water	June 25, 2019 10:59	06/25/2019 16:15
MW10	Y906439-08	Water	June 25, 2019 10:20	06/25/2019 16:15
MW11	Y906439-09	Water	June 25, 2019 10:37	06/25/2019 16:15
MW12	Y906439-10	Water	June 25, 2019 10:29	06/25/2019 16:15
MW13	Y906439-11	Water	June 25, 2019 10:18	06/25/2019 16:15
MW14	Y906439-12	Water	June 25, 2019 10:09	06/25/2019 16:15
MW15	Y906439-13	Water	June 25, 2019 10:48	06/25/2019 16:15
MW16R	Y906439-14	Water	June 25, 2019 11:41	06/25/2019 16:15

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW17	Y906439-15	Water	June 25, 2019 10:25	06/25/2019 16:15
MW18	Y906439-16	Water	June 25, 2019 11:13	06/25/2019 16:15
MW20R	Y906439-17	Water	June 25, 2019 11:37	06/25/2019 16:15
MW22	Y906439-18	Water	June 25, 2019 10:25	06/25/2019 16:15
MW23	Y906439-19	Water	June 25, 2019 10:40	06/25/2019 16:15
MW24	Y906439-20	Water	June 25, 2019 11:05	06/25/2019 16:15
MW25	Y906439-21	Water	June 25, 2019 11:27	06/25/2019 16:15
MW28	Y906439-22	Water	June 25, 2019 10:54	06/25/2019 16:15
MW30	Y906439-23	Water	June 25, 2019 10:54	06/25/2019 16:15
MW31	Y906439-24	Water	June 25, 2019 11:31	06/25/2019 16:15

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

ORIGINS
LABORATORY, INC

7906439

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

Client: LT Environmental, Inc.
Project: KMG - HSR-Dreyer 5-5
Project Manager: Brian Sulzberger
Project Number: KMG09552/WO #88045598

Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MM01	Water	6-25-19	1130	BM	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
02-001	MM02	Water		1139		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
03-001	MM03	Water		1030		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
04-001	MM04	Water				40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
05-001	MM05	Water				40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
06-001	MM06	Water	6-25-19	1119	BM	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
07-001	MM07R	Water		1148		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
08-001	MM08	Water		1108		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
09-001	MM09	Water		1059		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
10-001	MM10	Water		1020		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
11-001	MM11	Water		1637		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C

Relinquished By: [Signature] Date / Time: 6/25/19 1615
Received By: [Signature] Date / Time: 6/25/19 1615

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

Origins Laboratory, Inc.

Jefe Pellegrini

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

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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

ORIGINS
LABORATORY, INC

1906439

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

12-001	MM12	Water	1029	6-25-19	gh	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
13-001	MM13	Water	1018			40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
14-001	MM14	Water	1009			40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
15-001	MM15	Water	1048			40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
16-001	MM16R	Water	1141			40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
17-001	MM17	Water	1075			40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
18-001	MM18	Water	1113			40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
19-001	MM19	Water	—			40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
20-001	MM20R	Water	1137	6-25-19	gh	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
21-001	MM21	Water	—			40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
22-001	MM22	Water	1025			40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
23-001	MM23	Water	1040			40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
24-001	MM24	Water	1105			40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
25-001	MM25	Water	1127			40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C

Temperature on Receipt: ☐ 72-hr ☒ Standard

Turn Around Time: ☐ 24-hr ☐ 48-hr

Relinquished By: *[Signature]* Date / Time: 6/25/19 1615

Received By: *[Signature]* Date / Time: 6/25/19 1615

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

ORIGINS
LABORATORY, INC

9906439

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

28-001	MW26	Water	—	—	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
28-001	MW27	Water	—	—	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
28-001	MW28	Water	1054	6-25-19	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
28-001	MW29	Water	—	—	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
30-001	MW30	Water	1044	6-25-19	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
31-001	MW31	Water	1131	✓	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C

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

Relinquished By: [Signature] Date / Time: 6/25/19 1615
Received By: [Signature] Date / Time: 6/25/19 1615

Relinquished By: [Signature] Date / Time: 6/25/19 1615
Received By: [Signature] Date / Time: 6/25/19 1615

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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW01

6/25/2019 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906439-01 (Water)

BTEX by EPA 8260D

Benzene	544	4.00	ug/L	4	B9F2708	KDK	06/27/2019	07/01/2019
Toluene	18700	1000	"	1000	"	KDK	"	06/29/2019
Ethylbenzene	753	4.00	"	4	"	KDK	"	07/01/2019
Xylenes, total	17600	1000	"	1000	"	KDK	"	06/29/2019

Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.7 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW02

6/25/2019 11:39:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906439-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2708	KDK	06/27/2019	06/29/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130	"	"	"
Surrogate: Toluene-d8	103 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.4 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW03

6/25/2019 10:32:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906439-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2708	KDK	06/27/2019	06/29/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.5 %	70-130	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW06

6/25/2019 11:19:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906439-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2708	KDK	06/27/2019	07/02/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130			"	"	06/29/2019
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	96.1 %	70-130			"	"	"

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Project: KMG - HSR-Dreyer 5-5

MW07R

6/25/2019 11:48:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906439-05 (Water)

BTEX by EPA 8260D

Benzene	38.6	1.00	ug/L	1	B9F2708	KDK	06/27/2019	07/01/2019
Toluene	1360	100	"	100	"	KDK	"	07/02/2019
Ethylbenzene	139	100	"	"	"	KDK	"	"
Xylenes, total	6770	100	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130			"	"	06/29/2019
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	94.7 %	70-130			"	"	"

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Project: KMG - HSR-Dreyer 5-5

MW08

6/25/2019 11:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906439-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2708	KDK	06/27/2019	06/29/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.4 %	70-130	"	"	"

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MW09

6/25/2019 10:59:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906439-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2708	KDK	06/27/2019	07/01/2019	U
Toluene	19.1	1.00	"	"	"	KDK	"	"	
Ethylbenzene	231	100	"	100	"	KDK	"	06/29/2019	
Xylenes, total	3520	100	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	95.6 %	70-130			"	"	"

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MW10

6/25/2019 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906439-08 (Water)

BTEX by EPA 8260D

Benzene	9.88	1.00	ug/L	1	B9F2708	KDK	06/27/2019	07/01/2019
Toluene	2180	100	"	100	"	KDK	"	06/29/2019
Ethylbenzene	34.2	1.00	"	1	"	KDK	"	07/01/2019
Xylenes, total	1490	100	"	100	"	KDK	"	06/29/2019

Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.8 %	70-130	"	"	"

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MW11

6/25/2019 10:37:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906439-09 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2708	KDK	06/27/2019	06/29/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.3 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.6 %	70-130	"	"	"

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MW12

6/25/2019 10:29:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906439-10 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2708	KDK	06/27/2019	06/29/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.8 %	70-130	"	"	"

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MW13

6/25/2019 10:18:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906439-11 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2708	KDK	06/27/2019	06/29/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.8 %	70-130	"	"	"

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MW14

6/25/2019 10:09:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906439-12 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2708	KDK	06/27/2019	06/29/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.4 %	70-130	"	"	"

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MW15

6/25/2019 10:48:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906439-13 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2708	KDK	06/27/2019	06/29/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.7 %	70-130	"	"	"

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MW16R

6/25/2019 11:41:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906439-14 (Water)

BTEX by EPA 8260D

Benzene	16100	100	ug/L	100	B9F2708	KDK	06/27/2019	06/29/2019
Toluene	12600	100	"	"	"	KDK	"	"
Ethylbenzene	219	100	"	"	"	KDK	"	"
Xylenes, total	5980	100	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	95.3 %	70-130			"	"	"

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MW17

6/25/2019 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906439-15 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2708	KDK	06/27/2019	06/29/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.4 %	70-130	"	"	"

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Project: KMG - HSR-Dreyer 5-5

MW18

6/25/2019 11:13:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906439-16 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2708	KDK	06/27/2019	06/29/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.8 %	70-130	"	"	"

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MW20R

6/25/2019 11:37:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906439-17 (Water)

BTEX by EPA 8260D

Benzene	15400	500	ug/L	500	B9F2708	KDK	06/27/2019	06/29/2019	
Toluene	3470	500	"	"	"	KDK	"	"	
Ethylbenzene	ND	500	"	"	"	KDK	"	"	U
Xylenes, total	1800	500	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.8 %	70-130			"	"	"	"	

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MW22

6/25/2019 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906439-18 (Water)

BTEX by EPA 8260D

Benzene	7530	100	ug/L	100	B9F2708	KDK	06/27/2019	07/01/2019
Toluene	29.3	1.00	"	1	"	KDK	"	06/29/2019
Ethylbenzene	1.50	1.00	"	"	"	KDK	"	"
Xylenes, total	1040	100	"	100	"	KDK	"	07/01/2019

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	06/29/2019
Surrogate: 4-Bromofluorobenzene	94.0 %	70-130			"	"	"

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Project: KMG - HSR-Dreyer 5-5

MW23

6/25/2019 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906439-19 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2708	KDK	06/27/2019	07/01/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	06/29/2019	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.9 %	70-130	"	"	"

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MW24

6/25/2019 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906439-20 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2708	KDK	06/27/2019	07/01/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130			"	"	06/29/2019
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	97.3 %	70-130			"	"	"

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MW25

6/25/2019 11:27:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906439-21 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2708	KDK	06/27/2019	06/29/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	5.86	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	96.1 %	70-130			"	"	"

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Project: KMG - HSR-Dreyer 5-5

MW28

6/25/2019 10:54:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906439-22 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2708	KDK	06/27/2019	06/29/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.2 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.6 %	70-130	"	"	"

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MW30

6/25/2019 10:54:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906439-23 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2708	KDK	06/27/2019	07/01/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"

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MW31

6/25/2019 11:31:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y906439-24 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9F2708	KDK	06/27/2019	07/01/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

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

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9F2708 - EPA 5030B (Water)										
Blank (B9F2708-BLK1)					Prepared: 06/27/2019 Analyzed: 06/29/2019					
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	60		"	62.5		95.2	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.5	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F2708 - EPA 5030B (Water)

Blank (B9F2708-BLK2)

Prepared: 06/27/2019 Analyzed: 06/29/2019

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	59		"	62.5	94.8		70-130			
Surrogate: Toluene-d8	63		"	62.5	102		70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5	96.6		70-130			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F2708 - EPA 5030B (Water)

LCS (B9F2708-BS1)

Prepared: 06/27/2019 Analyzed: 06/29/2019

Benzene	52.2	1.00	ug/L	50.0		104	70-130			
Toluene	51.6	1.00	"	50.0		103	70-130			
Ethylbenzene	51.4	1.00	"	50.0		103	70-130			
m,p-Xylene	102	2.00	"	100		102	70-130			
o-Xylene	50.4	1.00	"	50.0		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.7	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.4	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: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F2708 - EPA 5030B (Water)

LCS (B9F2708-BS2)

Prepared: 06/27/2019 Analyzed: 06/29/2019

Benzene	50.2	1.00	ug/L	50.0		100	70-130			
Toluene	49.9	1.00	"	50.0		99.8	70-130			
Ethylbenzene	49.1	1.00	"	50.0		98.1	70-130			
m,p-Xylene	97.8	2.00	"	100		97.8	70-130			
o-Xylene	48.6	1.00	"	50.0		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.3	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.5	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F2708 - EPA 5030B (Water)

Matrix Spike (B9F2708-MS1)		Source: Y906439-02			Prepared: 06/27/2019 Analyzed: 06/29/2019					
Benzene	52.1	1.00	ug/L	50.0	ND	104	70-130			
Toluene	51.9	1.00	"	50.0	ND	104	70-130			
Ethylbenzene	52.2	1.00	"	50.0	ND	104	70-130			
m,p-Xylene	104	2.00	"	100	ND	104	70-130			
o-Xylene	51.8	1.00	"	50.0	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.9	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		96.8	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F2708 - EPA 5030B (Water)

Matrix Spike (B9F2708-MS2)		Source: Y906439-03			Prepared: 06/27/2019 Analyzed: 06/29/2019					
Benzene	51.6	1.00	ug/L	50.0	ND	103	70-130			
Toluene	50.8	1.00	"	50.0	ND	102	70-130			
Ethylbenzene	50.6	1.00	"	50.0	ND	101	70-130			
m,p-Xylene	101	2.00	"	100	ND	101	70-130			
o-Xylene	51.8	1.00	"	50.0	0.920	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.0	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.1	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F2708 - EPA 5030B (Water)

Matrix Spike Dup (B9F2708-MSD1)		Source: Y906439-02			Prepared: 06/27/2019 Analyzed: 06/29/2019					
Benzene	52.7	1.00	ug/L	50.0	ND	105	70-130	1.13	20	
Toluene	53.2	1.00	"	50.0	ND	106	70-130	2.34	20	
Ethylbenzene	52.9	1.00	"	50.0	ND	106	70-130	1.26	20	
m,p-Xylene	106	2.00	"	100	ND	106	70-130	1.87	20	
o-Xylene	52.7	1.00	"	50.0	ND	105	70-130	1.80	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.3	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.7	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9F2708 - EPA 5030B (Water)

Matrix Spike Dup (B9F2708-MSD2)		Source: Y906439-03			Prepared: 06/27/2019 Analyzed: 06/29/2019					
Benzene	51.8	1.00	ug/L	50.0	ND	104	70-130	0.464	20	
Toluene	51.3	1.00	"	50.0	ND	103	70-130	0.921	20	
Ethylbenzene	50.4	1.00	"	50.0	ND	101	70-130	0.238	20	
m,p-Xylene	101	2.00	"	100	ND	101	70-130	0.476	20	
o-Xylene	51.4	1.00	"	50.0	0.920	101	70-130	0.794	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.1	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.5	70-130			

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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

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.



September 25, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - HSR-Dreyer 5-5

Project Number - KMG09552/WO #880455

Attached are your analytical results for KMG - HSR-Dreyer 5-5 received by Origins Laboratory, Inc. September 17, 2019. This project is associated with Origins project number Y909267-01.

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: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y909267-01	Water	September 17, 2019 11:45	09/17/2019 15:11
MW02	Y909267-02	Water	September 17, 2019 11:51	09/17/2019 15:11
MW03	Y909267-03	Water	September 17, 2019 11:56	09/17/2019 15:11
MW05	Y909267-04	Water	September 17, 2019 12:02	09/17/2019 15:11
MW06	Y909267-05	Water	September 17, 2019 12:09	09/17/2019 15:11
MW07R	Y909267-06	Water	September 17, 2019 12:14	09/17/2019 15:11
MW08	Y909267-07	Water	September 17, 2019 12:20	09/17/2019 15:11
MW09	Y909267-08	Water	September 17, 2019 12:25	09/17/2019 15:11
MW10	Y909267-09	Water	September 17, 2019 12:29	09/17/2019 15:11
MW11	Y909267-10	Water	September 17, 2019 12:34	09/17/2019 15:11
MW12	Y909267-11	Water	September 17, 2019 12:40	09/17/2019 15:11
MW13	Y909267-12	Water	September 17, 2019 12:46	09/17/2019 15:11
MW14	Y909267-13	Water	September 17, 2019 12:52	09/17/2019 15:11
MW15	Y909267-14	Water	September 17, 2019 12:59	09/17/2019 15:11

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW16R	Y909267-15	Water	September 17, 2019 13:05	09/17/2019 15:11
MW17	Y909267-16	Water	September 17, 2019 13:11	09/17/2019 15:11
MW18	Y909267-17	Water	September 17, 2019 13:16	09/17/2019 15:11
MW19	Y909267-18	Water	September 17, 2019 13:23	09/17/2019 15:11
MW20R	Y909267-19	Water	September 17, 2019 13:28	09/17/2019 15:11
MW21	Y909267-20	Water	September 17, 2019 13:35	09/17/2019 15:11
MW22	Y909267-21	Water	September 17, 2019 13:40	09/17/2019 15:11
MW23	Y909267-22	Water	September 17, 2019 13:45	09/17/2019 15:11
MW24	Y909267-23	Water	September 17, 2019 13:51	09/17/2019 15:11
MW25	Y909267-24	Water	September 17, 2019 13:57	09/17/2019 15:11
MW26	Y909267-25	Water	September 17, 2019 14:03	09/17/2019 15:11
MW27	Y909267-26	Water	September 17, 2019 14:09	09/17/2019 15:11
MW28	Y909267-27	Water	September 17, 2019 14:15	09/17/2019 15:11
MW30	Y909267-28	Water	September 17, 2019 14:22	09/17/2019 15:11

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW31	Y909267-29	Water	September 17, 2019 14:30	09/17/2019 15:11

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

ORIGINS
LABORATORY, INC

1909267

1/3

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

Client: LT Environmental, Inc.		Project Manager: Brian Sulzberger						
Project: KMG - HSR-Dreyer 5-5		Project Number: KMG09552/WO #89045598						
Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MM01	Water	09/17/19	1145	TC	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
02-001	MM02	Water		1151		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
03-001	MM03	Water		1156		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
04-001	MM04	Water				40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
05-001	MM05	Water		1203		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
06-001	MM06	Water		1209		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
07-001	MM07R	Water		1214		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
08-001	MM08	Water		1220		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
09-001	MM09	Water		1225		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
10-001	MM10	Water		1229		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
11-001	MM11	Water		1234		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C

Temperature on Receipt: 22.7
Turn Around Time: ☐ 72-hr ☒ Standard ☐ 48-hr

Relinquished By: Daylan Date / Time: 09/17/19 1511
Received By: Joe 2 Date / Time: 9-17-19 1511

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

Origins Laboratory, Inc.

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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

ORIGINS
LABORATORY, INC

Y009267

2/3

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

12-001	MW12	Water	09/17/19	1340	TC	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
13-001	MW13	Water		1346		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
14-001	MW14	Water		1352		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
15-001	MW15	Water		1359		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
16-001	MW16R	Water		1365		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
17-001	MW17	Water		1311		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
18-001	MW18	Water		1316		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
19-001	MW19	Water		1393		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
20-001	MW20R	Water		1398		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
21-001	MW21	Water		1335		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
22-001	MW22	Water		1340		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
23-001	MW23	Water		1345		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
24-001	MW24	Water		1351		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
25-001	MW25	Water		1357		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C

Temperature on Receipt: 12.7
Turn Around Time:
Same Day: ☐ 72-hr: ☒ Standard: ☐
24-hr: ☐ 48-hr: ☐

Relinquished By: Date / Time

Received By: Date / Time

Relinquished By: 09/17/19 1511 Date / Time

Received By: 9.17.19 1511 Date / Time

Origins Laboratory, Inc.

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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

ORIGINS
LABORATORY, INC

1909267

3/3

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

26-001	MW26	Water	09/17/19	1403	TC	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
27-001	MW27	Water	09/17/19	1409	→	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
28-001	MW28	Water	09/17/19	1415	→	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
29-001	MW29	Water	09/17/19	—	—	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
30-001	MW30	Water	09/17/19	1422	TC	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
31-001	MW31	Water	09/17/19	1430	→	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C

Relinquished By: Date / Time: 09/17/19 15:11

Received By: Date / Time: 09-17-19 15:11

Relinquished By: _____ Date / Time: _____

Received By: _____ Date / Time: _____

Temperature on Receipt: 72.7

Turn Around Time: ☐ 24-hr ☐ 72-hr ☒ Standard

Origins Laboratory, Inc.

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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y409267

Client: LTE

Client Project ID: Dreyer 5-5

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 9/18/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 22.7 °C / °C / °C (Describe)

Thermometer ID: T003

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

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

Reviewed by (Project Manager) [Signature]

9/19/19
Date/Time/Reviewed

Origins Laboratory, Inc.

[Signature]

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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW01

9/17/2019 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-01 (Water)

BTEX by EPA 8260D

Benzene	336	50.0	ug/L	50	B911909	KDK	09/19/2019	09/20/2019
Toluene	21900	200	"	200	"	KDK	"	09/23/2019
Ethylbenzene	896	50.0	"	50	"	KDK	"	09/20/2019
Xylenes, total	22000	50.0	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	130 %	70-130			"	"	"
Surrogate: Toluene-d8	95.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW02

9/17/2019 11:51:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9I1909	KDK	09/19/2019	09/20/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	130 %	70-130	"	"	"
Surrogate: Toluene-d8	96.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	70-130	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW03

9/17/2019 11:56:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9I1909	KDK	09/19/2019	09/20/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	130 %	70-130	"	"	"
Surrogate: Toluene-d8	95.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

Origins Laboratory, Inc.



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Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW05

9/17/2019 12:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9I1909	KDK	09/19/2019	09/20/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	126 %	70-130	"	"	"
Surrogate: Toluene-d8	96.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"

Origins Laboratory, Inc.



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Project: KMG - HSR-Dreyer 5-5

MW06

9/17/2019 12:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-05 (Water)

BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B9I1909	KDK	09/19/2019	09/20/2019	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	128 %	70-130	"	"	"
Surrogate: Toluene-d8	96.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	70-130	"	"	"

Origins Laboratory, Inc.



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Brian Sulzberger
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Project: KMG - HSR-Dreyer 5-5

MW07R

9/17/2019 12:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-06 (Water)

BTEX by EPA 8260D

Benzene	4.76	4.00	ug/L	4	B9I1909	KDK	09/19/2019	09/20/2019	
Toluene	89.1	4.00	"	"	"	KDK	"	"	
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	1420	4.00	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	81.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	92.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"	"	

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Project: KMG - HSR-Dreyer 5-5

MW08

9/17/2019 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9I1909	KDK	09/19/2019	09/20/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	131 %	70-130	"	"	"	"	"	"	S-07
Surrogate: Toluene-d8	95.6 %	70-130	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"	"	"	"	

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Brian Sulzberger
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Project: KMG - HSR-Dreyer 5-5

MW09

9/17/2019 12:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-08 (Water)

BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B9I909	KDK	09/19/2019	09/20/2019	U
Toluene	7.40	4.00	"	"	"	KDK	"	"	
Ethylbenzene	346	4.00	"	"	"	KDK	"	"	
Xylenes, total	4240	50.0	"	50	"	KDK	"	09/23/2019	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"		"	
Surrogate: Toluene-d8	93.5 %	70-130			"	"		09/20/2019	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"		"	

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

LT Environmental, Inc.
4600 West 60th Avenue
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Brian Sulzberger
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Project: KMG - HSR-Dreyer 5-5

MW10

9/17/2019 12:29:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-09 (Water)

BTEX by EPA 8260D

Benzene	5.88	4.00	ug/L	4	B9I1909	KDK	09/19/2019	09/23/2019
Toluene	7200	50.0	"	50	"	KDK	"	09/21/2019
Ethylbenzene	500	50.0	"	"	"	KDK	"	"
Xylenes, total	7870	50.0	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	127 %	70-130			"	"	"
Surrogate: Toluene-d8	96.2 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"

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MW11

9/17/2019 12:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-10 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9I1909	KDK	09/19/2019	09/21/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	127 %	70-130	"	"	"
Surrogate: Toluene-d8	96.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	70-130	"	"	"

Origins Laboratory, Inc.



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Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW12

9/17/2019 12:40:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-11 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9I1909	KDK	09/19/2019	09/21/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	129 %	70-130	"	"	"
Surrogate: Toluene-d8	93.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	119 %	70-130	"	"	"

Origins Laboratory, Inc.



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Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW13

9/17/2019 12:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-12 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9I1909	KDK	09/19/2019	09/21/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	129 %	70-130	"	"	"
Surrogate: Toluene-d8	95.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"

Origins Laboratory, Inc.



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Project: KMG - HSR-Dreyer 5-5

MW14

9/17/2019 12:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-13 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B91909	KDK	09/19/2019	09/21/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	131 %	70-130	"	"	"	"	"	"	S-07
Surrogate: Toluene-d8	95.1 %	70-130	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"	"	"	"	

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LT Environmental, Inc.
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Project: KMG - HSR-Dreyer 5-5

MW15

9/17/2019 12:59:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-14 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9I1909	KDK	09/19/2019	09/23/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	125 %	70-130			"	"	"
Surrogate: Toluene-d8	95.6 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.
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Brian Sulzberger
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Project: KMG - HSR-Dreyer 5-5

MW16R

9/17/2019 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-15 (Water)

BTEX by EPA 8260D

Benzene	14200	200	ug/L	200	B9I1909	KDK	09/19/2019	09/23/2019	
Toluene	13700	200	"	"	"	KDK	"	"	
Ethylbenzene	284	50.0	"	50	"	KDK	"	09/23/2019	
Xylenes, total	7290	50.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	143 %	70-130			"	"	"	S-04
Surrogate: Toluene-d8	96.4 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW17

9/17/2019 1:11:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-16 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9I1909	KDK	09/19/2019	09/23/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	127 %	70-130	"	"	"
Surrogate: Toluene-d8	95.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

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Arvada CO 80003

Brian Sulzberger
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Project: KMG - HSR-Dreyer 5-5

MW18

9/17/2019 1:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-17 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9I1909	KDK	09/19/2019	09/23/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	130 %	70-130	"	"	"
Surrogate: Toluene-d8	93.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger
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Project: KMG - HSR-Dreyer 5-5

MW19

9/17/2019 1:23:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-18 (Water)

BTEX by EPA 8260D

Benzene	1130	100	ug/L	100	B9I1909	KDK	09/19/2019	09/23/2019	
Toluene	6620	100	"	"	"	KDK	"	"	
Ethylbenzene	ND	100	"	"	"	KDK	"	"	U
Xylenes, total	3420	100	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	129 %	70-130			"	"	"
Surrogate: Toluene-d8	95.5 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"

Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
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Project: KMG - HSR-Dreyer 5-5

MW20R

9/17/2019 1:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-19 (Water)

BTEX by EPA 8260D

Benzene	8470	100	ug/L	100	B9I1909	KDK	09/19/2019	09/23/2019
Toluene	553	100	"	"	"	KDK	"	"
Ethylbenzene	204	100	"	"	"	KDK	"	"
Xylenes, total	2920	100	"	"	"	KDK	"	"

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

95.3 %
94.1 %
106 %

70-130
70-130
70-130

"
"
"

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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW21

9/17/2019 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-20 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B91909	KDK	09/19/2019	09/23/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	131 %	70-130	"	"	"	"	"	"	S-07
Surrogate: Toluene-d8	92.8 %	70-130	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"	"	"	"	

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Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

MW22

9/17/2019 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-21 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B911910	KDK	09/19/2019	09/23/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130	"	"	"
Surrogate: Toluene-d8	98.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.0 %	70-130	"	"	"

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MW23

9/17/2019 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-22 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B911910	KDK	09/19/2019	09/23/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.4 %	70-130	"	"	"

Origins Laboratory, Inc.



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MW24

9/17/2019 1:51:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-23 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B911910	KDK	09/19/2019	09/23/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.6 %	70-130	"	"	"
Surrogate: Toluene-d8	99.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.9 %	70-130	"	"	"

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MW25

9/17/2019 1:57:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-24 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B911910	KDK	09/19/2019	09/23/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.8 %	70-130	"	"	"
Surrogate: Toluene-d8	98.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.3 %	70-130	"	"	"

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MW26

9/17/2019 2:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-25 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B911910	KDK	09/19/2019	09/23/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.4 %	70-130	"	"	"
Surrogate: Toluene-d8	99.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.4 %	70-130	"	"	"

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MW27

9/17/2019 2:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-26 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B911910	KDK	09/19/2019	09/23/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	89.8 %	70-130	"	"	"
Surrogate: Toluene-d8	96.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.6 %	70-130	"	"	"

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MW28

9/17/2019 2:15:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-27 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B911910	KDK	09/19/2019	09/23/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.8 %	70-130	"	"	"
Surrogate: Toluene-d8	98.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.6 %	70-130	"	"	"

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MW30

9/17/2019 2:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-28 (Water)

BTEX by EPA 8260D

Benzene	ND	50.0	ug/L	50	B911910	KDK	09/19/2019	09/23/2019	U
Toluene	ND	50.0	"	"	"	KDK	"	"	U
Ethylbenzene	ND	50.0	"	"	"	KDK	"	"	U
Xylenes, total	ND	50.0	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	4350 %	70-130	"	"	"
Surrogate: Toluene-d8	4920 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	4610 %	70-130	"	"	"

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Project: KMG - HSR-Dreyer 5-5

MW31

9/17/2019 2:30:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y909267-29 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B911910	KDK	09/19/2019	09/23/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	85.2 %	70-130	"	"	"
Surrogate: Toluene-d8	99.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.9 %	70-130	"	"	"

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Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9I1909 - EPA 5030B (Water)

Blank (B9I1909-BLK1)

Prepared: 09/19/2019 Analyzed: 09/20/2019

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	77		"	62.5	122		70-130			
Surrogate: Toluene-d8	60		"	62.5	96.8		70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5	107		70-130			

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Project: KMG - HSR-Dreyer 5-5

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9I1909 - EPA 5030B (Water)										
LCS (B9I1909-BS1)					Prepared: 09/19/2019 Analyzed: 09/20/2019					
Benzene	56.8	1.00	ug/L	50.0		114	70-130			
Toluene	50.4	1.00	"	50.0		101	70-130			
Ethylbenzene	47.5	1.00	"	50.0		94.9	70-130			
m,p-Xylene	89.2	2.00	"	100		89.2	70-130			
o-Xylene	47.1	1.00	"	50.0		94.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	80		"	62.5		128	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	70-130			

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Project: KMG - HSR-Dreyer 5-5

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9I1909 - EPA 5030B (Water)

Matrix Spike (B9I1909-MS1)		Source: Y909267-04			Prepared: 09/19/2019 Analyzed: 09/20/2019					
Benzene	60.1	1.00	ug/L	50.0	ND	120	70-130			
Toluene	52.5	1.00	"	50.0	0.150	105	70-130			
Ethylbenzene	50.1	1.00	"	50.0	0.190	99.8	70-130			
m,p-Xylene	108	2.00	"	100	0.390	108	70-130			
o-Xylene	52.3	1.00	"	50.0	0.220	104	70-130			
Surrogate: Toluene-d8	58		"	62.5		93.3	70-130			
Surrogate: 4-Bromofluorobenzene	69		"	62.5		110	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9I1909 - EPA 5030B (Water)

Matrix Spike Dup (B9I1909-MSD1)		Source: Y909267-04			Prepared: 09/19/2019 Analyzed: 09/20/2019					
Benzene	56.3	1.00	ug/L	50.0	ND	113	70-130	6.44	20	
Toluene	49.4	1.00	"	50.0	0.150	98.6	70-130	6.08	20	
Ethylbenzene	47.0	1.00	"	50.0	0.190	93.5	70-130	6.45	20	
m,p-Xylene	98.9	2.00	"	100	0.390	98.6	70-130	8.68	20	
o-Xylene	49.4	1.00	"	50.0	0.220	98.4	70-130	5.66	20	
Surrogate: 1,2-Dichloroethane-d4	81		"	62.5		130	70-130			
Surrogate: Toluene-d8	58		"	62.5		93.4	70-130			
Surrogate: 4-Bromofluorobenzene	69		"	62.5		111	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9I1910 - EPA 5030B (Water)

Blank (B9I1910-BLK1)

Prepared: 09/19/2019 Analyzed: 09/23/2019

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		97.1	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	70-130			

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Project: KMG - HSR-Dreyer 5-5

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9I1910 - EPA 5030B (Water)										
LCS (B9I1910-BS1)					Prepared: 09/19/2019 Analyzed: 09/23/2019					
Benzene	57.0	1.00	ug/L	50.0		114	70-130			
Toluene	55.8	1.00	"	50.0		112	70-130			
Ethylbenzene	52.6	1.00	"	50.0		105	70-130			
m,p-Xylene	108	2.00	"	100		108	70-130			
o-Xylene	55.2	1.00	"	50.0		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.8	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Project: KMG - HSR-Dreyer 5-5

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9I1910 - EPA 5030B (Water)

Matrix Spike (B9I1910-MS1)		Source: Y909267-21			Prepared: 09/19/2019 Analyzed: 09/23/2019					
Benzene	51.9	1.00	ug/L	50.0	0.460	103	70-130			
Toluene	49.8	1.00	"	50.0	ND	99.5	70-130			
Ethylbenzene	51.6	1.00	"	50.0	0.090	103	70-130			
m,p-Xylene	103	2.00	"	100	ND	103	70-130			
o-Xylene	54.3	1.00	"	50.0	0.860	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.5	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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Project: KMG - HSR-Dreyer 5-5

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B9I1910 - EPA 5030B (Water)

Matrix Spike Dup (B9I1910-MSD1)		Source: Y909267-21			Prepared: 09/19/2019 Analyzed: 09/23/2019					
Benzene	47.2	1.00	ug/L	50.0	0.460	93.5	70-130	9.51	20	
Toluene	45.4	1.00	"	50.0	ND	90.7	70-130	9.23	20	
Ethylbenzene	47.3	1.00	"	50.0	0.090	94.4	70-130	8.80	20	
m,p-Xylene	96.1	2.00	"	100	ND	96.1	70-130	7.17	20	
o-Xylene	51.3	1.00	"	50.0	0.860	101	70-130	5.76	20	
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.6	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.1	70-130			

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4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: KMG09552/WO #88045598
Project: KMG - HSR-Dreyer 5-5

Notes and Definitions

U Sample is Non-Detect.

S-07 High surrogate in sample, however sample is non-detect. High surrogate indicates result values are biased high.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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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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.

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