

TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FORT ST. VRAIN-4
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
AW01	11/19/2013	Surveyed - Not Sampled				22.72	74.51
	8/14/2015	Not Sampled				22.29	74.94
	11/19/2015	Not Sampled				NM	74.53
	2/23/2016	Not Sampled				23.52	73.71
	5/11/2016	Not Sampled				23.28	73.95
	8/19/2016	Not Sampled				22.89	74.34
	11/23/2016	Not Sampled				25.95	73.84
	2/10/2017	Not Sampled				23.85	73.31
	5/2/2017	Not Sampled				NM	NA
	8/10/2017	Free Product - Not Sampled				23.65 (0.03)	NA
	11/13/2017	Free Product - Not Sampled				23.59 (0.03)	NA
	2/4/2020	<1.00	<1.00	<1.00	<1.00	22.67	74.54
	5/13/2020	<1.00	<1.00	<1.00	<1.00	22.38	74.83
	8/24/2020	<1.00	<1.00	<1.00	<1.00	22.06	75.15
AW02	11/19/2013	Surveyed - Not Sampled				22.51	74.53
AW03	11/19/2013	Surveyed - Not Sampled				22.38	74.46
AW04	11/19/2013	Surveyed - Not Sampled				22.56	74.56
	8/14/2015	Not Sampled				22.13	74.99
	11/19/2015	Not Sampled				NM	74.57
	2/23/2016	Not Sampled				23.38	73.74
	5/11/2016	Product - Not Sampled				23.13 (0.03)	74.01
	8/19/2016	Product - Not Sampled				22.74 (0.02)	74.40
	11/23/2016	Product - Not Sampled				25.72 (0.02)	73.88
	2/10/2017	Not Sampled				24.01	73.01
	5/2/2017	Not Sampled				NM	NA
	8/10/2017	Free Product - Not Sampled				23.46 (0.03)	73.58
	11/13/2017	Free Product - Not Sampled				23.42 (0.03)	73.62
	2/4/2020	<1.00	1.74	4.33	1.28	23.30	73.75
	5/13/2020	<1.00	<1.00	<1.00	<1.00	22.58	74.47
	8/24/2020	<1.00	<1.00	<1.00	<1.00	22.27	74.78
MW01R	10/22/2001	955	ND	855	14700	NM	NA
	2/5/2002	Dry - Not Sampled				Dry	NA
	5/16/2002	Not Sampled				NM	NA
	8/23/2002	920	ND	ND	10700	NM	NA



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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		
	11/18/2002	Dry - Not Sampled				Dry	NA
	12/19/2003	Dry - Not Sampled				Dry	NA
	3/25/2004	Dry - Not Sampled				Dry	NA
	6/29/2004	Dry - Not Sampled				Dry	NA
	9/23/2004	Dry - Not Sampled				Dry	NA
	1/18/2005	Dry - Not Sampled				Dry	NA
	8/3/2005	Dry - Not Sampled				Dry	NA
	11/23/2005	Dry - Not Sampled				Dry	NA
	2/18/2006	Dry - Not Sampled				Dry	NA
	5/24/2006	Dry - Not Sampled				Dry	NA
	8/18/2006	Dry - Not Sampled				Dry	NA
	11/16/2006	210	1.1	700	5700	22.30	NA
	2/20/2007	140	<1.0	420	8500	23.88	NA
	5/3/2007	Product - Not Sampled				24.25 (0.95)	NA
	8/20/2007	4.7	<1.0	440	1700	7.89	NA
	11/27/2007	Product - Not Sampled				21.28 (1.05)	NA
	2/19/2008	31	<1.0	970	7900	21.94 (0.04)	NA
	5/30/2008	52	<1.0	890	7900	22.03	NA
	8/27/2008	7.1	<1.0	320	1900	16.19	NA
	11/24/2008	Product - Not Sampled				21.58 (0.05)	NA
	2/11/2009	Product - Not Sampled				23.08 (0.13)	NA
	5/21/2009	Product - Not Sampled				23.04 (0.37)	NA
	8/13/2009	7.7	<1.0	300	570	9.39	NA
	11/23/2009	11	<1.0	260	450	20.33	NA
	2/10/2010	12	<1.0	410	870	22.16	NA
	5/10/2010	30	<1.0	160	120	23.18	NA
	8/24/2010	<1.0	<1.0	81	280	10.24	NA
	11/17/2010	<1.0	<1.0	22	<1.0	PVC Broken	NA
	2/9/2011	5.2	2.4	300	94	PVC Blocked	NA
MW01R destroyed as of 5/3/2011							
MW01R2	8/25/2011	<1.0	<1.0	1.8	<1.0	22.67	74.88
	11/22/2011	<1.0	<1.0	3.1	<1.0	22.89	74.66
	2/28/2012	<1.0	<1.0	1.9	<1.0	PVC Blocked	NA
	5/25/2012	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	8/23/2012	<1.0	1.5	<1.0	<1.0	PVC Blocked	NA
	11/15/2012	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	2/16/2013	<1.0	<1.0	1.3	<1.0	PVC Blocked	NA



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COGCC Allowable Levels		5	560	700	1400		
	5/21/2013	Damaged - Not Sampled				PVC Blocked	NA
	8/28/2013	<1.0	<1.0	3.5	<1.0	PVC Blocked	NA
	11/15/2013	<1.0	<1.0	1.5	<1.0	22.80	77.20
	11/19/2013	Surveyed - Not Sampled				22.80	74.76
	2/14/2014	<1.0	<1.0	24.1	7.1	23.51	74.02
	5/8/2014	<1.0	<1.0	16.3	<1.0	24.63	72.93
	7/31/2014	<1.0	<1.0	1.7	<1.0	23.22	74.34
	11/20/2014	<1.0	<1.0	<1.0	<1.0	22.31	72.25
	2/2/2015	<1.0	<1.0	1.5	<1.0	23.45	74.11
	5/8/2015	<1.0	<1.0	<1.0	<1.0	23.90	73.66
	8/14/2015	<1.0	<1.0	<1.0	<1.0	22.46	75.10
	2/23/2016	18.2	<1.0	<1.0	<1.0	23.72	73.84
	5/11/2016	12.8	<1.0	<1.0	<1.0	23.41	74.15
	8/19/2016	107	<1.00	1.02	<1.00	22.10	75.46
	11/23/2016	85.4	<1.00	1.01	<1.00	23.60	73.96
	2/10/2017	76.0	<1.00	1.17	<1.00	24.18	73.38
	5/2/2017	89.0	<1.00	<1.00	<1.00	24.26	73.30
	8/10/2017	2.02	<1.00	<1.00	<1.00	23.85	73.71
	11/13/2017	22.8	<1.00	<1.00	<1.00	23.82	73.74
	2/5/2018	33.6	<1.00	<1.00	<1.00	24.49	73.07
	5/9/2018	51.1	<1.00	1.09	<1.00	24.69	72.87
	8/16/2018	20.6	<1.00	<1.00	<1.00	24.38	73.18
	11/15/2018	1.90	<1.00	<1.00	<1.00	24.07	73.49
	2/19/2019	<1.00	<1.00	<1.00	9.36	24.77	72.79
	5/15/2019	<1.00	<1.00	<1.00	<1.00	24.61	72.95
	8/21/2019	<1.00	<1.00	<1.00	<1.00	23.40	74.16
	11/11/2019	<1.00	<1.00	<1.00	<1.00	23.08	74.48
	2/4/2020	<1.00	<1.00	<1.00	<1.00	23.17	74.39
	5/13/2020	<1.00	<1.00	<1.00	<1.00	22.99	74.57
	8/24/2020	<1.00	<1.00	<1.00	<1.00	22.71	74.85
MW02	10/22/2001	357	ND	511	97	NM	NA
	2/5/2002	Dry - Not Sampled				Dry	NA
	8/23/2002	70	1.2	ND	9.2	NM	NA
	11/18/2002	Dry - Not Sampled				Dry	NA
	12/19/2003	Dry - Not Sampled				Dry	NA
	3/25/2004	Dry - Not Sampled				Dry	NA
	6/29/2004	Dry - Not Sampled				Dry	NA



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COGCC Allowable Levels		5	560	700	1400		
	9/23/2004	Dry - Not Sampled				Dry	NA
	1/18/2005	Dry - Not Sampled				Dry	NA
	MW02 destroyed as of 8/3/2005						
MW02R	8/3/2005	Dry - Not Sampled				Dry	NA
	11/23/2005	1200	1.0	300	200	21.40	NA
	2/18/2006	Frozen - Not Sampled				PVC Blocked	NA
	2/22/2006	57	<1.0	9.6	36	NM	NA
	5/24/2006	25	<1.0	5.4	5.6	PVC Blocked	NA
	8/18/2006	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	11/16/2006	260	<1.0	73	170	PVC Blocked	NA
	2/20/2007	23	<1.0	18	51	PVC Blocked	NA
	5/3/2007	19	<1.0	2.1	<1.0	PVC Blocked	NA
	8/20/2007	150	4.4	190	4.7	PVC Blocked	NA
	11/27/2007	210	<1.0	170	98	PVC Blocked	NA
	2/19/2008	54	<1.0	91	12	PVC Blocked	NA
	5/30/2008	30	<1.0	81	11	PVC Blocked	NA
	8/27/2008	47	<1.0	22	<1.0	PVC Blocked	NA
	11/24/2008	33	<1.0	120	17	22.25	NA
	2/11/2009	5.4	<1.0	68	4.2	PVC Blocked	NA
	5/21/2009	Damaged - Not Sampled				PVC Blocked	NA
	8/13/2009	2.8	<1.0	14	14	PVC Blocked	NA
	11/23/2009	1.4	<1.0	72	67	PVC Blocked	NA
	2/10/2010	9.4	<1.0	88	<1.0	PVC Blocked	NA
	5/10/2010	<1.0	<1.0	11	<1.0	PVC Blocked	NA
	8/24/2010	1.1	<1.0	9.8	<1.0	PVC Blocked	NA
	11/17/2010	<1.0	<1.0	5.4	<1.0	PVC Blocked	NA
	2/9/2011	<1.0	<1.0	19	4.8	PVC Blocked	NA
	5/3/2011	<1.0	<1.0	8.0	<1.0	PVC Blocked	NA
	MW02R destroyed as of 8/25/2011						
MW03	10/22/2001	26	ND	1.0	19	NM	NA
	2/5/2002	Dry - Not Sampled				Dry	NA
	8/23/2002	21.4	ND	ND	3.5	NM	NA
	11/18/2002	Dry - Not Sampled				Dry	NA
	12/19/2003	Dry - Not Sampled				Dry	NA
	3/25/2004	Dry - Not Sampled				Dry	NA
	6/29/2004	Dry - Not Sampled				Dry	NA



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COGCC Allowable Levels		5	560	700	1400		
	9/23/2004	Dry - Not Sampled				Dry	NA
	1/18/2005	Could Not Find - Not Sampled				Not Found	NA
	8/3/2005	Dry - Not Sampled				Dry	NA
	MW03 destroyed as of 11/23/2005						
MW04	10/22/2001	56	ND	5.0	26	NM	NA
	2/5/2002	Dry - Not Sampled				Dry	NA
	5/16/2002	36	ND	170	197	NM	NA
	8/23/2002	Dry - Not Sampled				Dry	NA
	11/18/2002	Dry - Not Sampled				Dry	NA
	2/20/2003	1260	ND	575	7630	NM	NA
	6/2/2003	1040	ND	200	5750	NM	NA
	12/19/2003	Not Sampled				NM	NA
	6/29/2004	320	37.5	170	6780	NM	NA
	9/23/2004	Dry - Not Sampled				Dry	NA
	1/18/2005	Product - Not Sampled				25.05 (1.35)	NA
	8/3/2005	Not Sampled				Not Found	NA
	11/23/2005	Not Sampled				Not Found	NA
	MW04 destroyed as of 2/10/2010						
MW04R	4/24/2006	210	<1.0	210	2100	23.43	72.69
	5/24/2006	160	<1.0	130	1100	23.56	72.56
	8/18/2006	38	<1.0	<1.0	1100	19.72	76.40
	11/16/2006	400	<1.0	570	6400	22.42	73.70
	2/20/2007	89	<1.0	240	5200	24.31	71.81
	5/3/2007	Product - Not Sampled				25.50 (2.00)	70.62
	8/20/2007	12	<1.0	170	1300	8.15	87.97
	11/27/2007	Product - Not Sampled				20.40 (-1.93)	75.72
	2/19/2008	190	<1.0	470	5900	22.25 (0.15)	73.87
	5/30/2008	160	<1.0	280	860	22.90 (0.25)	73.22
	8/27/2008	13	<1.0	180	1100	16.95 (0.01)	79.17
	11/24/2008	Product - Not Sampled				21.85 (0.04)	74.27
	2/11/2009	Product - Not Sampled				23.35 (0.10)	72.77
	5/21/2009	Product - Not Sampled				22.46 (0.07)	73.66
	8/13/2009	5.3	<1.0	59	470	10.25	85.87
	11/23/2009	7.9	<1.0	100	260	20.62	75.50
	2/10/2010	33	<1.0	200	490	22.37	73.75
	5/10/2010	23	<1.0	89	700	23.44	72.68



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COGCC Allowable Levels		5	560	700	1400		
	8/24/2010	2.8	<1.0	130	350	11.31	84.81
	11/17/2010	20	<1.0	330	820	20.20	75.92
	2/9/2011	21	<1.0	200	360	22.44	73.68
	5/3/2011	15	<1.0	130	180	23.42	72.70
	8/25/2011	8.6	<1.0	96	120	22.72	73.40
	11/22/2011	<1.0	<1.0	6.8	14	22.88	73.24
	2/28/2012	4.8	<1.0	47	110	24.00	72.12
	5/25/2012	7.6	<1.0	250	52	23.80	72.32
	8/23/2012	6.6	<1.0	160	69	22.90	73.22
	11/15/2012	Product - Not Sampled				23.65 (0.59)	72.47
	2/16/2013	Product - Not Sampled				24.65 (0.35)	71.47
	5/21/2013	Product - Not Sampled				24.20 (0.29)	71.92
	8/28/2013	4.8	<1.0	110	80	23.08	73.04
	11/19/2013	Surveyed - Not Sampled				22.87	74.49
	9/15/2014	NA	NA	NA	NA	NM	NA
	MW04R destroyed as of 9/15/2014						
MW04R2	11/15/2013	7.6	<1.0	177	108	NM	NA
	2/14/2014	1.9	<1.0	55.9	61.3	22.36	NA
	5/8/2014	2.1	<1.0	154	178	26.01	NA
	7/31/2014	1.5	<1.0	58.6	15.1	22.06	NA
	11/20/2014	2.6	<1.0	123	7.7	21.09	NA
	2/2/2015	<1.0	<1.0	<1.0	<1.0	22.21	NA
	5/8/2015	<1.0	<1.0	13	<1.0	22.74	NA
	8/14/2015	<1.0	4.2	<1.0	1.6	21.20	NA
	2/23/2016	1.5	<1.0	23.3	<1.0	22.44	NA
	5/11/2016	<1.0	<1.0	4.0	<1.0	22.24	NA
	8/19/2016	<1.00	<1.00	5.31	<1.00	21.82	NA
	11/23/2016	<1.00	<1.00	<1.00	<1.00	22.31	NA
	2/10/2017	<1.00	<1.00	6.74	8.64	22.90	NA
	5/2/2017	<1.00	<1.00	1.98	<1.00	23.06	NA
	8/10/2017	<1.00	<1.00	6.91	<1.00	22.63	NA
	11/13/2017	<1.00	<1.00	<1.00	<1.00	22.59	NA
	2/5/2018	<1.00	<1.00	<1.00	<1.00	23.24	NA
	5/9/2018	<1.00	<1.00	<1.00	<1.00	23.48	NA
	8/16/2018	<1.00	<1.00	1.37	<1.00	23.17	NA
	11/15/2018	<1.00	<1.00	4.06	<1.00	22.83	NA
	2/19/2019	<1.00	1.05	27.6	3.04	23.11	NA



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COGCC Allowable Levels		5	560	700	1400		
	5/15/2019	<1.00	<1.00	7.72	4.28	23.36	NA
	8/21/2019	<1.00	<1.00	<1.00	3.63	23.35	74.07
	11/11/2019	<1.00	<1.00	<1.00	<1.00	23.04	74.38
	2/4/2020	<1.00	1.10	65.1	6.48	23.15	74.27
	5/13/2020	<1.00	<1.00	<1.00	<1.00	22.96	74.46
	8/24/2020	<1.00	<1.00	1.39	<1.00	22.65	74.77
MW05	10/22/2001	Dry - Not Sampled				Dry	NA
	2/5/2002	Dry - Not Sampled				Dry	NA
	MW05 destroyed as of 8/23/2002						
MW05R	8/3/2005	Product - Not Sampled				19.60 (1.05)	NA
	11/23/2005	Product - Not Sampled				23.00 (1.60)	NA
	2/18/2006	Product - Not Sampled				24.90 (1.97)	NA
	5/24/2006	Product - Not Sampled				24.66 (1.70)	NA
	8/18/2006	500	48	<1.0	1800	19.31 (0.01)	NA
	11/16/2006	Product - Not Sampled				22.86 (1.07)	NA
	2/20/2007	Not Found - Not Sampled				Not Found	NA
	5/3/2007	Product - Not Sampled				24.81 (1.60)	NA
	8/20/2007	Product - Not Sampled				8.86 (1.45)	NA
	11/27/2007	Product - Not Sampled				19.98 (0.24)	NA
	2/19/2008	400	<1.0	640	5100	21.81 (0.20)	NA
	5/30/2008	240	<1.0	420	820	22.31	NA
	8/27/2008	120	<1.0	490	2800	17.34	NA
	11/24/2008	Product - Not Sampled				22.51 (-0.47)	NA
	2/11/2009	Product - Not Sampled				NM	NA
	5/21/2009	Product - Not Sampled				NM	NA
	8/13/2009	11	<1.0	88	35	9.40	NA
	11/23/2009	54	<1.0	220	180	19.91	NA
	2/10/2010	130	<1.0	360	640	21.84	NA
	5/10/2010	Dry - Not Sampled				Dry	NA
	8/24/2010	4.4	<1.0	87	2.5	10.01	NA
	11/17/2010	18	<1.0	160	<1.0	19.52	NA
	2/9/2011	38	<1.0	140	21	22.00	NA
	MW05R destroyed as of 8/25/2011						
MW05R2	5/25/2012	63	<1.0	140	1700	23.45	72.49
	8/23/2012	67	<1.0	150	1200	23.45	72.49



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COGCC Allowable Levels		5	560	700	1400		
	11/15/2012	28	<1.0	<1.0	770	24.00	71.94
	2/16/2013	2.5	<1.0	3.9	19	24.70	71.24
	5/21/2013	31	<1.0	120	360	24.40	71.54
	8/28/2013	44	<1.0	190	460	22.83	73.11
	11/15/2013	20.3	<1.0	126	152	21.50	74.44
	11/19/2013	Surveyed - Not Sampled				22.43	74.49
	2/14/2014	Product - Not Sampled				22.22 (0.07)	73.72
	5/8/2014	20.9	<1.0	112	203	24.30	72.62
	7/31/2014	17.9	<1.0	106	142	22.38	74.54
	11/20/2014	11.5	<1.0	109	87.3	21.91	75.01
	2/2/2015	46.0	<2.0	237	203	23.05	73.87
	5/8/2015	38.0	<4.0	243	164	23.58	73.34
	8/14/2015	36.0	<4.0	150	93.6	22.02	74.90
	2/23/2016	32.4	<4.0	479	174	23.39 (0.17)	73.66
	5/11/2016	33.6	<4.0	170	26.1	23.07 (0.03)	73.87
	8/19/2016	115	<1.00	510	51.2	22.61 (0.01)	74.32
	11/23/2016	60.0	<4.00	161	10.6	PVC Blocked	NA
	2/10/2017	<1.00	<1.00	1.27	2.14	PVC Blocked	NA
	5/2/2017	PVC Blocked				NM	NA
	8/10/2017	PVC Blocked				NM	NA
	11/13/2017	PVC Blocked				NM	NA
	2/5/2018	PVC Blocked				NM	NA
	5/9/2018	PVC Blocked				NM	NA
	8/16/2018	PVC Blocked				NM	NA
	MW05R2 destroyed as of 8/10/2017						
MW05R3	9/6/2018	<1.00	<1.00	11.5	<1.00	23.94	48.08
	11/15/2018	1.11	<1.00	19.7	<1.00	21.32	73.29
	2/19/2019	1.82	<1.00	92.0	3.96	21.56	73.05
	5/15/2019	1.75	<1.00	112	<1.00	21.80	72.81
	8/21/2019	<1.00	<1.00	52.3	<1.00	20.59	74.02
	11/11/2019	<1.00	<1.00	<1.00	<1.00	20.33	74.28
	2/4/2020	1.60	<1.00	36.1	<1.00	20.41	74.20
	5/13/2020	<1.00	<1.00	1.48	<1.00	20.24	74.37
	8/24/2020	<1.00	<1.00	<1.00	<1.00	19.91	74.70
MW06	8/23/2002	ND	ND	ND	ND	NM	NA
	11/18/2002	1.1	1.0	ND	1.9	NM	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FORT ST. VRAIN-4
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	2/12/2003	3.6	ND	1.1	5.1	NM	NA
	6/2/2003	ND	ND	ND	160	NM	NA
	12/11/2003	30.3	ND	5.6	ND	NM	NA
	3/25/2004	Dry - Not Sampled				Dry	NA
	6/29/2004	Dry - Not Sampled				Dry	NA
	9/23/2004	Dry - Not Sampled				Dry	NA
	8/3/2005	2.3	<1.0	1.6	4.0	19.75	NA
	11/23/2005	Damaged - Not Sampled				Damaged	NA
	MW06 destroyed as of 2/18/2006						
MW07	8/3/2005	<1.0	<1.0	<1.0	<2.0	17.70	NA
	11/23/2005	<1.0	1.3	<1.0	<2.0	22.05	NA
	2/18/2006	<1.0	<1.0	<1.0	<1.0	23.65	NA
	5/24/2006	<1.0	<1.0	<1.0	<1.0	23.50	NA
	8/18/2006	<1.0	<1.0	<1.0	<1.0	19.08	NA
	11/16/2006	<1.0	<1.0	<1.0	<1.0	21.96	NA
	2/20/2007	<1.0	<1.0	<1.0	<1.0	23.71	NA
	5/3/2007	<1.0	<1.0	<1.0	<1.0	23.40	NA
	8/20/2007	<1.0	<1.0	<1.0	<1.0	6.37	NA
	11/27/2007	<1.0	<1.0	<1.0	<1.0	20.02	NA
	2/19/2008	<1.0	<1.0	<1.0	<1.0	22.12	NA
	5/30/2008	<1.0	<1.0	<1.0	<1.0	22.41	NA
	8/27/2008	<1.0	<1.0	<1.0	<1.0	15.74	NA
	11/24/2008	<1.0	<1.0	<1.0	<1.0	21.65	NA
	2/11/2009	<1.0	<1.0	<1.0	<1.0	23.14	NA
	5/21/2009	<1.0	<1.0	<1.0	<1.0	23.01	NA
	8/13/2009	<1.0	<1.0	<1.0	13	8.49	NA
	11/23/2009	<1.0	<1.0	<1.0	<1.0	20.41	NA
	2/10/2010	<1.0	<1.0	<1.0	<1.0	22.22	NA
	5/10/2010	<1.0	<1.0	<1.0	<1.0	23.34	NA
	8/24/2010	<1.0	<1.0	<1.0	<1.0	9.60	NA
	11/17/2010	<1.0	<1.0	<1.0	<1.0	20.08	NA
	2/9/2011	<1.0	<1.0	<1.0	<1.0	22.31	NA
	5/3/2011	<1.0	<1.0	<1.0	<1.0	23.18	NA
	MW07 destroyed as of 8/25/2011						
MW07R	5/25/2012	<1.0	<1.0	<1.0	22	26.56	73.68
	8/23/2012	<1.0	<1.0	<1.0	<1.0	24.10	73.14



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FORT ST. VRAIN-4
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	11/15/2012	<1.0	<1.0	<1.0	<1.0	24.66	72.58
	2/16/2013	<1.0	<1.0	<1.0	<1.0	25.40	71.84
	5/21/2013	<1.0	<1.0	<1.0	<1.0	24.95	72.29
	8/28/2013	<1.0	<1.0	<1.0	<1.0	24.05	73.19
	11/15/2013	<1.0	<1.0	<1.0	<1.0	21.61	76.04
	11/19/2013	Surveyed - Not Sampled				22.66	75.58
	2/14/2014	<1.0	<1.0	<1.0	<1.0	23.45	73.79
	5/8/2014	<1.0	<1.0	<1.0	<1.0	24.54	72.70
	7/31/2014	<1.0	<1.0	<1.0	<1.0	23.12	74.12
	11/20/2014	<1.0	<1.0	<1.0	<1.0	22.15	75.09
	2/2/2015	<1.0	<1.0	<1.0	<1.0	23.33	73.91
	5/8/2015	<1.0	<1.0	<1.0	<1.0	23.82	73.42
	8/14/2015	<1.0	<1.0	<1.0	<1.0	22.28	74.96
	2/23/2016	<1.0	<1.0	<1.0	<1.0	23.53	73.71
	5/11/2016	<1.0	<1.0	<1.0	<1.0	23.31	73.93
	8/19/2016	<1.00	<1.00	<1.00	<1.00	22.91	74.33
	11/23/2016	<1.00	<1.00	<1.00	<1.00	23.43	73.81
	2/10/2017	<1.00	<1.00	<1.00	<1.00	24.03	73.21
	5/2/2017	<1.00	<1.00	<1.00	<1.00	24.19	73.05
	8/10/2017	<1.00	<1.00	<1.00	<1.00	23.73	73.51
	11/13/2017	<1.00	<1.00	<1.00	<1.00	23.69	73.55
	2/5/2018	<1.00	<1.00	<1.00	<1.00	24.33	72.91
	5/9/2018	<1.00	<1.00	<1.00	<1.00	24.42	72.82
	8/16/2018	<1.00	<1.00	<1.00	<1.00	24.12	73.12
	11/15/2018	<1.00	<1.00	<1.00	<1.00	23.54	73.70
	2/19/2019	<1.00	<1.00	<1.00	<1.00	23.80	73.44
	5/15/2019	<1.00	<1.00	<1.00	<1.00	24.02	73.22
	8/21/2019	<1.00	<1.00	<1.00	<1.00	22.84	74.40
	11/11/2019	<1.00	<1.00	<1.00	<1.00	22.54	74.70
	2/4/2020	<1.00	<1.00	<1.00	<1.00	22.61	74.63
	5/13/2020	<1.00	<1.00	<1.00	<1.00	22.41	74.83
	8/24/2020	<1.00	<1.00	<1.00	<1.00	22.09	75.15
MW08	8/3/2005	<1.0	<1.0	<1.0	<2.0	16.70	80.23
	11/23/2005	<1.0	<1.0	<1.0	<2.0	21.75	75.18
	2/18/2006	3.0	<1.0	<1.0	51	23.25	73.68
	5/24/2006	<1.0	<1.0	<1.0	<1.0	23.10	73.83
	8/18/2006	<1.0	<1.0	<1.0	<1.0	18.79	78.16



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FORT ST. VRAIN-4
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	11/16/2006	<1.0	<1.0	<1.0	<1.0	22.00	74.93
	2/20/2007	<1.0	<1.0	<1.0	<1.0	23.75	73.18
	5/3/2007	<1.0	<1.0	<1.0	<1.0	23.40	73.53
	8/20/2007	<1.0	<1.0	<1.0	<1.0	6.22	90.71
	11/27/2007	<1.0	<1.0	<1.0	<1.0	20.08	76.85
	2/19/2008	<1.0	<1.0	<1.0	<1.0	22.18	74.75
	5/30/2008	<1.0	<1.0	<1.0	<1.0	22.30	74.63
	8/27/2008	<1.0	<1.0	<1.0	<1.0	14.75	82.18
	11/24/2008	<1.0	<1.0	<1.0	<1.0	21.39	75.54
	2/11/2009	<1.0	<1.0	<1.0	<1.0	22.81	74.12
	5/21/2009	<1.0	<1.0	<1.0	<1.0	22.62	74.31
	8/13/2009	<1.0	<1.0	<1.0	<1.0	8.11	88.82
	11/23/2009	<1.0	<1.0	<1.0	<1.0	20.15	76.78
	2/10/2010	<1.0	<1.0	<1.0	<1.0	21.93	75.00
	5/10/2010	<1.0	<1.0	<1.0	<1.0	23.04	73.89
	8/24/2010	Not Found - Not Sampled				Not Found	NA
	11/17/2010	Not Found - Not Sampled				Not Found	NA
	2/9/2011	<1.0	<1.0	<1.0	<1.0	21.05	75.88
	5/3/2011	<1.0	<1.0	<1.0	<1.0	22.91	74.02
	8/25/2011	Removed from monitoring				NM	NA
	11/19/2013	Surveyed - Not Sampled				22.45	74.66
MW09	8/3/2005	500	<1.0	110	<2.0	20.95	77.11
	11/23/2005	710	1.1	180	310	NM	NA
	2/18/2006	Frozen - Not Sampled				24.45	73.61
	2/22/2006	220	1.8	68	110	NM	NA
	5/24/2006	53	<1.0	55	100	24.38	73.68
	8/18/2006	29	<1.0	16	15	20.99	77.07
	11/16/2006	440	<1.0	<1.0	<1.0	23.15	NA
	2/20/2007	17	<1.0	3.5	2.6	24.75	73.31
	5/3/2007	3.9	<1.0	15	13	24.67	73.39
	8/20/2007	150	<1.0	180	17	11.77	86.29
	11/27/2007	360	<1.0	230	37	21.30	76.76
	2/19/2008	39	<1.0	63	27	22.30	75.76
	5/30/2008	6.6	<1.0	17	3.2	23.50	74.56
	8/27/2008	37	<1.0	44	<1.0	19.33	78.73
	11/24/2008	120	<1.0	59	8.6	21.67	76.39
	2/11/2009	2.4	<1.0	8.6	<1.0	23.89	74.17



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FORT ST. VRAIN-4
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	5/21/2009	<1.0	<1.0	20	<1.0	23.80	74.26
	8/13/2009	16	<1.0	7.7	13	12.65	85.41
	11/23/2009	18	<1.0	38	35	21.33	76.73
	2/10/2010	1.5	<1.0	25	<1.0	23.00	75.06
	5/10/2010	<1.0	<1.0	10	<1.0	24.19	73.87
	8/24/2010	Not Found - Not Sampled				Not Found	NA
	11/17/2010	Not Found - Not Sampled				Not Found	NA
	2/9/2011	<1.0	<1.0	7.8	<1.0	25.15	72.91
	5/3/2011	<1.0	<1.0	4.3	<1.0	24.16	73.90
	8/25/2011	<1.0	<1.0	7.2	<1.0	23.40	74.66
	11/22/2011	<1.0	<1.0	3.7	<1.0	23.48	74.58
	2/28/2012	<1.0	<1.0	1.8	<1.0	24.65	73.41
	5/25/2012	<1.0	<1.0	1.3	<1.0	24.55	73.51
	8/23/2012	<1.0	<1.0	2.5	<1.0	24.85	73.21
	11/15/2012	<1.0	<1.0	1.9	<1.0	25.38	72.68
	2/16/2013	<1.0	<1.0	<1.0	<1.0	26.10	71.96
	5/21/2013	<1.0	<1.0	1.4	<1.0	25.78	72.28
	8/28/2013	<1.0	<1.0	1.8	<1.0	24.95	73.11
	11/15/2013	<1.0	<1.0	<1.0	<1.0	23.60	74.46
	11/19/2013	Surveyed - Not Sampled				23.48	74.48
	2/14/2014	<1.0	<1.0	2.3	<1.0	24.23	73.83
	5/8/2014	<1.0	<1.0	<1.0	<1.0	25.66	72.30
	7/31/2014	<1.0	<1.0	<1.0	<1.0	24.92	73.04
	11/20/2014	<1.0	<1.0	<1.0	<1.0	22.99	74.97
	2/2/2015	<1.0	<1.0	1.0	<1.0	24.03	73.93
	5/8/2015	<1.0	<1.0	<1.0	<1.0	24.59	73.37
	8/14/2015	<4.0	<4.0	<4.0	<4.0	23.03	74.93
	2/23/2016	<1.0	<1.0	<1.0	<1.0	24.24	73.72
	5/11/2016	<1.0	<1.0	<1.0	<1.0	24.18	73.78
	8/19/2016	<1.00	<1.00	1.04	<1.00	23.63	74.33
	11/23/2016	<1.00	<1.00	<1.00	<1.00	24.11	73.85
	2/10/2017	<1.00	<1.00	<1.00	<1.00	24.70	73.26
	5/2/2017	<1.00	<1.00	<1.00	<1.00	24.92	73.04
	8/10/2017	<1.00	<1.00	<1.00	<1.00	24.48	73.48
	11/13/2017	<1.00	<1.00	<1.00	<1.00	24.43	73.53
	2/5/2018	<1.00	<1.00	<1.00	<1.00	25.02	72.94
	5/9/2018	<1.00	<1.00	<1.00	<1.00	25.38	72.58
	8/16/2018	<1.00	<1.00	<1.00	<1.00	25.07	72.89



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GROUNDWATER ANALYTICAL AND FIELD RESULTS
FORT ST. VRAIN-4
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	11/15/2018	<1.00	<1.00	<1.00	<1.00	24.67	73.29
	2/19/2019	<1.00	<1.00	<1.00	6.15	24.89	73.07
	5/15/2019	<1.00	<1.00	<1.00	<1.00	25.16	72.80
	8/21/2019	<1.00	<1.00	<1.00	<1.00	24.18	73.78
	11/11/2019	Not Found - Not Sampled				NM	NA
	2/4/2020	<1.00	<1.00	<1.00	<1.00	23.81	74.15
	5/13/2020	<1.00	<1.00	<1.00	<1.00	23.66	74.30
	8/24/2020	<1.00	<1.00	<1.00	<1.00	23.33	74.63
<hr/>							
MW10	4/24/2006	1600	<1.0	94	790	24.02	73.12
	5/24/2006	210	<1.0	60	230	23.45	73.69
	8/18/2006	<1.0	<1.0	1.4	<1.0	19.72	77.42
	11/16/2006	35	<1.0	110	220	22.26	74.88
	2/20/2007	34	<1.0	52	220	23.90	73.24
	5/3/2007	460	<1.0	25	260	23.81	73.33
	8/20/2007	44	<1.0	5.4	22	9.64	87.50
	11/27/2007	200	<1.0	160	95	20.22	76.92
	2/19/2008	64	<1.0	150	19	22.32	74.82
	5/30/2008	8.6	<1.0	39	3.2	22.65	74.49
	8/27/2008	41	<1.0	57	<1.0	17.67	79.47
	11/24/2008	110	<1.0	99	2.6	21.63	75.51
	2/11/2009	7.9	<1.0	28	<1.0	23.09	74.05
	5/21/2009	1.1	<1.0	16	<1.0	22.44	74.70
	8/13/2009	6.8	<1.0	33	<1.0	11.08	86.06
	11/23/2009	33	<1.0	13	12	20.26	76.88
	2/10/2010	2.2	<1.0	11	<1.0	22.17	74.97
	5/10/2010	Dry - Not Sampled				Dry	NA
	8/24/2010	24	<1.0	7.7	<1.0	12.05	85.09
	11/17/2010	1.3	<1.0	2.8	<1.0	19.88	77.26
	2/9/2011	7.1	<1.0	3.8	<1.0	PVC Blocked	NA
	5/3/2011	<1.0	<1.0	3.7	<1.0	PVC Blocked	NA
	8/25/2011	<1.0	<1.0	3.0	<1.0	PVC Blocked	NA
	11/22/2011	<1.0	<1.0	2.7	<1.0	PVC Blocked	NA
	2/28/2012	<1.0	<1.0	2.6	<1.0	PVC Blocked	NA
	5/25/2012	Dry - Not Sampled				PVC Blocked	NA
	8/23/2012	<1.0	<1.0	2.4	<1.0	PVC Blocked	NA
	11/15/2012	<1.0	<1.0	1.1	<1.0	PVC Blocked	NA
	2/16/2013	<1.0	<1.0	2.4	<1.0	PVC Blocked	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FORT ST. VRAIN-4
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	5/21/2013	Damaged - Not Sampled				PVC Blocked	NA
	8/28/2013	<1.0	<1.0	1.5	<1.0	PVC Blocked	NA
	11/15/2013	<1.0	<1.0	<1.0	<1.0	NM	NA
	11/19/2013	Surveyed - Not Sampled				PVC Blocked	NA
	3/25/2014	1.5	<1.0	1.3	<1.0	PVC Blocked	NA
	2/19/2015	1.1	<1.0	1.6	<1.0	NM	NA
	5/8/2015	2.3	2.6	<1.0	<1.0	NM	NA
	8/14/2015	<1.0	<1.0	2.1	<1.0	PVC Blocked	NA
	2/23/2016	<1.0	<1.0	2.4	<1.0	PVC Blocked	NA
	5/11/2016	<1.0	<1.0	<1.0	<1.0	PVC Blocked	NA
	8/19/2016	<1.00	<1.00	2.17	<1.00	PVC Blocked	NA
	11/23/2016	<1.00	<1.00	2.24	<1.00	PVC Blocked	NA
	2/10/2017	<1.00	<1.00	<1.00	<1.00	PVC Blocked	NA
	5/2/2017	PVC Blocked				NM	NA
	8/10/2017	Dry - Not Sampled				NM	NA
	11/13/2017	Dry - Not Sampled				NM	NA
	2/5/2018	Dry - Not Sampled				Dry	NA
	5/9/2018	Dry - Not Sampled				Dry	NA
	8/16/2018	Dry - Not Sampled				Dry	NA
	11/15/2018	Dry - Not Sampled				NM	NA
	2/19/2019	Dry - Not Sampled				NM	NA
	5/15/2019	Dry - Not Sampled				NM	NA
	8/21/2019	Not Sampled				NM	NA
	11/11/2019	Dry - Not Sampled				NM	NA
	2/4/2020	Dry - Not Sampled				NM	NA
	5/13/2020	Dry - Not Sampled				NM	NA
	8/24/2020	Dry - Not Sampled				NM	NA
MW11	4/24/2006	16	<1.0	<1.0	9.6	24.30	73.17
	5/24/2006	<1.0	<1.0	4.1	3.4	24.16	73.66
	8/18/2006	<1.0	<1.0	<1.0	<1.0	20.94	76.88
	11/16/2006	<1.0	<1.0	<1.0	<1.0	22.98	74.84
	2/20/2007	<1.0	<1.0	<1.0	<1.0	24.60	73.22
	5/3/2007	<1.0	<1.0	<1.0	<1.0	24.55	73.27
	8/20/2007	51	<1.0	<1.0	<1.0	12.18	85.64
	11/27/2007	<1.0	<1.0	<1.0	<1.0	21.10	76.72
	2/19/2008	<1.0	<1.0	<1.0	<1.0	23.10	74.72
	5/30/2008	<1.0	<1.0	<1.0	<1.0	23.35	74.47



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FORT ST. VRAIN-4
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	8/27/2008	18	<1.0	2.8	<1.0	19.56	78.26
	11/24/2008	<1.0	<1.0	<1.0	<1.0	22.45	75.47
	2/11/2009	6.4	<1.0	<1.0	<1.0	23.74	74.08
	5/21/2009	<1.0	<1.0	<1.0	<1.0	23.13	74.69
	8/13/2009	<1.0	<1.0	<1.0	<1.0	13.02	84.80
	11/23/2009	<1.0	<1.0	<1.0	<1.0	21.11	76.71
	2/10/2010	<1.0	<1.0	<1.0	<1.0	22.85	74.97
	5/10/2010	<1.0	<1.0	<1.0	<1.0	23.94	73.88
	8/24/2010	<1.0	<1.0	<1.0	<1.0	14.41	83.41
	11/17/2010	<1.0	<1.0	<1.0	<1.0	20.75	77.07
	2/9/2011	<1.0	<1.0	<1.0	<1.0	23.00	74.82
	5/3/2011	<1.0	<1.0	<1.0	<1.0	23.89	73.93
	8/25/2011	<1.0	<1.0	<1.0	<1.0	23.28	74.54
	11/22/2011	<1.0	<1.0	<1.0	<1.0	23.47	74.35
	2/28/2012	<1.0	<1.0	<1.0	<1.0	24.45	73.37
	5/25/2012	<1.0	<1.0	<1.0	<1.0	24.35	73.47
	8/23/2012	<1.0	<1.0	<1.0	<1.0	24.65	73.17
	11/15/2012	<1.0	<1.0	<1.0	<1.0	25.30	72.52
	2/16/2013	<1.0	<1.0	<1.0	<1.0	25.90	71.92
	5/21/2013	<1.0	<1.0	<1.0	<1.0	25.63	72.19
	8/28/2013	<1.0	<1.0	<1.0	<1.0	24.63	73.19
	11/15/2013	Removed from monitoring				NM	NA
MW12	4/24/2006	<1.0	<1.0	<1.0	7.2	24.35	73.29
	5/24/2006	<1.0	<1.0	<1.0	2.6	23.40	73.89
	8/18/2006	<1.0	<1.0	<1.0	<1.0	20.20	77.09
	11/16/2006	<1.0	<1.0	<1.0	<1.0	22.28	75.01
	2/20/2007	<1.0	<1.0	<1.0	<1.0	23.80	73.49
	5/3/2007	<1.0	<1.0	<1.0	<1.0	23.72	72.57
	8/20/2007	9.1	<1.0	32	<1.0	11.12	86.17
	11/27/2007	<1.0	<1.0	6.5	<1.0	20.42	76.87
	2/19/2008	<1.0	<1.0	<1.0	<1.0	22.46	74.83
	5/30/2008	<1.0	<1.0	<1.0	<1.0	22.60	74.69
	8/27/2008	<1.0	<1.0	1.2	<1.0	18.53	78.76
	11/24/2008	<1.0	<1.0	<1.0	<1.0	21.35	75.94
	2/11/2009	<1.0	<1.0	<1.0	<1.0	23.00	74.29
	5/21/2009	<1.0	<1.0	<1.0	<1.0	22.87	74.42
	8/13/2009	310	<1.0	1.9	<1.0	11.48	85.81



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FORT ST. VRAIN-4
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	11/23/2009	<1.0	<1.0	<1.0	<1.0	20.52	76.77
	2/10/2010	<1.0	<1.0	<1.0	<1.0	22.08	75.21
	5/10/2010	<1.0	<1.0	<1.0	<1.0	23.16	74.13
	8/24/2010	<1.0	<1.0	<1.0	<1.0	13.42	83.81
	11/17/2010	<1.0	<1.0	<1.0	<1.0	19.95	77.28
	2/9/2011	<1.0	<1.0	<1.0	<1.0	22.14	75.09
	5/3/2011	<1.0	<1.0	<1.0	<1.0	23.09	74.14
	8/25/2011	<1.0	<1.0	<1.0	<1.0	22.44	74.79
	11/22/2011	<1.0	<1.0	<1.0	<1.0	22.54	74.69
	2/28/2012	<1.0	<1.0	<1.0	<1.0	23.14	74.09
	5/25/2012	<1.0	<1.0	<1.0	<1.0	23.07	74.16
	8/23/2012	Removed from monitoring				NM	NA
	11/19/2013	Surveyed - Not Sampled				22.95	74.61
MW13	2/11/2009	<1.0	<1.0	<1.0	<1.0	22.88	74.13
	5/21/2009	<1.0	<1.0	<1.0	<1.0	22.68	74.33
	12/2/2009	<1.0	<1.0	<1.0	<1.0	NM	NA
	2/23/2010	<1.0	<1.0	<1.0	<1.0	NM	74.91
	5/10/2010	<1.0	<1.0	<1.0	<1.0	NM	NA
	8/24/2010	31	<1.0	<1.0	<1.0	13.90	83.11
	11/17/2010	<1.0	<1.0	<1.0	<1.0	19.92	77.09
	2/9/2011	Dry - Not Sampled				Dry	NA
	5/3/2011	Dry - Not Sampled				Dry	NA
	8/25/2011	Dry - Not Sampled				Dry	NA
	11/22/2011	Dry - Not Sampled				Dry	NA
	2/28/2012	Dry - Not Sampled				Dry	NA
	5/25/2012	Dry - Not Sampled				Dry	NA
	8/23/2012	Removed from monitoring				NM	NA
	11/19/2013	Surveyed - Not Sampled				22.88	74.23
MW14	2/11/2009	<1.0	<1.0	<1.0	<1.0	22.80	NA
	5/21/2009	<1.0	<1.0	<1.0	<1.0	22.63	NA
	2/10/2010	Not Sampled				NM	NA
	5/10/2010	<1.0	<1.0	<1.0	<1.0	NM	NA
	8/24/2010	<1.0	<1.0	<1.0	<1.0	Damaged	NA
MW14 destroyed as of 9/1/2010							
MW14R	11/17/2010	<1.0	<1.0	<1.0	<1.0	19.43	79.33

TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FORT ST. VRAIN-4
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	2/9/2011	Dry - Not Sampled				Dry	NA
	5/3/2011	Dry - Not Sampled				Dry	NA
	8/25/2011	Dry - Not Sampled				Dry	NA
	11/22/2011	Dry - Not Sampled				Dry	NA
	2/28/2012	Dry - Not Sampled				Dry	NA
	5/25/2012	Dry - Not Sampled				Dry	NA
	8/23/2012	Dry - Not Sampled				Dry	NA
	11/15/2012	Dry - Not Sampled				Dry	NA
	2/16/2013	Dry - Not Sampled				Dry	NA
	5/21/2013	Dry - Not Sampled				Dry	NA
	8/28/2013	Dry - Not Sampled				Dry	NA
	11/15/2013	Dry - Not Sampled				Dry	NA
	11/19/2013	Surveyed - Not Sampled				NM	NA
	2/14/2014	Dry - Not Sampled				Dry	NA
	5/8/2014	Dry - Not Sampled				Dry	NA
	7/31/2014	Dry - Not Sampled				Dry	NA
	11/20/2014	Dry - Not Sampled				Dry	NA
	2/2/2015	Dry - Not Sampled				Dry	NA
	5/8/2015	Dry - Not Sampled				Dry	NA
	8/14/2015	Dry - Not Sampled				Dry	NA
	11/19/2015	Dry - Not Sampled				Dry	NA
	2/23/2016	Insufficient Water - Not Sampled				19.96	78.84
	5/11/2016	Dry - Not Sampled				Dry	NA
	8/19/2016	Dry - Not Sampled				Dry	NA
	11/23/2016	Dry - Not Sampled				Dry	NA
	2/10/2017	Dry - Not Sampled				Dry	NA
	5/2/2017	Insufficient Water - Not Sampled				NM	NA
	8/10/2017	Dry - Not Sampled				NM	NA
	11/13/2017	Dry - Not Sampled				NM	NA
	2/5/2018	Dry - Not Sampled				Dry	NA
	5/9/2018	Dry - Not Sampled				Dry	NA
	8/16/2018	Dry - Not Sampled				Dry	NA
	11/15/2018	Dry - Not Sampled				NM	NA
	2/19/2019	Dry - Not Sampled				NM	NA
	5/15/2019	Dry - Not Sampled				NM	NA
	8/21/2019	Dry - Not Sampled				NM	NA
	11/11/2019	Dry - Not Sampled				NM	NA
	2/4/2020	Dry - Not Sampled				NM	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FORT ST. VRAIN-4
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	5/13/2020	Dry - Not Sampled				NM	NA
	8/24/2020	Dry - Not Sampled				NM	NA
MW15	2/11/2009	210	<1.0	440	2100	22.77	74.03
	5/21/2009	74	<1.0	200	620	22.38	74.42
	12/2/2009	64	<1.0	110	220	NM	NA
	2/23/2010	40	<1.0	190	330	NM	73.89
	5/10/2010	23	<1.0	200	320	NM	NA
	8/24/2010	1.5	<1.0	1.5	<1.0	10.26	86.54
	11/17/2010	7.3	<1.0	94	200	19.52	77.28
	2/9/2011	15	<1.0	200	260	21.84	74.96
	5/3/2011	Insufficient Water - Not Sampled				23.00	73.80
	8/25/2011	<1.0	<1.0	13	<1.0	22.29	74.51
	11/22/2011	<1.0	<1.0	17	<1.0	22.48	74.32
	2/28/2012	<1.0	<1.0	12	<1.0	25.25	71.55
	5/25/2012	<1.0	<1.0	26	<1.0	25.20	71.60
	8/23/2012	<1.0	<1.0	12	<1.0	23.78	73.02
	11/15/2012	<1.0	<1.0	13	<1.0	PVC Blocked	NA
	2/16/2013	Dry - Not Sampled				Dry	NA
	5/21/2013	Dry - Not Sampled				Dry	NA
	8/28/2013	Dry - Not Sampled				Dry	NA
	11/15/2013	<1.0	<1.0	11.1	<1.0	22.49	74.37
	11/19/2013	Surveyed - Not Sampled				22.42	74.44
	2/14/2014	<1.0	<1.0	7.0	<1.0	23.08	73.72
	5/8/2014	<1.0	<1.0	2.5	<1.0	24.27	72.59
	7/31/2014	<1.0	<1.0	1.0	<1.0	22.95	73.91
	11/20/2014	<1.0	<1.0	<1.0	<1.0	21.99	74.87
	2/2/2015	<1.0	<1.0	1.3	<1.0	23.02	73.84
	5/8/2015	<1.0	<1.0	1.2	<1.0	23.60	73.26
	8/14/2015	<1.0	<1.0	3.0	<1.0	22.00	74.86
	2/23/2016	<1.0	<1.0	1.3	<1.0	23.30	73.56
	5/11/2016	<1.0	<1.0	1.0	<1.0	23.07	73.79
	8/19/2016	<1.00	<1.00	2.23	<1.00	22.54	74.32
	11/23/2016	<1.00	<1.00	1.51	<1.00	23.12	73.74
	2/10/2017	<1.00	<1.00	<1.00	<1.00	23.71	73.15
	5/2/2017	<1.00	<1.00	<1.00	<1.00	24.89	71.97
	8/10/2017	<1.00	<1.00	<1.00	<1.00	23.50	73.36
	11/13/2017	<1.00	<1.00	<1.00	<1.00	23.49	73.37



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FORT ST. VRAIN-4
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	2/5/2018	<1.00	<1.00	<1.00	<1.00	24.11	72.75
	5/9/2018	<1.00	<1.00	<1.00	<1.00	24.45	72.41
	8/16/2018	<1.00	<1.00	<1.00	<1.00	24.12	72.74
	11/15/2018	<1.00	<1.00	<1.00	<1.00	22.68	74.18
	2/19/2019	<1.00	<1.00	<1.00	9.93	23.98	72.88
	5/15/2019	<1.00	<1.00	<1.00	<1.00	24.25	72.61
	8/21/2019	<1.00	<1.00	<1.00	<1.00	23.05	73.81
	11/11/2019	<1.00	<1.00	<1.00	<1.00	22.71	74.15
	2/4/2020	<1.00	<1.00	<1.00	<1.00	22.83	74.03
	5/13/2020	<1.00	<1.00	<1.00	<1.00	22.63	74.23
	8/24/2020	<1.00	<1.00	<1.00	<1.00	22.32	74.54
<hr/>							
MW16	2/11/2009	29	<1.0	40	11	22.94	73.99
	5/21/2009	1.7	<1.0	21	2.8	22.78	74.15
	12/2/2009	2.4	<1.0	16	11	NM	NA
	2/23/2010	2.4	<1.0	53	<1.0	NM	73.81
	5/10/2010	15	<1.0	7.5	<1.0	NM	NA
	8/24/2010	<1.0	<1.0	2.9	<1.0	10.10	86.83
	11/17/2010	<1.0	<1.0	3.4	<1.0	19.57	77.36
	2/9/2011	<1.0	<1.0	13	3.1	22.23	74.70
	5/3/2011	Insufficient Water - Not Sampled				23.19	73.74
	8/25/2011	<1.0	<1.0	2.0	<1.0	22.50	74.43
	11/22/2011	1.9	<1.0	1.6	<1.0	22.78	74.15
	2/28/2012	<1.0	<1.0	1.2	<1.0	22.42	74.51
	5/25/2012	<1.0	<1.0	1.5	<1.0	19.50	77.43
	8/23/2012	<1.0	<1.0	<1.0	<1.0	23.90	73.03
	11/15/2012	<1.0	<1.0	1.8	15	23.48	73.45
	2/16/2013	Dry - Not Sampled				Dry	NA
	5/21/2013	Dry - Not Sampled				Dry	NA
	8/28/2013	<1.0	<1.0	7.6	<1.0	24.00	72.93
	11/15/2013	<1.0	<1.0	<1.0	<1.0	22.65	74.28
	11/19/2013	Surveyed - Not Sampled				22.42	74.39
	2/14/2014	<1.0	<1.0	1.0	<1.0	23.28	73.65
	5/8/2014	<1.0	<1.0	1.1	<1.0	24.30	72.51
	7/31/2014	<1.0	<1.0	2.5	<1.0	22.94	73.87
	11/20/2014	<1.0	<1.0	1.1	<1.0	21.92	74.89
	2/2/2015	<1.0	<1.0	1.2	<1.0	23.04	73.77
	5/8/2015	<1.0	<1.0	1.2	<1.0	23.61	73.20



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GROUNDWATER ANALYTICAL AND FIELD RESULTS
FORT ST. VRAIN-4
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	8/14/2015	<1.0	<1.0	<1.0	<1.0	22.03	74.78
	2/23/2016	<1.0	<1.0	1.7	<1.0	23.28	73.53
	5/11/2016	<1.0	<1.0	1.6	<1.0	23.52	73.29
	8/19/2016	<1.00	<1.00	<1.00	<1.00	22.63	74.18
	11/23/2016	<1.00	<1.00	1.17	<1.00	23.17	73.64
	2/10/2017	<1.00	<1.00	2.29	2.95	23.78	73.03
	5/2/2017	<1.00	<1.00	<1.00	<1.00	23.98	72.83
	8/10/2017	<1.00	<1.00	<1.00	<1.00	23.50	73.31
	11/13/2017	<1.00	<1.00	<1.00	<1.00	23.38	73.43
	2/5/2018	<1.00	<1.00	<1.00	<1.00	24.13	72.68
	5/9/2018	<1.00	<1.00	4.03	<1.00	24.38	72.43
	8/16/2018	<1.00	<1.00	<1.00	<1.00	24.07	72.74
	11/15/2018	<1.00	<1.00	<1.00	<1.00	23.71	73.10
	2/19/2019	<1.00	<1.00	<1.00	2.63	23.93	72.88
	5/15/2019	<1.00	<1.00	<1.00	<1.00	24.19	72.62
	8/21/2019	<1.00	<1.00	<1.00	<1.00	22.37	74.44
	11/11/2019	<1.00	<1.00	<1.00	<1.00	22.68	74.13
	2/4/2020	<1.00	<1.00	<1.00	<1.00	22.72	74.09
	5/13/2020	<1.00	<1.00	<1.00	<1.00	22.59	74.22
	8/24/2020	<1.00	<1.00	<1.00	<1.00	22.26	74.55
MW17	11/17/2010	<1.0	<1.0	<1.0	<1.0	19.43	77.18
	2/9/2011	Dry - Not Sampled				Dry	NA
	5/3/2011	Dry - Not Sampled				Dry	NA
	8/25/2011	Dry - Not Sampled				Dry	NA
	11/22/2011	Dry - Not Sampled				Dry	NA
	2/28/2012	Dry - Not Sampled				Dry	NA
	5/25/2012	Dry - Not Sampled				Dry	NA
	8/23/2012	Dry - Not Sampled				Dry	NA
	11/15/2012	Dry - Not Sampled				Dry	NA
	2/16/2013	Dry - Not Sampled				Dry	NA
	5/21/2013	Dry - Not Sampled				Dry	NA
	8/28/2013	Dry - Not Sampled				Dry	NA
	11/15/2013	Removed from monitoring				NM	NA
MW18	11/17/2010	Dry - Not Sampled				19.61	77.12
	2/9/2011	Dry - Not Sampled				Dry	NA
	5/3/2011	Dry - Not Sampled				Dry	NA



TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FORT ST. VRAIN-4
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	8/25/2011	Dry - Not Sampled				Dry	NA
	11/22/2011	Dry - Not Sampled				Dry	NA
	2/28/2012	Dry - Not Sampled				Dry	NA
	5/25/2012	Dry - Not Sampled				Dry	NA
	8/23/2012	Dry - Not Sampled				Dry	NA
	11/15/2012	Dry - Not Sampled				Dry	NA
	2/16/2013	Dry - Not Sampled				Dry	NA
	5/21/2013	Dry - Not Sampled				Dry	NA
	8/28/2013	Dry - Not Sampled				Dry	NA
	11/15/2013	Removed from monitoring				NM	NA

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

Corrected Relative GW Elev. is used when LNAPL is present.

BOLD = Analytical result is in exceedance of COGCC Table 910-1 groundwater standards.

 = Active remediation implementation period



November 18, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Fort St. Vrain #4

Project Number - KMG0420/WO #8833462

Attached are your analytical results for KMG - Fort St. Vrain #4 received by Origins Laboratory, Inc. November 11, 2019. This project is associated with Origins project number Y911169-01.

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01R2	Y911169-01	Water	November 11, 2019 11:10	11/11/2019 15:52
MW04R2	Y911169-02	Water	November 11, 2019 11:22	11/11/2019 15:52
MW05R3	Y911169-03	Water	November 11, 2019 11:35	11/11/2019 15:52
MW07R	Y911169-04	Water	November 11, 2019 11:48	11/11/2019 15:52
MW15	Y911169-05	Water	November 11, 2019 12:00	11/11/2019 15:52
MW16	Y911169-06	Water	November 11, 2019 12:15	11/11/2019 15:52

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

ORIGINS
LABORATORY, INC

1911169

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

Client: LT Environmental, Inc.		Project Manager: Brian Sulzberger		Project Number: KMG0420/WO #88334622	
Project: KMG - Fort St. Vrain #4		Sample Date		Sample Time	
Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By
					Container
					Analyses
01-001	MW01R2	Water	11-11-19	1110	3
02-001	MW04R2	Water		1122	3
03-001	MW05R3	Water		1135	3
04-001	MW07R	Water		1148	3
05-001	MW09	Water			3
06-001	MW10	Water			3
07-001	MW14B	Water			3
08-001	MW15	Water		1200	3
09-001	MW16	Water		1215	2

Relinquished By: *[Signature]* Date / Time: 11-11-19 1552
Received By: *[Signature]* Date / Time: 11-11-19 1552

Temperature on Receipt: 5.3
Turn Around Time: ☐ 72-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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y911169

Client: LTE

Client Project ID: Fort St. Vrain #4

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 11/12/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 5.3 °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: T003

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

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

Reviewed by (Project Manager) JG

Date/Time Reviewed 11/13/19

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

MW01R2

11/11/2019 11:10:00AM

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

Origins Laboratory, Inc.
Y911169-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K1301	KDK	11/13/2019	11/14/2019	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	99.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

MW04R2

11/11/2019 11:22:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y911169-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K1301	KDK	11/13/2019	11/14/2019	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	98.6 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

MW05R3

11/11/2019 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911169-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K1301	KDK	11/13/2019	11/14/2019	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 %	70-130	"	"	"
Surrogate: Toluene-d8	98.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.5 %	70-130	"	"	"

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

MW07R

11/11/2019 11:48:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911169-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K1301	KDK	11/13/2019	11/14/2019	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	98.4 %	70-130	"	"	"
Surrogate: Toluene-d8	99.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

MW15

11/11/2019 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y911169-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K1301	KDK	11/13/2019	11/14/2019	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 %	70-130	"	"	"
Surrogate: Toluene-d8	98.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

MW16

11/11/2019 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y911169-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K1301	KDK	11/13/2019	11/14/2019	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 %	70-130	"	"	"
Surrogate: Toluene-d8	99.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.9 %	70-130	"	"	"

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

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 B9K1301 - EPA 5030B (Water)

Blank (B9K1301-BLK1)

Prepared: 11/13/2019 Analyzed: 11/13/2019

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	63		"	62.5	101		70-130			
Surrogate: Toluene-d8	62		"	62.5	98.7		70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	101		70-130			

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

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 B9K1301 - EPA 5030B (Water)

LCS (B9K1301-BS1)

Prepared: 11/13/2019 Analyzed: 11/13/2019

Benzene	39.9	1.00	ug/L	50.0	79.8	70-130
Toluene	39.8	1.00	"	50.0	79.6	70-130
Ethylbenzene	38.0	1.00	"	50.0	76.0	70-130
m,p-Xylene	77.9	2.00	"	100	77.9	70-130
o-Xylene	39.9	1.00	"	50.0	79.8	70-130
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5	95.8	70-130
Surrogate: Toluene-d8	62		"	62.5	99.1	70-130
Surrogate: 4-Bromofluorobenzene	62		"	62.5	98.7	70-130

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

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 B9K1301 - EPA 5030B (Water)

Matrix Spike (B9K1301-MS1)		Source: Y911166-01			Prepared: 11/13/2019 Analyzed: 11/13/2019					
Benzene	38.3	1.00	ug/L	50.0	ND	76.6	70-130			
Toluene	39.4	1.00	"	50.0	ND	78.9	70-130			
Ethylbenzene	37.4	1.00	"	50.0	0.100	74.6	70-130			
m,p-Xylene	76.6	2.00	"	100	ND	76.6	70-130			
o-Xylene	38.1	1.00	"	50.0	ND	76.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		95.1	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	70-130			

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

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 B9K1301 - EPA 5030B (Water)

Matrix Spike Dup (B9K1301-MSD1)		Source: Y911166-01			Prepared: 11/13/2019 Analyzed: 11/13/2019					
Benzene	39.0	1.00	ug/L	50.0	ND	77.9	70-130	1.73	20	
Toluene	39.0	1.00	"	50.0	ND	77.9	70-130	1.17	20	
Ethylbenzene	35.2	1.00	"	50.0	0.100	70.1	70-130	6.26	20	
m,p-Xylene	68.7	2.00	"	100	ND	68.7	70-130	10.8	20	QM-07
o-Xylene	35.2	1.00	"	50.0	ND	70.3	70-130	8.10	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		95.1	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

Notes and Definitions

U Sample is Non-Detect.

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.



February 06, 2020

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Fort St. Vrain #4

Project Number - KMG0420/WO #8833462

Attached are your analytical results for KMG - Fort St. Vrain #4 received by Origins Laboratory, Inc. February 04, 2020. This project is associated with Origins project number Y002032-01.

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01R2	Y002032-01	Water	February 4, 2020 12:38	02/04/2020 16:50
MW04R2	Y002032-02	Water	February 4, 2020 13:53	02/04/2020 16:50
MW05R3	Y002032-03	Water	February 4, 2020 14:35	02/04/2020 16:50
MW07R	Y002032-04	Water	February 4, 2020 12:59	02/04/2020 16:50
MW09	Y002032-05	Water	February 4, 2020 13:27	02/04/2020 16:50
MW15	Y002032-06	Water	February 4, 2020 14:09	02/04/2020 16:50
MW16	Y002032-07	Water	February 4, 2020 13:10	02/04/2020 16:50
AW01	Y002032-08	Water	February 4, 2020 15:01	02/04/2020 16:50
AW04	Y002032-09	Water	February 4, 2020 14:49	02/04/2020 16:50

Origins Laboratory, Inc.



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

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

Brian Sulzberger
Project Number: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

ORIGINS
LABORATORY, INC

www.originslaboratory.com

Y002032

page 1 of 1

Client: LTE
Address: 4600 W 60th Ave
Arvada CO 80003
Telephone Number: 303-433-4788
Email Address: KMG Group

Project Manager: Brian Sulzberger
Project Name: Fort St. Vrain - 4
Project Number: KMG-0420
Samples Collected By: Brian Nicholas

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other		
MW01 R2	2/4/20	1338	3	/				/				BTEX	1
MW04 R2		1353	3	/				/					2
MW05 R3		1435	3	/				/					3
MW07 R		1259	3	/				/					4
MW09		1327	3	/				/					5
MW15		1409	3	/				/					6
MW16		1310	3	/				/					7
AW01		1501	3	/				/					8
AW04		1444	3	/				/					9
													10
Relinquished By: <u>[Signature]</u>	Date: <u>2/4/20</u>	Time: <u>1649</u>						Received By: <u>[Signature]</u>	Date: <u>2/4/20</u>	Time: <u>1650</u>		Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard	
Relinquished By: <u>[Signature]</u>	Date: <u>2/4/20</u>	Time: <u>1649</u>						Received By: <u>[Signature]</u>	Date: <u>2/4/20</u>	Time: <u>1650</u>			

Temp Received: 0.1 Date Results Needed

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 7002032

Client: LTE

Client Project ID: Fort St. Vrain #4

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 2/5/2020

Airbill #: N/A

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

Cooler Number/Temperature: 1 10.1 °C / °C / °C (Describe) °C

Thermometer ID: T003

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

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

Reviewed by (Project Manager) JG

Date/Time Reviewed 2/16/20

Origins Laboratory, Inc.

Jen Pellegrini

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

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

Brian Sulzberger
Project Number: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

MW01R2

2/4/2020 12:38:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002032-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0501	ZZZ	02/05/2020	02/05/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"
Surrogate: Toluene-d8	108 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.6 %	70-130	"	"	"

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

MW04R2

2/4/2020 1:53:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002032-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0501	ZZZ	02/05/2020	02/05/2020	U
Toluene	1.10	1.00	"	"	"	ZZZ	"	"	
Ethylbenzene	65.1	1.00	"	"	"	ZZZ	"	"	
Xylenes, total	6.48	1.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130			"	"	"	
Surrogate: Toluene-d8	130 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"	"	

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

MW05R3

2/4/2020 2:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002032-03 (Water)

BTEX by EPA 8260D

Benzene	1.60	1.00	ug/L	1	B0B0501	ZZZ	02/05/2020	02/05/2020	
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	36.1	1.00	"	"	"	ZZZ	"	"	
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130			"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

MW07R

2/4/2020 12:59:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002032-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0501	ZZZ	02/05/2020	02/05/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130			"	"	"
Surrogate: Toluene-d8	95.4 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

MW09

2/4/2020 1:27:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002032-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0501	ZZZ	02/05/2020	02/05/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130	"	"	"
Surrogate: Toluene-d8	99.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

MW15

2/4/2020 2:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002032-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0501	ZZZ	02/05/2020	02/05/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

MW16

2/4/2020 1:10:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002032-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0501	ZZZ	02/05/2020	02/05/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.6 %	70-130	"	"	"

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

AW01

2/4/2020 3:01:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y002032-08 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0501	ZZZ	02/05/2020	02/05/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130	"	"	"
Surrogate: Toluene-d8	108 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.5 %	70-130	"	"	"

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

AW04

2/4/2020 2:49:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y002032-09 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0B0501	ZZZ	02/05/2020	02/05/2020	U
Toluene	1.74	1.00	"	"	"	ZZZ	"	"	
Ethylbenzene	4.33	1.00	"	"	"	ZZZ	"	"	
Xylenes, total	1.28	1.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130			"	"	"		
Surrogate: Toluene-d8	155 %	70-130			"	"	"	S-04	
Surrogate: 4-Bromofluorobenzene	116 %	70-130			"	"	"		

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

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 B0B0501 - EPA 5030B (Water)										
Blank (B0B0501-BLK1)					Prepared: 02/05/2020 Analyzed: 02/05/2020					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	70-130			
Surrogate: Toluene-d8	59		"	62.5		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.5	70-130			

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

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 B0B0501 - EPA 5030B (Water)										
LCS (B0B0501-BS1)					Prepared: 02/05/2020 Analyzed: 02/05/2020					
Benzene	47.9	1.00	ug/L	50.0		95.8	70-130			
Toluene	45.0	1.00	"	50.0		90.0	70-130			
Ethylbenzene	48.0	1.00	"	50.0		95.9	70-130			
m,p-Xylene	94.8	2.00	"	100		94.8	70-130			
o-Xylene	48.7	1.00	"	50.0		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		102	70-130			

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

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 B0B0501 - EPA 5030B (Water)

Matrix Spike (B0B0501-MS1)		Source: Y002019-08			Prepared: 02/05/2020 Analyzed: 02/05/2020					
Benzene	59.2	1.00	ug/L	50.0	ND	118	70-130			
Toluene	61.3	1.00	"	50.0	ND	123	70-130			
Ethylbenzene	61.8	1.00	"	50.0	ND	124	70-130			
m,p-Xylene	120	2.00	"	100	0.230	120	70-130			
o-Xylene	62.7	1.00	"	50.0	ND	125	70-130			
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.8	70-130			

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

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 B0B0501 - EPA 5030B (Water)

Matrix Spike Dup (B0B0501-MSD1)		Source: Y002019-08			Prepared: 02/05/2020 Analyzed: 02/05/2020					
Benzene	62.7	1.00	ug/L	50.0	ND	125	70-130	5.74	20	
Toluene	60.8	1.00	"	50.0	ND	122	70-130	0.852	20	
Ethylbenzene	64.0	1.00	"	50.0	ND	128	70-130	3.45	20	
m,p-Xylene	126	2.00	"	100	0.230	125	70-130	4.48	20	
o-Xylene	63.0	1.00	"	50.0	ND	126	70-130	0.525	20	
Surrogate: 1,2-Dichloroethane-d4	68		"	62.5		108	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

Notes and Definitions

U Sample is Non-Detect.

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.

Origins Laboratory, Inc.



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



May 20, 2020

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Fort St. Vrain #4

Project Number - KMG0420/WO #8833462

Attached are your analytical results for KMG - Fort St. Vrain #4 received by Origins Laboratory, Inc. May 13, 2020. This project is associated with Origins project number Y005182-01.

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AW01	Y005182-01	Water	May 13, 2020 11:34	05/13/2020 16:25
AW04	Y005182-02	Water	May 13, 2020 10:31	05/13/2020 16:25
MW01R2	Y005182-03	Water	May 13, 2020 10:12	05/13/2020 16:25
MW04R2	Y005182-04	Water	May 13, 2020 11:23	05/13/2020 16:25
MW05R3	Y005182-05	Water	May 13, 2020 11:10	05/13/2020 16:25
MW07R	Y005182-06	Water	May 13, 2020 10:46	05/13/2020 16:25
MW09	Y005182-07	Water	May 13, 2020 11:57	05/13/2020 16:25
MW15	Y005182-08	Water	May 13, 2020 11:44	05/13/2020 16:25
MW16	Y005182-09	Water	May 13, 2020 10:57	05/13/2020 16:25

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

1005182

1 of 1

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

Client: LT Environmental, Inc. Proje KMG - Fort St. Vrain #4				Project Manager: Brian Sulzberger Project KMG0420WO #88334622				Number:				Sample Date				Matrix				Sample Type				Container				Qty				Analyses			
ct:	Number	Sample Identification	Matrix	Sample Date	Sample Type	Sample Type	Sample Type	Matrix	Sample Type	Sample Type	Sample Type	Container	Qty	Analyses	Sample Type	Sample Type																			
01-001	AW01	Water	Water	5-13-20	1031	1031	1031	Water	Water	Water	Water	40mL Amber VOA Vial - H	3	BTEX by EPA 8260C	Water	Water																			
02-001	AW04	Water	Water		1031	1031	1031	Water	Water	Water	Water	40mL Amber VOA Vial - H	3	BTEX by EPA 8260C	Water	Water																			
03-001	MW01R2	Water	Water		1012	1012	1012	Water	Water	Water	Water	40mL Amber VOA Vial - H	3	BTEX by EPA 8260C	Water	Water																			
04-001	MW04R2	Water	Water		1123	1123	1123	Water	Water	Water	Water	40mL Amber VOA Vial - H	3	BTEX by EPA 8260C	Water	Water																			
05-001	MW05R3	Water	Water		1110	1110	1110	Water	Water	Water	Water	40mL Amber VOA Vial - H	3	BTEX by EPA 8260C	Water	Water																			
06-001	MW07R	Water	Water		1046	1046	1046	Water	Water	Water	Water	40mL Amber VOA Vial - H	3	BTEX by EPA 8260C	Water	Water																			
07-001	MW09	Water	Water		1157	1157	1157	Water	Water	Water	Water	40mL Amber VOA Vial - H	3	BTEX by EPA 8260C	Water	Water																			
08-001	MW10	Water	Water					Water	Water	Water	Water	40mL Amber VOA Vial - H	3	BTEX by EPA 8260C	Water	Water																			
09-001	MW14R	Water	Water					Water	Water	Water	Water	40mL Amber VOA Vial - H	3	BTEX by EPA 8260C	Water	Water																			
10-001	MW15	Water	Water		1144	1144	1144	Water	Water	Water	Water	40mL Amber VOA Vial - H	3	BTEX by EPA 8260C	Water	Water																			
11-001	MW16	Water	Water		1057	1057	1057	Water	Water	Water	Water	40mL Amber VOA Vial - H	3	BTEX by EPA 8260C	Water	Water																			

Relinquished By: *[Signature]* Date / Time: 5/13/20 1625
Received By: *[Signature]* Date / Time: 5/13/20 1625
Temperature on Receipt: 3.40
Turn Around Time: ☐ 72-hr ☒ Standard ☐ 48-hr

Origins Laboratory, Inc.

[Signature]

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y005182

Client: LTE

Client Project ID: Fort St. Vrain #4

Checklist Completed by: JG

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

Date/time completed: 5/14/2020

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 3.4 °C 1 / 1 °C 1 / 1 °C (Describe)

Thermometer ID: T003

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

Jm
Reviewed by (Project Manager)

5-15-20
Date/Time Reviewed

Origins Laboratory, Inc.

Jordan A. Merrill

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

AW01

5/13/2020 11:34:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y005182-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0E1406	KDK	05/14/2020	05/19/2020	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 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

AW04

5/13/2020 10:31:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y005182-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0E1406	KDK	05/14/2020	05/19/2020	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	98.8 %	70-130	"	"	"
Surrogate: Toluene-d8	108 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

MW01R2

5/13/2020 10:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y005182-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0E1406	KDK	05/14/2020	05/19/2020	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	103 %	70-130			"	"	"

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

MW04R2

5/13/2020 11:23:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y005182-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0E1406	KDK	05/14/2020	05/19/2020	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	99.2 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

MW05R3

5/13/2020 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y005182-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0E1406	KDK	05/14/2020	05/19/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	1.48	1.00	"	"	"	KDK	"	"	
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	101 %	70-130			"	"	"

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

MW07R

5/13/2020 10:46:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y005182-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0E1406	KDK	05/14/2020	05/19/2020	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 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

MW09

5/13/2020 11:57:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y005182-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0E1406	KDK	05/14/2020	05/19/2020	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	99.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

MW15

5/13/2020 11:44:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y005182-08 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0E1406	KDK	05/14/2020	05/19/2020	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	98.3 %	70-130	"	"	"
Surrogate: Toluene-d8	99.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

MW16

5/13/2020 10:57:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y005182-09 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0E1406	KDK	05/14/2020	05/19/2020	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	95.4 %	70-130	"	"	"
Surrogate: Toluene-d8	99.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

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 B0E1406 - EPA 5030B (Water)

Blank (B0E1406-BLK1)

Prepared: 05/14/2020 Analyzed: 05/18/2020

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5	100		70-130			
Surrogate: Toluene-d8	62		"	62.5	99.4		70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	101		70-130			

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

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 B0E1406 - EPA 5030B (Water)

LCS (B0E1406-BS1)

Prepared: 05/14/2020 Analyzed: 05/18/2020

Benzene	49.4	1.00	ug/L	50.0		98.9	70-130			
Toluene	51.8	1.00	"	50.0		104	70-130			
Ethylbenzene	52.4	1.00	"	50.0		105	70-130			
m,p-Xylene	98.9	2.00	"	100		98.9	70-130			
o-Xylene	46.2	1.00	"	50.0		92.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.0	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

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 B0E1406 - EPA 5030B (Water)

Matrix Spike (B0E1406-MS1)		Source: Y005179-04			Prepared: 05/14/2020 Analyzed: 05/19/2020					
Benzene	54.9	1.00	ug/L	50.0	ND	110	70-130			
Toluene	52.4	1.00	"	50.0	ND	105	70-130			
Ethylbenzene	53.3	1.00	"	50.0	ND	107	70-130			
m,p-Xylene	101	2.00	"	100	ND	101	70-130			
o-Xylene	48.5	1.00	"	50.0	ND	97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.9	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

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 B0E1406 - EPA 5030B (Water)										
Matrix Spike Dup (B0E1406-MSD1)	Source: Y005179-04				Prepared: 05/14/2020 Analyzed: 05/19/2020					
Benzene	53.0	1.00	ug/L	50.0	ND	106	70-130	3.45	20	
Toluene	50.4	1.00	"	50.0	ND	101	70-130	3.87	20	
Ethylbenzene	51.6	1.00	"	50.0	ND	103	70-130	3.19	20	
m,p-Xylene	97.2	2.00	"	100	ND	97.2	70-130	3.49	20	
o-Xylene	47.2	1.00	"	50.0	ND	94.5	70-130	2.69	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.6	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		102	70-130			

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: KMG0420/WO #88334622
Project: KMG - Fort St. Vrain #4

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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



August 31, 2020

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Fort St. Vrain #4

Project Number - KMG0420/WO #GS-723

Attached are your analytical results for KMG - Fort St. Vrain #4 received by Origins Laboratory, Inc. August 24, 2020. This project is associated with Origins project number Y008340-01.

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: KMG0420/WO #GS-723
Project: KMG - Fort St. Vrain #4

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AW01	Y008340-01	Water	August 24, 2020 13:00	08/24/2020 16:10
AW04	Y008340-02	Water	August 24, 2020 13:15	08/24/2020 16:10
MW01R2	Y008340-03	Water	August 24, 2020 12:00	08/24/2020 16:10
MW04R2	Y008340-04	Water	August 24, 2020 12:08	08/24/2020 16:10
MW05R3	Y008340-05	Water	August 24, 2020 12:15	08/24/2020 16:10
MW07R	Y008340-06	Water	August 24, 2020 12:22	08/24/2020 16:10
MW09	Y008340-07	Water	August 24, 2020 12:30	08/24/2020 16:10
MW15	Y008340-08	Water	August 24, 2020 12:38	08/24/2020 16:10
MW16	Y008340-09	Water	August 24, 2020 12:45	08/24/2020 16:10

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: KMG0420/WO #GS-723
Project: KMG - Fort St. Vrain #4

ORIGINS
LABORATORY, INC

1008340

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

Client: LT Environmental, Inc. Project Manager: Brian Sulzberger
Project: KMG - Fort St. Vrain #4 Project Number: KMG0420/WO #8334622

Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analysis
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01-001	AW01	Water	8-24-20	1300	RS	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
02-001	AW04	Water		1315		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
03-001	MW01R2	Water		1206		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
04-001	MW04R2	Water		1208		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
05-001	MW05R3	Water		1215		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
06-001	MW07R	Water		1222		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
07-001	MW09	Water		1230		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
08-001	MW40	Water				40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
09-001	MW4R	Water				40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
10-001	MW15	Water		1238		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
11-001	MW16	Water		1245		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C

Temperature on Receipt: 6.0°
Turn Around Time:
Same Day: ☐ 72-hr: ☒
24-hr: ☐ Standard: ☐
48-hr: ☐

Relinquished By: [Signature] Date / Time: 8-24-20 1610
Received By: [Signature] Date / Time: 8-24-20 1610

Origins Laboratory, Inc.

[Signature]

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: KMG0420/WO #GS-723
Project: KMG - Fort St. Vrain #4

Origins Laboratory

Origins Work Order: Y008340

Checklist Completed by: JG KDK

Date/time completed: 08/25/20

Matrix(s) Received: (Check all that apply): Soil/Solid X Water 6 Other: _____

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

Thermometer ID: T003

Sample Receipt Checklist

Client: LTE

Client Project ID: Fort St Vrain 4

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

Airbill #: N/A

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

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"/>			
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)				
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)				
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⁾ ?				
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) JM

8-26-20
Date/Time Reviewed

Origins Laboratory, Inc.

Jordan A. Merrill

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: KMG0420/WO #GS-723
Project: KMG - Fort St. Vrain #4

AW01

8/24/2020 1:00:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y008340-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H2501	ZZZ	08/25/2020	08/26/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	91.6 %	70-130	"	"	"

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: KMG0420/WO #GS-723
Project: KMG - Fort St. Vrain #4

AW04

8/24/2020 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y008340-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H2501	ZZZ	08/25/2020	08/26/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"
Surrogate: Toluene-d8	117 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.6 %	70-130	"	"	"

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: KMG0420/WO #GS-723
Project: KMG - Fort St. Vrain #4

MW01R2

8/24/2020 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y008340-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H2501	ZZZ	08/25/2020	08/26/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	91.6 %	70-130			"	"	"

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: KMG0420/WO #GS-723
Project: KMG - Fort St. Vrain #4

MW04R2

8/24/2020 12:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y008340-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H2501	ZZZ	08/25/2020	08/26/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	1.39	1.00	"	"	"	ZZZ	"	"	
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"
Surrogate: Toluene-d8	98.8 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	94.3 %	70-130			"	"	"

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: KMG0420/WO #GS-723
Project: KMG - Fort St. Vrain #4

MW05R3

8/24/2020 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y008340-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H2501	ZZZ	08/25/2020	08/26/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"
Surrogate: Toluene-d8	99.3 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	92.9 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG0420/WO #GS-723
Project: KMG - Fort St. Vrain #4

MW07R

8/24/2020 12:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y008340-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H2501	ZZZ	08/25/2020	08/26/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"
Surrogate: Toluene-d8	99.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	91.2 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG0420/WO #GS-723
Project: KMG - Fort St. Vrain #4

MW09

8/24/2020 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y008340-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H2501	ZZZ	08/25/2020	08/26/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"
Surrogate: Toluene-d8	98.2 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	93.2 %	70-130			"	"	"

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: KMG0420/WO #GS-723
Project: KMG - Fort St. Vrain #4

MW15

8/24/2020 12:38:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y008340-08 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H2501	ZZZ	08/25/2020	08/26/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130	"	"	"
Surrogate: Toluene-d8	98.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	91.8 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG0420/WO #GS-723
Project: KMG - Fort St. Vrain #4

MW16

8/24/2020 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y008340-09 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0H2501	ZZZ	08/25/2020	08/26/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130	"	"	"
Surrogate: Toluene-d8	97.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.9 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG0420/WO #GS-723
Project: KMG - Fort St. Vrain #4

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 B0H2501 - EPA 5030B (Water)

Blank (B0H2501-BLK1)

Prepared: 08/25/2020 Analyzed: 08/26/2020

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	70		"	62.5	112		70-130			
Surrogate: Toluene-d8	61		"	62.5	98.1		70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5	92.5		70-130			

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: KMG0420/WO #GS-723
Project: KMG - Fort St. Vrain #4

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 B0H2501 - EPA 5030B (Water)

LCS (B0H2501-BS1)

Prepared: 08/25/2020 Analyzed: 08/26/2020

Benzene	57.0	1.00	ug/L	50.0	114	70-130
Toluene	56.5	1.00	"	50.0	113	70-130
Ethylbenzene	58.4	1.00	"	50.0	117	70-130
m,p-Xylene	117	2.00	"	100	117	70-130
o-Xylene	56.9	1.00	"	50.0	114	70-130
Surrogate: 1,2-Dichloroethane-d4	72		"	62.5	116	70-130
Surrogate: Toluene-d8	63		"	62.5	100	70-130
Surrogate: 4-Bromofluorobenzene	59		"	62.5	93.9	70-130

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: KMG0420/WO #GS-723
Project: KMG - Fort St. Vrain #4

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 B0H2501 - EPA 5030B (Water)

Matrix Spike (B0H2501-MS1)		Source: Y008340-03			Prepared: 08/25/2020 Analyzed: 08/26/2020					
Benzene	48.9	1.00	ug/L	50.0	ND	97.8	70-130			
Toluene	49.5	1.00	"	50.0	ND	99.0	70-130			
Ethylbenzene	49.8	1.00	"	50.0	ND	99.6	70-130			
m,p-Xylene	103	2.00	"	100	ND	103	70-130			
o-Xylene	51.9	1.00	"	50.0	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	73		"	62.5		117	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		90.8	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG0420/WO #GS-723
Project: KMG - Fort St. Vrain #4

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 B0H2501 - EPA 5030B (Water)

Matrix Spike Dup (B0H2501-MSD1)		Source: Y008340-03			Prepared: 08/25/2020 Analyzed: 08/26/2020					
Benzene	50.0	1.00	ug/L	50.0	ND	100	70-130	2.22	20	
Toluene	49.8	1.00	"	50.0	ND	99.6	70-130	0.624	20	
Ethylbenzene	50.2	1.00	"	50.0	ND	100	70-130	0.860	20	
m,p-Xylene	103	2.00	"	100	ND	103	70-130	0.748	20	
o-Xylene	52.9	1.00	"	50.0	ND	106	70-130	1.89	20	
Surrogate: 1,2-Dichloroethane-d4	72		"	62.5		116	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.8	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG0420/WO #GS-723
Project: KMG - Fort St. Vrain #4

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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