West Lake Landfill Baseline Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: West Lake Landfill Baseline Ambient Air Monitoring
Period Start: 5/31/14 6:00 AM
Period End: 6/6/14 6:00 AM

DAY: 6 AM to 6 PM
NIGHT: 6 PM to 6 AM

Statistics displayed: highest 8-hour time-weighted average occurring within the period

Station 1: Robertson Fire Protection Station 2, 3820 Taussig Road, Bridgeton, MO

Instrument	Analyte	TWA Period	Units	Sat 5/31		Sun 6/1		Mon 6/2		Tue 6/3		Wed 6/4		Thu 6/5		Fri 6/6	
				DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT
Area Rae	VOCs	8 hr	ppm	--	0.00	0.00	0.00	0.04	0.05	0.09	0.09	0.08	0.13	0.18	0.15	0.13	0.12
	CO	8 hr	ppm	--	0.35	0.33	0.27	0.27	0.13	0.09	0.04	0.00	0.00	0.00	0.00	0.00	0.00
	H_2S	8 hr	ppm	--	0.00	0.00	0.00	0.00	0.01	0.10	0.14	0.01	0.01	0.00	0.00	0.00	0.00
	SO_2	8 hr	ppm	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Genitron	Gamma	8 hr	µR/hr	--	10.4	10.5	10.5	10.9	10.8	10.7	11.2	11.7	10.3	10.0	10.5	10.6	11.0

Station 2: Pattonville Fire Department District, 13900 St. Charles Rock Road, Bridgeton, MO

Instrument	Analyte	TWA Period	Units	Sat 5/31		Sun 6/1		Mon 6/2		Tue 6/3		Wed 6/4		Thu 6/5		Fri 6/6	
				DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT
Area Rae	VOCs	8 hr	ppm	--	1.37	1.51	1.55	0.72	1.28	3.06	3.07	0.01	1.74	0.07	0.09	0.10	0.10
	CO	8 hr	ppm	--	0.46	0.50	0.51	0.22	0.34	0.54	0.54	0.42	0.43	0.39	0.47	0.60	0.63
	H_2S	8 hr	ppm	--	0.00	0.00	0.00	0.05	0.21	0.34	0.31	0.00	0.00	0.00	0.00	0.00	0.00
	SO_2	8 hr	ppm	--	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Genitron	Gamma	8 hr	µR/hr	--	9.0	9.3	9.1	9.2	9.4	9.5	9.4	9.8	9.3	9.2	9.2	9.4	9.4

Station 3: Pattonville Fire Department District Station 2, 3365 McKelvey Road, Bridgeton, MO

Instrument	Analyte	TWA Period	Units	Sat 5/31		Sun 6/1		Mon 6/2		Tue 6/3		Wed 6/4		Thu 6/5		Fri 6/6	
				DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT
Area Rae	VOCs	8 hr	ppm	--	1.55	1.65	1.67	1.38	1.54	3.85	3.25	0.00	0.00	0.00	0.00	0.00	0.00
	CO	8 hr	ppm	--	0.11	0.10	0.09	0.11	0.11	0.28	0.24	0.07	0.06	0.07	0.08	0.09	0.10
	H_2S	8 hr	ppm	--	1.22	1.39	1.41	1.17	1.25	1.16	1.36	1.16	1.15	1.05	1.07	1.40	1.12
	SO_2	8 hr	ppm	--	0.00	0.01	0.01	0.00	0.00	0.02	0.06	0.03	0.03	0.04	0.04	0.10	0.04
Genitron	Gamma	8 hr	µR/hr	--	11.0	10.9	10.9	11.2	11.3	11.0	11.1	11.8	11.2	10.6	10.8	11.0	11.9

Station 4: Spanish Village Park, 12827 Spanish Village Drive, Bridgeton, MO

Instrument	Analyte	TWA Period	Units	Sat 5/31		Sun 6/1		Mon 6/2		Tue 6/3		Wed 6/4		Thu 6/5		Fri 6/6	
				DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT
Area Rae	VOCs	8 hr	ppm	--	1.13	1.23	1.23	1.01	0.80	0.65	0.73	0.48	0.49	0.33	0.39	0.60	0.60
	CO	8 hr	ppm	--	0.33	0.29	0.24	0.26	0.21	0.06	0.08	0.05	0.04	0.06	0.12	0.15	0.08
	H_2S	8 hr	ppm	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	SO_2	8 hr	ppm	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Genitron	Gamma	8 hr	µR/hr	--	9.4	9.6	9.7	9.9	9.7	9.8	9.9	10.4	9.9	9.5	9.6	9.6	9.4

Station 5: St. Charles Fire Department Station #2, 1550 S. Main Street, St. Charles, MO

Instrument	Analyte	TWA Period	Units	Sat 5/31		Sun 6/1		Mon 6/2		Tue 6/3		Wed 6/4		Thu 6/5		Fri 6/6	
				DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT
Area Rae	VOCs	8 hr	ppm	--	0.00	0.04	0.04	0.00	0.00	0.00	0.66	2.14	0.23	0.00	0.00	0.70	0.96
	CO	8 hr	ppm	--	0.76	0.71	0.71	0.64	0.74	0.82	0.82	0.56	1.49	2.57	2.74	2.67	0.78
	H_2S	8 hr	ppm	--	1.49	1.95	2.02	1.47	1.65	2.08	1.94	0.00	9.87	9.56	4.75	3.82	0.00
	SO_2	8 hr	ppm	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Genitron	Gamma	8 hr	µR/hr	--	9.3	9.6	9.4	9.5	9.4	9.4	9.5	10.0	9.4	9.2	9.6	9.5	9.4

Hours of Intrusive Isolation Barrier Construction	*none*	*none*	*none*	*none*	*none*	*none*	*none*	*none*	*none*	*none*	*none*	*none*	*none*	*none*

Notes:

CO	Carbon monoxide	µR/hr	microRoentgen per hour	SO_2	Sulfur dioxide
H_2S	Hydrogen Sulfide	NA	Not Applicable	TWA	Time-weighted Average
$\mu g/m^3$	micrograms per cubic meter	ppm	Parts per million	VOC	Volatile organic compounds