

### Red Butte Creek Oil Release Air Monitoring Journal

Date	Location (Time)	Analyte	Method	Result	GPS Location	Comment		
9/16/10	Miller Park, along Red Butte Creek (1330-1345)	Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	0.0 ppm <sup>1</sup>	40°44'46.37"N, 111°50'48.60"W	~20 yards from outlet from Miller Park, 10 ft above creek		
				0.0 ppm <sup>1</sup>	40°44'46.60"N, 111°50'46.30"W	~50 yards from outlet, on edge of creek		
				0.0 ppm <sup>1</sup>	40°44'47.10"N, 111°50'45.55"W	~75 yards from outlet, 2 ft above creek		
				0.0 ppm <sup>1</sup>	40°44'47.72"N, 111°50'43.65"W	At waterfall on bridge, 12 ft above creek		
		Hydrogen Sulfide (H <sub>2</sub> S)	QRAEII	0.0 ppm <sup>2</sup>	No odor detected. Water levels were moderate. No crews working in this area.			
		Carbon Monoxide (CO)	QRAEII	0.0 ppm				
		Lower Explosive Limit (LEL)	QRAEII	0.0%				
	Confluence of Jordan River and Red Butte Creek (1230-1240)	Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	0.0 ppm <sup>1</sup>	40°44'29.75"N, 111°55'3.68"W	At inlet to Jordan River, 3 ft from water. No odors were detected. Brown/green film is built up around the barriers. No crews working in this area.		
				Hydrogen Sulfide (H <sub>2</sub> S)			QRAEII	0.0 ppm <sup>2</sup>
				Carbon Monoxide (CO)			QRAEII	0.0 ppm
				Lower Explosive Limit (LEL)			QRAEII	0.0%
	Garden Park Ward, 1140 East Harvard (1310-1315)	Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	0.0 ppm <sup>1</sup>	40°44'42.01"N, 111°51'29.60"W	No odor detected by technician. Water levels are moderate. No crews are working in this area.		
				Hydrogen Sulfide (H <sub>2</sub> S)			QRAEII	0.0 ppm <sup>2</sup>
Carbon Monoxide (CO)				QRAEII			0.0 ppm	
Lower Explosive Limit (LEL)				QRAEII			0.0%	

<sup>1</sup> PID readings for VOCs are used as a screening method to determine contaminants typically associated with crude oil. If high levels of VOCs are detected, additional sampling is conducted

<sup>2</sup> 10ppm Hydrogen Sulfide (ceiling) - NIOSH recommended exposure level

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9/16/10	1100 East Harvard (1320-1325)	Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	0.0 ppm <sup>1</sup>	40°44'42.1"N, 111°51'34.0"W	Sample taken at culvert opening.
		Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	0.0 ppm <sup>1</sup>		North of Harvard where Red Butte Creek goes underneath 1100 East. No odors detected by technician. Water level was moderate. No crews are working in the area.
		Hydrogen Sulfide (H <sub>2</sub> S)	QRAEII	0.0 ppm <sup>2</sup>		
		Carbon Monoxide (CO)	QRAEII	0.0 ppm		
		Lower Explosive Limit (LEL)	QRAEII	0.0%		
	Liberty Park (1245-1255)	Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	0.0 ppm <sup>1</sup>	In between 40°44'37.96"N, 111°52'25.29"W and 40°44'38.41"N, 111°52'21.04"W	Sampling along the north side of the lake. No odor was detected by technician. Crews were present around lake, but not working in the lake.
		Hydrogen Sulfide (H <sub>2</sub> S)	QRAEII	0.0 ppm <sup>2</sup>		
		Carbon Monoxide (CO)	QRAEII	0.0 ppm		
		Lower Explosive Limit (LEL)	QRAEII	0.0%		
	Residence of 580 East 1300 South (1255-1300)	Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	0.0 ppm <sup>1</sup>	40°44'29.6"N, 111°51'27.6"W	Sampling in the front yard of this residence NW side of lot. No odor was detected by technician.
		Hydrogen Sulfide (H <sub>2</sub> S)	QRAEII	0.0 ppm <sup>2</sup>		
		Carbon Monoxide (CO)	QRAEII	0.0 ppm		
Lower Explosive Limit (LEL)		QRAEII	0.0%			

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<b>Weather Conditions for:</b>		<b>K7PB Salt Lake City, UT (AS230)</b>			Elev: 4615 ft; Latitude: 40.73067; Longitude: -111.82667				
Time: (MDT)	Temp. (f)	Dew Point (f)	Relative Humidity (%)	Wind Direction	Wind Speed (mph)	Altimeter Setting (inches)	Station Pressure (inches)	Precip 24 hour (inches)	Quality Control
16 Sep 1:48 pm	85	40	20	SW	6G11	29.76	25.124	0.00	OK
16 Sep 1:37 pm	85	38	19	SW	6G10	29.76	25.124	0.00	OK
16 Sep 1:27 pm	85	43	23	S	4G07	29.76	25.124	0.00	OK
16 Sep 1:17 pm	84	45	26	SW	G05	29.78	25.141	0.00	OK
16 Sep 1:07 pm	83	41	23	SW	G03	29.78	25.141	0.00	OK
16 Sep 12:57 pm	83	46	27	SW	G04	29.79	25.150	0.00	OK
16 Sep 12:47 pm	82	41	23	SW	G04	29.80	25.159	0.00	OK
16 Sep 12:37 pm	81	41	24	SW	G04	29.80	25.159	0.00	OK
16 Sep 12:27 pm	80	40	24	SW	G04	29.80	25.159	0.00	OK
16 Sep 12:17 pm	80	41	25	SW	G04	29.81	25.167	0.00	OK
16 Sep 12:07 pm	80	44	28	SW	3G03	29.81	25.167	0.00	OK