

Red Butte Creek Oil Release Air Monitoring Journal

Date	Location (Time)	Analyte	Method	Result	GPS Location	Comment	
6/29/10	~1800 East Sunnyside Ave. (1100-1130)	Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	14.5-25.0 ppm ¹	Not Available	This location was downstream of cleanup crews. Crew was ~1/8 th of a mile away. Noticeable odor and visible sheen in water.	
		Hydrogen Sulfide (H ₂ S)	QRAEII	0.0 ppm ²			
		Carbon Monoxide (CO)	QRAEII	0.0 ppm			
		Lower Explosive Limit (LEL)	QRAEII	0.0%			
		Benzene	Draeger Tube	None Detected ³			
	Miller Park, along Red Butte Creek (1500-1515)	VOCs	PID	1.5-4.0 ppm ¹	40°44'46.37"N, 111°50'48.60"W	~20 yards from outlet from Miller Park, 10 ft above creek	
				1.5-4.0 ppm ¹	40°44'46.60"N, 111°50'46.30"W	~50 yards from outlet, on edge of creek	
				4.0-6.0 ppm ¹	40°44'47.10"N, 111°50'45.55"W	~75 yards from outlet, 2 ft above creek	
				4.0-6.5 ppm ¹	40°44'47.72"N, 111°50'43.65"W	At waterfall on bridge, 12 ft above creek	
		Hydrogen Sulfide (H ₂ S)	QRAEII	0.0 ppm ²	At all locations along Red Butte Creek at Miller Park. There were no workers scrubbing the creek. Odors were moderate in this area and stronger at the waterfall. Sheen visible in water.		
		Carbon Monoxide (CO)	QRAEII	0.0 ppm			
		Lower Explosive Limit (LEL)	QRAEII	0.0%			
	Confluence of Jordan River and Red Butte Creek (1040-1050)	Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	0.0 ppm ¹	40°44'29.75"N, 111°55'3.68"W	At inlet to Jordan River, 3 ft from water. No odors were detected, and no crews working.	
		Hydrogen Sulfide (H ₂ S)	QRAEII	0.0 ppm ²			
Carbon Monoxide (CO)		QRAEII	0.0 ppm				
Lower Explosive Limit (LEL)		QRAEII	0.0%				

¹ 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

² 10ppm Hydrogen Sulfide (ceiling) - NIOSH recommended exposure level

³ 0.5 ppm Benzene- 29 CFR 1910.1028

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6/29/10	Garden Park Ward, 1140 East Harvard (1445-1450)	Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	0.0 ppm ¹	40°44'42.01"N, 111°51'29.60"W	At the creek's edge. There were workers in the creek. No odor detected by technician on bridge near the entrance or along creek.
		Hydrogen Sulfide (H ₂ S)	QRAEII	0.0 ppm ²		
		Carbon Monoxide (CO)	QRAEII	0.0 ppm		
		Lower Explosive Limit (LEL)	QRAEII	0.0%		
	1100 East Harvard (1453-1458)	Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	0.2 ppm ¹	40°44'42.1"N, 111°51'34.0"W	Sample taken at culvert opening.
		Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	0.6 ppm ¹		North of Harvard where Red Butte Creek goes underneath 1100 East. Faint odors detected by technician.
		Hydrogen Sulfide (H ₂ S)	QRAEII	0.0 ppm ²		
		Carbon Monoxide (CO)	QRAEII	0.0 ppm		
		Lower Explosive Limit (LEL)	QRAEII	0.0%		
	Liberty Park (1425-1440)	Volatile Organic Compounds (VOCs)	Photo Ionization Detector (PID)	0.0 ppm ¹	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.
		Hydrogen Sulfide (H ₂ S)	QRAEII	0.0 ppm ²		
		Carbon Monoxide (CO)	QRAEII	0.0 ppm		
		Lower Explosive Limit (LEL)	QRAEII	0.0%		

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Weather Conditions for:	K7PB Salt Lake City, UT (AS230)				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
29 Jun 3:38 pm	91	46	21	SW	4G14	29.56	24.950	0.00	Caution
29 Jun 3:28 pm	92	45	20	SSW	5G14	29.55	24.941	0.00	Caution
29 Jun 3:18 pm	93	46	20	S	6G14	29.55	24.941	0.00	Caution
29 Jun 3:08 pm	93	49	22	SSE	5G10	29.55	24.941	0.00	Caution
29 Jun 2:58 pm	92	45	20	SSE	1G18	29.54	24.932	0.00	Caution
29 Jun 2:48 pm	94	46	19	SSE	8G18	29.52	24.915	0.00	Caution
29 Jun 2:38 pm	95	48	20	S	2G18	29.52	24.915	0.00	Caution
29 Jun 2:28 pm	94	51	23	SW	6G18	29.54	24.932	0.00	Caution
29 Jun 2:18 pm	94	46	19	S	9G18	29.54	24.932	0.00	Caution
29 Jun 2:08 pm	94	47	20	S	6G18	29.55	24.941	0.00	Caution
29 Jun 1:58 pm	94	47	20	S	7G22	29.56	24.950	0.00	Caution
29 Jun 1:48 pm	93	45	19	S	10G22	29.56	24.950	0.00	Caution
29 Jun 1:38 pm	94	47	20	WNW	5G22	29.57	24.958	0.00	Caution
29 Jun 1:28 pm	94	47	20	SSE	7G22	29.57	24.958	0.00	Caution
29 Jun 1:18 pm	93	46	20	S	6G22	29.56	24.950	0.00	Caution
29 Jun 1:08 pm	93	46	20	SW	9G15	29.56	24.950	0.00	Caution
29 Jun 12:58 pm	93	46	20	S	15G17	29.59	24.976	0.00	Caution
29 Jun 12:48 pm	92	48	22	S	3G16	29.59	24.976	0.00	Caution
29 Jun 12:38 pm	91	48	23	SSW	4G16	29.60	24.984	0.00	Caution
29 Jun 12:28 pm	91	47	22	S	2G16	29.61	24.993	0.00	Caution
29 Jun 12:18 pm	92	47	21	S	3G12	29.59	24.976	0.00	Caution
29 Jun 12:08 pm	92	55	29	E	G04	29.60	24.984	0.00	Caution
29 Jun 11:58 am	92	48	22	SE	2G06	29.60	24.984	0.00	Caution
29 Jun 11:48 am	90	47	23	W	G06	29.61	24.993	0.00	Caution
29 Jun 11:38 am	91	50	25	SE	G06	29.61	24.993	0.00	Caution
29 Jun 11:28 am	90	48	24	S	2G06	29.61	24.993	0.00	Caution
29 Jun 11:18 am	90	48	24	SW	2G06	29.61	24.993	0.00	Caution
29 Jun 11:08 am	90	54	29	S	1G06	29.60	24.984	0.00	Caution
29 Jun 10:58 am	90	52	27	SSW	2G04	29.60	24.984	0.00	Caution
29 Jun 10:48 am	89	51	27	SSW	1G03	29.60	24.984	0.00	Caution
29 Jun 10:38 am	89	51	27	SSW	3G03	29.60	24.984	0.00	Caution
29 Jun 10:28 am	89	50	26	WSW	G03	29.60	24.984	0.00	Caution

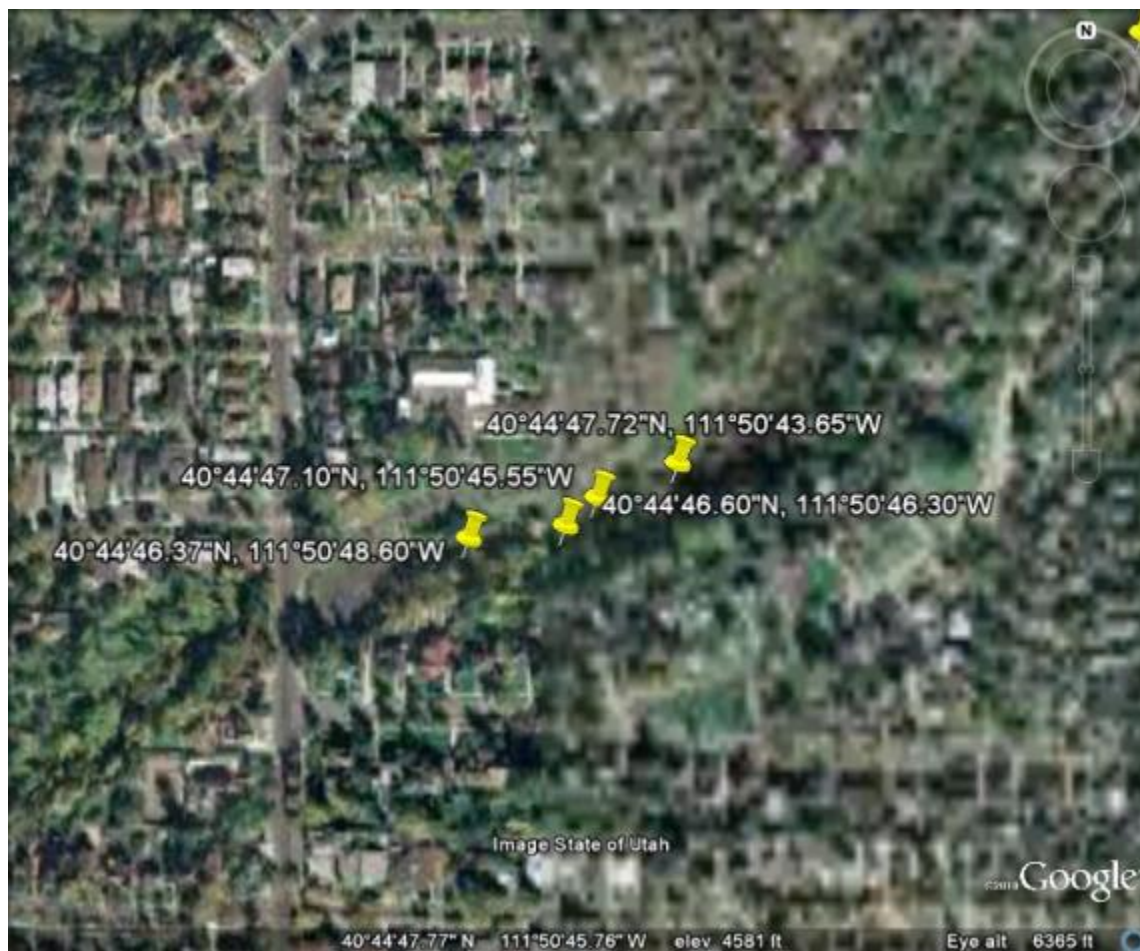
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Liberty Park Sample Sites



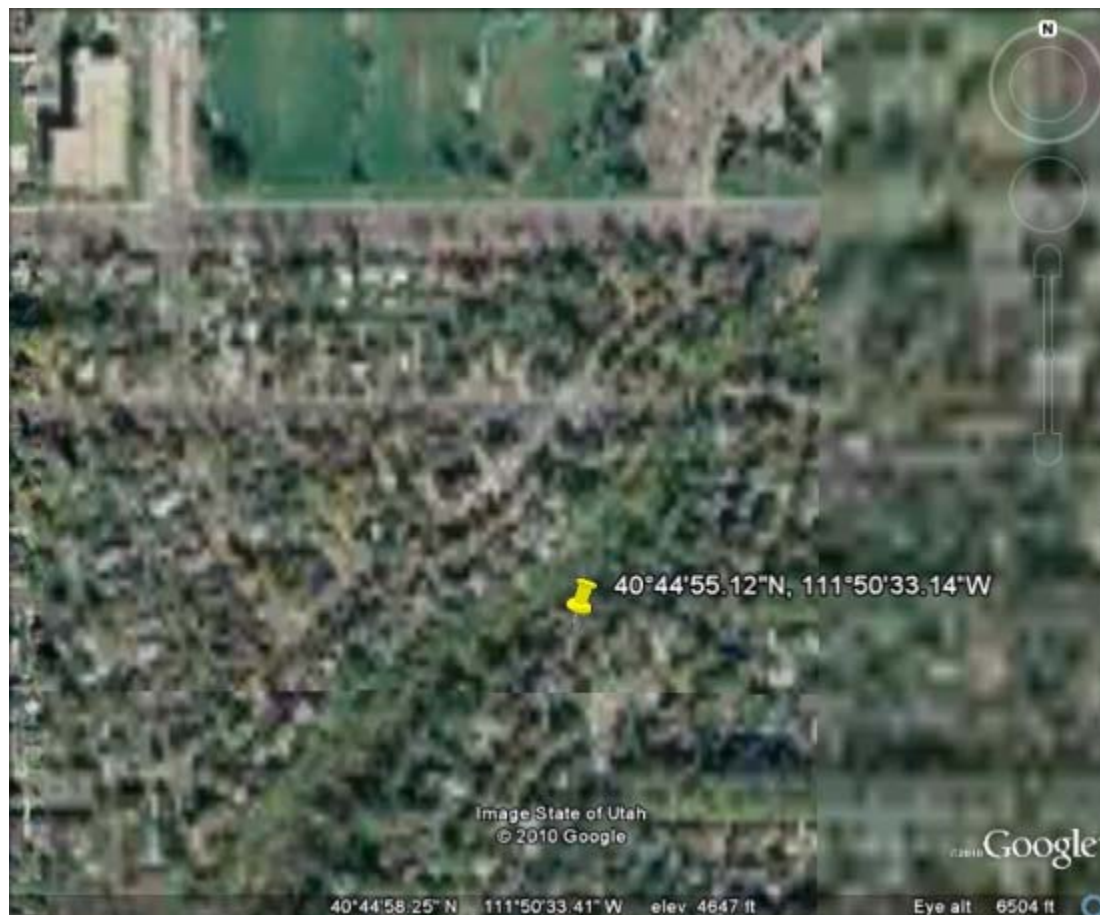
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Miller Park Sample Sites



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Resident Sample Site at 966 Military



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Garden Ward Sample Site at 11th East and Harvard



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Sample Site at the Jordan River Confluence

