

Blake Wells LGE Design Build

1200 N. 52nd St, Phoenix, AZ 85008

SL1801 RDH Flow Study, 1 site total in Scottsdale, AZ from Friday 12-13-24 to Monday 12-23-24.

Equipment for Site: Hach 901 Logger with Flo-Dar Sensor (Area Velocity).

The equipment was installed on Friday, 12/13/24 with confined space entry, pipe size confirmed, sensor

calibrated, and level depth confirmed to the flow level.

Duration of monitoring: 10 days

Monitor: Flow (gpm), Level (in), and Velocity (fps)

Data logging: 5-minute intervals (No averaged intervals)

Calibration Performed: Calibration method using 12.00-inch target.

Target Measure: 12.00 in Meter Read: 12.02 in 12/13/2024 7:15 am

Meter Validation: PASSED

MH1 located at E. Bahia Dr. North of E. Westworld Dr.

72" Diameter, Rim to Invert: 206.00 inches

25" PVC pipe, flowing East.

No Lateral(s).

The pipe condition is intact with a thin layer of scum on the walls.

Scum line of 9.00 inches

Flo-Dar installed pointing upstream in the 25" pipe channel.

Flow Data is valid having no missing, erroneous, or anomalies with data.

Attached is a MS Excel summary showing level, velocity, and flow logged at 5-minute intervals during the monitoring period.

RDH Environmental Services
Jeff Schulte
Operations Manager
servicemanager@rdh-env.com



Pictures:









Period Summaries:

LGE COS MH1 Period Summary: Flow												
Measures	Value	Unit	Date	Time								
Max.	978.72	gpm	Saturday, December 21, 2024	11:15 AM								
Min.	248.31	gpm	Saturday, December 14, 2024	6:15 AM								
Avg.	597.64	gpm										
Total	8,620,956.71	gal										

LGE COS MH1 Period Summary: Level												
Measures	Value	Unit	Date	Time								
Max.	10.05	in	Sunday, December 22, 2024	11:20 AM								
Min.	5.08	in	Sunday, December 15, 2024	6:40 AM								
Avg.	7.85	in										

LGE COS MH1 Period Summary: Velocity													
Measures	Value	Unit	Date	Time									
Max.	1.76	fps	Thursday, December 19, 2024	7:50 AM									
Min.	0.97	fps	Friday, December 13, 2024	7:30 AM									
Avg.	1.42	fps											

^{*}Data begins at 7:25 am on December 13th and ends at 7:50 am on December 23rd.



Site Map:



CONFINED SPACE ENTRY PERMIT

ALL COPIES OF PERMIT WILL REMAIN AT JOB SITE UNTIL JOB IS COMPLETED

LOCATION/DESCRIPTION OF CON	FINED SPACE	SL	180	1 M	LHI					DATE	12	1131	24		
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Resucitator - Inhalator	,		1	Respirato	r					To					
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^ of L.F.L.* (Gas/Vapor/Mist)	Less than 10	%			0	0	6								
Carbon Monoxide	35 ppm (8 hr	.)			0	Ö	٥.								
Aromatic Hydrocarbon	1 ppm (8 hr.)		· · · · · ·		10	16	O	,							
Hydrogen Sulfide	10 ppm (8 hr		1		0	(S)	0								
Sulfur Dioxide	2 ppm (8 hr.)				8	1	6								
Ammonia	25 ppm (8 hr	.)			0	0	Ô								
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RDH Environmental Servi	ces (602) 381-	1960						DA							

CONFINED SPACE ENTRY PERMIT

ALL COPIES OF PERMIT WILL REMAIN AT JOB SITE UNTIL JOB IS COMPLETED

LOCATION/DESCRIPTION OF CONFINED SPACE LGE Design								DATE 12/23/24							
PURPOSE OF ENTRY Removal of Flow Study								•	TIME		1:3	oan			
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^ of L.F.L.* (Gas/Vapor/Mist)	Less than 109			<u> </u>	0	0									
Carbon Monoxide	35 ppm (8 hr.				0	0				\vdash					
Aromatic Hydrocarbon 1 ppm (8 hr.)			 	 	0	0	<u> </u>	,		 					
Hydrogen Sulfide	10 ppm (8 hr.			<u> </u>	0	0				 					
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IN CASE OF AN EMERGENCY CALL 911							10	1/2 DA	3/2	4		2	illan	1	
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