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March 23, 2017

*Delivered via Electronic Mail and FedEx Overnight Delivery*

Ms. Bobbi Coleman  
South Carolina Department of Health and Environmental Control (SCDHEC)  
Assessment Section, UST Management Division  
Bureau of Land and Waste Management  
2600 Bull Street  
Columbia, SC 29201

Subject: Lewis Drive – Weekly Startup Status Update for Week 2, March 14-20, 2017  
Plantation Pipe Line Company  
Belton, South Carolina  
Site ID #18693, “Kinder Morgan Belton Pipeline Release”

Dear Ms. Coleman,

On behalf of Plantation Pipe Line Company, CH2M HILL Engineers, Inc. (CH2M) is submitting the attached weekly update for Week 2 biosparging startup activities conducted between March 14 and March 20, 2017. The biosparging system was turned on March 6, 2017. On March 14, 2017, the flow rate was increased to 2 standard cubic feet per minute in each of the vertical sparging wells and in the two diffusion aerators in Brown’s Creek. Per the Startup Plan for Surface Water Protection Measures, Revision 2 (dated February 23, 2017, and approved by SCDHEC on March 1, 2017), a pulsing sequence was used in the vertical sparging wells, while the diffusion aerators were run continuously.

Monitoring was performed according to the Startup Plan. In addition to the raw analytical data, the following summary tables are included with this submittal:

- Fixed air monitoring readings (Table 1). The fixed air monitoring station near the sparging curtain in the Brown’s Creek Protection Zone recorded levels of volatile organic compounds (VOCs) above the action level of 5 parts per million (5 ppm) for a few 10-minute time periods in the early mornings of March 16, 17, and 20. These elevated readings each coincide with the initial cycling on of the pulsed Brown’s Creek sparging curtain at midnight and relatively low temperatures (less than 50 degrees Fahrenheit). Low temperatures overnight tend to cause thermal inversions, in which cold, dense air stays close to the ground surface, and air mixing is limited. Air monitoring will continue, and these readings are not cause for concern.
- Mobile air monitoring readings (Table 2). As shown, mobile air monitoring has not detected VOCs above action levels since system startup to present date.
- Air monitoring calibration results (Table 3)
- Weather observations (Table 4)
- Groundwater elevation and product thickness data (Table 5)
- Analytical results for groundwater (Table 6)
- Analytical results for surface water (Table 7)

Also included in this submittal are lab analytical reports for groundwater and surface water samples collected at the site during this time period.

If you have any questions or concerns, please call me at 919-760-1777, Mr. Scott Powell/CH2M at 678-530-4457, or Mr. Jerry Aycock/Plantation at 770-751-4165.

Regards,  
CH2M HILL Engineers, Inc.



William M. Waldron, P.E.  
Senior Project Manager

Attachments:

- Table 1 – Summary of Fixed Air Monitoring Readings
- Table 2 – Summary of Mobile Air Monitoring Readings
- Table 3 – Summary of Air Monitoring Calibration Results
- Table 4 – Summary of Weather Observations
- Table 5 – Groundwater Elevation and Product Thickness Data
- Table 6 – Analytical Results for Groundwater
- Table 7 – Analytical Results for Surface Water
- Groundwater Analytical Lab Reports
- Surface Water Analytical Lab Reports
- Air Monitoring Output

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Tables

**Table 1. Summary of Fixed Air Monitoring Readings**

Plantation Pipe Line Company

Lewis Drive Remediation, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location/ Start Date	Start Time	End Date	End Time	Number of data points	Volatile Organic Compounds (VOCs, ppm)			% Lower Explosive Limit (% LEL)			Hydrogen Sulfide (H <sub>2</sub> S, ppm)			Note	
					Minimum	Average	Peak	Minimum	Average	Peak	Minimum	Average	Peak		
<b>Cupboard Creek Fixed Monitoring Station (RT-1)</b>															
2/9/2017	12:13	2/10/2017	12:03	144	0.0	0.1	35.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Vaccing from RT-1 in the vicinity at time of peak reading
2/10/2017	12:13	2/11/2017	12:03	144	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/11/2017	12:13	2/12/2017	12:03	144	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/12/2017	12:13	2/13/2017	12:03	47	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/13/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
2/14/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
2/15/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
2/16/2017	14:01	2/16/2017	14:11	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/17/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
2/18/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
2/19/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
2/20/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
2/21/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
2/22/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
2/23/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
2/24/2017	10:43	2/25/2017	11:38	1444	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/25/2017	11:39	2/26/2017	11:38	1440	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/26/2017	11:39	2/27/2017	11:39	1441	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/27/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
2/28/2017	14:49	3/1/2017	14:39	144	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/1/2017	14:49	3/2/2017	10:19	118	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/2/2017	10:54	3/3/2017	16:34	35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/3/2017	16:00	3/4/2017	15:50	144	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/4/2017	16:00	3/5/2017	15:50	144	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/5/2017	16:00	3/6/2017	11:00	115	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/6/2017	11:18	3/7/2017	11:08	144	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/7/2017	11:18	3/8/2017	9:29	133	0.0	0.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/8/2017	9:43	3/8/2017	16:33	42	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/10/2017	9:39	3/11/2017	9:29	144	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/11/2017	9:39	3/12/2017	10:29	144	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/12/2017	10:39	3/13/2017	10:29	144	0.0	0.2	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/13/2017	10:39	3/13/2017	13:09	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/13/2017	13:13	3/14/2017	13:03	144	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/14/2017	13:13	3/15/2017	13:03	144	0.0	0.2	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/15/2017	13:13	3/16/2017	13:03	144	0.0	0.1	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/16/2017	13:19	3/17/2017	13:09	144	0.0	0.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/17/2017	13:19	3/18/2017	13:09	144	0.0	0.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/18/2017	13:19	3/19/2017	13:09	144	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/19/2017	13:19	3/20/2017	12:39	141	0.0	0.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

**Table 1. Summary of Fixed Air Monitoring Readings**

Plantation Pipe Line Company

Lewis Drive Remediation, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location/ Start Date	Start Time	End Date	End Time	Number of data points	Volatile Organic Compounds (VOCs, ppm)			% Lower Explosive Limit (% LEL)			Hydrogen Sulfide (H <sub>2</sub> S, ppm)			Note
					Minimum	Average	Peak	Minimum	Average	Peak	Minimum	Average	Peak	
<b>Brown's Creek Fixed Monitoring Station (RT-2)</b>														
2/9/2017	9:22	2/10/2017	9:12	144	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	
2/10/2017	9:22	2/11/2017	9:12	144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/11/2017	9:22	2/12/2017	9:12	144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/12/2017	9:22	2/12/2017	16:52	46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/13/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
2/14/2017	15:14	2/15/2017	15:04	144	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
2/15/2017	15:14	2/16/2017	10:24	116	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/16/2017	13:20	2/16/2017	13:20	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/17/2017	12:21	2/18/2017	12:11	144	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	
2/18/2017	12:21	2/19/2017	12:11	144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/19/2017	12:21	2/20/2017	11:21	139	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/20/2017	11:46	2/21/2017	12:10	146	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/21/2017	12:20	2/22/2017	12:10	144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/22/2017	12:20	2/23/2017	11:40	141	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/23/2017	12:00	2/24/2017	6:20	111	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/24/2017	11:33	2/25/2017	11:23	144	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
2/25/2017	11:33	2/26/2017	11:23	144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2/26/2017	11:33	2/27/2017	11:13	143	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	
2/27/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
2/28/2017	11:35	3/1/2017	13:00	153	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/1/2017	13:10	3/2/2017	11:00	132	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/2/2017	11:24	3/3/2017	11:14	144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/3/2017	11:24	3/4/2017	16:44	173	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	
3/4/2017	16:24	3/5/2017	16:14	144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/5/2017	16:24	3/6/2017	11:14	114	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	
3/6/2017	11:32	3/7/2017	11:22	144	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	System started up 3/6/2017
3/7/2017	11:32	3/8/2017	9:12	131	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/8/2017	9:28	3/9/2017	9:18	144	0.0	0.3	6.1	0.0	0.0	0.0	0.0	0.0	0.0	The 10-minute time-weighted average around the VOC peak measurement during this timeframe was 0.3 ppm VOCs.
3/9/2017	9:28	3/10/2017	9:18	144	0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	The 10-minute time-weighted average around the VOC peak measurement during this timeframe was 2.2 ppm VOCs.
3/10/2017	9:28	3/11/2017	9:55	145	0.0	0.1	5.9	0.0	0.0	0.0	0.0	0.0	0.0	The 10-minute time-weighted average around the VOC peak measurement during this timeframe was 0.4 ppm VOCs.
3/11/2017	10:05	3/12/2017	10:55	144	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	Daylight saving time adjusted at 2:00 AM
3/12/2017	11:05	3/13/2017	10:55	144	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	
3/13/2017	11:05	3/13/2017	12:55	12	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/13/2017	13:26	3/14/2017	13:16	144	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	
3/14/2017	13:26	3/15/2017	13:16	144	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	
3/15/2017	13:26	3/16/2017	13:16	144	0.0	0.7	14.5	0.0	0.0	0.0	0.0	0.0	0.0	The highest 10-minute time-weighted average VOC measurement during this timeframe was 5.9 ppm. The peak measurements coincided with the cycling on of the pulsed sparging curtain at Brown's Creek and low early morning temperatures and lasted no longer than 10 minutes.

**Table 1. Summary of Fixed Air Monitoring Readings**

Plantation Pipe Line Company

Lewis Drive Remediation, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location/ Start Date	Start Time	End Date	End Time	Number of data points	Volatile Organic Compounds (VOCs, ppm)			% Lower Explosive Limit (% LEL)			Hydrogen Sulfide (H <sub>2</sub> S, ppm)			Note
					Minimum	Average	Peak	Minimum	Average	Peak	Minimum	Average	Peak	
3/16/2017	13:26	3/17/2017	13:31	145	0.0	0.6	20.2	0.0	0.0	0.0	0.0	0.0	0.0	The highest 10-minute time-weighted average VOC measurement during this timeframe was 8.3 ppm. The peak measurements coincided with the cycling on of the pulsed sparging curtain at Brown's Creek and low early morning temperatures and lasted no longer than 20 minutes.
3/17/2017	13:41	3/18/2017	13:31	144	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/18/2017	13:41	3/19/2017	13:31	144	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	
3/19/2017	13:41	3/20/2017	13:01	141	0.0	0.8	12.0	0.0	0.0	0.0	0.0	0.0	0.0	The highest 10-minute time-weighted average VOC measurement during this timeframe was 5.9 ppm. The peak measurements coincided with the cycling on of the pulsed sparging curtain at Brown's Creek and low early morning temperatures and lasted no longer than 40 minutes.

Notes:

Readings collected with a MultiRAE PGM-6228 calibrated with 1 ppm hydrogen sulfide and 10 ppm isobutylene calibration gases.

H<sub>2</sub>S = hydrogen sulfide

LEL = lower explosive limit

ppm = parts per million

VOC = volatile organic compound

NC = not collected due to battery/equipment failure

**Table 2. Summary of Mobile Air Monitoring Readings**

*Plantation Pipe Line Company*

*Lewis Drive Remediation, Belton, South Carolina*

*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Location/ Date	Time	Volatile Organic Compounds (VOCs, ppm)			% Lower Explosive Limit (% LEL)			Hydrogen Sulfide (H <sub>2</sub> S, ppm)			Note
		Minimum	Average	Peak	Minimum	Average	Peak	Minimum	Average	Peak	
<b>SW-03</b>											
3/2/2017	16:19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	System started up 3/6/2017
3/3/2017	15:59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/4/2017	14:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/5/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/6/2017	14:10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/7/2017	9:03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/7/2017	13:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/8/2017	11:12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	9:14	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/10/2017	10:05	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/11/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/12/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/13/2017	10:01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/16/2017	13:59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/18/2017	12:49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/20/2017	12:57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
<b>SW-06</b>											
3/2/2017	15:39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	System started up 3/6/2017
3/3/2017	14:59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/4/2017	15:40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/5/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/6/2017	13:25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/7/2017	11:04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/8/2017	10:27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	10:08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	12:54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/10/2017	12:21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/11/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/12/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/13/2017	11:18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/16/2017	13:01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/18/2017	13:32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/20/2017	12:27	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	

**Table 2. Summary of Mobile Air Monitoring Readings**

*Plantation Pipe Line Company*

*Lewis Drive Remediation, Belton, South Carolina*

*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Location/ Date	Time	Volatile Organic Compounds (VOCs, ppm)			% Lower Explosive Limit (% LEL)			Hydrogen Sulfide (H <sub>2</sub> S, ppm)			Note
		Minimum	Average	Peak	Minimum	Average	Peak	Minimum	Average	Peak	
<b>SW-12</b>											
3/2/2017	16:37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	System started up 3/6/2017
3/3/2017	16:18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/4/2017	15:18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/5/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/6/2017	12:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/7/2017	8:45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/7/2017	12:42	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	
3/8/2017	11:30	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	8:53	0.0	0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	13:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/10/2017	10:22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/11/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/12/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/13/2017	9:41	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	
3/16/2017	9:59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/18/2017	12:13	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	
3/20/2017	9:14	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	
<b>Brown's Creek under Lewis Dr</b>											
3/2/2017	17:14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	System started up 3/6/2017
3/3/2017	14:12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/4/2017	15:58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/5/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/6/2017	14:46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/6/2017	16:08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/7/2017	9:42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/7/2017	13:40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/8/2017	12:13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	11:52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	13:50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/10/2017	12:43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/11/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/12/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/13/2017	13:40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/16/2017	14:17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/18/2017	14:52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/20/2017	13:31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	



**Table 2. Summary of Mobile Air Monitoring Readings**

Plantation Pipe Line Company

Lewis Drive Remediation, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location/ Date	Time	Volatile Organic Compounds (VOCs, ppm)			% Lower Explosive Limit (% LEL)			Hydrogen Sulfide (H <sub>2</sub> S, ppm)			Note
		Minimum	Average	Peak	Minimum	Average	Peak	Minimum	Average	Peak	
<b>Vertical sparge well cluster at Brown's Creek (includes MW-40)</b>											
3/2/2017	16:54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	System started up 3/6/2017
3/3/2017	16:51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/4/2017	14:53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/5/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/6/2017	14:27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/6/2017	15:48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/7/2017	9:23	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/7/2017	13:19	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	
3/8/2017	11:45	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	8:36	0.0	0.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	13:13	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	
3/10/2017	10:39	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	
3/11/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/12/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/13/2017	9:20	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/13/2017	14:00	0.0	0.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	
3/16/2017	9:34	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	
3/18/2017	12:29	0.0	0.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	
3/20/2017	9:40	0.0	0.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	
<b>Vertical sparge well cluster at Cupboard Creek (includes MW-19)</b>											
3/2/2017	15:58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Vaccing from RT-1, RS-8 and RW-11 in the vicinity at time of survey System started up 3/6/2017
3/3/2017	15:27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/4/2017	14:11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/5/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/6/2017	11:38	0.0	1.1	30.8	0.0	0.0	0.0	0.0	0.0	0.0	
3/6/2017	13:44	0.0	0.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	
3/7/2017	10:44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/7/2017	14:39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/8/2017	9:45	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	9:42	0.0	0.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	12:17	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/10/2017	11:17	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/11/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/12/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/13/2017	10:56	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/16/2017	10:51	0.0	0.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	
3/18/2017	14:20	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/20/2017	10:27	0.0	0.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	

**Table 2. Summary of Mobile Air Monitoring Readings**

Plantation Pipe Line Company

Lewis Drive Remediation, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location/ Date	Time	Volatile Organic Compounds (VOCs, ppm)			% Lower Explosive Limit (% LEL)			Hydrogen Sulfide (H <sub>2</sub> S, ppm)			Note
		Minimum	Average	Peak	Minimum	Average	Peak	Minimum	Average	Peak	
<b>MW-09</b>											
3/6/2017	15:06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	System started up 3/6/2017
3/7/2017	10:03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/7/2017	13:58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/8/2017	10:48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	11:31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/10/2017	10:59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/11/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/12/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/13/2017	12:31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/16/2017	12:16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/18/2017	13:09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/20/2017	11:48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
<b>City of Belton water branch line valve to former residence at 112 Lewis Dr</b>											
3/6/2017	13:06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	System started up 3/6/2017
3/6/2017	15:27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/7/2017	10:22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/7/2017	14:16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/8/2017	10:09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	10:27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/9/2017	12:36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/10/2017	11:41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/10/2017	11:54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3/11/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/12/2017	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
3/13/2017	10:36	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/16/2017	12:41	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/18/2017	13:55	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3/20/2017	12:08	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	

Notes:

Readings collected with a MultiRAE PGM-6228 calibrated with 1 ppm hydrogen sulfide and 10 ppm isobutylene calibration gases.

Biosparging system was started on March 6, 2017.

H<sub>2</sub>S = hydrogen sulfide

LEL = lower explosive limit

MW = monitoring well location

ppm = parts per million

SW = surface water sampling point location

VOC = volatile organic compound

NC = not collected due to date occurring on a weekend

**Table 3. Summary of Air Monitoring Calibration Results***Plantation Pipe Line Company**Lewis Drive Remediation, Belton, South Carolina**Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Date	Meter	Gas	Concentration	Calibration Gas	Instrument	Note
				Lot Number	Reading	
2/6/2017	16575	Methane (50% of LEL)	2.5%	BAQ-412-5	Pass	Fixed meter at RT-1
		Isobutylene	100 ppm	LTK045-RK-CM	Pass	
		Oxygen	20.9%	BAQ-412-5	Pass	
		Hydrogen sulfide	25 ppm	BAQ-412-5	Pass	
		Carbon monoxide	50 ppm	BAQ-412-5	Pass	
2/6/2017	19798	Methane (50% of LEL)	2.5%	DAQ-413-18-10	Pass	Fixed meter at RT-2
		Isobutylene	100 ppm	LTK045-RK-CM	Pass	
		Oxygen	18%	DAQ-413-18-10	Pass	
		Hydrogen sulfide	10 ppm	DAQ-413-18-10	Pass	
		Carbon monoxide	50 ppm	DAQ-413-18-10	Pass	
2/7/2017	22523	Methane (50% of LEL)	2.5%	DAQ-413-18-10	Pass	Mobile meter
		Isobutylene	100 ppm	LTK045-RK-CM	Pass	
		Oxygen	18%	DAQ-413-18-10	Pass	
		Hydrogen sulfide	10 ppm	DAQ-413-18-10	Pass	
		Carbon monoxide	50 ppm	DAQ-413-18-10	Pass	
3/2/2017	23690	Methane (50% of LEL)	2.5%	LBG-431-18-1	Pass	Fixed meter at RT-1
		Isobutylene	10 ppm	LTA-235-RR-GM	Pass	
		Oxygen	18%	LBG-431-18-1	Pass	
		Hydrogen sulfide	10 ppm	LBG-431-18-1	Pass	
		Hydrogen sulfide	1 ppm	CBH-98-1-1	Pass	
		Carbon monoxide	50 ppm	LBG-431-18-1	Pass	
3/2/2017	19798	Methane (50% of LEL)	2.5%	LBG-431-18-1	Pass	Fixed meter at RT-2
		Isobutylene	10 ppm	LTA-235-RR-GM	Pass	
		Oxygen	18%	LBG-431-18-1	Pass	
		Hydrogen sulfide	10 ppm	LBG-431-18-1	Pass	
		Hydrogen sulfide	1 ppm	CBH-98-1-1	Pass	
		Carbon monoxide	50 ppm	LBG-431-18-1	Pass	
3/2/2017	22523	Methane (50% of LEL)	2.5%	LBG-431-18-1	Pass	Mobile meter
		Isobutylene	10 ppm	LTA-235-RR-GM	Pass	
		Oxygen	18%	LBG-431-18-1	Pass	
		Hydrogen sulfide	10 ppm	LBG-431-18-1	Pass	
		Hydrogen sulfide	1 ppm	CBH-98-1-1	Pass	
		Carbon monoxide	50 ppm	LBG-431-18-1	Pass	

**Notes:**

LEL = lower explosive limit

ppm = parts per million

**Table 4. Summary of Weather Observations**

*Plantation Pipe Line Company*

*Lewis Drive Remediation, Belton, South Carolina*

*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

<b>Date</b>	<b>Temperature (°F)</b>	<b>Wind (mph)</b>	<b>Wind Direction Origin</b>	<b>Observation</b>
3/2/2017	65	0-5	west	sunny
3/3/2017	60	5-10	northwest	sunny
3/4/2017	60	5-10	west	sunny
3/5/2017	NC	NC	NC	NC
3/6/2017	65	0-5	southwest	partly sunny
3/7/2017	65	5-10	northwest	partly cloudy
3/8/2017	70	5-10	west-northwest	sunny
3/9/2017	70	5-10	northwest	sunny
3/10/2017	70	10-15	west	sunny
3/11/2017	NC	NC	NC	NC
3/12/2017	NC	NC	NC	NC
3/13/2017	43	10-15	northeast	cloudy with periods of rain
3/16/2017	47	5-10	west-southwest	sunny
3/18/2017	63	5-10	west-southwest	cloudy
3/20/2017	65	0-5	southwest	sunny

Note:

mph = miles per hour

°F = degrees Fahrenheit

NC = not collected due to day occurring on weekend

**Table 5. Groundwater Elevation and Product Thickness Data**

*Plantation Pipe Line Company*

*Lewis Drive Remediation, Belton, South Carolina*

*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
MW-01					853.07		
	3/2/2017	-	9.43	-		843.64	-
MW-01B					852.99		
	3/2/2017	-	11.27	-		841.72	-
MW-02					841.04		
	3/2/2017	10.60	10.61	0.01		830.43	830.44
MW-02B					841.18		
	3/2/2017	-	12.64	-		828.54	-
MW-03					838.36		
	3/2/2017	-	11.52	-		826.84	-
MW-04					844.42		
	3/2/2017	-	14.15	-		830.27	-
MW-05					851.11		
	3/2/2017	-	18.51	-		832.60	-
MW-06					852.92		
	3/2/2017	-	17.68	-		835.24	-
MW-07					853.02		
	3/2/2017	-	13.22	-		839.80	-
MW-08					844.72		
	3/2/2017	-	15.70	-		829.02	-
MW-09					843.63		
	3/2/2017	-	12.03	-		831.60	-
MW-10					845.41		
	3/2/2017	-	15.91	-		829.50	-
MW-11					855.63		
	3/2/2017	-	DRY	-		-	-
MW-12					834.53		
	3/20/2017	14.81	15.20	0.39		819.34	819.62
	3/13/2017	14.89	15.62	0.73		818.92	819.45
	3/10/2017	14.76	15.39	0.63		819.14	819.60
	3/9/2017	14.90	15.71	0.81		818.82	819.41
	3/8/2017	14.78	15.41	0.63		819.12	819.58
	3/7/2017	14.71	15.19	0.48		819.34	819.69
	3/6/2017	14.99	15.57	0.58		818.96	819.39
	3/2/2017	15.35	16.30	0.95		818.23	818.93
MW-12B					834.98		
	3/20/2017	-	15.45	-		819.53	-
	3/13/2017	-	15.33	-		819.65	-
	3/10/2017	-	15.17	-		819.81	-
	3/9/2017	-	15.41	-		819.57	-
	3/8/2017	-	15.19	-		819.79	-
	3/7/2017	15.12	15.13	0.01		819.85	819.85
	3/6/2017	-	15.32	-		819.66	-
	3/2/2017	-	15.87	-		819.11	-
MW-13					848.84		
	3/2/2017	-	22.05	-		826.79	-
MW-13B					849.82		
	3/2/2017	-	24.80	-		825.02	-
MW-14					838.70		
	3/2/2017	-	18.87	-		819.83	-

**Table 5. Groundwater Elevation and Product Thickness Data**

*Plantation Pipe Line Company*

*Lewis Drive Remediation, Belton, South Carolina*

*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
MW-14B					840.20		
	3/2/2017	-	20.62	-		819.58	-
MW-15					831.03		
	3/20/2017	-	13.12	-		817.92	-
	3/13/2017	-	13.27	-		817.76	-
	3/10/2017	-	12.87	-		818.16	-
	3/9/2017	-	13.28	-		817.75	-
	3/8/2017	-	13.02	-		818.01	-
	3/7/2017	-	12.33	-		818.70	-
	3/6/2017	-	12.79	-		818.24	-
	3/2/2017	-	13.85	-		817.18	-
MW-15B					831.29		
	3/20/2017	-	16.68	-		814.61	-
	3/13/2017	-	16.63	-		814.66	-
	3/10/2017	-	16.42	-		814.87	-
	3/9/2017	-	16.18	-		815.11	-
	3/8/2017	-	16.91	-		814.38	-
	3/7/2017	-	16.46	-		814.83	-
	3/6/2017	-	16.87	-		814.42	-
	3/2/2017	-	17.01	-		814.28	-
MW-16					847.67		
	3/2/2017	15.05	18.55	3.50		829.12	831.67
MW-17					855.35		
	3/20/2017	-	10.83	-		844.52	-
	3/13/2017	-	10.82	-		844.53	-
	3/2/2017	-	10.83	-		844.52	-
MW-17B					855.37		
	3/20/2017	-	19.06	-		836.31	-
	3/13/2017	-	19.05	-		836.32	-
	3/2/2017	-	19.28	-		836.09	-
MW-18					846.89		
	3/2/2017	17.16	19.45	2.29		827.44	829.11
MW-19					853.94		
	3/20/2017	-	11.79	-		842.15	-
	3/13/2017	-	11.77	-		842.17	-
	3/10/2017	-	11.71	-		842.23	-
	3/9/2017	-	11.79	-		842.15	-
	3/8/2017	-	11.78	-		842.16	-
	3/7/2017	-	11.77	-		842.17	-
	3/6/2017	11.76	11.76	0.00		842.18	842.18
	3/2/2017	-	11.75	-		842.19	-
MW-20					852.89		
	3/20/2017	14.48	15.60	1.12		837.29	838.11
	3/13/2017	14.60	16.33	1.73		836.56	837.82
	3/10/2017	14.59	16.34	1.75		836.55	837.82
	3/9/2017	14.60	15.32	0.72		837.57	838.09
	3/8/2017	14.63	15.39	0.76		837.50	838.05
	3/7/2017	14.71	16.43	1.72		836.46	837.71
	3/6/2017	14.77	16.56	1.79		836.33	837.64
	3/2/2017	14.74	16.55	1.81		836.34	837.66

**Table 5. Groundwater Elevation and Product Thickness Data**

*Plantation Pipe Line Company*

*Lewis Drive Remediation, Belton, South Carolina*

*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
MW-21					855.77		
	3/20/2017	-	18.47	-		837.30	-
	3/13/2017	-	18.58	-		837.19	-
	3/2/2017	-	18.65	-		837.12	-
MW-22					854.60		
	3/2/2017	-	9.99	-		844.61	-
MW-23					849.57		
	3/20/2017	-	12.01	-		837.56	-
	3/13/2017	-	12.09	-		837.48	-
	3/2/2017	-	12.23	-		837.34	-
MW-23B					849.69		
	3/20/2017	-	12.81	-		836.88	-
	3/13/2017	-	12.77	-		836.92	-
	3/2/2017	-	12.80	-		836.89	-
MW-24					817.92		
	3/13/2017	-	4.50	-		813.42	-
	3/2/2017	-	4.54	-		813.38	-
MW-24B					818.72		
	3/13/2017	-	5.51	-		813.21	-
	3/2/2017	-	5.60	-		813.12	-
MW-25					826.18		
	3/20/2017	-	7.09	-		819.10	-
	3/13/2017	-	8.52	-		817.66	-
	3/10/2017	-	8.46	-		817.72	-
	3/9/2017	-	8.61	-		817.57	-
	3/8/2017	-	8.58	-		817.60	-
	3/7/2017	-	8.52	-		817.66	-
	3/6/2017	-	8.48	-		817.70	-
	3/2/2017	-	8.87	-		817.31	-
MW-25B					823.81		
	3/20/2017	-	7.34	-		816.47	-
	3/13/2017	-	5.95	-		817.86	-
	3/10/2017	-	5.94	-		817.87	-
	3/9/2017	-	5.92	-		817.89	-
	3/8/2017	-	5.91	-		817.90	-
	3/7/2017	-	5.99	-		817.82	-
	3/6/2017	-	6.31	-		817.50	-
	3/2/2017	-	6.07	-		817.74	-
MW-26					847.56		
	3/20/2017	-	7.34	-		840.22	-
	3/13/2017	-	7.40	-		840.16	-
	3/2/2017	-	7.53	-		840.03	-
MW-26B					847.81		
	3/20/2017	-	9.87	-		837.94	-
	3/13/2017	-	9.92	-		837.89	-
	3/2/2017	-	10.03	-		837.78	-
MW-27					854.11		
	3/2/2017	-	28.65	-		825.46	-
MW-27B					857.14		
	3/2/2017	-	32.08	-		825.06	-

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*Plantation Pipe Line Company*

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*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
MW-28					844.31		
	3/20/2017	-	25.63	-		818.68	-
	3/13/2017	-	24.65	-		819.67	-
	3/10/2017	-	24.71	-		819.60	-
	3/9/2017	-	24.74	-		819.57	-
	3/8/2017	-	24.74	-		819.57	-
	3/7/2017	-	24.78	-		819.53	-
	3/6/2017	-	24.72	-		819.60	-
	3/2/2017	-	24.75	-		819.56	-
MW-29					852.20		
	3/20/2017	-	11.28	-		840.92	-
	3/13/2017	-	11.35	-		840.85	-
	3/10/2017	-	11.37	-		840.83	-
	3/9/2017	-	10.35	-		841.85	-
	3/8/2017	-	11.45	-		840.75	-
	3/7/2017	-	11.42	-		840.78	-
	3/6/2017	-	11.41	-		840.79	-
	3/2/2017	-	11.55	-		840.65	-
MW-30					841.28		
	3/2/2017	-	DRY	-		-	-
MW-31					845.04		
	3/2/2017	-	21.58	-		823.46	-
MW-31B					844.94		
	3/2/2017	-	21.78	-		823.16	-
MW-32					842.93		
	3/2/2017	-	14.85	-		828.08	-
MW-33					849.20		
	3/2/2017	-	26.98	-		822.22	-
MW-33T					849.11		
	3/2/2017	-	28.18	-		820.93	-
MW-34					816.35		
	3/20/2017	-	2.67	-		813.68	-
	3/13/2017	-	2.58	-		813.77	-
MW-35					829.40		
	3/20/2017	-	9.48	-		819.92	-
	3/17/2017	-	9.01	-		820.39	-
	3/16/2017	-	9.01	-		820.39	-
	3/15/2017	-	8.79	-		820.61	-
	3/14/2017	-	9.69	-		819.71	-
	3/13/2017	-	9.65	-		819.76	-
	3/10/2017	-	9.78	-		819.62	-
	3/9/2017	-	8.57	-		820.83	-
	3/8/2017	-	7.99	-		821.41	-
	3/7/2017	-	9.44	-		819.96	-
	3/6/2017	-	9.59	-		819.82	-
	3/2/2017	-	10.03	-		819.37	-
MW-36					858.47		
	3/2/2017	-	21.87	-		836.60	-
MW-36B					858.15		
	3/2/2017	-	21.55	-		836.60	-



**Table 5. Groundwater Elevation and Product Thickness Data**

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*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
MW-37					813.92		
	3/2/2017	-	3.54	-		810.38	-
MW-38					813.28		
	3/20/2017	-	1.99	-		811.29	-
	3/13/2017	-	1.93	-		811.35	-
	3/2/2017	-	2.00	-		811.28	-
MW-39					819.90		
	3/20/2017	-	5.12	-		814.79	-
	3/17/2017	-	4.57	-		815.33	-
	3/16/2017	-	5.25	-		814.65	-
	3/15/2017	-	4.45	-		815.45	-
	3/14/2017	-	4.77	-		815.13	-
	3/13/2017	-	5.09	-		814.82	-
	3/10/2017	-	4.79	-		815.11	-
	3/9/2017	-	4.98	-		814.92	-
	3/8/2017	-	4.61	-		815.29	-
	3/7/2017	-	4.25	-		815.65	-
	3/6/2017	-	4.32	-		815.59	-
	3/2/2017	-	4.99	-		814.91	-
MW-40					817.79		
	3/20/2017	-	2.72	-		815.07	-
	3/13/2017	-	3.88	-		813.91	-
	3/2/2017	-	2.91	-		814.88	-
MW-41					819.68		
	3/20/2017	-	4.18	-		815.51	-
	3/17/2017	-	4.17	-		815.51	-
	3/16/2017	-	4.25	-		815.43	-
	3/15/2017	-	4.22	-		815.46	-
	3/14/2017	-	4.08	-		815.60	-
	3/13/2017	-	3.70	-		815.99	-
	3/10/2017	-	4.14	-		815.54	-
	3/9/2017	-	4.23	-		815.45	-
	3/8/2017	-	4.23	-		815.45	-
	3/7/2017	-	4.15	-		815.53	-
	3/6/2017	-	4.23	-		815.46	-
	3/2/2017	-	4.30	-		815.38	-
MW-42					820.33		
	3/20/2017	-	4.80	-		815.53	-
	3/13/2017	-	4.84	-		815.49	-
	3/2/2017	-	4.91	-		815.42	-
MW-44					853.67		
	3/13/2017	-	9.61	-		844.06	-
	3/2/2017	-	9.60	-		844.07	-
MW-44B					853.38		
	3/13/2017	-	15.50	-		837.88	-
	3/2/2017	-	15.56	-		837.82	-
MW-45					852.47		
	3/20/2017	-	14.22	-		838.25	-
	3/13/2017	-	14.16	-		838.31	-
	3/2/2017	-	14.14	-		838.33	-

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*Plantation Pipe Line Company*

*Lewis Drive Remediation, Belton, South Carolina*

*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
MW-45B					852.85		
	3/20/2017	-	19.39	-		833.46	-
	3/13/2017	-	20.23	-		832.62	-
	3/2/2017	-	21.45	-		831.40	-
RS-01					849.13		
	3/20/2017	17.93	18.55	0.62		830.58	831.03
	3/16/2017	18.82	19.12	0.30		830.01	830.23
	3/13/2017	19.11	19.70	0.59		830.63	831.06
	3/6/2017	19.41	19.80	0.39		830.53	830.82
	3/2/2017	19.15	19.65	0.50		830.68	831.05
RS-02					849.52		
	3/20/2017	17.28	17.55	0.27		831.97	832.17
	3/16/2017	17.60	17.77	0.17		831.75	831.87
	3/13/2017	17.73	18.31	0.58		831.79	832.22
	3/6/2017	17.84	18.20	0.36		831.90	832.16
	3/2/2017	17.80	18.07	0.27		832.03	832.23
RS-04					851.44		
	3/20/2017	9.75	NO WATER	0.50		-	-
	3/16/2017	9.74	9.75	0.01		841.72	841.73
	3/13/2017	9.70	9.77	0.07		841.67	841.72
	3/6/2017	-	9.75	-		841.69	-
	3/2/2017	-	9.77	-		841.67	-
RS-05					848.31		
	3/20/2017	17.14	17.81	0.67		830.50	830.99
	3/16/2017	17.50	17.83	0.33		830.48	830.72
	3/13/2017	17.25	18.15	0.90		830.40	831.05
	3/6/2017	17.55	18.05	0.50		830.50	830.86
	3/2/2017	17.38	18.01	0.63		830.54	831.00
RS-06					849.47		
	3/20/2017	17.60	18.11	0.51		831.36	831.73
	3/16/2017	17.60	18.35	0.75		831.12	831.67
	3/13/2017	18.76	19.32	0.56		831.41	831.81
	3/6/2017	18.95	19.30	0.35		831.43	831.68
	3/2/2017	18.82	19.33	0.51		831.40	831.77
RS-07					855.08		
	3/20/2017	15.17	15.18	0.01		839.90	839.91
	3/16/2017	15.12	15.14	0.02		839.94	839.96
	3/13/2017	16.12	16.14	0.02		839.90	839.92
	3/6/2017	16.21	16.22	0.01		839.82	839.83
	3/2/2017	16.21	16.23	0.02		839.81	839.83
RS-08					854.00		
	3/20/2017	15.80	16.25	0.45		837.75	838.08
	3/16/2017	16.05	16.25	0.20		837.75	837.90
	3/13/2017	16.83	17.30	0.47		837.61	837.95
	3/6/2017	16.91	17.43	0.52		837.48	837.86
	3/2/2017	16.93	17.57	0.64		837.34	837.80
RS-09					847.60		
	3/20/2017	16.97	17.20	0.23		830.40	830.57
	3/16/2017	16.98	17.21	0.23		830.39	830.56
	3/13/2017	18.47	18.72	0.25		830.40	830.58

**Table 5. Groundwater Elevation and Product Thickness Data**

Plantation Pipe Line Company

Lewis Drive Remediation, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
RS-09 (cont'd)	3/6/2017	18.47	18.69	0.22		830.43	830.59
	3/2/2017	18.45	NO WATER	0.40		-	-
RS-10					847.42		
	3/20/2017	16.00	16.65	0.65		830.77	831.24
	3/16/2017	16.14	16.64	0.50		830.78	831.15
	3/13/2017	16.05	16.41	0.36		831.11	831.38
	3/6/2017	16.18	16.53	0.35		830.99	831.25
	3/2/2017	15.99	16.55	0.56		830.97	831.38
RS-11					847.44		
	3/20/2017	15.58	15.94	0.36		831.50	831.76
	3/16/2017	15.62	16.09	0.47		831.35	831.69
	3/13/2017	16.47	16.92	0.45		831.49	831.82
	3/6/2017	16.54	16.94	0.40		831.47	831.76
	3/2/2017	16.43	16.82	0.39		831.59	831.88
RS-12					847.74		
	3/20/2017	15.86	16.20	0.34		831.54	831.79
	3/16/2017	15.90	16.38	0.48		831.36	831.71
	3/13/2017	16.92	17.40	0.48		831.47	831.82
	3/6/2017	16.98	17.40	0.42		831.47	831.78
	3/2/2017	16.90	17.30	0.40		831.57	831.86
RS-13					846.61		
	3/20/2017	16.51	16.60	0.09		830.01	830.08
	3/16/2017	16.43	16.47	0.04		830.14	830.17
	3/13/2017	18.23	18.31	0.08		829.97	830.03
	3/6/2017	18.30	18.42	0.12		829.86	829.95
	3/2/2017	18.14	18.25	0.11		830.03	830.11
RS-14					845.97		
	3/20/2017	13.66	13.92	0.26		832.05	832.24
	3/16/2017	13.63	13.87	0.24		832.10	832.28
	3/13/2017	14.63	14.88	0.25		832.04	832.22
	3/6/2017	14.60	14.85	0.25		832.07	832.25
	3/2/2017	14.30	14.60	0.30		832.32	832.54
RS-15					846.41		
	3/20/2017	13.07	13.19	0.12		833.22	833.31
	3/16/2017	13.12	13.30	0.18		833.11	833.24
	3/13/2017	15.67	15.84	0.17		833.13	833.26
	3/6/2017	15.47	15.67	0.20		833.30	833.45
	3/2/2017	15.25	15.44	0.19		833.53	833.67
RS-16					845.44		
	3/20/2017	13.60	13.66	0.06		831.78	831.82
	3/16/2017	13.51	13.60	0.09		831.84	831.91
	3/13/2017	14.96	14.97	0.01		831.80	831.81
	3/6/2017	15.00	15.01	0.01		831.76	831.77
	3/2/2017	14.78	14.87	0.09		831.90	831.97
RS-17					844.22		
	3/20/2017	10.70	10.76	0.06		833.46	833.50
	3/16/2017	9.37	9.38	0.01		834.84	834.85
	3/13/2017	9.45	9.47	0.02		835.68	835.70
	3/6/2017	12.26	12.27	0.01		832.88	832.89
	3/2/2017	11.16	11.17	0.01		833.98	833.99

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Plantation Pipe Line Company

Lewis Drive Remediation, Belton, South Carolina

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RS-18					847.89		
	3/20/2017	17.40	17.64	0.24		830.25	830.43
	3/16/2017	17.90	18.05	0.15		829.84	829.95
	3/13/2017	17.92	18.52	0.60		830.07	830.51
	3/6/2017	18.10	18.52	0.42		830.07	830.38
	3/2/2017	18.11	18.36	0.25		830.23	830.41
RS-19					850.40		
	3/20/2017	-	NM	-		-	-
	3/16/2017	-	NM	-		-	-
	3/13/2017	-	NM	-		-	-
	3/6/2017	-	NM	-		-	-
	3/2/2017	-	NM	-		-	-
RS-20					842.69		
	3/20/2017	-	10.54	-		832.15	-
	3/16/2017	-	10.54	-		832.15	-
	3/13/2017	-	11.41	-		832.08	-
	3/6/2017	-	11.40	-		832.09	-
	3/2/2017	-	11.40	-		832.09	-
RT-1A					854.06		
	3/20/2017	16.22	16.43	0.21		837.63	837.78
	3/16/2017	16.42	16.60	0.18		837.46	837.59
	3/13/2017	18.47	NO WATER	2.42		-	-
	3/6/2017	18.55	18.96	0.41		837.25	837.55
	3/2/2017	18.60	19.01	0.41		837.20	837.50
RT-1B					854.15		
	3/20/2017	16.18	16.35	0.17		837.80	837.92
	3/16/2017	16.38	16.55	0.17		837.60	837.72
	3/13/2017	19.43	19.75	0.32		837.55	837.78
	3/6/2017	19.52	20.00	0.48		837.30	837.65
	3/2/2017	19.56	19.99	0.43		837.31	837.62
RT-1C					854.55		
	3/20/2017	16.64	16.85	0.21		837.70	837.85
	3/16/2017	16.84	17.00	0.16		837.55	837.67
	3/13/2017	19.61	19.91	0.30		837.11	837.33
	3/6/2017	19.69	20.18	0.49		836.84	837.19
	3/2/2017	19.74	20.15	0.41		836.87	837.17
RT-2A					817.48		
	3/20/2017	-	1.40	-		816.08	-
	3/16/2017	-	1.15	-		816.33	-
	3/13/2017	2.01	2.02	0.01		816.29	816.30
	3/6/2017	-	2.46	-		815.85	-
	3/2/2017	-	2.37	-		815.94	-
RT-2B					817.61		
	3/20/2017	1.55	1.56	0.01		816.05	816.06
	3/16/2017	1.30	1.32	0.02		816.29	816.30
	3/13/2017	2.64	2.68	0.04		816.24	816.27
	3/6/2017	3.09	3.12	0.03		815.80	815.82
	3/2/2017	2.98	3.02	0.04		815.90	815.93
RT-2C	3/20/2017	2.95	2.96	0.01	818.06	815.10	815.11

**Table 5. Groundwater Elevation and Product Thickness Data**

Plantation Pipe Line Company

Lewis Drive Remediation, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
RT-2C (cont'd)	3/16/2017	2.70	2.71	0.01		815.35	815.36
	3/13/2017	2.40	2.41	0.01		816.61	816.61
	3/6/2017	-	2.85	-		816.17	-
	3/2/2017	-	2.75	-		816.27	-
RT-2D					818.12		
	3/20/2017	2.06	2.07	0.01		816.05	816.06
	3/16/2017	1.80	1.83	0.03		816.29	816.31
	3/13/2017	3.24	3.26	0.02		816.31	816.32
	3/6/2017	-	3.68	-		815.89	-
	3/2/2017	-	3.58	-		815.99	-
RT-2E					818.25		
	3/20/2017	2.17	2.18	0.01		816.07	816.08
	3/16/2017	1.98	1.99	0.01		816.26	816.27
	3/13/2017	3.04	3.05	0.01		816.35	816.36
	3/6/2017	-	3.50	-		815.90	-
RT-2F					818.57		
	3/20/2017	2.50	2.51	0.01		816.06	816.07
	3/16/2017	2.28	2.29	0.01		816.28	816.29
	3/13/2017	2.87	2.88	0.01		816.64	816.64
	3/6/2017	-	3.34	-		816.18	-
RT-2G					820.07		
	3/20/2017	3.30	3.31	0.01		816.76	816.77
	3/16/2017	3.27	3.28	0.01		816.79	816.80
	3/13/2017	3.52	3.53	0.01		816.78	816.79
	3/6/2017	-	3.30	-		817.01	-
RT-2H					822.17		
	3/20/2017	-	NM	-		-	-
	3/16/2017	-	NM	-		-	-
	3/13/2017	-	NM	-		-	-
	3/6/2017	-	NM	-		-	-
RT-2I					819.51		
	3/20/2017	3.15	3.16	0.01		816.35	816.36
	3/16/2017	3.15	3.16	0.01		816.35	816.36
	3/13/2017	3.29	3.30	0.01		816.21	816.22
	3/6/2017	-	3.09	-		816.42	-
RT-2J					817.63		
	3/20/2017	1.80	1.81	0.01		815.82	815.83
	3/16/2017	1.76	1.77	0.01		815.86	815.87
	3/13/2017	1.99	2.00	0.01		816.38	816.39
	3/6/2017	2.47	2.48	0.01		815.90	815.91
RT-2K					817.40		
	3/20/2017	2.02	2.05	0.03		816.33	816.36
	3/2/2017	2.02	2.05	0.03		816.33	816.36
RT-2K					817.40		
	3/20/2017	1.34	1.36	0.02		816.04	816.05
	3/16/2017	1.36	1.39	0.03		816.01	816.03
3/13/2017	1.30	1.34	0.04		816.12	816.15	

**Table 5. Groundwater Elevation and Product Thickness Data**

Plantation Pipe Line Company

Lewis Drive Remediation, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
RT-2K (cont'd)	3/6/2017	2.86	2.87	0.01		814.59	814.60
	3/2/2017	1.08	1.10	0.02		816.36	816.37
RT-2L					819.54		
	3/20/2017	2.78	2.87	0.09		816.67	816.74
	3/16/2017	2.60	2.70	0.10		816.84	816.91
	3/13/2017	3.47	3.60	0.13		816.78	816.87
	3/6/2017	4.14	4.20	0.06		816.18	816.22
	3/2/2017	4.24	4.36	0.12		816.02	816.10
RW-01					851.92		
	3/20/2017	15.22	15.24	0.02		836.68	836.70
	3/16/2017	14.31	14.32	0.01		837.60	837.61
	3/13/2017	15.51	15.52	0.01		836.40	836.41
	3/6/2017	-	15.36	-		836.56	-
	3/2/2017	14.95	14.96	0.01		836.96	836.97
RW-02					852.69		
	3/20/2017	25.61	NO WATER	0.11		-	-
	3/16/2017	25.64	25.65	0.01		827.04	827.05
	3/13/2017	-	25.25	-		827.44	-
	3/6/2017	-	25.25	-		827.44	-
	3/2/2017	-	25.25	-		827.44	-
RW-03					852.34		
	3/20/2017	-	25.65	-		826.69	-
	3/16/2017	25.71	25.73	0.02		826.61	826.62
	3/13/2017	25.65	25.66	0.01		826.68	826.69
	3/6/2017	25.79	25.80	0.01		826.54	826.55
	3/2/2017	25.75	25.76	0.01		826.58	826.59
RW-04					853.93		
	3/20/2017	31.55	32.40	0.85		821.53	822.15
	3/16/2017	31.63	32.49	0.86		821.44	822.07
	3/13/2017	31.68	32.60	0.92		821.33	822.00
	3/6/2017	31.84	32.90	1.06		821.03	821.81
	3/2/2017	31.80	32.90	1.10		821.03	821.84
RW-05					853.53		
	3/20/2017	34.14	34.40	0.26		819.13	819.32
	3/16/2017	34.14	34.38	0.24		819.15	819.33
	3/13/2017	34.34	34.60	0.26		818.93	819.12
	3/6/2017	34.75	35.05	0.30		818.48	818.70
	3/2/2017	34.77	34.93	0.16		818.60	818.72
RW-06					846.21		
	3/20/2017	27.82	27.83	0.01		818.38	818.39
	3/16/2017	27.90	27.93	0.03		818.28	818.30
	3/13/2017	28.15	28.17	0.02		818.04	818.05
	3/6/2017	28.50	28.60	0.10		817.61	817.68
	3/2/2017	28.50	28.55	0.05		817.66	817.69
RW-07					843.19		
	3/20/2017	23.90	25.85	1.95		817.34	818.77
	3/16/2017	23.89	25.73	1.84		817.46	818.81
	3/13/2017	24.03	26.15	2.12		817.04	818.59
	3/6/2017	24.35	26.45	2.10		816.74	818.27
	3/2/2017	24.32	26.50	2.18		816.69	818.28

**Table 5. Groundwater Elevation and Product Thickness Data**

*Plantation Pipe Line Company*

*Lewis Drive Remediation, Belton, South Carolina*

*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
RW-08					835.48		
	3/20/2017	17.30	18.39	1.09		817.09	817.88
	3/16/2017	17.61	17.96	0.35		817.52	817.77
	3/13/2017	17.80	18.55	0.75		816.93	817.48
	3/6/2017	17.60	19.03	1.43		816.45	817.49
	3/2/2017	17.57	19.07	1.50		816.41	817.50
RW-09					835.12		
	3/20/2017	13.88	14.64	0.76		820.48	821.04
	3/16/2017	14.24	16.00	1.76		819.12	820.41
	3/13/2017	14.42	16.40	1.98		818.72	820.17
	3/6/2017	14.75	16.47	1.72		818.65	819.91
	3/2/2017	14.75	16.48	1.73		818.64	819.91
RW-10					848.53		
	3/20/2017	17.83	21.70	3.87		826.83	829.66
	3/16/2017	18.40	21.05	2.65		827.48	829.42
	3/13/2017	17.78	21.60	3.82		826.93	829.72
	3/6/2017	17.92	21.79	3.87		826.74	829.57
	3/2/2017	17.82	21.84	4.02		826.69	829.63
RW-11					852.97		
	3/20/2017	13.97	15.10	1.13		837.87	838.69
	3/16/2017	14.06	15.23	1.17		837.74	838.59
	3/13/2017	14.09	15.30	1.21		837.67	838.55
	3/6/2017	14.22	15.50	1.28		837.47	838.40
	3/2/2017	14.24	14.25	0.01		838.72	838.72
RW-12					852.75		
	3/20/2017	15.77	15.80	0.03		836.95	836.97
	3/16/2017	15.85	15.86	0.01		836.89	836.90
	3/13/2017	15.91	15.93	0.02		836.82	836.83
	3/6/2017	15.98	16.00	0.02		836.75	836.76
	3/2/2017	15.96	15.97	0.01		836.78	836.79
RW-13					847.97		
	3/20/2017	18.05	20.45	2.40		827.52	829.27
	3/16/2017	18.20	20.47	2.27		827.50	829.16
	3/13/2017	18.02	20.24	2.22		827.73	829.35
	3/6/2017	18.12	20.20	2.08		827.77	829.29
	3/2/2017	18.00	20.38	2.38		827.59	829.33
RW-14					827.54		
	3/20/2017	12.65	12.66	0.01		814.88	814.89
	3/16/2017	12.67	12.68	0.01		814.86	814.87
	3/13/2017	13.00	13.03	0.03		814.51	814.53
	3/6/2017	12.39	12.45	0.06		815.09	815.13
	3/2/2017	12.40	12.44	0.04		815.10	815.13
RW-15					851.64		
	3/20/2017	19.09	19.74	0.65		831.90	832.37
	3/16/2017	19.29	19.40	0.11		832.24	832.32
	3/13/2017	19.10	19.50	0.40		832.14	832.43
	3/6/2017	19.03	20.04	1.01		831.60	832.33
	3/2/2017	19.10	19.66	0.56		831.98	832.39
SW-01	3/2/2017	-	(0.90)	-	812.82	813.72	-

**Table 5. Groundwater Elevation and Product Thickness Data**

*Plantation Pipe Line Company*

*Lewis Drive Remediation, Belton, South Carolina*

*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
SW-02	3/2/2017	-	(1.53)	-	808.65	810.18	-
SW-03	3/2/2017	-	(1.62)	-	815.09	816.71	-
SW-05	3/2/2017	-	NM	-	838.75	-	-
SW-08	3/2/2017	-	(1.22)	-	802.04	803.26	-
SW-10	3/2/2017	-	(0.47)	-	778.09	778.56	-
TW-04R	3/2/2017	-	DRY	-	852.64	-	-
TW-05R	3/2/2017	-	7.95	-	849.93	841.98	-
TW-14R	3/2/2017	-	DRY	-	853.37	-	-
TW-15R	3/2/2017	-	DRY	-	850.62	-	-
TW-21	3/2/2017	-	5.88	-	849.70	843.82	-
TW-28	3/2/2017	24.50	26.15	1.65	851.42	825.27	826.48
TW-30	3/2/2017	-	DRY	-	851.81	-	-
TW-34	3/2/2017	-	22.30	-	854.79	832.49	-
TW-35	3/2/2017	-	23.67	-	854.10	830.43	-
TW-40	3/2/2017	-	29.45	-	853.35	823.90	-
TW-41	3/2/2017	-	29.40	-	849.38	819.98	-
TW-42	3/2/2017	-	DRY	-	846.84	-	-
TW-45	3/2/2017	29.00	30.57	1.57	848.31	817.74	818.88
TW-46	3/2/2017	-	NM	-	846.88	-	-
TW-55	3/2/2017	-	12.05	-	845.93	833.88	-
TW-59	3/20/2017	-	15.07	-	834.78	819.72	-
	3/13/2017	-	15.13	-		819.65	-
	3/10/2017	-	15.02	-		819.76	-
	3/9/2017	-	14.23	-		820.55	-
	3/8/2017	-	14.99	-		819.79	-
	3/7/2017	-	15.02	-		819.76	-
	3/6/2017	-	18.56	-		816.22	-
	3/2/2017	-	15.67	-		819.11	-
TW-60					828.03		



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*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
TW-60 (cont'd)	3/20/2017	-	8.49	-		819.54	-
	3/13/2017	-	9.12	-		818.91	-
	3/10/2017	-	8.72	-		819.31	-
	3/9/2017	-	9.66	-		818.37	-
	3/8/2017	-	9.45	-		818.58	-
	3/7/2017	-	7.59	-		820.44	-
	3/6/2017	-	8.40	-		819.64	-
	3/2/2017	-	9.96	-		818.07	-
TW-64					845.88		
	3/2/2017	-	19.58	-		826.30	-
TW-65					845.62		
	3/2/2017	-	23.23	-		822.39	-
TW-66					820.31		
	3/20/2017	-	1.92	-		818.39	-
	3/13/2017	-	2.05	-		818.26	-
	3/10/2017	-	1.92	-		818.39	-
	3/9/2017	-	2.30	-		818.01	-
	3/8/2017	-	2.28	-		818.03	-
	3/7/2017	-	1.85	-		818.46	-
	3/6/2017	-	1.90	-		818.41	-
	3/2/2017	-	2.64	-		817.67	-
TW-67					852.71		
	3/20/2017	-	14.43	-		838.28	-
	3/13/2017	-	15.07	-		837.64	-
	3/10/2017	-	15.00	-		837.71	-
	3/9/2017	-	15.19	-		837.52	-
	3/8/2017	-	15.11	-		837.60	-
	3/7/2017	-	15.14	-		837.57	-
	3/6/2017	-	15.03	-		837.68	-
	3/2/2017	-	15.44	-		837.27	-
TW-68					846.45		
	3/2/2017	-	24.49	-		821.96	-
TW-69					840.27		
	3/2/2017	-	16.36	-		823.91	-
TW-70					841.95		
	3/2/2017	-	20.24	-		821.71	-
TW-73					850.53		
	3/20/2017	-	8.58	-		841.96	-
	3/13/2017	-	10.38	-		840.16	-
	3/10/2017	-	10.51	-		840.02	-
	3/9/2017	-	11.45	-		839.08	-
	3/8/2017	-	10.35	-		840.18	-
	3/7/2017	-	10.34	-		840.19	-
	3/6/2017	-	10.58	-		839.96	-
	3/2/2017	-	10.47	-		840.06	-
TW-76					852.44		
	3/2/2017	-	17.74	-		834.70	-
TW-81					849.43		
	3/2/2017	-	4.95	-		844.48	-
TW-82					849.64		

**Table 5. Groundwater Elevation and Product Thickness Data**

*Plantation Pipe Line Company*

*Lewis Drive Remediation, Belton, South Carolina*

*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Location ID	Date	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Top of Casing Elevation <sup>1,2</sup> (ft amsl)	Groundwater Elevation (ft amsl)	Corrected <sup>3</sup> Groundwater Elevation (ft amsl)
TW-82 (cont'd)	3/2/2017	-	5.72	-		843.92	-
TW-83	3/2/2017	-	6.50	-	850.44	843.94	-
TW-84	3/2/2017	7.10	7.15	0.05	851.22	844.07	844.10
TW-85	3/2/2017	-	15.21	-	843.49	828.28	-
TW-86	3/2/2017	-	5.65	-	853.10	847.45	-
TW-87	3/2/2017	-	6.75	-	852.25	845.50	-
TW-90	3/2/2017	-	17.35	-	845.43	828.08	-
TW-94	3/2/2017	10.75	10.85	0.10	840.58	829.73	829.81
TW-96	3/2/2017	-	12.12	-	840.40	828.28	-

Notes:

1. Elevation of zero mark (ft amsl) for surface water staff gauges

2. "RS-" and "RT-" features were trimmed to less than 12 inches above ground surface on 3/14/2017. Only the resurveyed top of casing elevation after trimming is displayed. Groundwater elevation calculations are based on the true top of casing elevation at the time of gauging.

3. Calculated based on an oil:water density ratio of 0.73

amsl = above mean sea level

BTOC = below top of casing

ft = feet

NM = not measured

**Table 6. Analytical Results for Groundwater**

Comprehensive Site Assessment Report

Lewis Drive Release, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
MW-12	--	11/28/2016	--	FP	FP	FP	FP	FP	FP	FP	FP
	--	3/13/2017	--	FP	FP	FP	FP	FP	FP	FP	FP
MW-12B	MW-12B-113016	11/30/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-12B-031417	3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
	MW-12B-031417-FD	3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-15	MW-15-120716	12/7/2016	µg/L	<b>3,680</b>	<b>139</b>	<b>422</b>	<b>2,280</b>	25 U	<b>188</b>	<b>43.8</b>	--
	MW-15-031417	3/14/2017	µg/L	<b>1,960</b>	<b>72</b>	<b>324</b>	<b>1,320</b>	25 U	<b>161</b>	125 U	--
	MW-15-031417-FD	3/14/2017	µg/L	<b>1,820</b>	<b>61</b>	<b>286</b>	<b>1,120</b>	25 U	<b>153</b>	125 U	--
MW-15B	MW-15B-113016	11/30/2016	µg/L	<b>337</b>	<b>34</b>	<b>565</b>	<b>194</b>	5 U	<b>26.7</b>	<b>5</b>	--
	MW-15B-031417	3/14/2017	µg/L	<b>2,160</b>	<b>248</b>	<b>4,580</b>	<b>1,500</b>	100 U	<b>118</b>	500 U	--
MW-17	--	11/28/2016	--	NS	NS	NS	NS	NS	NS	NS	NS
	--	3/13/2017	--	NS	NS	NS	NS	NS	NS	NS	NS
MW-17B	MW-17B-120116	12/1/2016	µg/L	<b>9,370</b>	<b>761</b>	<b>16,900</b>	<b>4,500</b>	100 U	<b>954</b>	<b>112</b>	--
	MW-17B-031317	3/13/2017	µg/L	<b>7,350</b>	<b>770</b>	<b>14,100</b>	<b>4,510</b>	200 U	<b>944</b>	1,000 U	--
MW-19	--	11/28/2016	--	NS	NS	NS	NS	NS	NS	NS	NS
	--	3/13/2017	--	NS	NS	NS	NS	NS	NS	NS	NS
MW-20	--	11/28/2016	--	FP	FP	FP	FP	FP	FP	FP	FP
	--	3/13/2017	--	FP	FP	FP	FP	FP	FP	FP	FP
MW-21	MW-21-112916	11/29/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-21-031417	3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-23	MW-23-120216	12/2/2016	µg/L	<b>450</b>	5 U	<b>14.6</b>	<b>336</b>	5 U	<b>46.4</b>	<b>5.9</b>	--
	MW-23-031317	3/13/2017	µg/L	<b>709</b>	5 U	<b>23.1</b>	<b>548</b>	5 U	<b>127</b>	25 U	--
MW-23B	MW-23B-120216	12/2/2016	µg/L	1 U	<b>1.4</b>	<b>3.5</b>	<b>11.0</b>	1 U	1 U	<b>1.3</b>	--
	MW-23B-031317	3/13/2017	µg/L	1 U	<b>1.11</b>	<b>2.63</b>	<b>8.86</b>	1 U	1 U	5 U	--
MW-25	MW-25-012716	12/1/2016	µg/L	<b>675</b>	<b>30.2</b>	<b>15.3</b>	<b>619</b>	5 U	<b>5.9</b>	<b>29.7</b>	--
	MW-25-031417	3/14/2017	µg/L	<b>62.7</b>	<b>28.6</b>	<b>10.1</b>	<b>668</b>	10 U	10 U	50 U	--
MW-25B	MW-25B-120116	12/1/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-25B-031417	3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-26	MW-26-120116	12/1/2016	µg/L	1 U	1 U	<b>2.3</b>	1 U	1 U	1 U	1 U	--
	MW-26-031417	3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-26B	MW-26B-120116	12/1/2016	µg/L	1 U	1 U	1 U	<b>1.3</b>	1 U	1 U	1 U	--
	MW-26B-031417	3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-28	--	11/28/2016	--	NS	NS	NS	NS	NS	NS	NS	NS
	--	3/15/2017	--	AP	AP	AP	AP	AP	AP	AP	AP
MW-29	MW-29-112916	11/29/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-29-031317	3/13/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-34	--	3/15/2017	--	AP	AP	AP	AP	AP	AP	AP	AP

**Table 6. Analytical Results for Groundwater**

*Comprehensive Site Assessment Report*

*Lewis Drive Release, Belton, South Carolina*

*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

Location	Sample ID	Sample Date	Analyte: Units	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2-DCA	MTBE	Naphthalene	EDB
MW-35	MW-35-120116	12/1/2016	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	--
	MW-35-031417	3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
MW-38	MW-38-113016	11/30/2016	µg/L	1 U	1 U	1 U	1 U	1 U	5.5	1 U	--
	MW-38-031417	3/14/2017	µg/L	1 U	1 U	1 U	3 U	1 U	9.14	5 U	--
MW-39	MW-39-120716	12/7/2016	µg/L	<b>6,320</b>	<b>682</b>	<b>1,290</b>	<b>3,650</b>	50 U	<b>311</b>	<b>86</b>	--
	MW-39-031417	3/14/2017	µg/L	<b>6,370</b>	<b>431</b>	<b>2,200</b>	<b>3,700</b>	10 U	<b>199</b>	<b>117</b>	--
MW-40	MW-40-120716	12/7/2016	µg/L	<b>6,730</b>	<b>588</b>	<b>7,460</b>	<b>3,390</b>	50 U	<b>373</b>	<b>64.8</b>	--
	MW-40-031417	3/14/2017	µg/L	<b>11,600</b>	<b>1,280</b>	<b>16,100</b>	<b>7,260</b>	50 U	<b>691</b>	250 U	--
MW-41	MW-41-120716	12/7/2016	µg/L	<b>212</b>	2 U	2 U	<b>155</b>	2 U	<b>6.7</b>	<b>5.6</b>	--
	MW-41-031417	3/14/2017	µg/L	<b>469</b>	<b>1.78</b>	1 U	<b>275</b>	1 U	<b>4.34</b>	<b>18.1</b>	--
MW-42	MW-42-120716	12/7/2016	µg/L	<b>3.8</b>	1 U	1 U	<b>2.7</b>	1 U	1 U	1 U	--
	MW-42-031417	3/14/2017	µg/L	<b>19.3</b>	1 U	1 U	3 U	1 U	<b>1.12</b>	5 U	--
MW-45	--	3/13/2017	--	NS	NS	NS	NS	NS	NS	NS	NS
MW-45B	MW-45B-031317	3/13/2017	µg/L	1 U	1 U	1 U	3 U	1 U	1 U	5 U	--
			<b>RBSL<sup>a</sup>: µg/L</b>	5.0	700	1,000	10,000	5.0	40	25	0.05

Notes:

<sup>a</sup> RBSL = Risk-based screening levels identified in South Carolina Underground Storage Tank Management Division Programmatic Quality Assurance Program Plan, Revision 3, Table D1 "RBSLs for Groundwater", May 2015

Samples analyzed by EPA Methods SW 8260B and 8011

µg/L = microgram(s) per liter

1,2-DCA = 1,2-dichloroethane

AP = analysis pending, results have not been received by the laboratory

EDB = 1,2-dibromoethane

FP = sample not collected due to the presence of free product in the well

ID = identification

MTBE = methyl tertiary butyl ether

NS = sample not collected due to insufficient volume of water in well

U = analyte was not detected above the reported sample quantitation limit

**Bold indicates the analyte was detected above the method detection limit.**

Gray shading indicates the analyte exceeded RBSLs.

<sup>1</sup> The analyte was analyzed for, but was not detected above the laboratory reporting/quantitation limit. However, the laboratory reporting/quantitation limit is above the screening criteria. The actual absence or presence of this analyte between the screening criteria and the laboratory reporting/quantitation limit can not be determined.

**Table 7. Analytical Results for Surface Water**

Lewis Drive Release, Belton, South Carolina

Site ID #18693 "Kinder Morgan Belton Pipeline Release"

Location	Sample ID	Date Collected	Analyte: Units	Benzene	Ethylbenzene	Toluene	m&p-Xylene	o-Xylene	Naphthalene	MTBE	
SW-01	SW01-022817	2/28/2017	µg/L	<b>18.5</b>	<b>1.93</b>	<b>37.0</b>	<b>13.8</b>	<b>10.2</b>	5 U <sup>1</sup>	NA	
	SW01-031517	3/15/2017	µg/L	<b>3.02</b>	1 U	<b>5.13</b>	<b>2.16</b>	<b>1.74</b>	5 U <sup>1</sup>	NA	
SW-02	SW02-022817	2/28/2017	µg/L	<b>10.7</b>	1 U	<b>11.0</b>	<b>4.14</b>	<b>4.23</b>	5 U <sup>1</sup>	NA	
	SW02-031517	3/15/2017	µg/L	<b>11.4</b>	1 U	<b>8.6</b>	<b>4.45</b>	<b>3.6</b>	5 U <sup>1</sup>	NA	
SW-03	SW03-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA	
	SW03-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA	
SW-04	SW04-022817	2/28/2017	µg/L	1 U	1 U	<b>1.13</b>	2 U	1 U	5 U <sup>1</sup>	NA	
	SW04-031517	3/15/2017	µg/L	1 U	1 U	<b>2.90</b>	2 U	1 U	5 U <sup>1</sup>	NA	
SW-07	SW07-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA	
SW-08	SW08-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA	
	SW08-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA	
SW-09	SW09-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA	
	SW09-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA	
SW-10	SW10-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA	
	SW10-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA	
SW-11	SW11-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA	
	SW11-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA	
SW-12	SW12-022817	2/28/2017	µg/L	<b>26.1</b>	<b>4.04</b>	<b>62.3</b>	<b>18.0</b>	<b>9.73</b>	5 U <sup>1</sup>	NA	
	SW12-031517	3/15/2017	µg/L	<b>125</b>	<b>15.3</b>	<b>185</b>	<b>67.9</b>	<b>35.5</b>	5 U <sup>1</sup>	NA	
SW-13	SW13-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA	
	SW13-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA	
FP-01	FP01-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA	
	FP01-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA	
FP-02	FP02-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA	
	FP02-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA	
FP-03	FP03-022817	2/28/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA	
	FP03-031517	3/15/2017	µg/L	1 U	1 U	1 U	2 U	1 U	5 U <sup>1</sup>	NA	
Screening Value:				µg/L	2.2 <sup>a</sup>	530 <sup>a</sup>	1,000 <sup>a</sup>	190 <sup>b,c</sup>	190 <sup>b</sup>	0.17 <sup>b</sup>	14 <sup>b</sup>

Notes:

<sup>a</sup> South Carolina Department of Health and Environmental Control (SC DHEC) R.61-68, Water Classifications and Standards, Human Health for consumption of water and organism, June 22, 2012

<sup>b</sup> U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSLs). Tapwater. June 2015. RSLs based on hazard quotient (HQ) = 1 and cancer risk = 1 x 10<sup>-6</sup>

<sup>c</sup> RSL value for total xylenes used for m&p-Xylene

<sup>1</sup> The analyte was analyzed for, but was not detected above the laboratory reporting/quantitation limit. However, the laboratory reporting/quantitation limit is above the screening criteria. The actual absence or presence of this analyte between the screening criteria and the laboratory reporting/quantitation limit can not be determined.

**Table 7. Analytical Results for Surface Water**

*Lewis Drive Release, Belton, South Carolina*

*Site ID #18693 "Kinder Morgan Belton Pipeline Release"*

<b>Location</b>	<b>Sample ID</b>	<b>Date Collected</b>	<b>Analyte: Units</b>	<b>Benzene</b>	<b>Ethylbenzene</b>	<b>Toluene</b>	<b>m&amp;p-Xylene</b>	<b>o-Xylene</b>	<b>Naphthalene</b>	<b>MTBE</b>
-----------------	------------------	-----------------------	-----------------------	----------------	---------------------	----------------	-----------------------	-----------------	--------------------	-------------

Samples analyzed for volatile organic compounds by EPA method SW 8260B

ID = identification

J = estimated value between method detection limit and the reporting limit

MTBE = methyl tertiary butyl ether

NA = not analyzed

U = analyte was not detected above the reported sample quantitation limit

µg/L = microgram(s) per liter

**Bold indicates the analyte was detected above the laboratory reporting/quantitation limit.**

Gray shading indicates the analyte exceeded screening criteria.

# Groundwater Analytical Lab Reports

## CH2M Hill- Kinder Morgan- Atlanta, GA

Sample Delivery Group: L895881  
Samples Received: 03/14/2017  
Project Number: 684910.LD.RA.ST  
Description: Lewis Drive Site  
Site: LEWIS DR  
Report To: Bethany Garvey  
6600 Peachtree Dunwoody Road  
400 Embassy Row - Suite 600  
Atlanta, GA 30328

Entire Report Reviewed By:



Chris McCord  
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.





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# SAMPLE SUMMARY



## MW-45B-031317 L895881-01 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961684	1	03/19/17 21:21	03/19/17 21:21	JHH

Collected by JM/PK      Collected date/time 03/13/17 12:20      Received date/time 03/14/17 09:00

1 Cp

## MW-44B-031317 L895881-02 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961684	1	03/19/17 21:43	03/19/17 21:43	JHH

Collected by JM/PK      Collected date/time 03/13/17 15:20      Received date/time 03/14/17 09:00

2 Tc

3 Ss

4 Cn

## MW-29-031317 L895881-03 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961684	1	03/19/17 22:06	03/19/17 22:06	JHH

Collected by JM/PK      Collected date/time 03/13/17 15:35      Received date/time 03/14/17 09:00

5 Sr

6 Qc

7 Gl

## MW-17B-031317 L895881-04 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961684	200	03/19/17 22:29	03/19/17 22:29	JHH

Collected by JM/PK      Collected date/time 03/13/17 15:55      Received date/time 03/14/17 09:00

8 Al

9 Sc

## MW-23-031317 L895881-05 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961684	5	03/19/17 22:52	03/19/17 22:52	JHH

Collected by JM/PK      Collected date/time 03/13/17 15:15      Received date/time 03/14/17 09:00

## MW-23B-031317 L895881-06 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961684	1	03/19/17 23:15	03/19/17 23:15	JHH

Collected by JM/PK      Collected date/time 03/13/17 16:25      Received date/time 03/14/17 09:00

## FB-01-031317 L895881-07 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961684	1	03/19/17 23:37	03/19/17 23:37	JHH

Collected by JM/PK      Collected date/time 03/13/17 16:45      Received date/time 03/14/17 09:00

## TB-01-031317 L895881-08 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961684	1	03/19/17 20:58	03/19/17 20:58	JHH

Collected by JM/PK      Collected date/time 03/13/17 16:45      Received date/time 03/14/17 09:00



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord  
Technical Service Representative

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/19/2017 21:21	<a href="#">WG961684</a>
Toluene	ND		0.00100	1	03/19/2017 21:21	<a href="#">WG961684</a>
Ethylbenzene	ND		0.00100	1	03/19/2017 21:21	<a href="#">WG961684</a>
Total Xylenes	ND		0.00300	1	03/19/2017 21:21	<a href="#">WG961684</a>
Methyl tert-butyl ether	ND		0.00100	1	03/19/2017 21:21	<a href="#">WG961684</a>
Naphthalene	ND		0.00500	1	03/19/2017 21:21	<a href="#">WG961684</a>
1,2-Dichloroethane	ND		0.00100	1	03/19/2017 21:21	<a href="#">WG961684</a>
(S) Toluene-d8	105		80.0-120		03/19/2017 21:21	<a href="#">WG961684</a>
(S) Dibromofluoromethane	91.2		76.0-123		03/19/2017 21:21	<a href="#">WG961684</a>
(S) 4-Bromofluorobenzene	96.8		80.0-120		03/19/2017 21:21	<a href="#">WG961684</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/19/2017 21:43	<a href="#">WG961684</a>
Toluene	ND		0.00100	1	03/19/2017 21:43	<a href="#">WG961684</a>
Ethylbenzene	ND		0.00100	1	03/19/2017 21:43	<a href="#">WG961684</a>
Total Xylenes	ND		0.00300	1	03/19/2017 21:43	<a href="#">WG961684</a>
Methyl tert-butyl ether	ND		0.00100	1	03/19/2017 21:43	<a href="#">WG961684</a>
Naphthalene	ND		0.00500	1	03/19/2017 21:43	<a href="#">WG961684</a>
1,2-Dichloroethane	ND		0.00100	1	03/19/2017 21:43	<a href="#">WG961684</a>
(S) Toluene-d8	104		80.0-120		03/19/2017 21:43	<a href="#">WG961684</a>
(S) Dibromofluoromethane	93.0		76.0-123		03/19/2017 21:43	<a href="#">WG961684</a>
(S) 4-Bromofluorobenzene	96.8		80.0-120		03/19/2017 21:43	<a href="#">WG961684</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/19/2017 22:06	<a href="#">WG961684</a>
Toluene	ND		0.00100	1	03/19/2017 22:06	<a href="#">WG961684</a>
Ethylbenzene	ND		0.00100	1	03/19/2017 22:06	<a href="#">WG961684</a>
Total Xylenes	ND		0.00300	1	03/19/2017 22:06	<a href="#">WG961684</a>
Methyl tert-butyl ether	ND		0.00100	1	03/19/2017 22:06	<a href="#">WG961684</a>
Naphthalene	ND		0.00500	1	03/19/2017 22:06	<a href="#">WG961684</a>
1,2-Dichloroethane	ND		0.00100	1	03/19/2017 22:06	<a href="#">WG961684</a>
<i>(S) Toluene-d8</i>	105		80.0-120		03/19/2017 22:06	<a href="#">WG961684</a>
<i>(S) Dibromofluoromethane</i>	91.8		76.0-123		03/19/2017 22:06	<a href="#">WG961684</a>
<i>(S) 4-Bromofluorobenzene</i>	96.2		80.0-120		03/19/2017 22:06	<a href="#">WG961684</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	7.35		0.200	200	03/19/2017 22:29	<a href="#">WG961684</a>
Toluene	14.1		0.200	200	03/19/2017 22:29	<a href="#">WG961684</a>
Ethylbenzene	0.770		0.200	200	03/19/2017 22:29	<a href="#">WG961684</a>
Total Xylenes	4.51		0.600	200	03/19/2017 22:29	<a href="#">WG961684</a>
Methyl tert-butyl ether	0.944		0.200	200	03/19/2017 22:29	<a href="#">WG961684</a>
Naphthalene	ND		1.00	200	03/19/2017 22:29	<a href="#">WG961684</a>
1,2-Dichloroethane	ND		0.200	200	03/19/2017 22:29	<a href="#">WG961684</a>
(S) Toluene-d8	106		80.0-120		03/19/2017 22:29	<a href="#">WG961684</a>
(S) Dibromofluoromethane	93.0		76.0-123		03/19/2017 22:29	<a href="#">WG961684</a>
(S) 4-Bromofluorobenzene	97.0		80.0-120		03/19/2017 22:29	<a href="#">WG961684</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.709		0.00500	5	03/19/2017 22:52	<a href="#">WG961684</a>
Toluene	0.0231		0.00500	5	03/19/2017 22:52	<a href="#">WG961684</a>
Ethylbenzene	ND		0.00500	5	03/19/2017 22:52	<a href="#">WG961684</a>
Total Xylenes	0.548		0.0150	5	03/19/2017 22:52	<a href="#">WG961684</a>
Methyl tert-butyl ether	0.127		0.00500	5	03/19/2017 22:52	<a href="#">WG961684</a>
Naphthalene	ND		0.0250	5	03/19/2017 22:52	<a href="#">WG961684</a>
1,2-Dichloroethane	ND		0.00500	5	03/19/2017 22:52	<a href="#">WG961684</a>
<i>(S) Toluene-d8</i>	106		80.0-120		03/19/2017 22:52	<a href="#">WG961684</a>
<i>(S) Dibromofluoromethane</i>	95.5		76.0-123		03/19/2017 22:52	<a href="#">WG961684</a>
<i>(S) 4-Bromofluorobenzene</i>	97.5		80.0-120		03/19/2017 22:52	<a href="#">WG961684</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/19/2017 23:15	<a href="#">WG961684</a>
Toluene	0.00263		0.00100	1	03/19/2017 23:15	<a href="#">WG961684</a>
Ethylbenzene	0.00111		0.00100	1	03/19/2017 23:15	<a href="#">WG961684</a>
Total Xylenes	0.00886		0.00300	1	03/19/2017 23:15	<a href="#">WG961684</a>
Methyl tert-butyl ether	ND		0.00100	1	03/19/2017 23:15	<a href="#">WG961684</a>
Naphthalene	ND		0.00500	1	03/19/2017 23:15	<a href="#">WG961684</a>
1,2-Dichloroethane	ND		0.00100	1	03/19/2017 23:15	<a href="#">WG961684</a>
<i>(S) Toluene-d8</i>	106		80.0-120		03/19/2017 23:15	<a href="#">WG961684</a>
<i>(S) Dibromofluoromethane</i>	91.9		76.0-123		03/19/2017 23:15	<a href="#">WG961684</a>
<i>(S) 4-Bromofluorobenzene</i>	98.1		80.0-120		03/19/2017 23:15	<a href="#">WG961684</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/19/2017 23:37	<a href="#">WG961684</a>
Toluene	ND		0.00100	1	03/19/2017 23:37	<a href="#">WG961684</a>
Ethylbenzene	ND		0.00100	1	03/19/2017 23:37	<a href="#">WG961684</a>
Total Xylenes	ND		0.00300	1	03/19/2017 23:37	<a href="#">WG961684</a>
Methyl tert-butyl ether	ND		0.00100	1	03/19/2017 23:37	<a href="#">WG961684</a>
Naphthalene	ND		0.00500	1	03/19/2017 23:37	<a href="#">WG961684</a>
1,2-Dichloroethane	ND		0.00100	1	03/19/2017 23:37	<a href="#">WG961684</a>
(S) Toluene-d8	105		80.0-120		03/19/2017 23:37	<a href="#">WG961684</a>
(S) Dibromofluoromethane	91.4		76.0-123		03/19/2017 23:37	<a href="#">WG961684</a>
(S) 4-Bromofluorobenzene	96.5		80.0-120		03/19/2017 23:37	<a href="#">WG961684</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/19/2017 20:58	<a href="#">WG961684</a>
Toluene	ND		0.00100	1	03/19/2017 20:58	<a href="#">WG961684</a>
Ethylbenzene	ND		0.00100	1	03/19/2017 20:58	<a href="#">WG961684</a>
Total Xylenes	ND		0.00300	1	03/19/2017 20:58	<a href="#">WG961684</a>
Methyl tert-butyl ether	ND		0.00100	1	03/19/2017 20:58	<a href="#">WG961684</a>
Naphthalene	ND		0.00500	1	03/19/2017 20:58	<a href="#">WG961684</a>
1,2-Dichloroethane	ND		0.00100	1	03/19/2017 20:58	<a href="#">WG961684</a>
<i>(S) Toluene-d8</i>	105		80.0-120		03/19/2017 20:58	<a href="#">WG961684</a>
<i>(S) Dibromofluoromethane</i>	90.5		76.0-123		03/19/2017 20:58	<a href="#">WG961684</a>
<i>(S) 4-Bromofluorobenzene</i>	96.1		80.0-120		03/19/2017 20:58	<a href="#">WG961684</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3204544-3 03/19/17 17:58

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.000331	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
Ethylbenzene	U		0.000384	0.00100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000412	0.00100
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	105			80.0-120
(S) Dibromofluoromethane	90.6			76.0-123
(S) 4-Bromofluorobenzene	97.4			80.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3204544-1 03/19/17 16:50 • (LCSD) R3204544-2 03/19/17 17:13

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Benzene	0.0250	0.0246	0.0251	98.4	100	70.0-130			1.95	20
1,2-Dichloroethane	0.0250	0.0268	0.0272	107	109	70.0-130			1.73	20
Ethylbenzene	0.0250	0.0213	0.0211	85.3	84.5	70.0-130			0.930	20
Methyl tert-butyl ether	0.0250	0.0232	0.0239	92.9	95.7	70.0-130			2.97	20
Naphthalene	0.0250	0.0247	0.0240	98.9	95.9	70.0-130			3.10	20
Toluene	0.0250	0.0244	0.0248	97.7	99.1	70.0-130			1.39	20
Xylenes, Total	0.0750	0.0646	0.0641	86.1	85.5	70.0-130			0.780	20
(S) Toluene-d8				107	107	80.0-120				
(S) Dibromofluoromethane				91.8	93.0	76.0-123				
(S) 4-Bromofluorobenzene				96.1	95.2	80.0-120				

L895881-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L895881-04 03/19/17 22:29 • (MS) R3204544-4 03/19/17 19:49 • (MSD) R3204544-5 03/19/17 20:12

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Benzene	0.0250	7.35	11.9	12.8	91.2	109	200	54.3-133			7.04	20
1,2-Dichloroethane	0.0250	ND	5.87	6.19	117	124	200	60.0-126			5.43	20
Ethylbenzene	0.0250	0.770	4.94	5.32	83.5	91.0	200	61.4-133			7.29	20
Methyl tert-butyl ether	0.0250	0.944	6.29	6.60	107	113	200	57.7-134			4.70	20
Naphthalene	0.0250	ND	5.40	5.88	108	118	200	58.0-135			8.53	25.5
Toluene	0.0250	14.1	18.4	19.5	85.4	108	200	61.4-130			5.85	20
Xylenes, Total	0.0750	4.51	17.0	18.2	83.1	91.3	200	63.3-131			7.05	20



L895881-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L895881-04 03/19/17 22:29 • (MS) R3204544-4 03/19/17 19:49 • (MSD) R3204544-5 03/19/17 20:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
(S) Toluene-d8					107	108		80.0-120				
(S) Dibromofluoromethane					94.6	94.9		76.0-123				
(S) 4-Bromofluorobenzene					94.9	94.9		80.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier                      Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.  
 \* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina <sup>1</sup>	DW21704
Florida	E87487	North Carolina <sup>2</sup>	41
Georgia	NELAP	North Dakota	R-140
Georgia <sup>1</sup>	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky <sup>1</sup>	90010	South Dakota	n/a
Kentucky <sup>2</sup>	16	Tennessee <sup>14</sup>	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

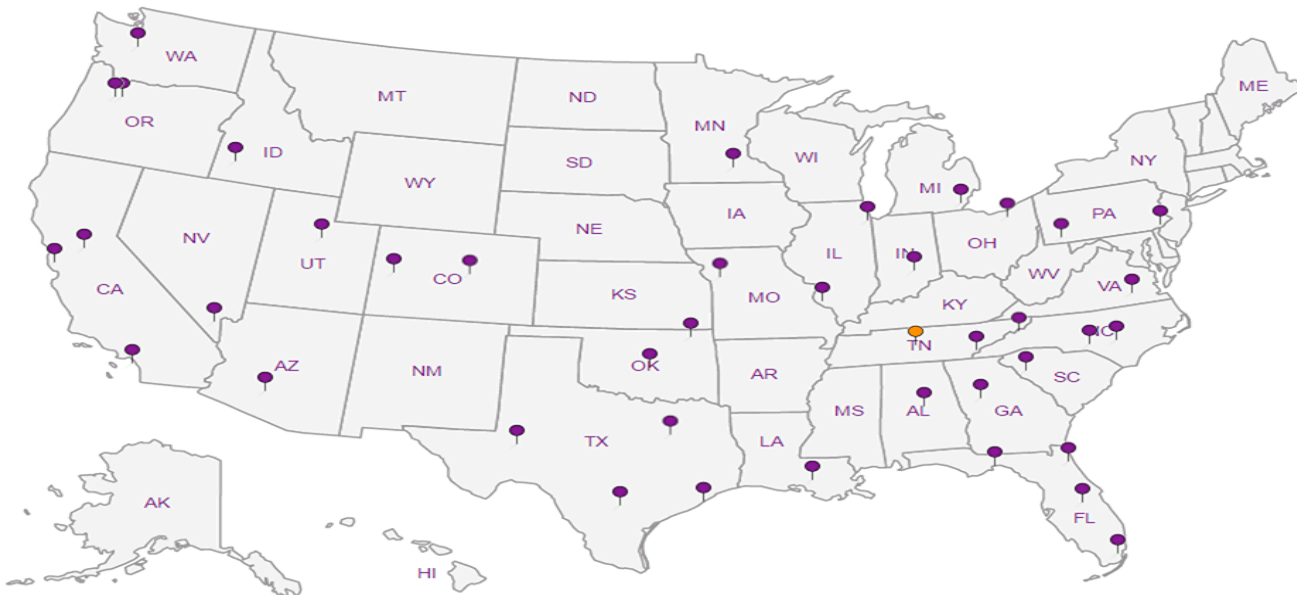
## Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>n/a</sup> Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

**CH2M Hill- Kinder Morgan- Atlanta, GA**

6600 Peachtree Dunwoody Road

Report to:  
Bethany Garvey

Billing Information:  
Accounts Payable  
1000 Windward Concourse  
Ste 450  
Alpharetta, GA 30005

Email To: bethany.garvey@ch2m.com

Project  
Description: Lewis Drive Site

City/State  
Collected: Belton, SC

Phone: 770-604-9182  
Fax:

Client Project #  
684910.LD.RA.5

Lab Project #  
KINCH2MGA-LEWIS12

Collected by (print):  
Justine McLann  
Paula Kramer

Site/Facility ID #  
LEWIS Dr

P.O. #

Collected by (signature):  
Justine McLann

Rush? (Lab MUST Be Notified)  
Same Day  Five Day  
Next Day  5 Day (Rad Only)  
Two Day  10 Day (Rad Only)  
Three Day

Quote #

Immediately  
Packed on Ice N  Y

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
MW-45B-031317	G	GW	N/A	3/13/17	1220	3
MW-44B-031317		GW			1520	3
MW-29-031317		GW			1535	3
MW-17B-031317		GW			1555	3
MW-23-031317		GW			1615	3
MW-23B-031317		GW			1625	3
FB-01-031317		GW			1645	3
TB-01-031317	↓	GW	↓	↓	1645	3
		GW				3
		GW				3

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:  
Samples returned via:  
UPS  FedEx  Courier

pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_  
Tracking # 7176 9010 5758

Sample Receipt Checklist  
COC Seal Present/Intact:  Y  N  
COC Signed/Accurate:  Y  N  
Bottles arrive intact:  Y  N  
Correct bottles used:  Y  N  
Sufficient volume sent:  Y  N  
If Applicable  
VOA Zero Headspace:  Y  N  
Preservation Correct/Checked:  Y  N

Relinquished by: (Signature)  
Justine McLann  
Date: 3/13/17  
Time: 1800

Received by: (Signature)  
Trip Blank Received: Yes/No  
HCL/MeOH  
TBR  
Temp: 21 °C  
Bottles Received: 21  
Date: 3-14-17  
Time: 900

If preservation required by Login: Date/Time  
Hold:  
Condition: NCF /

Analysis / Container / Preservative	Pres Chk
V8260BTEXMNSC 40mlAmb-HCl	X
V8260BTEXMNSC-TB 40mlAmb-HCl-Bik	

Chain of Custody Page 1 of 1

YOUR LAB OF CHOICE

12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859

L # 1895881  
E226

Accctnum: KINCH2MGA  
Template: T121318  
Prelogin: P592452  
TSR: 526 - Chris McCord  
PB: TG 3-8-17

Shipped Via: FedEX Ground

Remarks	Sample # (lab only)
	01
	02
	03
	04
	05
	06
	07
	08



## CH2M Hill- Kinder Morgan- Atlanta, GA

Sample Delivery Group: L896133  
Samples Received: 03/15/2017  
Project Number: 684910.LD.RA.ST  
Description: Lewis Drive Site  
Site: LEWIS DR  
Report To: Bethany Garvey  
6600 Peachtree Dunwoody Road  
400 Embassy Row - Suite 600  
Atlanta, GA 30328

Entire Report Reviewed By:



Chris McCord  
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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# SAMPLE SUMMARY



## MW-26B-031417 L896133-01 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Justine McCann				Collected date/time 03/14/17 08:55	Received date/time 03/15/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961684	1	03/20/17 00:00	03/20/17 00:00	JHH

1 Cp

2 Tc

3 Ss

## MW-26-031417 L896133-02 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Justine McCann				Collected date/time 03/14/17 09:05	Received date/time 03/15/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961684	1	03/20/17 00:23	03/20/17 00:23	JHH

4 Cn

5 Sr

## MW-15B-031417 L896133-03 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Justine McCann				Collected date/time 03/14/17 09:30	Received date/time 03/15/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961684	100	03/20/17 00:46	03/20/17 00:46	JHH

6 Qc

7 Gl

## MW-15-031417 L896133-04 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Justine McCann				Collected date/time 03/14/17 09:45	Received date/time 03/15/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961684	25	03/20/17 01:09	03/20/17 01:09	JHH

8 Al

9 Sc

## MW-15-031417-FD L896133-05 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Justine McCann				Collected date/time 03/14/17 09:50	Received date/time 03/15/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961684	25	03/20/17 01:32	03/20/17 01:32	JHH

## MW-12B-031417 L896133-06 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Justine McCann				Collected date/time 03/14/17 10:05	Received date/time 03/15/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961684	1	03/20/17 01:54	03/20/17 01:54	JHH

## MW-12B-031417-FD L896133-07 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Justine McCann				Collected date/time 03/14/17 10:10	Received date/time 03/15/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961684	1	03/20/17 02:17	03/20/17 02:17	JHH

## MW-35-031417 L896133-08 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Justine McCann				Collected date/time 03/14/17 10:35	Received date/time 03/15/17 09:00
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961684	1	03/20/17 02:40	03/20/17 02:40	JHH

# SAMPLE SUMMARY



## MW-25-031417 L896133-09 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Justine McCann			Collected date/time 03/14/17 10:45	Received date/time 03/15/17 09:00	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961684	10	03/20/17 03:03	03/20/17 03:03	JHH

1  
Cp

2  
Tc

3  
Ss

## MW-25B-031417 L896133-10 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Justine McCann			Collected date/time 03/14/17 10:50	Received date/time 03/15/17 09:00	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961684	1	03/20/17 03:26	03/20/17 03:26	JHH

4  
Cn

5  
Sr

## MW-42-031417 L896133-11 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Justine McCann			Collected date/time 03/14/17 11:05	Received date/time 03/15/17 09:00	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961684	1	03/20/17 03:48	03/20/17 03:48	JHH

6  
Qc

7  
Gl

## MW-41-031417 L896133-12 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Justine McCann			Collected date/time 03/14/17 11:15	Received date/time 03/15/17 09:00	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961684	1	03/20/17 04:11	03/20/17 04:11	JHH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961684	10	03/21/17 14:50	03/21/17 14:50	BMB

8  
Al

9  
Sc

## MW-39-031417 L896133-13 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Justine McCann			Collected date/time 03/14/17 11:40	Received date/time 03/15/17 09:00	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961685	10	03/21/17 12:47	03/21/17 12:47	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961685	100	03/21/17 18:49	03/21/17 18:49	BMB

## FB-01-031417 L896133-14 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Justine McCann			Collected date/time 03/14/17 15:10	Received date/time 03/15/17 09:00	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961685	1	03/21/17 13:08	03/21/17 13:08	BMB

## MW-40-031417 L896133-15 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Justine McCann			Collected date/time 03/14/17 11:50	Received date/time 03/15/17 09:00	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961685	50	03/21/17 13:29	03/21/17 13:29	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961685	500	03/21/17 19:10	03/21/17 19:10	BMB

## MW-21-031417 L896133-16 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Justine McCann			Collected date/time 03/14/17 15:15	Received date/time 03/15/17 09:00	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961685	1	03/21/17 13:51	03/21/17 13:51	BMB

# SAMPLE SUMMARY



MW-38-031417 L896133-17 GW

Collected by: Justine McCann  
 Collected date/time: 03/14/17 13:15  
 Received date/time: 03/15/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961685	1	03/21/17 14:12	03/21/17 14:12	BMB

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

TB-01-031417 L896133-18 GW

Collected by: Justine McCann  
 Collected date/time: 03/14/17 15:15  
 Received date/time: 03/15/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG961685	1	03/21/17 12:25	03/21/17 12:25	BMB

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord  
Technical Service Representative

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/20/2017 00:00	<a href="#">WG961684</a>
Toluene	ND		0.00100	1	03/20/2017 00:00	<a href="#">WG961684</a>
Ethylbenzene	ND		0.00100	1	03/20/2017 00:00	<a href="#">WG961684</a>
Total Xylenes	ND		0.00300	1	03/20/2017 00:00	<a href="#">WG961684</a>
Methyl tert-butyl ether	ND		0.00100	1	03/20/2017 00:00	<a href="#">WG961684</a>
Naphthalene	ND		0.00500	1	03/20/2017 00:00	<a href="#">WG961684</a>
1,2-Dichloroethane	ND		0.00100	1	03/20/2017 00:00	<a href="#">WG961684</a>
(S) Toluene-d8	105		80.0-120		03/20/2017 00:00	<a href="#">WG961684</a>
(S) Dibromofluoromethane	92.7		76.0-123		03/20/2017 00:00	<a href="#">WG961684</a>
(S) 4-Bromofluorobenzene	97.0		80.0-120		03/20/2017 00:00	<a href="#">WG961684</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/20/2017 00:23	<a href="#">WG961684</a>
Toluene	ND		0.00100	1	03/20/2017 00:23	<a href="#">WG961684</a>
Ethylbenzene	ND		0.00100	1	03/20/2017 00:23	<a href="#">WG961684</a>
Total Xylenes	ND		0.00300	1	03/20/2017 00:23	<a href="#">WG961684</a>
Methyl tert-butyl ether	ND		0.00100	1	03/20/2017 00:23	<a href="#">WG961684</a>
Naphthalene	ND		0.00500	1	03/20/2017 00:23	<a href="#">WG961684</a>
1,2-Dichloroethane	ND		0.00100	1	03/20/2017 00:23	<a href="#">WG961684</a>
<i>(S) Toluene-d8</i>	105		80.0-120		03/20/2017 00:23	<a href="#">WG961684</a>
<i>(S) Dibromofluoromethane</i>	90.7		76.0-123		03/20/2017 00:23	<a href="#">WG961684</a>
<i>(S) 4-Bromofluorobenzene</i>	97.6		80.0-120		03/20/2017 00:23	<a href="#">WG961684</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	2.16		0.100	100	03/20/2017 00:46	<a href="#">WG961684</a>
Toluene	4.58		0.100	100	03/20/2017 00:46	<a href="#">WG961684</a>
Ethylbenzene	0.248		0.100	100	03/20/2017 00:46	<a href="#">WG961684</a>
Total Xylenes	1.50		0.300	100	03/20/2017 00:46	<a href="#">WG961684</a>
Methyl tert-butyl ether	0.118		0.100	100	03/20/2017 00:46	<a href="#">WG961684</a>
Naphthalene	ND		0.500	100	03/20/2017 00:46	<a href="#">WG961684</a>
1,2-Dichloroethane	ND		0.100	100	03/20/2017 00:46	<a href="#">WG961684</a>
<i>(S) Toluene-d8</i>	105		80.0-120		03/20/2017 00:46	<a href="#">WG961684</a>
<i>(S) Dibromofluoromethane</i>	90.8		76.0-123		03/20/2017 00:46	<a href="#">WG961684</a>
<i>(S) 4-Bromofluorobenzene</i>	99.1		80.0-120		03/20/2017 00:46	<a href="#">WG961684</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	1.96		0.0250	25	03/20/2017 01:09	<a href="#">WG961684</a>
Toluene	0.324		0.0250	25	03/20/2017 01:09	<a href="#">WG961684</a>
Ethylbenzene	0.0721		0.0250	25	03/20/2017 01:09	<a href="#">WG961684</a>
Total Xylenes	1.32		0.0750	25	03/20/2017 01:09	<a href="#">WG961684</a>
Methyl tert-butyl ether	0.161		0.0250	25	03/20/2017 01:09	<a href="#">WG961684</a>
Naphthalene	ND		0.125	25	03/20/2017 01:09	<a href="#">WG961684</a>
1,2-Dichloroethane	ND		0.0250	25	03/20/2017 01:09	<a href="#">WG961684</a>
<i>(S) Toluene-d8</i>	105		80.0-120		03/20/2017 01:09	<a href="#">WG961684</a>
<i>(S) Dibromofluoromethane</i>	93.1		76.0-123		03/20/2017 01:09	<a href="#">WG961684</a>
<i>(S) 4-Bromofluorobenzene</i>	96.8		80.0-120		03/20/2017 01:09	<a href="#">WG961684</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	1.82		0.0250	25	03/20/2017 01:32	<a href="#">WG961684</a>
Toluene	0.286		0.0250	25	03/20/2017 01:32	<a href="#">WG961684</a>
Ethylbenzene	0.0605		0.0250	25	03/20/2017 01:32	<a href="#">WG961684</a>
Total Xylenes	1.12		0.0750	25	03/20/2017 01:32	<a href="#">WG961684</a>
Methyl tert-butyl ether	0.153		0.0250	25	03/20/2017 01:32	<a href="#">WG961684</a>
Naphthalene	ND		0.125	25	03/20/2017 01:32	<a href="#">WG961684</a>
1,2-Dichloroethane	ND		0.0250	25	03/20/2017 01:32	<a href="#">WG961684</a>
<i>(S) Toluene-d8</i>	106		80.0-120		03/20/2017 01:32	<a href="#">WG961684</a>
<i>(S) Dibromofluoromethane</i>	91.9		76.0-123		03/20/2017 01:32	<a href="#">WG961684</a>
<i>(S) 4-Bromofluorobenzene</i>	97.9		80.0-120		03/20/2017 01:32	<a href="#">WG961684</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/20/2017 01:54	<a href="#">WG961684</a>
Toluene	ND		0.00100	1	03/20/2017 01:54	<a href="#">WG961684</a>
Ethylbenzene	ND		0.00100	1	03/20/2017 01:54	<a href="#">WG961684</a>
Total Xylenes	ND		0.00300	1	03/20/2017 01:54	<a href="#">WG961684</a>
Methyl tert-butyl ether	ND		0.00100	1	03/20/2017 01:54	<a href="#">WG961684</a>
Naphthalene	ND		0.00500	1	03/20/2017 01:54	<a href="#">WG961684</a>
1,2-Dichloroethane	ND		0.00100	1	03/20/2017 01:54	<a href="#">WG961684</a>
(S) Toluene-d8	105		80.0-120		03/20/2017 01:54	<a href="#">WG961684</a>
(S) Dibromofluoromethane	91.3		76.0-123		03/20/2017 01:54	<a href="#">WG961684</a>
(S) 4-Bromofluorobenzene	97.7		80.0-120		03/20/2017 01:54	<a href="#">WG961684</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/20/2017 02:17	<a href="#">WG961684</a>
Toluene	ND		0.00100	1	03/20/2017 02:17	<a href="#">WG961684</a>
Ethylbenzene	ND		0.00100	1	03/20/2017 02:17	<a href="#">WG961684</a>
Total Xylenes	ND		0.00300	1	03/20/2017 02:17	<a href="#">WG961684</a>
Methyl tert-butyl ether	ND		0.00100	1	03/20/2017 02:17	<a href="#">WG961684</a>
Naphthalene	ND		0.00500	1	03/20/2017 02:17	<a href="#">WG961684</a>
1,2-Dichloroethane	ND		0.00100	1	03/20/2017 02:17	<a href="#">WG961684</a>
(S) Toluene-d8	104		80.0-120		03/20/2017 02:17	<a href="#">WG961684</a>
(S) Dibromofluoromethane	89.9		76.0-123		03/20/2017 02:17	<a href="#">WG961684</a>
(S) 4-Bromofluorobenzene	98.3		80.0-120		03/20/2017 02:17	<a href="#">WG961684</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/20/2017 02:40	<a href="#">WG961684</a>
Toluene	ND		0.00100	1	03/20/2017 02:40	<a href="#">WG961684</a>
Ethylbenzene	ND		0.00100	1	03/20/2017 02:40	<a href="#">WG961684</a>
Total Xylenes	ND		0.00300	1	03/20/2017 02:40	<a href="#">WG961684</a>
Methyl tert-butyl ether	ND		0.00100	1	03/20/2017 02:40	<a href="#">WG961684</a>
Naphthalene	ND		0.00500	1	03/20/2017 02:40	<a href="#">WG961684</a>
1,2-Dichloroethane	ND		0.00100	1	03/20/2017 02:40	<a href="#">WG961684</a>
(S) Toluene-d8	105		80.0-120		03/20/2017 02:40	<a href="#">WG961684</a>
(S) Dibromofluoromethane	90.8		76.0-123		03/20/2017 02:40	<a href="#">WG961684</a>
(S) 4-Bromofluorobenzene	97.4		80.0-120		03/20/2017 02:40	<a href="#">WG961684</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.627		0.0100	10	03/20/2017 03:03	<a href="#">WG961684</a>
Toluene	0.0101		0.0100	10	03/20/2017 03:03	<a href="#">WG961684</a>
Ethylbenzene	0.0286		0.0100	10	03/20/2017 03:03	<a href="#">WG961684</a>
Total Xylenes	0.668		0.0300	10	03/20/2017 03:03	<a href="#">WG961684</a>
Methyl tert-butyl ether	ND		0.0100	10	03/20/2017 03:03	<a href="#">WG961684</a>
Naphthalene	ND		0.0500	10	03/20/2017 03:03	<a href="#">WG961684</a>
1,2-Dichloroethane	ND		0.0100	10	03/20/2017 03:03	<a href="#">WG961684</a>
<i>(S) Toluene-d8</i>	105		80.0-120		03/20/2017 03:03	<a href="#">WG961684</a>
<i>(S) Dibromofluoromethane</i>	93.1		76.0-123		03/20/2017 03:03	<a href="#">WG961684</a>
<i>(S) 4-Bromofluorobenzene</i>	96.5		80.0-120		03/20/2017 03:03	<a href="#">WG961684</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/20/2017 03:26	<a href="#">WG961684</a>
Toluene	ND		0.00100	1	03/20/2017 03:26	<a href="#">WG961684</a>
Ethylbenzene	ND		0.00100	1	03/20/2017 03:26	<a href="#">WG961684</a>
Total Xylenes	ND		0.00300	1	03/20/2017 03:26	<a href="#">WG961684</a>
Methyl tert-butyl ether	ND		0.00100	1	03/20/2017 03:26	<a href="#">WG961684</a>
Naphthalene	ND		0.00500	1	03/20/2017 03:26	<a href="#">WG961684</a>
1,2-Dichloroethane	ND		0.00100	1	03/20/2017 03:26	<a href="#">WG961684</a>
(S) Toluene-d8	106		80.0-120		03/20/2017 03:26	<a href="#">WG961684</a>
(S) Dibromofluoromethane	91.3		76.0-123		03/20/2017 03:26	<a href="#">WG961684</a>
(S) 4-Bromofluorobenzene	97.7		80.0-120		03/20/2017 03:26	<a href="#">WG961684</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0193		0.00100	1	03/20/2017 03:48	<a href="#">WG961684</a>
Toluene	ND		0.00100	1	03/20/2017 03:48	<a href="#">WG961684</a>
Ethylbenzene	ND		0.00100	1	03/20/2017 03:48	<a href="#">WG961684</a>
Total Xylenes	ND		0.00300	1	03/20/2017 03:48	<a href="#">WG961684</a>
Methyl tert-butyl ether	0.00112		0.00100	1	03/20/2017 03:48	<a href="#">WG961684</a>
Naphthalene	ND		0.00500	1	03/20/2017 03:48	<a href="#">WG961684</a>
1,2-Dichloroethane	ND		0.00100	1	03/20/2017 03:48	<a href="#">WG961684</a>
<i>(S) Toluene-d8</i>	106		80.0-120		03/20/2017 03:48	<a href="#">WG961684</a>
<i>(S) Dibromofluoromethane</i>	90.7		76.0-123		03/20/2017 03:48	<a href="#">WG961684</a>
<i>(S) 4-Bromofluorobenzene</i>	97.1		80.0-120		03/20/2017 03:48	<a href="#">WG961684</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.469		0.0100	10	03/21/2017 14:50	<a href="#">WG961684</a>
Toluene	ND		0.00100	1	03/20/2017 04:11	<a href="#">WG961684</a>
Ethylbenzene	0.00178		0.00100	1	03/20/2017 04:11	<a href="#">WG961684</a>
Total Xylenes	0.275		0.00300	1	03/20/2017 04:11	<a href="#">WG961684</a>
Methyl tert-butyl ether	0.00434		0.00100	1	03/20/2017 04:11	<a href="#">WG961684</a>
Naphthalene	0.0181		0.00500	1	03/20/2017 04:11	<a href="#">WG961684</a>
1,2-Dichloroethane	ND		0.00100	1	03/20/2017 04:11	<a href="#">WG961684</a>
<i>(S) Toluene-d8</i>	106		80.0-120		03/20/2017 04:11	<a href="#">WG961684</a>
<i>(S) Toluene-d8</i>	107		80.0-120		03/21/2017 14:50	<a href="#">WG961684</a>
<i>(S) Dibromofluoromethane</i>	99.5		76.0-123		03/20/2017 04:11	<a href="#">WG961684</a>
<i>(S) Dibromofluoromethane</i>	106		76.0-123		03/21/2017 14:50	<a href="#">WG961684</a>
<i>(S) 4-Bromofluorobenzene</i>	96.2		80.0-120		03/20/2017 04:11	<a href="#">WG961684</a>
<i>(S) 4-Bromofluorobenzene</i>	98.8		80.0-120		03/21/2017 14:50	<a href="#">WG961684</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	6.37		0.100	100	03/21/2017 18:49	<a href="#">WG961685</a>
Toluene	2.20		0.100	100	03/21/2017 18:49	<a href="#">WG961685</a>
Ethylbenzene	0.431		0.0100	10	03/21/2017 12:47	<a href="#">WG961685</a>
Total Xylenes	3.70		0.0300	10	03/21/2017 12:47	<a href="#">WG961685</a>
Methyl tert-butyl ether	0.199		0.0100	10	03/21/2017 12:47	<a href="#">WG961685</a>
Naphthalene	0.117		0.0500	10	03/21/2017 12:47	<a href="#">WG961685</a>
1,2-Dichloroethane	ND		0.0100	10	03/21/2017 12:47	<a href="#">WG961685</a>
(S) Toluene-d8	104		80.0-120		03/21/2017 18:49	<a href="#">WG961685</a>
(S) Toluene-d8	106		80.0-120		03/21/2017 12:47	<a href="#">WG961685</a>
(S) Dibromofluoromethane	81.7		76.0-123		03/21/2017 12:47	<a href="#">WG961685</a>
(S) Dibromofluoromethane	93.9		76.0-123		03/21/2017 18:49	<a href="#">WG961685</a>
(S) 4-Bromofluorobenzene	107		80.0-120		03/21/2017 18:49	<a href="#">WG961685</a>
(S) 4-Bromofluorobenzene	112		80.0-120		03/21/2017 12:47	<a href="#">WG961685</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/21/2017 13:08	<a href="#">WG961685</a>
Toluene	ND		0.00100	1	03/21/2017 13:08	<a href="#">WG961685</a>
Ethylbenzene	ND		0.00100	1	03/21/2017 13:08	<a href="#">WG961685</a>
Total Xylenes	ND		0.00300	1	03/21/2017 13:08	<a href="#">WG961685</a>
Methyl tert-butyl ether	ND		0.00100	1	03/21/2017 13:08	<a href="#">WG961685</a>
Naphthalene	ND		0.00500	1	03/21/2017 13:08	<a href="#">WG961685</a>
1,2-Dichloroethane	ND		0.00100	1	03/21/2017 13:08	<a href="#">WG961685</a>
(S) Toluene-d8	107		80.0-120		03/21/2017 13:08	<a href="#">WG961685</a>
(S) Dibromofluoromethane	108		76.0-123		03/21/2017 13:08	<a href="#">WG961685</a>
(S) 4-Bromofluorobenzene	105		80.0-120		03/21/2017 13:08	<a href="#">WG961685</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	11.6		0.500	500	03/21/2017 19:10	<a href="#">WG961685</a>
Toluene	16.1		0.500	500	03/21/2017 19:10	<a href="#">WG961685</a>
Ethylbenzene	1.28		0.0500	50	03/21/2017 13:29	<a href="#">WG961685</a>
Total Xylenes	7.26		0.150	50	03/21/2017 13:29	<a href="#">WG961685</a>
Methyl tert-butyl ether	0.691		0.0500	50	03/21/2017 13:29	<a href="#">WG961685</a>
Naphthalene	ND		0.250	50	03/21/2017 13:29	<a href="#">WG961685</a>
1,2-Dichloroethane	ND		0.0500	50	03/21/2017 13:29	<a href="#">WG961685</a>
(S) Toluene-d8	105		80.0-120		03/21/2017 13:29	<a href="#">WG961685</a>
(S) Toluene-d8	105		80.0-120		03/21/2017 19:10	<a href="#">WG961685</a>
(S) Dibromofluoromethane	103		76.0-123		03/21/2017 19:10	<a href="#">WG961685</a>
(S) Dibromofluoromethane	105		76.0-123		03/21/2017 13:29	<a href="#">WG961685</a>
(S) 4-Bromofluorobenzene	107		80.0-120		03/21/2017 19:10	<a href="#">WG961685</a>
(S) 4-Bromofluorobenzene	108		80.0-120		03/21/2017 13:29	<a href="#">WG961685</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/21/2017 13:51	<a href="#">WG961685</a>
Toluene	ND		0.00100	1	03/21/2017 13:51	<a href="#">WG961685</a>
Ethylbenzene	ND		0.00100	1	03/21/2017 13:51	<a href="#">WG961685</a>
Total Xylenes	ND		0.00300	1	03/21/2017 13:51	<a href="#">WG961685</a>
Methyl tert-butyl ether	ND		0.00100	1	03/21/2017 13:51	<a href="#">WG961685</a>
Naphthalene	ND		0.00500	1	03/21/2017 13:51	<a href="#">WG961685</a>
1,2-Dichloroethane	ND		0.00100	1	03/21/2017 13:51	<a href="#">WG961685</a>
(S) Toluene-d8	108		80.0-120		03/21/2017 13:51	<a href="#">WG961685</a>
(S) Dibromofluoromethane	110		76.0-123		03/21/2017 13:51	<a href="#">WG961685</a>
(S) 4-Bromofluorobenzene	107		80.0-120		03/21/2017 13:51	<a href="#">WG961685</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/21/2017 14:12	<a href="#">WG961685</a>
Toluene	ND		0.00100	1	03/21/2017 14:12	<a href="#">WG961685</a>
Ethylbenzene	ND		0.00100	1	03/21/2017 14:12	<a href="#">WG961685</a>
Total Xylenes	ND		0.00300	1	03/21/2017 14:12	<a href="#">WG961685</a>
Methyl tert-butyl ether	0.00914		0.00100	1	03/21/2017 14:12	<a href="#">WG961685</a>
Naphthalene	ND		0.00500	1	03/21/2017 14:12	<a href="#">WG961685</a>
1,2-Dichloroethane	ND		0.00100	1	03/21/2017 14:12	<a href="#">WG961685</a>
<i>(S) Toluene-d8</i>	107		80.0-120		03/21/2017 14:12	<a href="#">WG961685</a>
<i>(S) Dibromofluoromethane</i>	107		76.0-123		03/21/2017 14:12	<a href="#">WG961685</a>
<i>(S) 4-Bromofluorobenzene</i>	108		80.0-120		03/21/2017 14:12	<a href="#">WG961685</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.00100	1	03/21/2017 12:25	<a href="#">WG961685</a>
Toluene	ND		0.00100	1	03/21/2017 12:25	<a href="#">WG961685</a>
Ethylbenzene	ND		0.00100	1	03/21/2017 12:25	<a href="#">WG961685</a>
Total Xylenes	ND		0.00300	1	03/21/2017 12:25	<a href="#">WG961685</a>
Methyl tert-butyl ether	ND		0.00100	1	03/21/2017 12:25	<a href="#">WG961685</a>
Naphthalene	ND		0.00500	1	03/21/2017 12:25	<a href="#">WG961685</a>
1,2-Dichloroethane	ND		0.00100	1	03/21/2017 12:25	<a href="#">WG961685</a>
(S) Toluene-d8	108		80.0-120		03/21/2017 12:25	<a href="#">WG961685</a>
(S) Dibromofluoromethane	109		76.0-123		03/21/2017 12:25	<a href="#">WG961685</a>
(S) 4-Bromofluorobenzene	108		80.0-120		03/21/2017 12:25	<a href="#">WG961685</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Method Blank (MB)

(MB) R3204544-3 03/19/17 17:58

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.000331	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
Ethylbenzene	U		0.000384	0.00100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000412	0.00100
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	105			80.0-120
(S) Dibromofluoromethane	90.6			76.0-123
(S) 4-Bromofluorobenzene	97.4			80.0-120

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3204544-1 03/19/17 16:50 • (LCSD) R3204544-2 03/19/17 17:13

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Benzene	0.0250	0.0246	0.0251	98.4	100	70.0-130			1.95	20
1,2-Dichloroethane	0.0250	0.0268	0.0272	107	109	70.0-130			1.73	20
Ethylbenzene	0.0250	0.0213	0.0211	85.3	84.5	70.0-130			0.930	20
Methyl tert-butyl ether	0.0250	0.0232	0.0239	92.9	95.7	70.0-130			2.97	20
Naphthalene	0.0250	0.0247	0.0240	98.9	95.9	70.0-130			3.10	20
Toluene	0.0250	0.0244	0.0248	97.7	99.1	70.0-130			1.39	20
Xylenes, Total	0.0750	0.0646	0.0641	86.1	85.5	70.0-130			0.780	20
(S) Toluene-d8				107	107	80.0-120				
(S) Dibromofluoromethane				91.8	93.0	76.0-123				
(S) 4-Bromofluorobenzene				96.1	95.2	80.0-120				

L895881-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L895881-04 03/19/17 22:29 • (MS) R3204544-4 03/19/17 19:49 • (MSD) R3204544-5 03/19/17 20:12

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Benzene	0.0250	7.35	11.9	12.8	91.2	109	200	54.3-133			7.04	20
1,2-Dichloroethane	0.0250	ND	5.87	6.19	117	124	200	60.0-126			5.43	20
Ethylbenzene	0.0250	0.770	4.94	5.32	83.5	91.0	200	61.4-133			7.29	20
Methyl tert-butyl ether	0.0250	0.944	6.29	6.60	107	113	200	57.7-134			4.70	20
Naphthalene	0.0250	ND	5.40	5.88	108	118	200	58.0-135			8.53	25.5
Toluene	0.0250	14.1	18.4	19.5	85.4	108	200	61.4-130			5.85	20
Xylenes, Total	0.0750	4.51	17.0	18.2	83.1	91.3	200	63.3-131			7.05	20



L895881-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L895881-04 03/19/17 22:29 • (MS) R3204544-4 03/19/17 19:49 • (MSD) R3204544-5 03/19/17 20:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
(S) Toluene-d8					107	108		80.0-120				
(S) Dibromofluoromethane					94.6	94.9		76.0-123				
(S) 4-Bromofluorobenzene					94.9	94.9		80.0-120				

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3204864-3 03/21/17 11:55

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.000331	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
Ethylbenzene	U		0.000384	0.00100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000412	0.00100
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	107			80.0-120
(S) Dibromofluoromethane	108			76.0-123
(S) 4-Bromofluorobenzene	106			80.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3204864-1 03/21/17 10:52 • (LCSD) R3204864-2 03/21/17 11:13

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Benzene	0.0250	0.0220	0.0245	87.9	98.0	70.0-130			10.9	20
1,2-Dichloroethane	0.0250	0.0227	0.0244	90.8	97.7	70.0-130			7.38	20
Ethylbenzene	0.0250	0.0209	0.0233	83.5	93.3	70.0-130			11.2	20
Methyl tert-butyl ether	0.0250	0.0222	0.0241	88.7	96.5	70.0-130			8.48	20
Naphthalene	0.0250	0.0220	0.0252	88.2	101	70.0-130			13.2	20
Toluene	0.0250	0.0217	0.0246	86.9	98.2	70.0-130			12.2	20
Xylenes, Total	0.0750	0.0648	0.0722	86.4	96.3	70.0-130			10.8	20
(S) Toluene-d8				104	107	80.0-120				
(S) Dibromofluoromethane				106	106	76.0-123				
(S) 4-Bromofluorobenzene				112	111	80.0-120				

L896110-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L896110-01 03/21/17 20:14 • (MS) R3204864-4 03/21/17 20:35 • (MSD) R3204864-5 03/21/17 20:57

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Benzene	0.0250	ND	0.621	0.881	49.6	70.5	50	54.3-133	J6	J3	34.7	20
1,2-Dichloroethane	0.0250	ND	0.811	0.942	64.8	75.3	50	60.0-126			15.0	20
Ethylbenzene	0.0250	0.940	1.79	1.91	68.3	77.8	50	61.4-133			6.41	20
Methyl tert-butyl ether	0.0250	ND	0.996	0.980	79.7	78.4	50	57.7-134			1.57	20
Naphthalene	0.0250	0.352	1.47	1.37	89.5	81.7	50	58.0-135			6.89	25.5
Toluene	0.0250	0.0510	0.745	0.970	55.5	73.5	50	61.4-130	J6	J3	26.2	20
Xylenes, Total	0.0750	2.92	5.71	6.11	74.5	85.2	50	63.3-131			6.77	20



L896110-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L896110-01 03/21/17 20:14 • (MS) R3204864-4 03/21/17 20:35 • (MSD) R3204864-5 03/21/17 20:57

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
(S) Toluene-d8					103	104		80.0-120				
(S) Dibromofluoromethane					98.7	97.9		76.0-123				
(S) 4-Bromofluorobenzene					110	112		80.0-120				

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.  
 \* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina <sup>1</sup>	DW21704
Florida	E87487	North Carolina <sup>2</sup>	41
Georgia	NELAP	North Dakota	R-140
Georgia <sup>1</sup>	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky <sup>1</sup>	90010	South Dakota	n/a
Kentucky <sup>2</sup>	16	Tennessee <sup>14</sup>	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

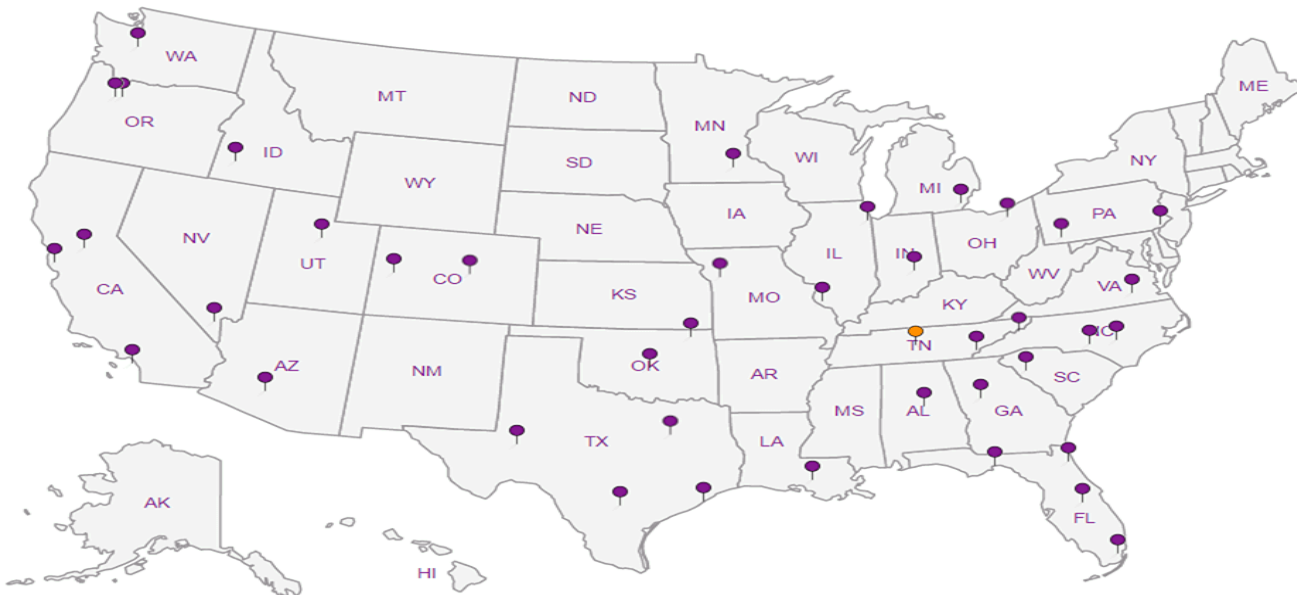
## Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>n/a</sup> Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

**CH2M Hill- Kinder Morgan- Atlanta, GA**

Billing Information:  
**Accounts Payable**  
**1000 Windward Concourse**  
**Ste 450**  
**Alpharetta, GA 30005**

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**YOUR LAB OF CHOICE**  
 12065 Lebanon Rd  
 Mount Juliet, TN 37122  
 Phone: 615-758-5858  
 Phone: 800-767-5859  
 Fax: 615-758-5859



6600 Peachtree Dunwoody Road

Email To: [bethany.garvey@ch2m.com](mailto:bethany.garvey@ch2m.com)

Report to:  
**Bethany Garvey**

Project Description: **Lewis Drive Site**

City/State Collected: **Belton, SC**

Phone: **770-604-9182**  
 Fax:

Client Project #  
**684910.LD.RA.5T**

Lab Project #  
**KINCH2MGA-LEWIS12**

Collected by (print): **Justin McCann**

Site/Facility ID #  
**Lewis Dr**

P.O. #

Collected by (signature): **Justin McCann**

**Rush?** (Lab MUST Be Notified)  
 Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Quote #

Immediately Packed on ice: N  Y

Date Results Needed

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Analysis / Container / Preservative	Remarks	Sample # (lab only)
MW-26B-031417	grab	GW	N/A	3/14/17	0855	3	V8260BTEXMNSC 40ml/Amb-HCl		01
MW-26-031417		GW			0905	3	V8260BTEXMNSC-TB 40ml/Amb-HCl-Bik		02
MW-15B-031417		GW			0930	3			03
MW-15-031417		GW			0945	3			04
MW-15-031417-ED		GW			0950	3		field dup	05
MW-12B-031417		GW			1005	3			06
MW-12B-031417-ED		GW			1010	3		field dup	07
MW-35-031417		GW			1035	3			08
MW-25-031417		GW			1045	3			09
MW-25B-031417		GW			1050	3			10

\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other

Remarks:  
 pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_  
 Samples returned via:  
 UPS  FedEx  Courier \_\_\_\_\_ Tracking # \_\_\_\_\_

Sample Receipt Checklist  
 COC Seal Present/Intact:  Y  N  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 If Applicable  
 VOA Zero Headspace:  Y  N  
 Preservation Correct/Checked:  Y  N

Relinquished by: (Signature)  
**Justin McCann**

Date: **3/14/17** Time: **1700**

Received by: (Signature)

Trip Blank Received:  Yes /  No  
 (HCl) MeoH TBR

Relinquished by: (Signature)

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature)

Temp: **13.1** °C Bottles Received: **51**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received for lab by: (Signature)  
**Justin McCann**

Date: **3/15/17** Time: **9:00**

Hold: \_\_\_\_\_ Condition: **NCF / OK**

CH2M Hill- Kinder Morgan- Atlanta, GA

6600 Peachtree Dunwoody Road

Report to:  
Bethany Garvey

Billing Information:  
Accounts Payable  
1000 Windward Concourse  
Ste 450  
Alpharetta, GA 30005

Email To: bethany.garvey@ch2m.com

Project Description: Lewis Drive Site

Phone: 770-604-9182  
Fax:

Client Project #  
684910.LD.RA.5T

Collected by (print): Paula Kramer  
Justine McLann

Site/Facility ID #  
Lewis Dr

Collected by (signature):  
Justine McLann

Rush? (Lab MUST Be Notified)  
 Same Day  
 Five Day  
 Next Day  
 5 Day (Rad Only)  
 Two Day  
 10 Day (Rad Only)  
 Three Day

Packed on Ice N  Y

City/State Collected: Belton, SC

Lab Project #  
KINCH2MGA-LEWIS12

P.O. #

Quote #

Date Results Needed

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 2 of 2



YOUR LAB OF CHOICE  
12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-9859  
Fax: 615-758-5859



L# 896133  
Table #  
Acctnum: KINCH2MGA  
Template: T121318  
Prelogin: P592452  
TSR: 526 - Chris McCord  
PB: JF3817  
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260BTEXMNSC 40m/Amb-HCl	V8260BTEXMNSC-TB 40m/Amb-HCl-Bik	Remarks	Sample # (lab only)
MW-42-031417	grab	GW	N/A	3/14/17	1105	3	X			11
MW-41-031417		GW			1115	3	X			12
MW-39-031417		GW			1140	3	X			13
TRIP BLANK TB-01-031417		GW			1515	1		X		18
TRIP BLANK FB-01-031417		GW			1510	3		X	field blank	14
MW-40-031417		GW			1150	3	X			15
MW-21-031417		GW			1515	3	X			16
MW-38-031417	grab	GW	N/A	3/14/17	1315	3	X			17

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:

pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via:  
UPS  FedEx  Courier \_\_\_\_\_

Tracking #

Sample Receipt Checklist  
 COC Seal Present/Intact:  Y  N  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 If Applicable  
 VOA Zero Headpace:  Y  N  
 Preservation Correct/Checked:  Y  N

Relinquished by: (Signature) Justine McLann	Date: 3/14/17	Time: 1700	Received by: (Signature)	Trip Blank Received: Yes / No NCL / MeOH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.1 °C Bottles Received: 51
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) Justine McLann	Date: 3-15-17 Time: 9:00 Hold: Condition: NCF / OK



# Surface Water Analytical Lab Reports

## CH2M Hill- Kinder Morgan- Atlanta, GA

Sample Delivery Group: L893060  
Samples Received: 03/01/2017  
Project Number: 684910.LD.MR.SW  
Description: Lewis Drive Site Surface water event

Report To: Bethany Garvey  
6600 Peachtree Dunwoody Road  
400 Embassy Row - Suite 600  
Atlanta, GA 30328

Entire Report Reviewed By:



Chris McCord  
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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# SAMPLE SUMMARY



## SW-01-022817 L893060-09 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG956973	1	03/05/17 14:09	03/05/17 14:09	GLN

Collected by JM/Tim  
 Collected date/time 02/28/17 14:20  
 Received date/time 03/01/17 09:00

1 Cp

2 Tc

## SW-12-022817 L893060-10 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG956973	1	03/05/17 14:23	03/05/17 14:23	GLN

Collected by JM/Tim  
 Collected date/time 02/28/17 14:40  
 Received date/time 03/01/17 09:00

3 Ss

4 Cn

## SW-03-022817 L893060-11 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG956973	1	03/05/17 14:36	03/05/17 14:36	GLN

Collected by JM/Tim  
 Collected date/time 02/28/17 14:55  
 Received date/time 03/01/17 09:00

5 Sr

6 Qc

7 Gl

## SW-09-022817 L893060-12 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG956973	1	03/05/17 14:50	03/05/17 14:50	GLN

Collected by JM/Tim  
 Collected date/time 02/28/17 16:20  
 Received date/time 03/01/17 09:00

8 Al

9 Sc

## FP-03-022817 L893060-13 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG956973	1	03/05/17 15:03	03/05/17 15:03	GLN

Collected by JM/Tim  
 Collected date/time 02/28/17 15:50  
 Received date/time 03/01/17 09:00

## FP-02-022817 L893060-14 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG956973	1	03/05/17 15:16	03/05/17 15:16	GLN

Collected by JM/Tim  
 Collected date/time 02/28/17 16:10  
 Received date/time 03/01/17 09:00

## FP-01-022817 L893060-15 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG956973	1	03/05/17 15:30	03/05/17 15:30	GLN

Collected by JM/Tim  
 Collected date/time 02/28/17 16:00  
 Received date/time 03/01/17 09:00

## SW-11-022817 L893060-24 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG956975	1	03/04/17 02:41	03/04/17 02:41	GLN

Collected by JM/Tim  
 Collected date/time 02/28/17 13:30  
 Received date/time 03/01/17 09:00

# SAMPLE SUMMARY



## SW-10-022817 L893060-25 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG956975	1	03/04/17 03:02	03/04/17 03:02	GLN

Collected by JM/Tim  
 Collected date/time 02/28/17 13:45  
 Received date/time 03/01/17 09:00

1 Cp

2 Tc

## SW-02-022817 L893060-26 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG956975	1	03/04/17 03:23	03/04/17 03:23	GLN

Collected by JM/Tim  
 Collected date/time 02/28/17 14:17  
 Received date/time 03/01/17 09:00

3 Ss

4 Cn

5 Sr

## SW-13-022817 L893060-28 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG956975	1	03/04/17 04:04	03/04/17 04:04	GLN

Collected by JM/Tim  
 Collected date/time 02/28/17 15:30  
 Received date/time 03/01/17 09:00

6 Qc

7 Gl

8 Al

## SW-08-022817 L893060-29 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG956975	1	03/04/17 04:25	03/04/17 04:25	GLN

Collected by JM/Tim  
 Collected date/time 02/28/17 15:40  
 Received date/time 03/01/17 09:00

9 Sc

## SW-04-022817 L893060-30 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG956975	1	03/04/17 04:46	03/04/17 04:46	GLN

Collected by JM/Tim  
 Collected date/time 02/28/17 16:09  
 Received date/time 03/01/17 09:00



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord  
Technical Service Representative

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0185		0.00100	1	03/05/2017 14:09	<a href="#">WG956973</a>
Toluene	0.0370		0.00100	1	03/05/2017 14:09	<a href="#">WG956973</a>
Ethylbenzene	0.00193		0.00100	1	03/05/2017 14:09	<a href="#">WG956973</a>
o-Xylene	0.0102		0.00100	1	03/05/2017 14:09	<a href="#">WG956973</a>
m&p-Xylene	0.0138		0.00200	1	03/05/2017 14:09	<a href="#">WG956973</a>
Xylenes, Total	0.0240		0.00300	1	03/05/2017 14:09	<a href="#">WG956973</a>
Naphthalene	ND		0.00500	1	03/05/2017 14:09	<a href="#">WG956973</a>
(S) Toluene-d8	102		80.0-120		03/05/2017 14:09	<a href="#">WG956973</a>
(S) Dibromofluoromethane	87.7		76.0-123		03/05/2017 14:09	<a href="#">WG956973</a>
(S) a,a,a-Trifluorotoluene	103		80.0-120		03/05/2017 14:09	<a href="#">WG956973</a>
(S) 4-Bromofluorobenzene	104		80.0-120		03/05/2017 14:09	<a href="#">WG956973</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0261		0.00100	1	03/05/2017 14:23	<a href="#">WG956973</a>
Toluene	0.0623		0.00100	1	03/05/2017 14:23	<a href="#">WG956973</a>
Ethylbenzene	0.00404		0.00100	1	03/05/2017 14:23	<a href="#">WG956973</a>
o-Xylene	0.00973		0.00100	1	03/05/2017 14:23	<a href="#">WG956973</a>
m&p-Xylene	0.0180		0.00200	1	03/05/2017 14:23	<a href="#">WG956973</a>
Xylenes, Total	0.0277		0.00300	1	03/05/2017 14:23	<a href="#">WG956973</a>
Naphthalene	ND		0.00500	1	03/05/2017 14:23	<a href="#">WG956973</a>
(S) Toluene-d8	101		80.0-120		03/05/2017 14:23	<a href="#">WG956973</a>
(S) Dibromofluoromethane	87.1		76.0-123		03/05/2017 14:23	<a href="#">WG956973</a>
(S) a,a,a-Trifluorotoluene	102		80.0-120		03/05/2017 14:23	<a href="#">WG956973</a>
(S) 4-Bromofluorobenzene	103		80.0-120		03/05/2017 14:23	<a href="#">WG956973</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/05/2017 14:36	<a href="#">WG956973</a>
Toluene	ND		0.00100	1	03/05/2017 14:36	<a href="#">WG956973</a>
Ethylbenzene	ND		0.00100	1	03/05/2017 14:36	<a href="#">WG956973</a>
o-Xylene	ND		0.00100	1	03/05/2017 14:36	<a href="#">WG956973</a>
m&p-Xylene	ND		0.00200	1	03/05/2017 14:36	<a href="#">WG956973</a>
Xylenes, Total	ND		0.00300	1	03/05/2017 14:36	<a href="#">WG956973</a>
Naphthalene	ND		0.00500	1	03/05/2017 14:36	<a href="#">WG956973</a>
(S) Toluene-d8	101		80.0-120		03/05/2017 14:36	<a href="#">WG956973</a>
(S) Dibromofluoromethane	87.4		76.0-123		03/05/2017 14:36	<a href="#">WG956973</a>
(S) a,a,a-Trifluorotoluene	102		80.0-120		03/05/2017 14:36	<a href="#">WG956973</a>
(S) 4-Bromofluorobenzene	102		80.0-120		03/05/2017 14:36	<a href="#">WG956973</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/05/2017 14:50	<a href="#">WG956973</a>
Toluene	ND		0.00100	1	03/05/2017 14:50	<a href="#">WG956973</a>
Ethylbenzene	ND		0.00100	1	03/05/2017 14:50	<a href="#">WG956973</a>
o-Xylene	ND		0.00100	1	03/05/2017 14:50	<a href="#">WG956973</a>
m&p-Xylene	ND		0.00200	1	03/05/2017 14:50	<a href="#">WG956973</a>
Xylenes, Total	ND		0.00300	1	03/05/2017 14:50	<a href="#">WG956973</a>
Naphthalene	ND		0.00500	1	03/05/2017 14:50	<a href="#">WG956973</a>
(S) Toluene-d8	101		80.0-120		03/05/2017 14:50	<a href="#">WG956973</a>
(S) Dibromofluoromethane	87.6		76.0-123		03/05/2017 14:50	<a href="#">WG956973</a>
(S) a,a,a-Trifluorotoluene	102		80.0-120		03/05/2017 14:50	<a href="#">WG956973</a>
(S) 4-Bromofluorobenzene	103		80.0-120		03/05/2017 14:50	<a href="#">WG956973</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/05/2017 15:03	<a href="#">WG956973</a>
Toluene	ND		0.00100	1	03/05/2017 15:03	<a href="#">WG956973</a>
Ethylbenzene	ND		0.00100	1	03/05/2017 15:03	<a href="#">WG956973</a>
o-Xylene	ND		0.00100	1	03/05/2017 15:03	<a href="#">WG956973</a>
m&p-Xylene	ND		0.00200	1	03/05/2017 15:03	<a href="#">WG956973</a>
Xylenes, Total	ND		0.00300	1	03/05/2017 15:03	<a href="#">WG956973</a>
Naphthalene	ND		0.00500	1	03/05/2017 15:03	<a href="#">WG956973</a>
(S) Toluene-d8	101		80.0-120		03/05/2017 15:03	<a href="#">WG956973</a>
(S) Dibromofluoromethane	87.4		76.0-123		03/05/2017 15:03	<a href="#">WG956973</a>
(S) a,a,a-Trifluorotoluene	101		80.0-120		03/05/2017 15:03	<a href="#">WG956973</a>
(S) 4-Bromofluorobenzene	103		80.0-120		03/05/2017 15:03	<a href="#">WG956973</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/05/2017 15:16	<a href="#">WG956973</a>
Toluene	ND		0.00100	1	03/05/2017 15:16	<a href="#">WG956973</a>
Ethylbenzene	ND		0.00100	1	03/05/2017 15:16	<a href="#">WG956973</a>
o-Xylene	ND		0.00100	1	03/05/2017 15:16	<a href="#">WG956973</a>
m&p-Xylene	ND		0.00200	1	03/05/2017 15:16	<a href="#">WG956973</a>
Xylenes, Total	ND		0.00300	1	03/05/2017 15:16	<a href="#">WG956973</a>
Naphthalene	ND		0.00500	1	03/05/2017 15:16	<a href="#">WG956973</a>
(S) Toluene-d8	102		80.0-120		03/05/2017 15:16	<a href="#">WG956973</a>
(S) Dibromofluoromethane	86.8		76.0-123		03/05/2017 15:16	<a href="#">WG956973</a>
(S) a,a,a-Trifluorotoluene	103		80.0-120		03/05/2017 15:16	<a href="#">WG956973</a>
(S) 4-Bromofluorobenzene	103		80.0-120		03/05/2017 15:16	<a href="#">WG956973</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/05/2017 15:30	<a href="#">WG956973</a>
Toluene	ND		0.00100	1	03/05/2017 15:30	<a href="#">WG956973</a>
Ethylbenzene	ND		0.00100	1	03/05/2017 15:30	<a href="#">WG956973</a>
o-Xylene	ND		0.00100	1	03/05/2017 15:30	<a href="#">WG956973</a>
m&p-Xylene	ND		0.00200	1	03/05/2017 15:30	<a href="#">WG956973</a>
Xylenes, Total	ND		0.00300	1	03/05/2017 15:30	<a href="#">WG956973</a>
Naphthalene	ND		0.00500	1	03/05/2017 15:30	<a href="#">WG956973</a>
(S) Toluene-d8	101		80.0-120		03/05/2017 15:30	<a href="#">WG956973</a>
(S) Dibromofluoromethane	86.6		76.0-123		03/05/2017 15:30	<a href="#">WG956973</a>
(S) a,a,a-Trifluorotoluene	101		80.0-120		03/05/2017 15:30	<a href="#">WG956973</a>
(S) 4-Bromofluorobenzene	101		80.0-120		03/05/2017 15:30	<a href="#">WG956973</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.00100	1	03/04/2017 02:41	<a href="#">WG956975</a>
Toluene	ND		0.00100	1	03/04/2017 02:41	<a href="#">WG956975</a>
Ethylbenzene	ND		0.00100	1	03/04/2017 02:41	<a href="#">WG956975</a>
o-Xylene	ND		0.00100	1	03/04/2017 02:41	<a href="#">WG956975</a>
m&p-Xylene	ND		0.00200	1	03/04/2017 02:41	<a href="#">WG956975</a>
Xylenes, Total	ND		0.00300	1	03/04/2017 02:41	<a href="#">WG956975</a>
Naphthalene	ND		0.00500	1	03/04/2017 02:41	<a href="#">WG956975</a>
(S) Toluene-d8	102		80.0-120		03/04/2017 02:41	<a href="#">WG956975</a>
(S) Dibromofluoromethane	99.4		76.0-123		03/04/2017 02:41	<a href="#">WG956975</a>
(S) a,a,a-Trifluorotoluene	98.3		80.0-120		03/04/2017 02:41	<a href="#">WG956975</a>
(S) 4-Bromofluorobenzene	88.4		80.0-120		03/04/2017 02:41	<a href="#">WG956975</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/04/2017 03:02	<a href="#">WG956975</a>
Toluene	ND		0.00100	1	03/04/2017 03:02	<a href="#">WG956975</a>
Ethylbenzene	ND		0.00100	1	03/04/2017 03:02	<a href="#">WG956975</a>
o-Xylene	ND		0.00100	1	03/04/2017 03:02	<a href="#">WG956975</a>
m&p-Xylene	ND		0.00200	1	03/04/2017 03:02	<a href="#">WG956975</a>
Xylenes, Total	ND		0.00300	1	03/04/2017 03:02	<a href="#">WG956975</a>
Naphthalene	ND		0.00500	1	03/04/2017 03:02	<a href="#">WG956975</a>
(S) Toluene-d8	103		80.0-120		03/04/2017 03:02	<a href="#">WG956975</a>
(S) Dibromofluoromethane	100		76.0-123		03/04/2017 03:02	<a href="#">WG956975</a>
(S) a,a,a-Trifluorotoluene	98.5		80.0-120		03/04/2017 03:02	<a href="#">WG956975</a>
(S) 4-Bromofluorobenzene	84.9		80.0-120		03/04/2017 03:02	<a href="#">WG956975</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0107		0.00100	1	03/04/2017 03:23	<a href="#">WG956975</a>
Toluene	0.0110		0.00100	1	03/04/2017 03:23	<a href="#">WG956975</a>
Ethylbenzene	ND		0.00100	1	03/04/2017 03:23	<a href="#">WG956975</a>
o-Xylene	0.00423		0.00100	1	03/04/2017 03:23	<a href="#">WG956975</a>
m&p-Xylene	0.00414		0.00200	1	03/04/2017 03:23	<a href="#">WG956975</a>
Xylenes, Total	0.00837		0.00300	1	03/04/2017 03:23	<a href="#">WG956975</a>
Naphthalene	ND		0.00500	1	03/04/2017 03:23	<a href="#">WG956975</a>
(S) Toluene-d8	103		80.0-120		03/04/2017 03:23	<a href="#">WG956975</a>
(S) Dibromofluoromethane	97.3		76.0-123		03/04/2017 03:23	<a href="#">WG956975</a>
(S) a,a,a-Trifluorotoluene	97.8		80.0-120		03/04/2017 03:23	<a href="#">WG956975</a>
(S) 4-Bromofluorobenzene	88.5		80.0-120		03/04/2017 03:23	<a href="#">WG956975</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/04/2017 04:04	<a href="#">WG956975</a>
Toluene	ND		0.00100	1	03/04/2017 04:04	<a href="#">WG956975</a>
Ethylbenzene	ND		0.00100	1	03/04/2017 04:04	<a href="#">WG956975</a>
o-Xylene	ND		0.00100	1	03/04/2017 04:04	<a href="#">WG956975</a>
m&p-Xylene	ND		0.00200	1	03/04/2017 04:04	<a href="#">WG956975</a>
Xylenes, Total	ND		0.00300	1	03/04/2017 04:04	<a href="#">WG956975</a>
Naphthalene	ND		0.00500	1	03/04/2017 04:04	<a href="#">WG956975</a>
(S) Toluene-d8	101		80.0-120		03/04/2017 04:04	<a href="#">WG956975</a>
(S) Dibromofluoromethane	99.5		76.0-123		03/04/2017 04:04	<a href="#">WG956975</a>
(S) a,a,a-Trifluorotoluene	96.4		80.0-120		03/04/2017 04:04	<a href="#">WG956975</a>
(S) 4-Bromofluorobenzene	86.3		80.0-120		03/04/2017 04:04	<a href="#">WG956975</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/04/2017 04:25	<a href="#">WG956975</a>
Toluene	ND		0.00100	1	03/04/2017 04:25	<a href="#">WG956975</a>
Ethylbenzene	ND		0.00100	1	03/04/2017 04:25	<a href="#">WG956975</a>
o-Xylene	ND		0.00100	1	03/04/2017 04:25	<a href="#">WG956975</a>
m&p-Xylene	ND		0.00200	1	03/04/2017 04:25	<a href="#">WG956975</a>
Xylenes, Total	ND		0.00300	1	03/04/2017 04:25	<a href="#">WG956975</a>
Naphthalene	ND		0.00500	1	03/04/2017 04:25	<a href="#">WG956975</a>
(S) Toluene-d8	102		80.0-120		03/04/2017 04:25	<a href="#">WG956975</a>
(S) Dibromofluoromethane	103		76.0-123		03/04/2017 04:25	<a href="#">WG956975</a>
(S) a,a,a-Trifluorotoluene	97.1		80.0-120		03/04/2017 04:25	<a href="#">WG956975</a>
(S) 4-Bromofluorobenzene	84.0		80.0-120		03/04/2017 04:25	<a href="#">WG956975</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/04/2017 04:46	<a href="#">WG956975</a>
Toluene	0.00113		0.00100	1	03/04/2017 04:46	<a href="#">WG956975</a>
Ethylbenzene	ND		0.00100	1	03/04/2017 04:46	<a href="#">WG956975</a>
o-Xylene	ND		0.00100	1	03/04/2017 04:46	<a href="#">WG956975</a>
m&p-Xylene	ND		0.00200	1	03/04/2017 04:46	<a href="#">WG956975</a>
Xylenes, Total	ND		0.00300	1	03/04/2017 04:46	<a href="#">WG956975</a>
Naphthalene	ND		0.00500	1	03/04/2017 04:46	<a href="#">WG956975</a>
(S) Toluene-d8	101		80.0-120		03/04/2017 04:46	<a href="#">WG956975</a>
(S) Dibromofluoromethane	103		76.0-123		03/04/2017 04:46	<a href="#">WG956975</a>
(S) a,a,a-Trifluorotoluene	95.8		80.0-120		03/04/2017 04:46	<a href="#">WG956975</a>
(S) 4-Bromofluorobenzene	85.6		80.0-120		03/04/2017 04:46	<a href="#">WG956975</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3201274-3 03/05/17 11:57

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.000331	0.00100
Ethylbenzene	U		0.000384	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000412	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	102			80.0-120
(S) Dibromofluoromethane	87.1			76.0-123
(S) a,a,a-Trifluorotoluene	103			80.0-120
(S) 4-Bromofluorobenzene	104			80.0-120

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3201274-1 03/05/17 11:03 • (LCSD) R3201274-2 03/05/17 11:17

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Benzene	0.0250	0.0233	0.0243	93.3	97.2	70.0-130			4.08	20
Ethylbenzene	0.0250	0.0259	0.0263	104	105	70.0-130			1.62	20
Naphthalene	0.0250	0.0273	0.0284	109	114	70.0-130			4.10	20
Toluene	0.0250	0.0254	0.0261	102	104	70.0-130			2.73	20
Xylenes, Total	0.0750	0.0794	0.0815	106	109	70.0-130			2.61	20
(S) Toluene-d8				101	101	80.0-120				
(S) Dibromofluoromethane				88.1	89.1	76.0-123				
(S) a,a,a-Trifluorotoluene				102	101	80.0-120				
(S) 4-Bromofluorobenzene				99.5	98.6	80.0-120				



Method Blank (MB)

(MB) R3201279-3 03/03/17 22:11

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.000331	0.00100
Ethylbenzene	U		0.000384	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000412	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	102			80.0-120
(S) Dibromofluoromethane	99.4			76.0-123
(S) a,a,a-Trifluorotoluene	97.9			80.0-120
(S) 4-Bromofluorobenzene	85.6			80.0-120

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3201279-1 03/03/17 20:07 • (LCSD) R3201279-2 03/03/17 20:28

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Benzene	0.0250	0.0213	0.0211	85.3	84.3	70.0-130			1.18	20
Ethylbenzene	0.0250	0.0208	0.0205	83.3	81.9	70.0-130			1.73	20
Naphthalene	0.0250	0.0193	0.0195	77.2	78.0	70.0-130			1.01	20
Toluene	0.0250	0.0213	0.0213	85.1	85.0	70.0-130			0.0800	20
Xylenes, Total	0.0750	0.0617	0.0595	82.3	79.3	70.0-130			3.63	20
(S) Toluene-d8				97.7	97.7	80.0-120				
(S) Dibromofluoromethane				93.8	92.7	76.0-123				
(S) a,a,a-Trifluorotoluene				98.4	97.6	80.0-120				
(S) 4-Bromofluorobenzene				86.6	88.1	80.0-120				



## Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

## Qualifier                      Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.  
 \* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina <sup>1</sup>	DW21704
Florida	E87487	North Carolina <sup>2</sup>	41
Georgia	NELAP	North Dakota	R-140
Georgia <sup>1</sup>	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky <sup>1</sup>	90010	South Dakota	n/a
Kentucky <sup>2</sup>	16	Tennessee <sup>14</sup>	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

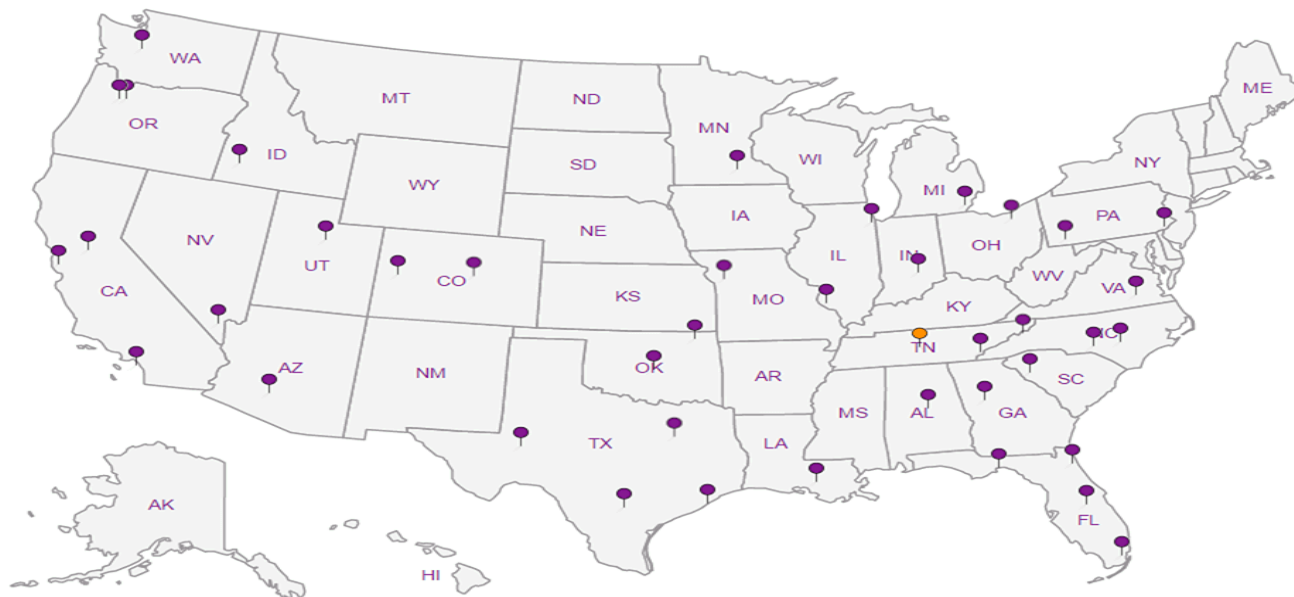
## Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>n/a</sup> Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**CH2M Hill- Atlanta, GA**  
 6600 Peachtree Dunwoody Road  
 400 Embassy Row - Suite 600  
 Atlanta GA 30328  
 Report to:  
**Bethany Garvey**

Billing Information:  
**Accounts Payable**  
 1000 Windward Concourse  
 Ste 450  
 Alpharetta, GA 30005  
 Email To: bgarvey@ch2m.com

Pres  
 Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 3



12065 Lebanon Rd  
 Mount Juliet, TN 37122  
 Phone: 615-758-5858  
 Phone: 800-767-5859  
 Fax: 615-758-5859

Project Description: **Lewis Drive Site Surface water event**

City/State Collected: **Belton, SC**

Phone: **770-604-9182**  
 Fax:

Client Project #  
**684910.LD.MR.SW**

Lab Project #  
**KINCH2MGA-LEWIS**

Collected by (print): **TIMMY DHE**  
**J. McLann / CH2M**

Site/Facility ID #

P.O. #

Collected by (signature):  
**Justine McLann**  
 Immediately Packed on Ice N  Y

**Rush?** (Lab MUST Be Notified)  
 Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Quote #  
 Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
-----------	-----------	----------	-------	------	------	--------------

SW115-022817	G	GW	N/A	2/28/17	1000	2 X
SW111-022817		GW			1035	2 X
SW110-022817		GW			1050	2 X
SW109-022817		GW			1115	2 X
SW108-022817		GW			1145	2 X
SW105-022817		GW			1300	2 X
SW102-022817		GW			1320	2 X
SW101-022817		GW			1345	2 X
SW-01-022817		GW			1420	2 X
SW-12-022817		GW			1440	2 X

V8260BTEXN 40mlAmb-HCl

V8260BTEXNSC-TB 40mlAmb-HCl-Bik

L# **893860**  
**I201**

Acctnum: **KINCH2MGA**  
 Template: **T120907**  
 Prelogin: **P589495**  
 TSR: **526 - Chris McCord**  
 PB: **JL 2-24-17**

Shipped Via: **FedEX Priority**

\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other

Remarks:  
 pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_  
 Samples returned via:  
 UPS  FedEx  Courier \_\_\_\_\_  
 Tracking # **7176 9007 3108**

Sample Receipt Checklist  
 COC Seal Present/Intact:  HP  N  
 COC Signed/Accurate:  N  
 Bottles arrive intact:  N  
 Correct bottles used:  N  
 Sufficient volume sent:  N  
 If Applicable  
 VOA Zero Headspace:  N  
 Preservation Correct/Checked:  Y  N

Relinquished by: (Signature)  
**Justine McLann**

Date: **2/28/17** Time: **1250**

Received by: (Signature)

Trip Blank Received: Yes/No  
 HCl / MeOH  
 TBR  
**2**

Relinquished by: (Signature)

Date: Time:

Received by: (Signature)

Temp: **2.1** °C Bottles Rec'd: **140/62**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: Time:

Received for lab by: (Signature)  
**Marina Melo**

Date: **3-1-17** Time: **0900**

Hold: Condition: **NCF**  OK



**CH2M Hill- Atlanta, GA**

6600 Peachtree Dunwoody Road  
400 Embassy Row - Suite 600  
Atlanta GA 30328

Report to:  
**Bethany Garvey**

Billing Information:

Accounts Payable  
1000 Windward Concourse  
Ste 450  
Alpharetta, GA 30005

Email To: bgarvey@ch2m.com

Pres  
Chk

Analysis / Container / Preservative



YOUR LAB OF CHOICE

12055 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



L# **893260**  
Table #  
Acctnum: **KINCH2MGA**  
Template: **T120907**  
Prelogin: **P589495**  
TSR: **526 - Chris McCord**  
PB: **JE 2-24-17**  
Shipped Via: **FedEX Priority**

Project Description: **Lewis Drive Site Surface water event**

City/State  
Collected:

Phone: **770-604-9182**  
Fax:

Client Project #

**U84910.LD.MRSW**

Lab Project #  
**KINCH2MGA-LEWIS**

Collected by (print): **Tim/DHEC**  
**J. McCann/CH2M**

Site/Facility ID #

P.O. #

Collected by (signature):  
**Justine McCann**

Rush? (Lab MUST Be Notified)

Same Day Five Day  
Next Day 5 Day (Rad Only)  
Two Day 10 Day (Rad Only)  
Three Day

Quote #

Date Results Needed

Immediately Packed on Ice: N  Y

No. of  
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Analysis / Container / Preservative	Remarks	Sample # (lab only)
SN-03-022817	G	GW	N/A	2/28/17	1455	2	X		11
SW-09-022817		GW			1620	2	X		12
FP-03-022817		GW			1550	2	X		13
FP-02-022817		GW			1610	2	X		14
FP-01-022817		GW			1600	2	X		15
SW110-022817		GW			1600	2	X		16
SW114-022817		GW			1021	2	X		17
SW112-022817		GW			1037	2	X		18
SW113-022817		GW			1055	2	X		19
SW106-022817	↓	GW	↓	↓	1120	2	X		20

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:

Samples returned via:

UPS  FedEx  Courier

Tracking # **7176 9007 3108**

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Sample Receipt Checklist

COC Seal Present/Intact:  NP  Y  N  
COC Signed/Accurate:  Y  N  
Bottles arrive intact:  Y  N  
Correct bottles used:  Y  N  
Sufficient volume sent:  Y  N  
If Applicable  
VOA Zero Headspace:  Y  N  
Preservation Correct/Checked:  Y  N

Relinquished by: (Signature)  
**Justine McCann**

Date: **2/28/17** Time: **1800**

Received by: (Signature)

Trip Blank Received:  Yes  No  
HCL / MeOH  
TBR

Relinquished by: (Signature)

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature)

Temp: **2.1** °C  
Bottle Received: **4/022**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received for lab by: (Signature)

Date: **3-1-17** Time: **0900**

Hold: \_\_\_\_\_ Condition: **NCF 10**

**Mariana Malone**

CH2M Hill- Atlanta, GA

Billing Information:  
 Accounts Payable  
 1000 Windward Concourse  
 Ste 450  
 Alpharetta, GA 30005

6600 Peachtree Dunwoody Road  
 400 Embassy Row - Suite 600  
 Atlanta GA 30328

Report to:  
 Bethany Garvey

Project Description: Lewis Drive Site Surface water event

Phone: 770-604-9182

Fax:

Client Project #

68410.LD.MR.SW

City/State Collected:

Lab Project #  
 KINCH2MGA-LEWIS

P.O. #

Quote #

Rush? (Lab MUST Be Notified)

Same Day \_\_\_ Five Day \_\_\_  
 Next Day \_\_\_ 5 Day (Rad Only) \_\_\_  
 Two Day \_\_\_ 10 Day (Rad Only) \_\_\_  
 Three Day \_\_\_

Date Results Needed

Pres Chk

Analysis / Container / Preservative

V82608TEXN 40ml/Amb-HCl

V82608TEXNSC-TB 40ml/Amb-HCl-Bik



YOUR LAB OF CHOICE

12065 Lebanon Rd  
 Mount Juliet, TN 37122  
 Phone: 615-758-5858  
 Phone: 800-767-5859  
 Fax: 615-758-5859



L# 853060

Table #

Acctnum: KINCH2MGA

Template: T120907

Prelogin: P589495

TSR: 526 - Chris McCord

PB: TE 2-24-17

Shipped Via: FedEX Priority

Remarks Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Analysis / Container / Preservative	Remarks	Sample # (lab only)
SW107-022817	G	GW	N/A	2/28/17	1142	2	X		21
SW104-022817		GW			1205	2	X		22
SW103-022817		GW			1224	2	X		23
SW-11-022817		GW			1330	2	X		24
SW-10-022817		GW			1345	2	X		25
SW-02-022817		GW			1417	2	X		26
SW100-022817		GW			1500	2	X		27
SW-13-022817		GW			1530	2	X		28
SW-08-022817		GW			1540	2	X		29
SW-04-022817	∇	GW	∇	∇	1609	2	X		30

\* Matrix: Trip Blank  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other

Remarks: G

N/A 2/28/17 1640 2 X

pH \_\_\_ Temp \_\_\_

Flow \_\_\_ Other \_\_\_

Sample Receipt Checklist  
 COC Seal Present/Intact:  Y  N  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 If Applicable  
 VOA Zero Headspace:  Y  N  
 Preservation Correct/Checked:  Y  N

Samples returned via:  
 UPS  FedEx  Courier

Tracking # 7176 9007 3108

Relinquished by: (Signature) Justine McClann  
 Date: 2/28/17 Time: 1800

Received by: (Signature) Trip Blank Received: Yes/No  
 HCL / MeOH  
 TBR

Relinquished by: (Signature) Date: Time:

Received by: (Signature) Temp: 2.1 °C  
 Bottles Received: 4062

Relinquished by: (Signature) Date: Time:

Received for lab by: (Signature) Maria Malone  
 Date: 3-1-17 Time: 0900

If preservation required by Login: Date/Time

Hold: Condition: NCF 10

## CH2M Hill- Kinder Morgan- Atlanta, GA

Sample Delivery Group: L896398  
Samples Received: 03/16/2017  
Project Number: 684910.LD.RA.ST  
Description: Lewis Drive Site Surface water event  
Site: LEWIS DRIVE  
Report To: Bethany Garvey  
6600 Peachtree Dunwoody Road  
400 Embassy Row - Suite 600  
Atlanta, GA 30328

Entire Report Reviewed By:



Chris McCord  
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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# SAMPLE SUMMARY



## SW-11-031517 L896398-01 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG962003	1	03/22/17 05:34	03/22/17 05:34	JAH

Collected by Paula Kramer  
 Collected date/time 03/15/17 08:30  
 Received date/time 03/16/17 09:00

1 Cp

2 Tc

## SW-10-031517 L896398-02 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG962003	1	03/22/17 05:57	03/22/17 05:57	JAH

Collected by Paula Kramer  
 Collected date/time 03/15/17 08:45  
 Received date/time 03/16/17 09:00

3 Ss

4 Cn

5 Sr

## FP-03-031517 L896398-03 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG962003	1	03/22/17 06:20	03/22/17 06:20	JAH

Collected by Paula Kramer  
 Collected date/time 03/15/17 09:00  
 Received date/time 03/16/17 09:00

6 Qc

7 Gl

8 Al

## FP-02-031517 L896398-04 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG962003	1	03/22/17 06:43	03/22/17 06:43	JAH

Collected by Paula Kramer  
 Collected date/time 03/15/17 09:45  
 Received date/time 03/16/17 09:00

9 Sc

## FP-01-031517 L896398-05 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG962003	1	03/22/17 07:06	03/22/17 07:06	JAH

Collected by Paula Kramer  
 Collected date/time 03/15/17 09:35  
 Received date/time 03/16/17 09:00

## SW-09-031517 L896398-06 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG962003	1	03/22/17 07:28	03/22/17 07:28	JAH

Collected by Paula Kramer  
 Collected date/time 03/15/17 09:55  
 Received date/time 03/16/17 09:00

## SW-08-031517 L896398-07 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG962003	1	03/22/17 07:51	03/22/17 07:51	JAH

Collected by Paula Kramer  
 Collected date/time 03/15/17 10:05  
 Received date/time 03/16/17 09:00

## SW-13-031517 L896398-08 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG962003	1	03/22/17 08:14	03/22/17 08:14	JAH

Collected by Paula Kramer  
 Collected date/time 03/15/17 10:15  
 Received date/time 03/16/17 09:00

# SAMPLE SUMMARY



## SW-02-031517 L896398-09 GW

Collected by  
Paula Kramer      Collected date/time  
03/15/17 10:25      Received date/time  
03/16/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG962003	1	03/22/17 08:37	03/22/17 08:37	JAH

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## SW-04-031517 L896398-10 GW

Collected by  
Paula Kramer      Collected date/time  
03/15/17 10:30      Received date/time  
03/16/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG962003	1	03/22/17 09:00	03/22/17 09:00	JAH

## SW-01-031517 L896398-11 GW

Collected by  
Paula Kramer      Collected date/time  
03/15/17 10:45      Received date/time  
03/16/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG962003	1	03/22/17 09:23	03/22/17 09:23	JAH

## SW-07-031517 L896398-12 GW

Collected by  
Paula Kramer      Collected date/time  
03/15/17 10:50      Received date/time  
03/16/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG962003	1	03/22/17 09:46	03/22/17 09:46	JAH

## SW-03-031517 L896398-13 GW

Collected by  
Paula Kramer      Collected date/time  
03/15/17 11:00      Received date/time  
03/16/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG962003	1	03/22/17 10:09	03/22/17 10:09	JAH

## SW-12-031517 L896398-14 GW

Collected by  
Paula Kramer      Collected date/time  
03/15/17 11:10      Received date/time  
03/16/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG962003	1	03/22/17 10:32	03/22/17 10:32	JAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG962003	5	03/22/17 11:17	03/22/17 11:17	JAH



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord  
Technical Service Representative

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/22/2017 05:34	<a href="#">WG962003</a>
Toluene	ND		0.00100	1	03/22/2017 05:34	<a href="#">WG962003</a>
Ethylbenzene	ND		0.00100	1	03/22/2017 05:34	<a href="#">WG962003</a>
o-Xylene	ND		0.00100	1	03/22/2017 05:34	<a href="#">WG962003</a>
m&p-Xylene	ND		0.00200	1	03/22/2017 05:34	<a href="#">WG962003</a>
Xylenes, Total	ND		0.00300	1	03/22/2017 05:34	<a href="#">WG962003</a>
Naphthalene	ND		0.00500	1	03/22/2017 05:34	<a href="#">WG962003</a>
(S) Toluene-d8	106		80.0-120		03/22/2017 05:34	<a href="#">WG962003</a>
(S) Dibromofluoromethane	89.1		76.0-123		03/22/2017 05:34	<a href="#">WG962003</a>
(S) a,a,a-Trifluorotoluene	106		80.0-120		03/22/2017 05:34	<a href="#">WG962003</a>
(S) 4-Bromofluorobenzene	97.8		80.0-120		03/22/2017 05:34	<a href="#">WG962003</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/22/2017 05:57	<a href="#">WG962003</a>
Toluene	ND		0.00100	1	03/22/2017 05:57	<a href="#">WG962003</a>
Ethylbenzene	ND		0.00100	1	03/22/2017 05:57	<a href="#">WG962003</a>
o-Xylene	ND		0.00100	1	03/22/2017 05:57	<a href="#">WG962003</a>
m&p-Xylene	ND		0.00200	1	03/22/2017 05:57	<a href="#">WG962003</a>
Xylenes, Total	ND		0.00300	1	03/22/2017 05:57	<a href="#">WG962003</a>
Naphthalene	ND		0.00500	1	03/22/2017 05:57	<a href="#">WG962003</a>
(S) Toluene-d8	106		80.0-120		03/22/2017 05:57	<a href="#">WG962003</a>
(S) Dibromofluoromethane	91.1		76.0-123		03/22/2017 05:57	<a href="#">WG962003</a>
(S) a,a,a-Trifluorotoluene	106		80.0-120		03/22/2017 05:57	<a href="#">WG962003</a>
(S) 4-Bromofluorobenzene	97.1		80.0-120		03/22/2017 05:57	<a href="#">WG962003</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/22/2017 06:20	<a href="#">WG962003</a>
Toluene	ND		0.00100	1	03/22/2017 06:20	<a href="#">WG962003</a>
Ethylbenzene	ND		0.00100	1	03/22/2017 06:20	<a href="#">WG962003</a>
o-Xylene	ND		0.00100	1	03/22/2017 06:20	<a href="#">WG962003</a>
m&p-Xylene	ND		0.00200	1	03/22/2017 06:20	<a href="#">WG962003</a>
Xylenes, Total	ND		0.00300	1	03/22/2017 06:20	<a href="#">WG962003</a>
Naphthalene	ND		0.00500	1	03/22/2017 06:20	<a href="#">WG962003</a>
(S) Toluene-d8	106		80.0-120		03/22/2017 06:20	<a href="#">WG962003</a>
(S) Dibromofluoromethane	90.3		76.0-123		03/22/2017 06:20	<a href="#">WG962003</a>
(S) a,a,a-Trifluorotoluene	105		80.0-120		03/22/2017 06:20	<a href="#">WG962003</a>
(S) 4-Bromofluorobenzene	97.1		80.0-120		03/22/2017 06:20	<a href="#">WG962003</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/22/2017 06:43	<a href="#">WG962003</a>
Toluene	ND		0.00100	1	03/22/2017 06:43	<a href="#">WG962003</a>
Ethylbenzene	ND		0.00100	1	03/22/2017 06:43	<a href="#">WG962003</a>
o-Xylene	ND		0.00100	1	03/22/2017 06:43	<a href="#">WG962003</a>
m&p-Xylene	ND		0.00200	1	03/22/2017 06:43	<a href="#">WG962003</a>
Xylenes, Total	ND		0.00300	1	03/22/2017 06:43	<a href="#">WG962003</a>
Naphthalene	ND		0.00500	1	03/22/2017 06:43	<a href="#">WG962003</a>
(S) Toluene-d8	106		80.0-120		03/22/2017 06:43	<a href="#">WG962003</a>
(S) Dibromofluoromethane	88.8		76.0-123		03/22/2017 06:43	<a href="#">WG962003</a>
(S) a,a,a-Trifluorotoluene	105		80.0-120		03/22/2017 06:43	<a href="#">WG962003</a>
(S) 4-Bromofluorobenzene	97.6		80.0-120		03/22/2017 06:43	<a href="#">WG962003</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/22/2017 07:06	<a href="#">WG962003</a>
Toluene	ND		0.00100	1	03/22/2017 07:06	<a href="#">WG962003</a>
Ethylbenzene	ND		0.00100	1	03/22/2017 07:06	<a href="#">WG962003</a>
o-Xylene	ND		0.00100	1	03/22/2017 07:06	<a href="#">WG962003</a>
m&p-Xylene	ND		0.00200	1	03/22/2017 07:06	<a href="#">WG962003</a>
Xylenes, Total	ND		0.00300	1	03/22/2017 07:06	<a href="#">WG962003</a>
Naphthalene	ND		0.00500	1	03/22/2017 07:06	<a href="#">WG962003</a>
(S) Toluene-d8	105		80.0-120		03/22/2017 07:06	<a href="#">WG962003</a>
(S) Dibromofluoromethane	90.6		76.0-123		03/22/2017 07:06	<a href="#">WG962003</a>
(S) a,a,a-Trifluorotoluene	106		80.0-120		03/22/2017 07:06	<a href="#">WG962003</a>
(S) 4-Bromofluorobenzene	98.6		80.0-120		03/22/2017 07:06	<a href="#">WG962003</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/22/2017 07:28	<a href="#">WG962003</a>
Toluene	ND		0.00100	1	03/22/2017 07:28	<a href="#">WG962003</a>
Ethylbenzene	ND		0.00100	1	03/22/2017 07:28	<a href="#">WG962003</a>
o-Xylene	ND		0.00100	1	03/22/2017 07:28	<a href="#">WG962003</a>
m&p-Xylene	ND		0.00200	1	03/22/2017 07:28	<a href="#">WG962003</a>
Xylenes, Total	ND		0.00300	1	03/22/2017 07:28	<a href="#">WG962003</a>
Naphthalene	ND		0.00500	1	03/22/2017 07:28	<a href="#">WG962003</a>
(S) Toluene-d8	105		80.0-120		03/22/2017 07:28	<a href="#">WG962003</a>
(S) Dibromofluoromethane	90.5		76.0-123		03/22/2017 07:28	<a href="#">WG962003</a>
(S) a,a,a-Trifluorotoluene	105		80.0-120		03/22/2017 07:28	<a href="#">WG962003</a>
(S) 4-Bromofluorobenzene	98.9		80.0-120		03/22/2017 07:28	<a href="#">WG962003</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/22/2017 07:51	<a href="#">WG962003</a>
Toluene	ND		0.00100	1	03/22/2017 07:51	<a href="#">WG962003</a>
Ethylbenzene	ND		0.00100	1	03/22/2017 07:51	<a href="#">WG962003</a>
o-Xylene	ND		0.00100	1	03/22/2017 07:51	<a href="#">WG962003</a>
m&p-Xylene	ND		0.00200	1	03/22/2017 07:51	<a href="#">WG962003</a>
Xylenes, Total	ND		0.00300	1	03/22/2017 07:51	<a href="#">WG962003</a>
Naphthalene	ND		0.00500	1	03/22/2017 07:51	<a href="#">WG962003</a>
(S) Toluene-d8	105		80.0-120		03/22/2017 07:51	<a href="#">WG962003</a>
(S) Dibromofluoromethane	90.0		76.0-123		03/22/2017 07:51	<a href="#">WG962003</a>
(S) a,a,a-Trifluorotoluene	106		80.0-120		03/22/2017 07:51	<a href="#">WG962003</a>
(S) 4-Bromofluorobenzene	98.6		80.0-120		03/22/2017 07:51	<a href="#">WG962003</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/22/2017 08:14	<a href="#">WG962003</a>
Toluene	ND		0.00100	1	03/22/2017 08:14	<a href="#">WG962003</a>
Ethylbenzene	ND		0.00100	1	03/22/2017 08:14	<a href="#">WG962003</a>
o-Xylene	ND		0.00100	1	03/22/2017 08:14	<a href="#">WG962003</a>
m&p-Xylene	ND		0.00200	1	03/22/2017 08:14	<a href="#">WG962003</a>
Xylenes, Total	ND		0.00300	1	03/22/2017 08:14	<a href="#">WG962003</a>
Naphthalene	ND		0.00500	1	03/22/2017 08:14	<a href="#">WG962003</a>
(S) Toluene-d8	106		80.0-120		03/22/2017 08:14	<a href="#">WG962003</a>
(S) Dibromofluoromethane	89.3		76.0-123		03/22/2017 08:14	<a href="#">WG962003</a>
(S) a,a,a-Trifluorotoluene	106		80.0-120		03/22/2017 08:14	<a href="#">WG962003</a>
(S) 4-Bromofluorobenzene	97.8		80.0-120		03/22/2017 08:14	<a href="#">WG962003</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0114		0.00100	1	03/22/2017 08:37	<a href="#">WG962003</a>
Toluene	0.00860		0.00100	1	03/22/2017 08:37	<a href="#">WG962003</a>
Ethylbenzene	ND		0.00100	1	03/22/2017 08:37	<a href="#">WG962003</a>
o-Xylene	0.00360		0.00100	1	03/22/2017 08:37	<a href="#">WG962003</a>
m&p-Xylene	0.00445		0.00200	1	03/22/2017 08:37	<a href="#">WG962003</a>
Xylenes, Total	0.00805		0.00300	1	03/22/2017 08:37	<a href="#">WG962003</a>
Naphthalene	ND		0.00500	1	03/22/2017 08:37	<a href="#">WG962003</a>
(S) Toluene-d8	106		80.0-120		03/22/2017 08:37	<a href="#">WG962003</a>
(S) Dibromofluoromethane	92.6		76.0-123		03/22/2017 08:37	<a href="#">WG962003</a>
(S) a,a,a-Trifluorotoluene	105		80.0-120		03/22/2017 08:37	<a href="#">WG962003</a>
(S) 4-Bromofluorobenzene	97.7		80.0-120		03/22/2017 08:37	<a href="#">WG962003</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/22/2017 09:00	<a href="#">WG962003</a>
Toluene	0.00290		0.00100	1	03/22/2017 09:00	<a href="#">WG962003</a>
Ethylbenzene	ND		0.00100	1	03/22/2017 09:00	<a href="#">WG962003</a>
o-Xylene	ND		0.00100	1	03/22/2017 09:00	<a href="#">WG962003</a>
m&p-Xylene	ND		0.00200	1	03/22/2017 09:00	<a href="#">WG962003</a>
Xylenes, Total	ND		0.00300	1	03/22/2017 09:00	<a href="#">WG962003</a>
Naphthalene	ND		0.00500	1	03/22/2017 09:00	<a href="#">WG962003</a>
(S) Toluene-d8	105		80.0-120		03/22/2017 09:00	<a href="#">WG962003</a>
(S) Dibromofluoromethane	89.6		76.0-123		03/22/2017 09:00	<a href="#">WG962003</a>
(S) a,a,a-Trifluorotoluene	106		80.0-120		03/22/2017 09:00	<a href="#">WG962003</a>
(S) 4-Bromofluorobenzene	98.5		80.0-120		03/22/2017 09:00	<a href="#">WG962003</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00302		0.00100	1	03/22/2017 09:23	<a href="#">WG962003</a>
Toluene	0.00513		0.00100	1	03/22/2017 09:23	<a href="#">WG962003</a>
Ethylbenzene	ND		0.00100	1	03/22/2017 09:23	<a href="#">WG962003</a>
o-Xylene	0.00174		0.00100	1	03/22/2017 09:23	<a href="#">WG962003</a>
m&p-Xylene	0.00216		0.00200	1	03/22/2017 09:23	<a href="#">WG962003</a>
Xylenes, Total	0.00390		0.00300	1	03/22/2017 09:23	<a href="#">WG962003</a>
Naphthalene	ND		0.00500	1	03/22/2017 09:23	<a href="#">WG962003</a>
(S) Toluene-d8	105		80.0-120		03/22/2017 09:23	<a href="#">WG962003</a>
(S) Dibromofluoromethane	90.2		76.0-123		03/22/2017 09:23	<a href="#">WG962003</a>
(S) a,a,a-Trifluorotoluene	107		80.0-120		03/22/2017 09:23	<a href="#">WG962003</a>
(S) 4-Bromofluorobenzene	97.4		80.0-120		03/22/2017 09:23	<a href="#">WG962003</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/22/2017 09:46	<a href="#">WG962003</a>
Toluene	ND		0.00100	1	03/22/2017 09:46	<a href="#">WG962003</a>
Ethylbenzene	ND		0.00100	1	03/22/2017 09:46	<a href="#">WG962003</a>
o-Xylene	ND		0.00100	1	03/22/2017 09:46	<a href="#">WG962003</a>
m&p-Xylene	ND		0.00200	1	03/22/2017 09:46	<a href="#">WG962003</a>
Xylenes, Total	ND		0.00300	1	03/22/2017 09:46	<a href="#">WG962003</a>
Naphthalene	ND		0.00500	1	03/22/2017 09:46	<a href="#">WG962003</a>
(S) Toluene-d8	105		80.0-120		03/22/2017 09:46	<a href="#">WG962003</a>
(S) Dibromofluoromethane	91.0		76.0-123		03/22/2017 09:46	<a href="#">WG962003</a>
(S) a,a,a-Trifluorotoluene	106		80.0-120		03/22/2017 09:46	<a href="#">WG962003</a>
(S) 4-Bromofluorobenzene	97.7		80.0-120		03/22/2017 09:46	<a href="#">WG962003</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/22/2017 10:09	<a href="#">WG962003</a>
Toluene	ND		0.00100	1	03/22/2017 10:09	<a href="#">WG962003</a>
Ethylbenzene	ND		0.00100	1	03/22/2017 10:09	<a href="#">WG962003</a>
o-Xylene	ND		0.00100	1	03/22/2017 10:09	<a href="#">WG962003</a>
m&p-Xylene	ND		0.00200	1	03/22/2017 10:09	<a href="#">WG962003</a>
Xylenes, Total	ND		0.00300	1	03/22/2017 10:09	<a href="#">WG962003</a>
Naphthalene	ND		0.00500	1	03/22/2017 10:09	<a href="#">WG962003</a>
(S) Toluene-d8	106		80.0-120		03/22/2017 10:09	<a href="#">WG962003</a>
(S) Dibromofluoromethane	90.3		76.0-123		03/22/2017 10:09	<a href="#">WG962003</a>
(S) a,a,a-Trifluorotoluene	106		80.0-120		03/22/2017 10:09	<a href="#">WG962003</a>
(S) 4-Bromofluorobenzene	99.2		80.0-120		03/22/2017 10:09	<a href="#">WG962003</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.125		0.00100	1	03/22/2017 10:32	<a href="#">WG962003</a>
Toluene	0.185		0.00500	5	03/22/2017 11:17	<a href="#">WG962003</a>
Ethylbenzene	0.0153		0.00100	1	03/22/2017 10:32	<a href="#">WG962003</a>
o-Xylene	0.0355		0.00100	1	03/22/2017 10:32	<a href="#">WG962003</a>
m&p-Xylene	0.0679		0.00200	1	03/22/2017 10:32	<a href="#">WG962003</a>
Xylenes, Total	0.103		0.00300	1	03/22/2017 10:32	<a href="#">WG962003</a>
Naphthalene	ND		0.00500	1	03/22/2017 10:32	<a href="#">WG962003</a>
(S) Toluene-d8	105		80.0-120		03/22/2017 11:17	<a href="#">WG962003</a>
(S) Toluene-d8	106		80.0-120		03/22/2017 10:32	<a href="#">WG962003</a>
(S) Dibromofluoromethane	88.6		76.0-123		03/22/2017 11:17	<a href="#">WG962003</a>
(S) Dibromofluoromethane	92.4		76.0-123		03/22/2017 10:32	<a href="#">WG962003</a>
(S) a,a,a-Trifluorotoluene	107		80.0-120		03/22/2017 10:32	<a href="#">WG962003</a>
(S) a,a,a-Trifluorotoluene	106		80.0-120		03/22/2017 11:17	<a href="#">WG962003</a>
(S) 4-Bromofluorobenzene	98.9		80.0-120		03/22/2017 10:32	<a href="#">WG962003</a>
(S) 4-Bromofluorobenzene	98.9		80.0-120		03/22/2017 11:17	<a href="#">WG962003</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3204992-3 03/22/17 01:46

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.000331	0.00100
Ethylbenzene	U		0.000384	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000412	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	106			80.0-120
(S) Dibromofluoromethane	89.4			76.0-123
(S) a,a,a-Trifluorotoluene	106			80.0-120
(S) 4-Bromofluorobenzene	97.1			80.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3204992-1 03/21/17 23:51 • (LCSD) R3204992-2 03/22/17 00:14

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Benzene	0.0250	0.0262	0.0265	105	106	70.0-130			0.910	20
Ethylbenzene	0.0250	0.0218	0.0217	87.3	86.9	70.0-130			0.450	20
Naphthalene	0.0250	0.0260	0.0270	104	108	70.0-130			3.81	20
Toluene	0.0250	0.0257	0.0260	103	104	70.0-130			0.980	20
o-Xylene	0.0250	0.0219	0.0221	87.4	88.6	70.0-130			1.33	20
Xylenes, Total	0.0750	0.0661	0.0669	88.1	89.2	70.0-130			1.20	20
m&p-Xylenes	0.0500	0.0442	0.0448	88.4	89.6	70.0-130			1.29	20
(S) Toluene-d8				108	108	80.0-120				
(S) Dibromofluoromethane				92.2	92.0	76.0-123				
(S) a,a,a-Trifluorotoluene				106	107	80.0-120				
(S) 4-Bromofluorobenzene				95.6	95.0	80.0-120				



## Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

## Qualifier                      Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.  
 \* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina <sup>1</sup>	DW21704
Florida	E87487	North Carolina <sup>2</sup>	41
Georgia	NELAP	North Dakota	R-140
Georgia <sup>1</sup>	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky <sup>1</sup>	90010	South Dakota	n/a
Kentucky <sup>2</sup>	16	Tennessee <sup>14</sup>	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

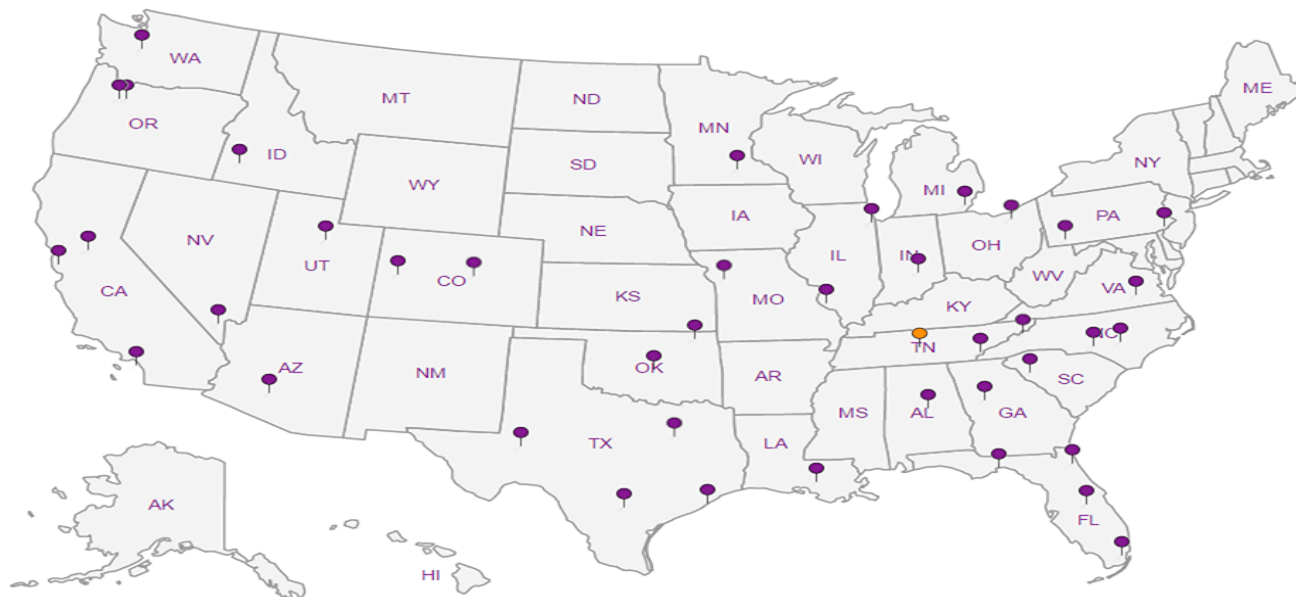
## Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>n/a</sup> Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



**CH2M Hill- Kinder Morgan- Atlanta, GA**  
 6600 Peachtree Dunwoody Road  
 Report to:  
**Bethany Garvey**  
 Project  
 Description: **Lewis Drive Site Surface water event**  
 Phone: **770-604-9182**  
 Fax:  
 Collected by (print):  
 Paula Kramer  
 Justine McCann  
 Collected by (signature):  
 Justine McCann  
 Immediately  
 Packed on Ice  N  Y

Billing Information:  
**Accounts Payable**  
 1000 Windward Concourse  
 Ste 450  
 Alpharetta, GA 30005  
 Email To: bgarvey@ch2m.com  
 City/State Collected:  
 Lab Project # **KINCH2MGA-LEWIS**  
 P.O. #  
 Quote #  
 Date Results Needed

Pres Chk	Analysis / Container / Preservative											
HCl												
	V82608	TEXNSC	40ml	amb	HCl							

Chain of Custody Page **1** of **2**  
  
 L·A·B S·C·I·E·N·C·E·S  
**YOUR LAB OF CHOICE**  
 12065 Lebanon Rd  
 Mount Juliet, TN 37122  
 Phone: 615-758-5856  
 Phone: 800-767-5859  
 Fax: 615-758-5859  


L# **896398**  
**C131**  
 Acctnum: KINCH2MGA  
 Template: T121339  
 Prelogin: P592450  
 TSR: 526 - Chris McCord  
 PB: **JG 3-9-17**  
 Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Analysis / Container / Preservative																			
							V82608TEXNSC 40ml amb HCl																			
SW-11-031517	grab	GW	N/A	3/15/17	0830	3	X																			
SW-10-031517		GW			0845	3	X																			
FR-03-031517		GW			0900	3	X																			
FP-02-031517		GW			0945	3	X																			
FP-01-031517		GW			0935	3	X																			
SW-09-031517		GW			0955	3	X																			
SW-08-031517		GW			1005	3	X																			
SW-13-031517		GW			1015	3	X																			
SW-02-031517		GW			1025	3	X																			
SW-04-031517		GW			1030	3	X																			

Remarks	Sample # (lab only)
	01
	02
	03
	04
	05
	06
	07
	08
	09
	10

\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - Waste Water  
 DW - Drinking Water  
 OT - Other


Remarks:  
 Samples returned via:  
 UPS  FedEx  Courier

Tracking #  
 pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_

Sample Receipt Checklist  
 COC Seal Present/Intact:  NP  Y  N  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 If Applicable  
 VOA Zero Headspace:  Y  N  
 Preservation Correct/Checked:  Y  N

Relinquished by: (Signature) *Justine McCann* Date: *3/15/17* Time: *1600*  
 Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature) \_\_\_\_\_ Trip Blank Received: Yes  No   
 HCl/MeOH TBR  
 Temp: *SW 3.6 °C* Bottles Received: *42*  
 If preservation required by Login: Date/Time  
 Date: *3/16/17* Time: *8:00*  
 Hold: \_\_\_\_\_ Condition: NCF /  OK

<b>CH2M Hill- Kinder Morgan- Atlanta, GA</b>  6600 Peachtree Dunwoody Road		Billing Information: <b>Accounts Payable</b> 1000 Windward Concourse Ste 450 Alpharetta, GA 30005				Pres Chk <b>HCI</b>		Analysis / Container / Preservative						Chain of Custody Page <b>2 of 2</b>	
		Report to: <b>Bethany Garvey</b> Email To: bgarvey@ch2m.com				City/State Collected:  Lab Project # <b>KINCH2MGA-LEWIS</b>		V8260BTEXNSC 40mlamb-HCI						 YOUR LAB OF CHOICE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859	
Project Description: <b>Lewis Drive Site Surface water event</b>		Client Project # <b>68491D.LDRA.S1</b>		Site/Facility ID # <b>Lewis Drive</b>										P.O. # Quote #	
Phone: <b>770-604-9182</b> Fax:		Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input checked="" type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day		Date Results Needed		No. of Cntrs		Shipped Via: <b>FedEX Ground</b>							
Collected by (print): <b>Paula Kramer</b> <b>Justine McLann</b>		Collected by (signature): <b>Justine McLann</b>		Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>											
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time							Remarks	Sample # (lab only)		
SW-01-031517	grab	GW	NA	3/15/17	1045	3	X						11		
SW-07-031517	↓	GW	↓	↓	1050	3	X						12		
SW-03-031517	↓	GW	↓	↓	1100	3	X						13		
SW-12-031517	↓	GW	↓	↓	1110	3	X						14		
		GW				3	X								
		GW				3	X								
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____		Remarks:		Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier		Tracking #		pH _____ Temp _____ Flow _____ Other _____		Sample Receipt Checklist COC Seal Present/Intact: <input type="checkbox"/> NP <input type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N					
Relinquished by: (Signature) <b>Justine McLann</b>		Date: <b>3/15/17</b>		Time: <b>1600</b>		Received by: (Signature)		Trip Blank Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> HCL / MeOH TBR		If preservation required by Login: Date/Time					
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Temp: <b>5.7°C</b> <b>3.6</b>		Bottles Received: <b>42</b>					
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature) <b>Justine McLann</b>		Date: <b>3/16/17</b>		Time: <b>9:00</b>		Hold: Condition: <b>NCF / OK</b>			

Air Monitoring Output







124	3/14/2017	9:43:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0.1	
125	3/14/2017	9:53:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	2	0.3
126	3/14/2017	10:03:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0
127	3/14/2017	10:13:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.9	0.1
128	3/14/2017	10:23:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.2	0
129	3/14/2017	10:33:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.4	0
130	3/14/2017	10:43:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0
131	3/14/2017	10:53:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.2	0
132	3/14/2017	11:03:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.2	0
133	3/14/2017	11:13:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.2	0
134	3/14/2017	11:23:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0
135	3/14/2017	11:33:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.3	0
136	3/14/2017	11:43:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.3	0
137	3/14/2017	11:53:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.3	0.1
138	3/14/2017	12:03:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0
139	3/14/2017	12:13:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	1.2	0.2
140	3/14/2017	12:23:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.4	2.1	0.1
141	3/14/2017	12:33:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.4	1.5	0.7
142	3/14/2017	12:43:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	1.9	0.1
143	3/14/2017	12:53:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0.9	0.2
144	3/14/2017	13:03:00	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.8	0
Peak			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.4	2.1	0.7
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.2	0

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TWA/STEL

Index	Date/Time	H2S(ppm)		CO(ppm)		VOC(ppm)	
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/13/2017 13:13:50	0	---	0	---	---	---
2	3/13/2017 13:23:50	0	0	0	0	0	---
3	3/13/2017 13:33:50	0	0	0	0	0	0
4	3/13/2017 13:43:50	0	0	0	0	0	0
5	3/13/2017 13:53:50	0	0	0	0	0	0
6	3/13/2017 14:03:50	0	0	0	0	0	0
7	3/13/2017 14:13:50	0	0	0	0	0	0
8	3/13/2017 14:23:50	0	0	0	0	0	0
9	3/13/2017 14:33:50	0	0	0	0	0	0
10	3/13/2017 14:43:50	0	0	0	0	0	0
11	3/13/2017 14:53:50	0	0	0	0	0	0
12	3/13/2017 15:03:50	0	0	0	0	0	0
13	3/13/2017 15:13:50	0	0	0	0	0	0
14	3/13/2017 15:23:50	0	0	0	0	0	0
15	3/13/2017 15:33:50	0	0	0	0	0	0
16	3/13/2017 15:43:50	0	0	0	0	0	0
17	3/13/2017 15:53:50	0	0	0	0	0	0
18	3/13/2017 16:03:50	0	0	0	0	0	0
19	3/13/2017 16:13:50	0	0	0	0	0	0
20	3/13/2017 16:23:50	0	0	0	0	0	0
21	3/13/2017 16:33:50	0	0	0	0	0	0
22	3/13/2017 16:43:50	0	0	0	0	0	0
23	3/13/2017 16:53:50	0	0	0	0	0	0
24	3/13/2017 17:03:50	0	0	0	0	0	0
25	3/13/2017 17:13:50	0	0	0	0	0	0
26	3/13/2017 17:23:50	0	0	0	0	0	0

27	3/13/2017	17:33:50	0	0	0	0	0	0
28	3/13/2017	17:43:50	0	0	0	0	0	0
29	3/13/2017	17:53:50	0	0	0	0	0	0
30	3/13/2017	18:03:50	0	0	0	0	0	0
31	3/13/2017	18:13:50	0	0	0	0	0	0
32	3/13/2017	18:23:50	0	0	0	0	0	0
33	3/13/2017	18:33:50	0	0	0	0	0	0
34	3/13/2017	18:43:50	0	0	0	0	0	0
35	3/13/2017	18:53:50	0	0	0	0	0	0
36	3/13/2017	19:03:50	0	0	0	0	0	0
37	3/13/2017	19:13:50	0	0	0	0	0	0
38	3/13/2017	19:23:50	0	0	0	0	0	0
39	3/13/2017	19:33:50	0	0	0	0	0	0
40	3/13/2017	19:43:50	0	0	0	0	0	0
41	3/13/2017	19:53:50	0	0	0	0	0	0
42	3/13/2017	20:03:50	0	0	0	0	0	0
43	3/13/2017	20:13:50	0	0	0	0	0	0
44	3/13/2017	20:23:50	0	0	0	0	0	0
45	3/13/2017	20:33:50	0	0	0	0	0	0
46	3/13/2017	20:43:50	0	0	0	0	0	0
47	3/13/2017	20:53:50	0	0	0	0	0	0
48	3/13/2017	21:03:50	0	0	0	0	0	0
49	3/13/2017	21:13:50	0	0	0	0	0	0
50	3/13/2017	21:23:50	0	0	0	0	0	0
51	3/13/2017	21:33:50	0	0	0	0	0	0
52	3/13/2017	21:43:50	0	0	0	0	0	0
53	3/13/2017	21:53:50	0	0	0	0	0	0
54	3/13/2017	22:03:50	0	0	0	0	0	0
55	3/13/2017	22:13:50	0	0	0	0	0	0
56	3/13/2017	22:23:50	0	0	0	0	0	0
57	3/13/2017	22:33:50	0	0	0	0	0	0
58	3/13/2017	22:43:50	0	0	0	0	0	0
59	3/13/2017	22:53:50	0	0	0	0	0	0
60	3/13/2017	23:03:50	0	0	0	0	0	0
61	3/13/2017	23:13:50	0	0	0	0	0	0
62	3/13/2017	23:23:50	0	0	0	0	0	0
63	3/13/2017	23:33:50	0	0	0	0	0	0
64	3/13/2017	23:43:50	0	0	0	0	0	0
65	3/13/2017	23:53:50	0	0	0	0	0	0
66	3/13/2017	0:03:50	0	0	0	0	0	0
67	3/13/2017	0:13:50	0	0	0	0	0	0
68	3/13/2017	0:23:50	0	0	0	0	0	0
69	3/13/2017	0:33:50	0	0	0	0	0	0
70	3/13/2017	0:43:50	0	0	0	0	0	0
71	3/13/2017	0:53:50	0	0	0	0	0	0.1
72	3/14/2017	1:03:50	0	0	0	0	0	0.1
73	3/14/2017	1:13:50	0	0	0	0	0	0.1
74	3/14/2017	1:23:50	0	0	0	0	0	0.1
75	3/14/2017	1:33:50	0	0	0	0	0	0
76	3/14/2017	1:43:50	0	0	0	0	0	0
77	3/14/2017	1:53:50	0	0	0	0	0	0
78	3/14/2017	2:03:50	0	0	0	0	0	0
79	3/14/2017	2:13:50	0	0	0	0	0	0
80	3/14/2017	2:23:50	0	0	0	0	0	0
81	3/14/2017	2:33:50	0	0	0	0	0	0



82	3/14/2017	2:43:50	0	0	0	0	0	0
83	3/14/2017	2:53:50	0	0	0	0	0	0
84	3/14/2017	3:03:50	0	0	0	0	0	0.1
85	3/14/2017	3:13:50	0	0	0	0	0	0.1
86	3/14/2017	3:23:50	0	0	0	0	0	0
87	3/14/2017	3:33:50	0	0	0	0	0	0
88	3/14/2017	3:43:50	0	0	0	0	0	0
89	3/14/2017	3:53:50	0	0	0	0	0	0
90	3/14/2017	4:03:50	0	0	0	0	0	0
91	3/14/2017	4:13:50	0	0	0	0	0	0
92	3/14/2017	4:23:50	0	0	0	0	0	0
93	3/14/2017	4:33:50	0	0	0	0	0	0.1
94	3/14/2017	4:43:50	0	0	0	0	0	0.1
95	3/14/2017	4:53:50	0	0	0	0	0	0.1
96	3/14/2017	5:03:50	0	0	0	0	0	0.1
97	3/14/2017	5:13:50	0	0	0	0	0	0
98	3/14/2017	5:23:50	0	0	0	0	0	0
99	3/14/2017	5:33:50	0	0	0	0	0	0
100	3/14/2017	5:43:50	0	0	0	0	0	0
101	3/14/2017	5:53:50	0	0	0	0	0	0
102	3/14/2017	6:03:50	0	0	0	0	0	0
103	3/14/2017	6:13:50	0	0	0	0	0	0
104	3/14/2017	6:23:50	0	0	0	0	0	0
105	3/14/2017	6:33:50	0	0	0	0	0	0
106	3/14/2017	6:43:50	0	0	0	0	0	0.1
107	3/14/2017	6:53:50	0	0	0	0	0	0.1
108	3/14/2017	7:03:50	0	0	0	0	0	0
109	3/14/2017	7:13:50	0	0	0	0	0	0
110	3/14/2017	7:23:50	0	0	0	0	0	0
111	3/14/2017	7:33:50	0	0	0	0	0	0
112	3/14/2017	7:43:50	0	0	0	0	0	0
113	3/14/2017	7:53:50	0	0	0	0	0	0
114	3/14/2017	8:03:50	0	0	0	0	0	0
115	3/14/2017	8:13:50	0	0	0	0	0	0
116	3/14/2017	8:23:50	0	0	0	0	0	0
117	3/14/2017	8:33:50	0	0	0	0	0	0
118	3/14/2017	8:43:50	0	0	0	0	0	0.1
119	3/14/2017	8:53:50	0	0	0	0	0	0.1
120	3/14/2017	9:03:50	0	0	0	0	0	0
121	3/14/2017	9:13:50	0	0	0	0	0	0
122	3/14/2017	9:23:50	0	0	0	0	0	0
123	3/14/2017	9:33:50	0	0	0	0	0	0
124	3/14/2017	9:43:50	0	0	0	0	0	0.1
125	3/14/2017	9:53:50	0	0	0	0	0	0.3
126	3/14/2017	10:03:50	0	0	0	0	0	0.2
127	3/14/2017	10:13:50	0	0	0	0	0	0.1
128	3/14/2017	10:23:50	0	0	0	0	0	0.1
129	3/14/2017	10:33:50	0	0	0	0	0	0
130	3/14/2017	10:43:50	0	0	0	0	0	0
131	3/14/2017	10:53:50	0	0	0	0	0	0
132	3/14/2017	11:03:50	0	0	0	0	0	0
133	3/14/2017	11:13:50	0	0	0	0	0	0
134	3/14/2017	11:23:50	0	0	0	0	0	0
135	3/14/2017	11:33:50	0	0	0	0	0	0
136	3/14/2017	11:43:50	0	0	0	0	0	0







116	3/15/2017	8:23:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.8	0
117	3/15/2017	8:33:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.9	0
118	3/15/2017	8:43:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
119	3/15/2017	8:53:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.6	6.9	0.5
120	3/15/2017	9:03:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	1.3	7.7	1
121	3/15/2017	9:13:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.4	3.4	10.2	0.4
122	3/15/2017	9:23:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	2.5	8.2	0.7
123	3/15/2017	9:33:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.5	4.4	10.5	1.7
124	3/15/2017	9:43:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.9	7.4	1.2
125	3/15/2017	9:53:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	1.1	0
126	3/15/2017	10:03:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.5	2.1	0
127	3/15/2017	10:13:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	0
128	3/15/2017	10:23:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	1.5	0
129	3/15/2017	10:33:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.5	6.3	0.6
130	3/15/2017	10:43:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.4	3.3	10.2	1
131	3/15/2017	10:53:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.4	4.2	0
132	3/15/2017	11:03:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.6	8.4	0
133	3/15/2017	11:13:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	1.9	9.4	0.4
134	3/15/2017	11:23:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.8	5.9	1.2
135	3/15/2017	11:33:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	1.4	6.8	0.3
136	3/15/2017	11:43:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.2
137	3/15/2017	11:53:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.5	0
138	3/15/2017	12:03:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	0
139	3/15/2017	12:13:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.5	0
140	3/15/2017	12:23:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.6	0
141	3/15/2017	12:33:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.9	0
142	3/15/2017	12:43:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	1.6	0
143	3/15/2017	12:53:50	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.5	0
144	3/15/2017	13:03:00	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.4	0
Peak			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.5	4.4	10.5	1.7
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	1	0.1

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TWA/STEL

Index	Date/Time		H2S(ppm)		CO(ppm)		VOC(ppm)	
			(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/14/2017	13:13:50	0	---	0	---	0	---
2	3/14/2017	13:23:50	0	0	0	0	0	0.1
3	3/14/2017	13:33:50	0	0	0	0	0	0.1
4	3/14/2017	13:43:50	0	0	0	0	0	0.2
5	3/14/2017	13:53:50	0	0	0	0	0	0.2
6	3/14/2017	14:03:50	0	0	0	0	0	0
7	3/14/2017	14:13:50	0	0	0	0	0	0
8	3/14/2017	14:23:50	0	0	0	0	0	0
9	3/14/2017	14:33:50	0	0	0	0	0	0
10	3/14/2017	14:43:50	0	0	0	0	0	0
11	3/14/2017	14:53:50	0	0	0	0	0	0.1
12	3/14/2017	15:03:50	0	0	0	0	0	0.1
13	3/14/2017	15:13:50	0	0	0	0	0	0
14	3/14/2017	15:23:50	0	0	0	0	0	0
15	3/14/2017	15:33:50	0	0	0	0	0	0
16	3/14/2017	15:43:50	0	0	0	0	0	0
17	3/14/2017	15:53:50	0	0	0	0	0	0
18	3/14/2017	16:03:50	0	0	0	0	0	0

19	3/14/2017	16:13:50	0	0	0	0	0	0
20	3/14/2017	16:23:50	0	0	0	0	0	0
21	3/14/2017	16:33:50	0	0	0	0	0	0
22	3/14/2017	16:43:50	0	0	0	0	0	0
23	3/14/2017	16:53:50	0	0	0	0	0	0
24	3/14/2017	17:03:50	0	0	0	0	0	0
25	3/14/2017	17:13:50	0	0	0	0	0	0
26	3/14/2017	17:23:50	0	0	0	0	0	0
27	3/14/2017	17:33:50	0	0	0	0	0	0
28	3/14/2017	17:43:50	0	0	0	0	0	0
29	3/14/2017	17:53:50	0	0	0	0	0	0
30	3/14/2017	18:03:50	0	0	0	0	0	0
31	3/14/2017	18:13:50	0	0	0	0	0	0
32	3/14/2017	18:23:50	0	0	0	0	0	0
33	3/14/2017	18:33:50	0	0	0	0	0	0
34	3/14/2017	18:43:50	0	0	0	0	0	0
35	3/14/2017	18:53:50	0	0	0	0	0	0
36	3/14/2017	19:03:50	0	0	0	0	0	0
37	3/14/2017	19:13:50	0	0	0	0	0	0
38	3/14/2017	19:23:50	0	0	0	0	0	0
39	3/14/2017	19:33:50	0	0	0	0	0	0
40	3/14/2017	19:43:50	0	0	0	0	0	0
41	3/14/2017	19:53:50	0	0	0	0	0	0
42	3/14/2017	20:03:50	0	0	0	0	0	0
43	3/14/2017	20:13:50	0	0	0	0	0	0.1
44	3/14/2017	20:23:50	0	0	0	0	0	0.1
45	3/14/2017	20:33:50	0	0	0	0	0	0
46	3/14/2017	20:43:50	0	0	0	0	0	0
47	3/14/2017	20:53:50	0	0	0	0	0	0
48	3/14/2017	21:03:50	0	0	0	0	0	0
49	3/14/2017	21:13:50	0	0	0	0	0	0.1
50	3/14/2017	21:23:50	0	0	0	0	0	0.2
51	3/14/2017	21:33:50	0	0	0	0	0	0.1
52	3/14/2017	21:43:50	0	0	0	0	0	0
53	3/14/2017	21:53:50	0	0	0	0	0	0
54	3/14/2017	22:03:50	0	0	0	0	0	0
55	3/14/2017	22:13:50	0	0	0	0	0	0
56	3/14/2017	22:23:50	0	0	0	0	0	0
57	3/14/2017	22:33:50	0	0	0	0	0	0
58	3/14/2017	22:43:50	0	0	0	0	0	0
59	3/14/2017	22:53:50	0	0	0	0	0	0
60	3/14/2017	23:03:50	0	0	0	0	0	0
61	3/14/2017	23:13:50	0	0	0	0	0	0
62	3/14/2017	23:23:50	0	0	0	0	0	0
63	3/14/2017	23:33:50	0	0	0	0	0	0
64	3/14/2017	23:43:50	0	0	0	0	0	0
65	3/14/2017	23:53:50	0	0	0	0	0	0
66	3/14/2017	0:03:50	0	0	0	0	0	0.2
67	3/14/2017	0:13:50	0	0	0	0	0	0.2
68	3/14/2017	0:23:50	0	0	0	0	0	0
69	3/14/2017	0:33:50	0	0	0	0	0	0.3
70	3/14/2017	0:43:50	0	0	0	0	0	0.3
71	3/14/2017	0:53:50	0	0	0	0	0.1	0.6
72	3/15/2017	1:03:50	0	0	0	0	0.1	0.6
73	3/15/2017	1:13:50	0	0	0	0	0.1	0

74	3/15/2017	1:23:50	0	0	0	0	0.1	0
75	3/15/2017	1:33:50	0	0	0	0	0.1	0
76	3/15/2017	1:43:50	0	0	0	0	0.1	0
77	3/15/2017	1:53:50	0	0	0	0	0.1	0
78	3/15/2017	2:03:50	0	0	0	0	0.1	0
79	3/15/2017	2:13:50	0	0	0	0	0.1	0
80	3/15/2017	2:23:50	0	0	0	0	0.1	0
81	3/15/2017	2:33:50	0	0	0	0	0.1	0
82	3/15/2017	2:43:50	0	0	0	0	0.1	0
83	3/15/2017	2:53:50	0	0	0	0	0.1	0
84	3/15/2017	3:03:50	0	0	0	0	0.1	0
85	3/15/2017	3:13:50	0	0	0	0	0.1	0
86	3/15/2017	3:23:50	0	0	0	0	0.1	0
87	3/15/2017	3:33:50	0	0	0	0	0.1	0
88	3/15/2017	3:43:50	0	0	0	0	0.1	0
89	3/15/2017	3:53:50	0	0	0	0	0.1	0
90	3/15/2017	4:03:50	0	0	0	0	0.1	0
91	3/15/2017	4:13:50	0	0	0	0	0.1	0
92	3/15/2017	4:23:50	0	0	0	0	0.1	0
93	3/15/2017	4:33:50	0	0	0	0	0.1	0
94	3/15/2017	4:43:50	0	0	0	0	0.1	0
95	3/15/2017	4:53:50	0	0	0	0	0.1	0
96	3/15/2017	5:03:50	0	0	0	0	0.1	0
97	3/15/2017	5:13:50	0	0	0	0	0.1	0
98	3/15/2017	5:23:50	0	0	0	0	0.1	0
99	3/15/2017	5:33:50	0	0	0	0	0.1	0
100	3/15/2017	5:43:50	0	0	0	0	0.1	0
101	3/15/2017	5:53:50	0	0	0	0	0.1	0
102	3/15/2017	6:03:50	0	0	0	0	0.1	0
103	3/15/2017	6:13:50	0	0	0	0	0.1	0
104	3/15/2017	6:23:50	0	0	0	0	0.1	0
105	3/15/2017	6:33:50	0	0	0	0	0.1	0
106	3/15/2017	6:43:50	0	0	0	0	0.1	0
107	3/15/2017	6:53:50	0	0	0	0	0.1	0
108	3/15/2017	7:03:50	0	0	0	0	0.1	0
109	3/15/2017	7:13:50	0	0	0	0	0.1	0
110	3/15/2017	7:23:50	0	0	0	0	0.1	0
111	3/15/2017	7:33:50	0	0	0	0	0.1	0
112	3/15/2017	7:43:50	0	0	0	0	0.1	0
113	3/15/2017	7:53:50	0	0	0	0	0.1	0.3
114	3/15/2017	8:03:50	0	0	0	0	0.1	0.3
115	3/15/2017	8:13:50	0	0	0	0	0.1	0
116	3/15/2017	8:23:50	0	0	0	0	0.1	0
117	3/15/2017	8:33:50	0	0	0	0	0.1	0
118	3/15/2017	8:43:50	0	0	0	0	0.1	0
119	3/15/2017	8:53:50	0	0	0	0	0.1	0.3
120	3/15/2017	9:03:50	0	0	0	0	0.1	1
121	3/15/2017	9:13:50	0	0	0	0	0.1	0.9
122	3/15/2017	9:23:50	0	0	0	0	0.1	0.7
123	3/15/2017	9:33:50	0	0	0	0	0.2	1.6
124	3/15/2017	9:43:50	0	0	0	0	0.2	1.9
125	3/15/2017	9:53:50	0	0	0	0	0.2	0.8
126	3/15/2017	10:03:50	0	0	0	0	0.2	0
127	3/15/2017	10:13:50	0	0	0	0	0.2	0
128	3/15/2017	10:23:50	0	0	0	0	0.2	0

129	3/15/2017	10:33:50	0	0	0	0	0.2	0.4
130	3/15/2017	10:43:50	0	0	0	0	0.2	1.1
131	3/15/2017	10:53:50	0	0	0	0	0.2	0.7
132	3/15/2017	11:03:50	0	0	0	0	0.2	0
133	3/15/2017	11:13:50	0	0	0	0	0.2	0.3
134	3/15/2017	11:23:50	0	0	0	0	0.2	1.1
135	3/15/2017	11:33:50	0	0	0	0	0.3	1
136	3/15/2017	11:43:50	0	0	0	0	0.3	0.3
137	3/15/2017	11:53:50	0	0	0	0	0.3	0.1
138	3/15/2017	12:03:50	0	0	0	0	0.3	0
139	3/15/2017	12:13:50	0	0	0	0	0.3	0
140	3/15/2017	12:23:50	0	0	0	0	0.3	0
141	3/15/2017	12:33:50	0	0	0	0	0.3	0
142	3/15/2017	12:43:50	0	0	0	0	0.3	0
143	3/15/2017	12:53:50	0	0	0	0	0.3	0
144	3/15/2017	13:03:00	0	0	0	0	0.3	0

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17/03/15 12:03

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Summary

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Unit Name MultiRAE(PGM-6228)  
Unit SN MBB3Z064Q8  
Unit Firmware Ver V1.31  
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Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No  
Stop Reason Schedule Stop  
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Site ID 194  
User ID 0  
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Begin 3/15/2017 12:03:50  
End 3/16/2017 12:03:50  
Sample Period(s) 600  
Number of Records 144  
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Sensor	SN	LEL(%LEL)	OXY(%)	H2S(ppm)	CO(ppm)	VOC(ppm)															
Sensor	SN	SC0311128	SC0342108	SC03AR006	SC0306033	SC03A40150Q7															
Measure	Type	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real
Span		50	18	1	50	10															
Span		2 N/A	N/A	N/A	N/A	1000															
Low	Alarm	10	19.5	10	35	50															
High	Alarm	20	23.5	20	200	100															
Over	Alarm	100	30	100	500	5000															
STEL	Alarm	N/A	N/A	15	100	25															
TWA	Alarm	N/A	N/A	10	35	10															
Measurem Gas(CF)		Methane(1	N/A	N/A	N/A	Isobutylene(1.00)															
Calibration Time		3/2/2017	10:33	3/2/2017	10:33	3/2/2017	10:38	3/2/2017	10:33	3/2/2017	10:35										
Peak		0	20.9	0	0	2.7															
Min		0	20.9	0	0	0															
Average		0	20.9	0	0	0.1															

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11	3/15/2017	14:53:50	0	0	0	0	0	0
12	3/15/2017	15:03:50	0	0	0	0	0	0
13	3/15/2017	15:13:50	0	0	0	0	0	0
14	3/15/2017	15:23:50	0	0	0	0	0	0
15	3/15/2017	15:33:50	0	0	0	0	0	0
16	3/15/2017	15:43:50	0	0	0	0	0	0
17	3/15/2017	15:53:50	0	0	0	0	0	0
18	3/15/2017	16:03:50	0	0	0	0	0	0
19	3/15/2017	16:13:50	0	0	0	0	0	0
20	3/15/2017	16:23:50	0	0	0	0	0	0
21	3/15/2017	16:33:50	0	0	0	0	0	0
22	3/15/2017	16:43:50	0	0	0	0	0	0
23	3/15/2017	16:53:50	0	0	0	0	0	0
24	3/15/2017	17:03:50	0	0	0	0	0	0
25	3/15/2017	17:13:50	0	0	0	0	0	0
26	3/15/2017	17:23:50	0	0	0	0	0	0
27	3/15/2017	17:33:50	0	0	0	0	0	0
28	3/15/2017	17:43:50	0	0	0	0	0	0
29	3/15/2017	17:53:50	0	0	0	0	0	0
30	3/15/2017	18:03:50	0	0	0	0	0	0
31	3/15/2017	18:13:50	0	0	0	0	0	0
32	3/15/2017	18:23:50	0	0	0	0	0	0
33	3/15/2017	18:33:50	0	0	0	0	0	0
34	3/15/2017	18:43:50	0	0	0	0	0	0
35	3/15/2017	18:53:50	0	0	0	0	0	0
36	3/15/2017	19:03:50	0	0	0	0	0	0
37	3/15/2017	19:13:50	0	0	0	0	0	0
38	3/15/2017	19:23:50	0	0	0	0	0	0
39	3/15/2017	19:33:50	0	0	0	0	0	0
40	3/15/2017	19:43:50	0	0	0	0	0	0
41	3/15/2017	19:53:50	0	0	0	0	0	0
42	3/15/2017	20:03:50	0	0	0	0	0	0
43	3/15/2017	20:13:50	0	0	0	0	0	0
44	3/15/2017	20:23:50	0	0	0	0	0	0.1
45	3/15/2017	20:33:50	0	0	0	0	0	0.1
46	3/15/2017	20:43:50	0	0	0	0	0	0
47	3/15/2017	20:53:50	0	0	0	0	0	0.1
48	3/15/2017	21:03:50	0	0	0	0	0	0.1
49	3/15/2017	21:13:50	0	0	0	0	0	0
50	3/15/2017	21:23:50	0	0	0	0	0	0
51	3/15/2017	21:33:50	0	0	0	0	0	0
52	3/15/2017	21:43:50	0	0	0	0	0	0
53	3/15/2017	21:53:50	0	0	0	0	0	0
54	3/15/2017	22:03:50	0	0	0	0	0	0
55	3/15/2017	22:13:50	0	0	0	0	0	0
56	3/15/2017	22:23:50	0	0	0	0	0	0
57	3/15/2017	22:33:50	0	0	0	0	0	0
58	3/15/2017	22:43:50	0	0	0	0	0	0
59	3/15/2017	22:53:50	0	0	0	0	0	0
60	3/15/2017	23:03:50	0	0	0	0	0	0.1
61	3/15/2017	23:13:50	0	0	0	0	0	0.1
62	3/15/2017	23:23:50	0	0	0	0	0	0.3
63	3/15/2017	23:33:50	0	0	0	0	0	0.3
64	3/15/2017	23:43:50	0	0	0	0	0	0
65	3/15/2017	23:53:50	0	0	0	0	0	0.9

66	3/15/2017	0:03:50	0	0	0	0	0.1	2.7
67	3/15/2017	0:13:50	0	0	0	0	0.1	1.8
68	3/15/2017	0:23:50	0	0	0	0	0.1	0
69	3/15/2017	0:33:50	0	0	0	0	0.1	0
70	3/15/2017	0:43:50	0	0	0	0	0.1	0.4
71	3/15/2017	0:53:50	0	0	0	0	0.1	0.5
72	3/16/2017	1:03:50	0	0	0	0	0.1	0.3
73	3/16/2017	1:13:50	0	0	0	0	0.1	0.1
74	3/16/2017	1:23:50	0	0	0	0	0.1	0
75	3/16/2017	1:33:50	0	0	0	0	0.1	0.1
76	3/16/2017	1:43:50	0	0	0	0	0.1	0.1
77	3/16/2017	1:53:50	0	0	0	0	0.1	0.3
78	3/16/2017	2:03:50	0	0	0	0	0.1	0.3
79	3/16/2017	2:13:50	0	0	0	0	0.1	0
80	3/16/2017	2:23:50	0	0	0	0	0.1	0
81	3/16/2017	2:33:50	0	0	0	0	0.1	0
82	3/16/2017	2:43:50	0	0	0	0	0.1	0
83	3/16/2017	2:53:50	0	0	0	0	0.2	0.7
84	3/16/2017	3:03:50	0	0	0	0	0.2	0.9
85	3/16/2017	3:13:50	0	0	0	0	0.2	0.7
86	3/16/2017	3:23:50	0	0	0	0	0.2	0.7
87	3/16/2017	3:33:50	0	0	0	0	0.2	0.9
88	3/16/2017	3:43:50	0	0	0	0	0.2	0.8
89	3/16/2017	3:53:50	0	0	0	0	0.2	0.1
90	3/16/2017	4:03:50	0	0	0	0	0.2	0
91	3/16/2017	4:13:50	0	0	0	0	0.2	0.2
92	3/16/2017	4:23:50	0	0	0	0	0.2	0.5
93	3/16/2017	4:33:50	0	0	0	0	0.2	0.3
94	3/16/2017	4:43:50	0	0	0	0	0.2	0.2
95	3/16/2017	4:53:50	0	0	0	0	0.2	0.4
96	3/16/2017	5:03:50	0	0	0	0	0.2	0.3
97	3/16/2017	5:13:50	0	0	0	0	0.2	0.1
98	3/16/2017	5:23:50	0	0	0	0	0.2	0
99	3/16/2017	5:33:50	0	0	0	0	0.2	0
100	3/16/2017	5:43:50	0	0	0	0	0.2	0
101	3/16/2017	5:53:50	0	0	0	0	0.2	0.1
102	3/16/2017	6:03:50	0	0	0	0	0.2	0.1
103	3/16/2017	6:13:50	0	0	0	0	0.2	0.1
104	3/16/2017	6:23:50	0	0	0	0	0.3	0.1
105	3/16/2017	6:33:50	0	0	0	0	0.3	0.2
106	3/16/2017	6:43:50	0	0	0	0	0.3	0.2
107	3/16/2017	6:53:50	0	0	0	0	0.3	0.1
108	3/16/2017	7:03:50	0	0	0	0	0.3	0
109	3/16/2017	7:13:50	0	0	0	0	0.3	0.1
110	3/16/2017	7:23:50	0	0	0	0	0.3	0.8
111	3/16/2017	7:33:50	0	0	0	0	0.3	0.9
112	3/16/2017	7:43:50	0	0	0	0	0.3	0.4
113	3/16/2017	7:53:50	0	0	0	0	0.3	1.1
114	3/16/2017	8:03:50	0	0	0	0	0.3	1.3
115	3/16/2017	8:13:50	0	0	0	0	0.3	0.4
116	3/16/2017	8:23:50	0	0	0	0	0.3	0
117	3/16/2017	8:33:50	0	0	0	0	0.3	0
118	3/16/2017	8:43:50	0	0	0	0	0.3	0
119	3/16/2017	8:53:50	0	0	0	0	0.3	0
120	3/16/2017	9:03:50	0	0	0	0	0.3	0



TWA	Alarm	N/A	N/A	10	35	10						
Measur	Gas(CF)	Methane(1	N/A	N/A	N/A	Isobutylene(1.00)						
Calibration	Time	3/2/2017	10:33	3/2/2017	10:33	3/2/2017	10:38	3/2/2017	10:33	3/2/2017	10:35	

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Datalog

0 record.

17/03/16 12:03

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Summary

Unit Name MultiRAE(PGM-6228)
Unit SN MBB3Z064Q8
Unit Firmware Ver V1.31

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Pause in Communic Mode

Site ID 194
User ID 0

Begin 3/16/2017 12:03:50
End 3/16/2017 12:08:35
Sample Period(s) 600
Number of Records 0

Table with columns: Sensor, SN, LEL(%LEL), OXY(%), H2S(ppm), CO(ppm), VOC(ppm), Measure Type, Min, Avg, Max, Real, Min, Avg, Max, Real, Min, Avg, Max, Real, Min, Avg, Max, Real. Includes rows for Span, Low, High, Over, STEL, TWA, and Calibration Time.

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Datalog

0 record.

17/03/16 12:09

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Summary

Unit Name MultiRAE(PGM-6228)
Unit SN MBB3Z064Q8
Unit Firmware Ver V1.31

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Schedule Stop

Site ID 194
User ID 0









143	3/17/2017	12:59:58	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.5	0
144	3/17/2017	13:09:58	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.8	0.1
Peak			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	1.2	5	2.3
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0.1

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TWA/STEL

Index	Date/Time	H2S(ppm)		CO(ppm)		VOC(ppm)	
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/16/2017 13:19:58	0	---	0	---	---	
2	3/16/2017 13:29:58	0	0	0	0	0	---
3	3/16/2017 13:39:58	0	0	0	0	0	0.3
4	3/16/2017 13:49:58	0	0	0	0	0	0.3
5	3/16/2017 13:59:58	0	0	0	0	0	0
6	3/16/2017 14:09:58	0	0	0	0	0	0.1
7	3/16/2017 14:19:58	0	0	0	0	0	0.1
8	3/16/2017 14:29:58	0	0	0	0	0	0
9	3/16/2017 14:39:58	0	0	0	0	0	0
10	3/16/2017 14:49:58	0	0	0	0	0	0
11	3/16/2017 14:59:58	0	0	0	0	0	0
12	3/16/2017 15:09:58	0	0	0	0	0	0
13	3/16/2017 15:19:58	0	0	0	0	0	0
14	3/16/2017 15:29:58	0	0	0	0	0	0
15	3/16/2017 15:39:58	0	0	0	0	0	0
16	3/16/2017 15:49:58	0	0	0	0	0	0
17	3/16/2017 15:59:58	0	0	0	0	0	0
18	3/16/2017 16:09:58	0	0	0	0	0	0
19	3/16/2017 16:19:58	0	0	0	0	0	0
20	3/16/2017 16:29:58	0	0	0	0	0	0
21	3/16/2017 16:39:58	0	0	0	0	0	0
22	3/16/2017 16:49:58	0	0	0	0	0	0
23	3/16/2017 16:59:58	0	0	0	0	0	0
24	3/16/2017 17:09:58	0	0	0	0	0	0
25	3/16/2017 17:19:58	0	0	0	0	0	0
26	3/16/2017 17:29:58	0	0	0	0	0	0
27	3/16/2017 17:39:58	0	0	0	0	0	0
28	3/16/2017 17:49:58	0	0	0	0	0	0
29	3/16/2017 17:59:58	0	0	0	0	0	0
30	3/16/2017 18:09:58	0	0	0	0	0	0
31	3/16/2017 18:19:58	0	0	0	0	0	0
32	3/16/2017 18:29:58	0	0	0	0	0	0
33	3/16/2017 18:39:58	0	0	0	0	0	0
34	3/16/2017 18:49:58	0	0	0	0	0	0
35	3/16/2017 18:59:58	0	0	0	0	0	0
36	3/16/2017 19:09:58	0	0	0	0	0	0.1
37	3/16/2017 19:19:58	0	0	0	0	0	0.1
38	3/16/2017 19:29:58	0	0	0	0	0	0
39	3/16/2017 19:39:58	0	0	0	0	0	0
40	3/16/2017 19:49:58	0	0	0	0	0	0
41	3/16/2017 19:59:58	0	0	0	0	0	0
42	3/16/2017 20:09:58	0	0	0	0	0	0
43	3/16/2017 20:19:58	0	0	0	0	0	0
44	3/16/2017 20:29:58	0	0	0	0	0	0
45	3/16/2017 20:39:58	0	0	0	0	0	0
46	3/16/2017 20:49:58	0	0	0	0	0	0

47	3/16/2017	20:59:58	0	0	0	0	0	0.1
48	3/16/2017	21:09:58	0	0	0	0	0	0.1
49	3/16/2017	21:19:58	0	0	0	0	0	0.1
50	3/16/2017	21:29:58	0	0	0	0	0	0.1
51	3/16/2017	21:39:58	0	0	0	0	0	0.1
52	3/16/2017	21:49:58	0	0	0	0	0	0
53	3/16/2017	21:59:58	0	0	0	0	0	0
54	3/16/2017	22:09:58	0	0	0	0	0	0
55	3/16/2017	22:19:58	0	0	0	0	0	0
56	3/16/2017	22:29:58	0	0	0	0	0	0
57	3/16/2017	22:39:58	0	0	0	0	0	0
58	3/16/2017	22:49:58	0	0	0	0	0	0.1
59	3/16/2017	22:59:58	0	0	0	0	0	0.1
60	3/16/2017	23:09:58	0	0	0	0	0	0
61	3/16/2017	23:19:58	0	0	0	0	0	0.1
62	3/16/2017	23:29:58	0	0	0	0	0	0.3
63	3/16/2017	23:39:58	0	0	0	0	0	0.2
64	3/16/2017	23:49:58	0	0	0	0	0	0.1
65	3/16/2017	23:59:58	0	0	0	0	0.1	0.7
66	3/16/2017	0:09:58	0	0	0	0	0.1	0.6
67	3/16/2017	0:19:58	0	0	0	0	0.1	0
68	3/16/2017	0:29:58	0	0	0	0	0.1	0.4
69	3/16/2017	0:39:58	0	0	0	0	0.1	0.5
70	3/16/2017	0:49:58	0	0	0	0	0.1	0.3
71	3/16/2017	0:59:58	0	0	0	0	0.1	0.1
72	3/17/2017	1:09:58	0	0	0	0	0.1	0
73	3/17/2017	1:19:58	0	0	0	0	0.1	0.1
74	3/17/2017	1:29:58	0	0	0	0	0.1	0.2
75	3/17/2017	1:39:58	0	0	0	0	0.1	0.1
76	3/17/2017	1:49:58	0	0	0	0	0.1	0.1
77	3/17/2017	1:59:58	0	0	0	0	0.1	0
78	3/17/2017	2:09:58	0	0	0	0	0.1	0.2
79	3/17/2017	2:19:58	0	0	0	0	0.1	0.5
80	3/17/2017	2:29:58	0	0	0	0	0.1	0.4
81	3/17/2017	2:39:58	0	0	0	0	0.1	0.1
82	3/17/2017	2:49:58	0	0	0	0	0.1	0
83	3/17/2017	2:59:58	0	0	0	0	0.1	0
84	3/17/2017	3:09:58	0	0	0	0	0.1	0.1
85	3/17/2017	3:19:58	0	0	0	0	0.1	0.1
86	3/17/2017	3:29:58	0	0	0	0	0.1	0
87	3/17/2017	3:39:58	0	0	0	0	0.1	0
88	3/17/2017	3:49:58	0	0	0	0	0.1	0
89	3/17/2017	3:59:58	0	0	0	0	0.1	0
90	3/17/2017	4:09:58	0	0	0	0	0.1	0.3
91	3/17/2017	4:19:58	0	0	0	0	0.1	0.5
92	3/17/2017	4:29:58	0	0	0	0	0.1	0.1
93	3/17/2017	4:39:58	0	0	0	0	0.1	0
94	3/17/2017	4:49:58	0	0	0	0	0.1	0
95	3/17/2017	4:59:58	0	0	0	0	0.1	0
96	3/17/2017	5:09:58	0	0	0	0	0.1	0.1
97	3/17/2017	5:19:58	0	0	0	0	0.1	0.3
98	3/17/2017	5:29:58	0	0	0	0	0.1	0.3
99	3/17/2017	5:39:58	0	0	0	0	0.1	0.1
100	3/17/2017	5:49:58	0	0	0	0	0.1	0.1
101	3/17/2017	5:59:58	0	0	0	0	0.1	0
102	3/17/2017	6:09:58	0	0	0	0	0.1	0

103	3/17/2017	6:19:58	0	0	0	0	0.1	0
104	3/17/2017	6:29:58	0	0	0	0	0.1	0
105	3/17/2017	6:39:58	0	0	0	0	0.2	0.8
106	3/17/2017	6:49:58	0	0	0	0	0.2	0.9
107	3/17/2017	6:59:58	0	0	0	0	0.2	0.1
108	3/17/2017	7:09:58	0	0	0	0	0.2	0
109	3/17/2017	7:19:58	0	0	0	0	0.2	0
110	3/17/2017	7:29:58	0	0	0	0	0.2	0
111	3/17/2017	7:39:58	0	0	0	0	0.2	1.5
112	3/17/2017	7:49:58	0	0	0	0	0.2	1.5
113	3/17/2017	7:59:58	0	0	0	0	0.2	0
114	3/17/2017	8:09:58	0	0	0	0	0.2	0.1
115	3/17/2017	8:19:58	0	0	0	0	0.2	0.2
116	3/17/2017	8:29:58	0	0	0	0	0.2	0.1
117	3/17/2017	8:39:58	0	0	0	0	0.2	0
118	3/17/2017	8:49:58	0	0	0	0	0.2	0
119	3/17/2017	8:59:58	0	0	0	0	0.2	0
120	3/17/2017	9:09:58	0	0	0	0	0.2	0
121	3/17/2017	9:19:58	0	0	0	0	0.2	0
122	3/17/2017	9:29:58	0	0	0	0	0.2	0.1
123	3/17/2017	9:39:58	0	0	0	0	0.2	0.1
124	3/17/2017	9:49:58	0	0	0	0	0.2	0
125	3/17/2017	9:59:58	0	0	0	0	0.2	0
126	3/17/2017	10:09:58	0	0	0	0	0.2	0
127	3/17/2017	10:19:58	0	0	0	0	0.2	0.1
128	3/17/2017	10:29:58	0	0	0	0	0.2	0.1
129	3/17/2017	10:39:58	0	0	0	0	0.2	0
130	3/17/2017	10:49:58	0	0	0	0	0.2	0
131	3/17/2017	10:59:58	0	0	0	0	0.2	0
132	3/17/2017	11:09:58	0	0	0	0	0.2	0
133	3/17/2017	11:19:58	0	0	0	0	0.2	0
134	3/17/2017	11:29:58	0	0	0	0	0.2	0
135	3/17/2017	11:39:58	0	0	0	0	0.2	0
136	3/17/2017	11:49:58	0	0	0	0	0.2	0
137	3/17/2017	11:59:58	0	0	0	0	0.2	0
138	3/17/2017	12:09:58	0	0	0	0	0.2	0
139	3/17/2017	12:19:58	0	0	0	0	0.2	0
140	3/17/2017	12:29:58	0	0	0	0	0.2	0
141	3/17/2017	12:39:58	0	0	0	0	0.2	0
142	3/17/2017	12:49:58	0	0	0	0	0.2	0
143	3/17/2017	12:59:58	0	0	0	0	0.2	0
144	3/17/2017	13:09:58	0	0	0	0	0.2	0.1

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17/03/17 12:09  
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Summary

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Unit Name MultiRAE(PGM-6228)  
Unit SN MBB3Z064Q8  
Unit Firmware Ver V1.31  
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Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No  
Stop Reason Schedule Stop  
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141	3/18/2017	12:39:58	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.6	0.2
142	3/18/2017	12:49:58	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.8	0
143	3/18/2017	12:59:58	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.5	0.2
144	3/18/2017	13:09:58	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.5	0
Peak			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.7	4.3	0.7
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.5	0

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TWA/STEL

Index	Date/Time	H2S(ppm)		CO(ppm)		VOC(ppm)	
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/17/2017 13:19:58	0	---	0	---	0	---
2	3/17/2017 13:29:58	0	0	0	0	0	0
3	3/17/2017 13:39:58	0	0	0	0	0	0
4	3/17/2017 13:49:58	0	0	0	0	0	0
5	3/17/2017 13:59:58	0	0	0	0	0	0
6	3/17/2017 14:09:58	0	0	0	0	0	0
7	3/17/2017 14:19:58	0	0	0	0	0	0.1
8	3/17/2017 14:29:58	0	0	0	0	0	0.1
9	3/17/2017 14:39:58	0	0	0	0	0	0
10	3/17/2017 14:49:58	0	0	0	0	0	0
11	3/17/2017 14:59:58	0	0	0	0	0	0
12	3/17/2017 15:09:58	0	0	0	0	0	0
13	3/17/2017 15:19:58	0	0	0	0	0	0.1
14	3/17/2017 15:29:58	0	0	0	0	0	0.1
15	3/17/2017 15:39:58	0	0	0	0	0	0
16	3/17/2017 15:49:58	0	0	0	0	0	0.1
17	3/17/2017 15:59:58	0	0	0	0	0	0.1
18	3/17/2017 16:09:58	0	0	0	0	0	0
19	3/17/2017 16:19:58	0	0	0	0	0	0
20	3/17/2017 16:29:58	0	0	0	0	0	0
21	3/17/2017 16:39:58	0	0	0	0	0	0
22	3/17/2017 16:49:58	0	0	0	0	0	0
23	3/17/2017 16:59:58	0	0	0	0	0	0.1
24	3/17/2017 17:09:58	0	0	0	0	0	0.1
25	3/17/2017 17:19:58	0	0	0	0	0	0.1
26	3/17/2017 17:29:58	0	0	0	0	0	0
27	3/17/2017 17:39:58	0	0	0	0	0	0
28	3/17/2017 17:49:58	0	0	0	0	0	0.1
29	3/17/2017 17:59:58	0	0	0	0	0	0.1
30	3/17/2017 18:09:58	0	0	0	0	0	0
31	3/17/2017 18:19:58	0	0	0	0	0	0
32	3/17/2017 18:29:58	0	0	0	0	0	0
33	3/17/2017 18:39:58	0	0	0	0	0	0
34	3/17/2017 18:49:58	0	0	0	0	0	0.1
35	3/17/2017 18:59:58	0	0	0	0	0	0.1
36	3/17/2017 19:09:58	0	0	0	0	0	0.2
37	3/17/2017 19:19:58	0	0	0	0	0	0.1
38	3/17/2017 19:29:58	0	0	0	0	0	0.1
39	3/17/2017 19:39:58	0	0	0	0	0	0.1
40	3/17/2017 19:49:58	0	0	0	0	0	0
41	3/17/2017 19:59:58	0	0	0	0	0	0
42	3/17/2017 20:09:58	0	0	0	0	0	0
43	3/17/2017 20:19:58	0	0	0	0	0	0
44	3/17/2017 20:29:58	0	0	0	0	0	0.1

45	3/17/2017	20:39:58	0	0	0	0	0	0.2
46	3/17/2017	20:49:58	0	0	0	0	0	0.1
47	3/17/2017	20:59:58	0	0	0	0	0	0.1
48	3/17/2017	21:09:58	0	0	0	0	0	0.1
49	3/17/2017	21:19:58	0	0	0	0	0	0.1
50	3/17/2017	21:29:58	0	0	0	0	0	0.2
51	3/17/2017	21:39:58	0	0	0	0	0	0.1
52	3/17/2017	21:49:58	0	0	0	0	0	0
53	3/17/2017	21:59:58	0	0	0	0	0	0.1
54	3/17/2017	22:09:58	0	0	0	0	0	0.1
55	3/17/2017	22:19:58	0	0	0	0	0	0
56	3/17/2017	22:29:58	0	0	0	0	0	0.3
57	3/17/2017	22:39:58	0	0	0	0	0	0.3
58	3/17/2017	22:49:58	0	0	0	0	0	0
59	3/17/2017	22:59:58	0	0	0	0	0	0
60	3/17/2017	23:09:58	0	0	0	0	0.1	0.3
61	3/17/2017	23:19:58	0	0	0	0	0.1	0.3
62	3/17/2017	23:29:58	0	0	0	0	0.1	0
63	3/17/2017	23:39:58	0	0	0	0	0.1	0
64	3/17/2017	23:49:58	0	0	0	0	0.1	0
65	3/17/2017	23:59:58	0	0	0	0	0.1	0.1
66	3/17/2017	0:09:58	0	0	0	0	0.1	0.1
67	3/17/2017	0:19:58	0	0	0	0	0.1	0
68	3/17/2017	0:29:58	0	0	0	0	0.1	0
69	3/17/2017	0:39:58	0	0	0	0	0.1	0
70	3/17/2017	0:49:58	0	0	0	0	0.1	0
71	3/17/2017	0:59:58	0	0	0	0	0.1	0
72	3/18/2017	1:09:58	0	0	0	0	0.1	0
73	3/18/2017	1:19:58	0	0	0	0	0.1	0
74	3/18/2017	1:29:58	0	0	0	0	0.1	0
75	3/18/2017	1:39:58	0	0	0	0	0.1	0
76	3/18/2017	1:49:58	0	0	0	0	0.1	0
77	3/18/2017	1:59:58	0	0	0	0	0.1	0
78	3/18/2017	2:09:58	0	0	0	0	0.1	0
79	3/18/2017	2:19:58	0	0	0	0	0.1	0
80	3/18/2017	2:29:58	0	0	0	0	0.1	0.1
81	3/18/2017	2:39:58	0	0	0	0	0.1	0.1
82	3/18/2017	2:49:58	0	0	0	0	0.1	0
83	3/18/2017	2:59:58	0	0	0	0	0.1	0.1
84	3/18/2017	3:09:58	0	0	0	0	0.1	0.1
85	3/18/2017	3:19:58	0	0	0	0	0.1	0.1
86	3/18/2017	3:29:58	0	0	0	0	0.1	0.1
87	3/18/2017	3:39:58	0	0	0	0	0.1	0
88	3/18/2017	3:49:58	0	0	0	0	0.1	0.1
89	3/18/2017	3:59:58	0	0	0	0	0.1	0.1
90	3/18/2017	4:09:58	0	0	0	0	0.1	0
91	3/18/2017	4:19:58	0	0	0	0	0.1	0
92	3/18/2017	4:29:58	0	0	0	0	0.1	0
93	3/18/2017	4:39:58	0	0	0	0	0.1	0
94	3/18/2017	4:49:58	0	0	0	0	0.1	0
95	3/18/2017	4:59:58	0	0	0	0	0.1	0
96	3/18/2017	5:09:58	0	0	0	0	0.1	0
97	3/18/2017	5:19:58	0	0	0	0	0.1	0
98	3/18/2017	5:29:58	0	0	0	0	0.1	0
99	3/18/2017	5:39:58	0	0	0	0	0.1	0
100	3/18/2017	5:49:58	0	0	0	0	0.1	0

101	3/18/2017	5:59:58	0	0	0	0	0.1	0
102	3/18/2017	6:09:58	0	0	0	0	0.1	0
103	3/18/2017	6:19:58	0	0	0	0	0.1	0
104	3/18/2017	6:29:58	0	0	0	0	0.1	0
105	3/18/2017	6:39:58	0	0	0	0	0.1	0
106	3/18/2017	6:49:58	0	0	0	0	0.1	0
107	3/18/2017	6:59:58	0	0	0	0	0.1	0
108	3/18/2017	7:09:58	0	0	0	0	0.1	0
109	3/18/2017	7:19:58	0	0	0	0	0.1	0.1
110	3/18/2017	7:29:58	0	0	0	0	0.1	0.1
111	3/18/2017	7:39:58	0	0	0	0	0.1	0
112	3/18/2017	7:49:58	0	0	0	0	0.1	0
113	3/18/2017	7:59:58	0	0	0	0	0.1	0
114	3/18/2017	8:09:58	0	0	0	0	0.1	0.1
115	3/18/2017	8:19:58	0	0	0	0	0.1	0.1
116	3/18/2017	8:29:58	0	0	0	0	0.1	0.1
117	3/18/2017	8:39:58	0	0	0	0	0.1	0.5
118	3/18/2017	8:49:58	0	0	0	0	0.1	0.5
119	3/18/2017	8:59:58	0	0	0	0	0.1	0.1
120	3/18/2017	9:09:58	0	0	0	0	0.1	0.1
121	3/18/2017	9:19:58	0	0	0	0	0.1	0.1
122	3/18/2017	9:29:58	0	0	0	0	0.1	0
123	3/18/2017	9:39:58	0	0	0	0	0.1	0
124	3/18/2017	9:49:58	0	0	0	0	0.1	0.1
125	3/18/2017	9:59:58	0	0	0	0	0.1	0.1
126	3/18/2017	10:09:58	0	0	0	0	0.1	0
127	3/18/2017	10:19:58	0	0	0	0	0.1	0.1
128	3/18/2017	10:29:58	0	0	0	0	0.1	0.1
129	3/18/2017	10:39:58	0	0	0	0	0.1	0.2
130	3/18/2017	10:49:58	0	0	0	0	0.1	0.3
131	3/18/2017	10:59:58	0	0	0	0	0.1	0.1
132	3/18/2017	11:09:58	0	0	0	0	0.1	0
133	3/18/2017	11:19:58	0	0	0	0	0.1	0
134	3/18/2017	11:29:58	0	0	0	0	0.1	0.3
135	3/18/2017	11:39:58	0	0	0	0	0.1	0.3
136	3/18/2017	11:49:58	0	0	0	0	0.1	0.1
137	3/18/2017	11:59:58	0	0	0	0	0.1	0.1
138	3/18/2017	12:09:58	0	0	0	0	0.1	0.1
139	3/18/2017	12:19:58	0	0	0	0	0.1	0.1
140	3/18/2017	12:29:58	0	0	0	0	0.1	0.1
141	3/18/2017	12:39:58	0	0	0	0	0.1	0.1
142	3/18/2017	12:49:58	0	0	0	0	0.1	0.1
143	3/18/2017	12:59:58	0	0	0	0	0.1	0.1
144	3/18/2017	13:09:58	0	0	0	0	0.1	0.1

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17/03/18 12:09  
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Summary

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Unit Name MultiRAE(PGM-6228)  
Unit SN MBB3Z064Q8  
Unit Firmware Ver V1.31  
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Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No

Stop Reason Schedule Stop

Site ID 194
User ID 0

Begin 3/18/2017 12:09:58
End 3/19/2017 12:09:58
Sample Period(s) 600
Number of Records 144

Sensor LEL(%LEL) OXY(%) H2S(ppm) CO(ppm) VOC(ppm)
Sensor SN SC0311128 SC0342108 SC03AR00E SC0306033 SC03A40150Q7

Table with columns: Measure, Type, Min, Avg, Max, Real, Min, Avg, Max, Real, Min, Avg, Max, Real, Min, Avg, Max, Real, Min, Avg, Max, Real. Rows include Span, Low Alarm, High Alarm, Over Alarm, STEL Alarm, TWA Alarm, Calibration Time, Peak, Min, Average.

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Datalog

Datalog table with columns: Index, Date/Time, LEL(%LEL) (Min, Avg, Max, Real), OXY(%) (Min, Avg, Max, Real), H2S(ppm) (Min, Avg, Max, Real), CO(ppm) (Min, Avg, Max, Real), VOC(ppm) (Min, Avg, Max, Real). Contains 26 rows of data.





139	3/19/2017	12:19:58	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
140	3/19/2017	12:29:58	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0	
141	3/19/2017	12:39:58	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0	
142	3/19/2017	12:49:58	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.5	0	
143	3/19/2017	12:59:58	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
144	3/19/2017	13:09:58	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0	
Peak			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0.7	0.5
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm)		CO(ppm)		VOC(ppm)	
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/18/2017 13:19:58	0	---	0	---	0	---
2	3/18/2017 13:29:58	0	0	0	0	0	0.1
3	3/18/2017 13:39:58	0	0	0	0	0	0.1
4	3/18/2017 13:49:58	0	0	0	0	0	0.1
5	3/18/2017 13:59:58	0	0	0	0	0	0
6	3/18/2017 14:09:58	0	0	0	0	0	0
7	3/18/2017 14:19:58	0	0	0	0	0	0.1
8	3/18/2017 14:29:58	0	0	0	0	0	0.1
9	3/18/2017 14:39:58	0	0	0	0	0	0.1
10	3/18/2017 14:49:58	0	0	0	0	0	0.1
11	3/18/2017 14:59:58	0	0	0	0	0	0
12	3/18/2017 15:09:58	0	0	0	0	0	0.1
13	3/18/2017 15:19:58	0	0	0	0	0	0.2
14	3/18/2017 15:29:58	0	0	0	0	0	0.1
15	3/18/2017 15:39:58	0	0	0	0	0	0.1
16	3/18/2017 15:49:58	0	0	0	0	0	0.1
17	3/18/2017 15:59:58	0	0	0	0	0	0.1
18	3/18/2017 16:09:58	0	0	0	0	0	0.1
19	3/18/2017 16:19:58	0	0	0	0	0	0.2
20	3/18/2017 16:29:58	0	0	0	0	0	0.1
21	3/18/2017 16:39:58	0	0	0	0	0	0
22	3/18/2017 16:49:58	0	0	0	0	0	0
23	3/18/2017 16:59:58	0	0	0	0	0	0
24	3/18/2017 17:09:58	0	0	0	0	0	0.1
25	3/18/2017 17:19:58	0	0	0	0	0	0.1
26	3/18/2017 17:29:58	0	0	0	0	0	0.1
27	3/18/2017 17:39:58	0	0	0	0	0	0.1
28	3/18/2017 17:49:58	0	0	0	0	0	0.1
29	3/18/2017 17:59:58	0	0	0	0	0	0.1
30	3/18/2017 18:09:58	0	0	0	0	0	0.1
31	3/18/2017 18:19:58	0	0	0	0	0	0.1
32	3/18/2017 18:29:58	0	0	0	0	0	0.1
33	3/18/2017 18:39:58	0	0	0	0	0	0
34	3/18/2017 18:49:58	0	0	0	0	0	0
35	3/18/2017 18:59:58	0	0	0	0	0	0
36	3/18/2017 19:09:58	0	0	0	0	0	0
37	3/18/2017 19:19:58	0	0	0	0	0	0.1
38	3/18/2017 19:29:58	0	0	0	0	0	0.1
39	3/18/2017 19:39:58	0	0	0	0	0	0.1
40	3/18/2017 19:49:58	0	0	0	0	0.1	0.3
41	3/18/2017 19:59:58	0	0	0	0	0.1	0.4
42	3/18/2017 20:09:58	0	0	0	0	0.1	0.2



43	3/18/2017	20:19:58	0	0	0	0	0.1	0.1
44	3/18/2017	20:29:58	0	0	0	0	0.1	0.1
45	3/18/2017	20:39:58	0	0	0	0	0.1	0.2
46	3/18/2017	20:49:58	0	0	0	0	0.1	0.3
47	3/18/2017	20:59:58	0	0	0	0	0.1	0.2
48	3/18/2017	21:09:58	0	0	0	0	0.1	0.1
49	3/18/2017	21:19:58	0	0	0	0	0.1	0.1
50	3/18/2017	21:29:58	0	0	0	0	0.1	0.1
51	3/18/2017	21:39:58	0	0	0	0	0.1	0.1
52	3/18/2017	21:49:58	0	0	0	0	0.1	0.1
53	3/18/2017	21:59:58	0	0	0	0	0.1	0.1
54	3/18/2017	22:09:58	0	0	0	0	0.1	0.1
55	3/18/2017	22:19:58	0	0	0	0	0.1	0.1
56	3/18/2017	22:29:58	0	0	0	0	0.1	0.1
57	3/18/2017	22:39:58	0	0	0	0	0.1	0.3
58	3/18/2017	22:49:58	0	0	0	0	0.1	0.7
59	3/18/2017	22:59:58	0	0	0	0	0.1	0.5
60	3/18/2017	23:09:58	0	0	0	0	0.1	0.5
61	3/18/2017	23:19:58	0	0	0	0	0.1	0.3
62	3/18/2017	23:29:58	0	0	0	0	0.1	0.1
63	3/18/2017	23:39:58	0	0	0	0	0.1	0.1
64	3/18/2017	23:49:58	0	0	0	0	0.1	0
65	3/18/2017	23:59:58	0	0	0	0	0.1	0
66	3/18/2017	0:09:58	0	0	0	0	0.1	0
67	3/18/2017	0:19:58	0	0	0	0	0.1	0
68	3/18/2017	0:29:58	0	0	0	0	0.1	0
69	3/18/2017	0:39:58	0	0	0	0	0.1	0
70	3/18/2017	0:49:58	0	0	0	0	0.1	0
71	3/18/2017	0:59:58	0	0	0	0	0.1	0
72	3/19/2017	1:09:58	0	0	0	0	0.1	0
73	3/19/2017	1:19:58	0	0	0	0	0.1	0
74	3/19/2017	1:29:58	0	0	0	0	0.1	0
75	3/19/2017	1:39:58	0	0	0	0	0.1	0
76	3/19/2017	1:49:58	0	0	0	0	0.1	0.1
77	3/19/2017	1:59:58	0	0	0	0	0.1	0.1
78	3/19/2017	2:09:58	0	0	0	0	0.1	0
79	3/19/2017	2:19:58	0	0	0	0	0.1	0
80	3/19/2017	2:29:58	0	0	0	0	0.1	0
81	3/19/2017	2:39:58	0	0	0	0	0.1	0
82	3/19/2017	2:49:58	0	0	0	0	0.1	0
83	3/19/2017	2:59:58	0	0	0	0	0.1	0
84	3/19/2017	3:09:58	0	0	0	0	0.1	0
85	3/19/2017	3:19:58	0	0	0	0	0.1	0
86	3/19/2017	3:29:58	0	0	0	0	0.1	0
87	3/19/2017	3:39:58	0	0	0	0	0.1	0
88	3/19/2017	3:49:58	0	0	0	0	0.1	0.1
89	3/19/2017	3:59:58	0	0	0	0	0.1	0.3
90	3/19/2017	4:09:58	0	0	0	0	0.1	0.2
91	3/19/2017	4:19:58	0	0	0	0	0.1	0.1
92	3/19/2017	4:29:58	0	0	0	0	0.1	0.1
93	3/19/2017	4:39:58	0	0	0	0	0.1	0
94	3/19/2017	4:49:58	0	0	0	0	0.1	0
95	3/19/2017	4:59:58	0	0	0	0	0.1	0.1
96	3/19/2017	5:09:58	0	0	0	0	0.1	0.1
97	3/19/2017	5:19:58	0	0	0	0	0.1	0.1
98	3/19/2017	5:29:58	0	0	0	0	0.1	0

99	3/19/2017	5:39:58	0	0	0	0	0.1	0
100	3/19/2017	5:49:58	0	0	0	0	0.1	0.1
101	3/19/2017	5:59:58	0	0	0	0	0.1	0.1
102	3/19/2017	6:09:58	0	0	0	0	0.1	0
103	3/19/2017	6:19:58	0	0	0	0	0.1	0
104	3/19/2017	6:29:58	0	0	0	0	0.1	0
105	3/19/2017	6:39:58	0	0	0	0	0.1	0
106	3/19/2017	6:49:58	0	0	0	0	0.1	0
107	3/19/2017	6:59:58	0	0	0	0	0.1	0
108	3/19/2017	7:09:58	0	0	0	0	0.1	0
109	3/19/2017	7:19:58	0	0	0	0	0.1	0
110	3/19/2017	7:29:58	0	0	0	0	0.1	0
111	3/19/2017	7:39:58	0	0	0	0	0.1	0
112	3/19/2017	7:49:58	0	0	0	0	0.1	0
113	3/19/2017	7:59:58	0	0	0	0	0.1	0
114	3/19/2017	8:09:58	0	0	0	0	0.1	0
115	3/19/2017	8:19:58	0	0	0	0	0.1	0
116	3/19/2017	8:29:58	0	0	0	0	0.1	0
117	3/19/2017	8:39:58	0	0	0	0	0.1	0
118	3/19/2017	8:49:58	0	0	0	0	0.1	0
119	3/19/2017	8:59:58	0	0	0	0	0.1	0
120	3/19/2017	9:09:58	0	0	0	0	0.1	0
121	3/19/2017	9:19:58	0	0	0	0	0.1	0
122	3/19/2017	9:29:58	0	0	0	0	0.1	0
123	3/19/2017	9:39:58	0	0	0	0	0.1	0
124	3/19/2017	9:49:58	0	0	0	0	0.1	0
125	3/19/2017	9:59:58	0	0	0	0	0.1	0
126	3/19/2017	10:09:58	0	0	0	0	0.1	0
127	3/19/2017	10:19:58	0	0	0	0	0.1	0
128	3/19/2017	10:29:58	0	0	0	0	0.1	0
129	3/19/2017	10:39:58	0	0	0	0	0.1	0
130	3/19/2017	10:49:58	0	0	0	0	0.1	0
131	3/19/2017	10:59:58	0	0	0	0	0.1	0
132	3/19/2017	11:09:58	0	0	0	0	0.1	0
133	3/19/2017	11:19:58	0	0	0	0	0.1	0
134	3/19/2017	11:29:58	0	0	0	0	0.1	0
135	3/19/2017	11:39:58	0	0	0	0	0.1	0
136	3/19/2017	11:49:58	0	0	0	0	0.1	0
137	3/19/2017	11:59:58	0	0	0	0	0.1	0
138	3/19/2017	12:09:58	0	0	0	0	0.1	0
139	3/19/2017	12:19:58	0	0	0	0	0.1	0
140	3/19/2017	12:29:58	0	0	0	0	0.1	0
141	3/19/2017	12:39:58	0	0	0	0	0.1	0
142	3/19/2017	12:49:58	0	0	0	0	0.1	0
143	3/19/2017	12:59:58	0	0	0	0	0.1	0
144	3/19/2017	13:09:58	0	0	0	0	0.1	0

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17/03/19 12:09  
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Summary

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Unit Name MultiRAE(PGM-6228)  
Unit SN MBB3Z064Q8  
Unit Firmware Ver V1.31  
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Running Mode Hygiene Mode







137	3/20/2017	11:59:58	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	3.3	1
138	3/20/2017	12:09:58	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	1.1	0
139	3/20/2017	12:19:58	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	1.5	0.8
140	3/20/2017	12:29:58	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	1.2	0.5
141	3/20/2017	12:39:58	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	1.9	0.3
Peak			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.3	1.1	3.3	1.7
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.4	0.1

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TWA/STEL

Index	Date/Time	H2S(ppm)		CO(ppm)		VOC(ppm)	
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/19/2017 13:19:58	0	---	0	---	0	---
2	3/19/2017 13:29:58	0	0	0	0	0	0
3	3/19/2017 13:39:58	0	0	0	0	0	0
4	3/19/2017 13:49:58	0	0	0	0	0	0
5	3/19/2017 13:59:58	0	0	0	0	0	0
6	3/19/2017 14:09:58	0	0	0	0	0	0
7	3/19/2017 14:19:58	0	0	0	0	0	0
8	3/19/2017 14:29:58	0	0	0	0	0	0
9	3/19/2017 14:39:58	0	0	0	0	0	0
10	3/19/2017 14:49:58	0	0	0	0	0	0
11	3/19/2017 14:59:58	0	0	0	0	0	0
12	3/19/2017 15:09:58	0	0	0	0	0	0
13	3/19/2017 15:19:58	0	0	0	0	0	0
14	3/19/2017 15:29:58	0	0	0	0	0	0
15	3/19/2017 15:39:58	0	0	0	0	0	0
16	3/19/2017 15:49:58	0	0	0	0	0	0
17	3/19/2017 15:59:58	0	0	0	0	0	0
18	3/19/2017 16:09:58	0	0	0	0	0	0
19	3/19/2017 16:19:58	0	0	0	0	0	0
20	3/19/2017 16:29:58	0	0	0	0	0	0
21	3/19/2017 16:39:58	0	0	0	0	0	0
22	3/19/2017 16:49:58	0	0	0	0	0	0
23	3/19/2017 16:59:58	0	0	0	0	0	0.1
24	3/19/2017 17:09:58	0	0	0	0	0	0.1
25	3/19/2017 17:19:58	0	0	0	0	0	0
26	3/19/2017 17:29:58	0	0	0	0	0	0
27	3/19/2017 17:39:58	0	0	0	0	0	0
28	3/19/2017 17:49:58	0	0	0	0	0	0
29	3/19/2017 17:59:58	0	0	0	0	0	0
30	3/19/2017 18:09:58	0	0	0	0	0	0
31	3/19/2017 18:19:58	0	0	0	0	0	0
32	3/19/2017 18:29:58	0	0	0	0	0	0
33	3/19/2017 18:39:58	0	0	0	0	0	0
34	3/19/2017 18:49:58	0	0	0	0	0	0
35	3/19/2017 18:59:58	0	0	0	0	0	0
36	3/19/2017 19:09:58	0	0	0	0	0	0
37	3/19/2017 19:19:58	0	0	0	0	0	0.1
38	3/19/2017 19:29:58	0	0	0	0	0	0.1
39	3/19/2017 19:39:58	0	0	0	0	0	0
40	3/19/2017 19:49:58	0	0	0	0	0	0
41	3/19/2017 19:59:58	0	0	0	0	0	0.1
42	3/19/2017 20:09:58	0	0	0	0	0	0.1
43	3/19/2017 20:19:58	0	0	0	0	0	0

44	3/19/2017	20:29:58	0	0	0	0	0	0
45	3/19/2017	20:39:58	0	0	0	0	0	0
46	3/19/2017	20:49:58	0	0	0	0	0	0
47	3/19/2017	20:59:58	0	0	0	0	0	0.1
48	3/19/2017	21:09:58	0	0	0	0	0	0.1
49	3/19/2017	21:19:58	0	0	0	0	0	0
50	3/19/2017	21:29:58	0	0	0	0	0	0
51	3/19/2017	21:39:58	0	0	0	0	0	0.1
52	3/19/2017	21:49:58	0	0	0	0	0	0.2
53	3/19/2017	21:59:58	0	0	0	0	0	0.1
54	3/19/2017	22:09:58	0	0	0	0	0	0.1
55	3/19/2017	22:19:58	0	0	0	0	0	0
56	3/19/2017	22:29:58	0	0	0	0	0	0
57	3/19/2017	22:39:58	0	0	0	0	0	0
58	3/19/2017	22:49:58	0	0	0	0	0	0
59	3/19/2017	22:59:58	0	0	0	0	0	0
60	3/19/2017	23:09:58	0	0	0	0	0	0
61	3/19/2017	23:19:58	0	0	0	0	0	0.2
62	3/19/2017	23:29:58	0	0	0	0	0	0.2
63	3/19/2017	23:39:58	0	0	0	0	0	0
64	3/19/2017	23:49:58	0	0	0	0	0	0
65	3/19/2017	23:59:58	0	0	0	0	0	0
66	3/19/2017	0:09:58	0	0	0	0	0	0
67	3/19/2017	0:19:58	0	0	0	0	0	0
68	3/19/2017	0:29:58	0	0	0	0	0	0
69	3/19/2017	0:39:58	0	0	0	0	0	0
70	3/19/2017	0:49:58	0	0	0	0	0	0
71	3/19/2017	0:59:58	0	0	0	0	0	0
72	3/20/2017	1:09:58	0	0	0	0	0	0
73	3/20/2017	1:19:58	0	0	0	0	0	0
74	3/20/2017	1:29:58	0	0	0	0	0	0
75	3/20/2017	1:39:58	0	0	0	0	0	0
76	3/20/2017	1:49:58	0	0	0	0	0	0
77	3/20/2017	1:59:58	0	0	0	0	0	0
78	3/20/2017	2:09:58	0	0	0	0	0	0
79	3/20/2017	2:19:58	0	0	0	0	0	0
80	3/20/2017	2:29:58	0	0	0	0	0	0
81	3/20/2017	2:39:58	0	0	0	0	0	0
82	3/20/2017	2:49:58	0	0	0	0	0	0
83	3/20/2017	2:59:58	0	0	0	0	0	0
84	3/20/2017	3:09:58	0	0	0	0	0	0
85	3/20/2017	3:19:58	0	0	0	0	0	0
86	3/20/2017	3:29:58	0	0	0	0	0	0
87	3/20/2017	3:39:58	0	0	0	0	0	0
88	3/20/2017	3:49:58	0	0	0	0	0	0.2
89	3/20/2017	3:59:58	0	0	0	0	0	0.2
90	3/20/2017	4:09:58	0	0	0	0	0	0
91	3/20/2017	4:19:58	0	0	0	0	0	0
92	3/20/2017	4:29:58	0	0	0	0	0	0.3
93	3/20/2017	4:39:58	0	0	0	0	0.1	0.9
94	3/20/2017	4:49:58	0	0	0	0	0.1	1.1
95	3/20/2017	4:59:58	0	0	0	0	0.1	0.7
96	3/20/2017	5:09:58	0	0	0	0	0.1	0.6
97	3/20/2017	5:19:58	0	0	0	0	0.1	0.7
98	3/20/2017	5:29:58	0	0	0	0	0.1	0.3
99	3/20/2017	5:39:58	0	0	0	0	0.1	1.2

100	3/20/2017	5:49:58	0	0	0	0	0.1	1.3
101	3/20/2017	5:59:58	0	0	0	0	0.2	0.5
102	3/20/2017	6:09:58	0	0	0	0	0.2	0.5
103	3/20/2017	6:19:58	0	0	0	0	0.2	0.1
104	3/20/2017	6:29:58	0	0	0	0	0.2	0.1
105	3/20/2017	6:39:58	0	0	0	0	0.2	0.1
106	3/20/2017	6:49:58	0	0	0	0	0.2	0.1
107	3/20/2017	6:59:58	0	0	0	0	0.2	0.1
108	3/20/2017	7:09:58	0	0	0	0	0.2	0.4
109	3/20/2017	7:19:58	0	0	0	0	0.2	0.3
110	3/20/2017	7:29:58	0	0	0	0	0.2	0.4
111	3/20/2017	7:39:58	0	0	0	0	0.2	0.7
112	3/20/2017	7:49:58	0	0	0	0	0.2	0.3
113	3/20/2017	7:59:58	0	0	0	0	0.2	0.2
114	3/20/2017	8:09:58	0	0	0	0	0.2	0.5
115	3/20/2017	8:19:58	0	0	0	0	0.2	0.9
116	3/20/2017	8:29:58	0	0	0	0	0.2	0.8
117	3/20/2017	8:39:58	0	0	0	0	0.2	0.5
118	3/20/2017	8:49:58	0	0	0	0	0.2	0.3
119	3/20/2017	8:59:58	0	0	0	0	0.3	0.3
120	3/20/2017	9:09:58	0	0	0	0	0.3	0.4
121	3/20/2017	9:19:58	0	0	0	0	0.3	0.2
122	3/20/2017	9:29:58	0	0	0	0	0.3	0
123	3/20/2017	9:39:58	0	0	0	0	0.3	0.2
124	3/20/2017	9:49:58	0	0	0	0	0.3	0.2
125	3/20/2017	9:59:58	0	0	0	0	0.3	0.1
126	3/20/2017	10:09:58	0	0	0	0	0.3	0.1
127	3/20/2017	10:19:58	0	0	0	0	0.3	0
128	3/20/2017	10:29:58	0	0	0	0	0.3	0
129	3/20/2017	10:39:58	0	0	0	0	0.3	0
130	3/20/2017	10:49:58	0	0	0	0	0.3	0
131	3/20/2017	10:59:58	0	0	0	0	0.3	0
132	3/20/2017	11:09:58	0	0	0	0	0.3	0.6
133	3/20/2017	11:19:58	0	0	0	0	0.3	0.6
134	3/20/2017	11:29:58	0	0	0	0	0.3	1.1
135	3/20/2017	11:39:58	0	0	0	0	0.3	1.9
136	3/20/2017	11:49:58	0	0	0	0	0.3	0.9
137	3/20/2017	11:59:58	0	0	0	0	0.4	0.7
138	3/20/2017	12:09:58	0	0	0	0	0.4	0.7
139	3/20/2017	12:19:58	0	0	0	0	0.4	0.5
140	3/20/2017	12:29:58	0	0	0	0	0.4	0.9
141	3/20/2017	12:39:58	0	0	0	0	0.4	0.5









124	3/14/2017	9:56:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
125	3/14/2017	10:06:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
126	3/14/2017	10:16:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
127	3/14/2017	10:26:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
128	3/14/2017	10:36:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
129	3/14/2017	10:46:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
130	3/14/2017	10:56:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
131	3/14/2017	11:06:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
132	3/14/2017	11:16:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
133	3/14/2017	11:26:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
134	3/14/2017	11:36:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
135	3/14/2017	11:46:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
136	3/14/2017	11:56:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
137	3/14/2017	12:06:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
138	3/14/2017	12:16:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
139	3/14/2017	12:26:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
140	3/14/2017	12:36:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
141	3/14/2017	12:46:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
142	3/14/2017	12:56:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
143	3/14/2017	13:06:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
144	3/14/2017	13:16:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	1	3.5	3
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	0.1

\*\*\*\*\*

TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/13/2017 13:26:04	0 ---	0	0 ---	0	0 ---	0
2	3/13/2017 13:36:04	0	0	0	0	0	0
3	3/13/2017 13:46:04	0	0	0	0	0	0
4	3/13/2017 13:56:04	0	0	0	0	0	0
5	3/13/2017 14:06:04	0	0	0	0	0	0
6	3/13/2017 14:16:04	0	0	0	0	0	0
7	3/13/2017 14:26:04	0	0	0	0	0	0
8	3/13/2017 14:36:04	0	0	0	0	0	0
9	3/13/2017 14:46:04	0	0	0	0	0	0
10	3/13/2017 14:56:04	0	0	0	0	0	0
11	3/13/2017 15:06:04	0	0	0	0	0	0
12	3/13/2017 15:16:04	0	0	0	0	0	0
13	3/13/2017 15:26:04	0	0	0	0	0	0
14	3/13/2017 15:36:04	0	0	0	0	0	0
15	3/13/2017 15:46:04	0	0	0	0	0	0
16	3/13/2017 15:56:04	0	0	0	0	0	0
17	3/13/2017 16:06:04	0	0	0	0	0	0
18	3/13/2017 16:16:04	0	0	0	0	0	0
19	3/13/2017 16:26:04	0	0	0	0	0	0
20	3/13/2017 16:36:04	0	0	0	0	0	0
21	3/13/2017 16:46:04	0	0	0	0	0	0
22	3/13/2017 16:56:04	0	0	0	0	0	0
23	3/13/2017 17:06:04	0	0	0	0	0	0
24	3/13/2017 17:16:04	0	0	0	0	0	0
25	3/13/2017 17:26:04	0	0	0	0	0	0
26	3/13/2017 17:36:04	0	0	0	0	0	0

27	3/13/2017	17:46:04	0	0	0	0	0	0
28	3/13/2017	17:56:04	0	0	0	0	0	0
29	3/13/2017	18:06:04	0	0	0	0	0	0
30	3/13/2017	18:16:04	0	0	0	0	0	0
31	3/13/2017	18:26:04	0	0	0	0	0	0
32	3/13/2017	18:36:04	0	0	0	0	0	0
33	3/13/2017	18:46:04	0	0	0	0	0	0
34	3/13/2017	18:56:04	0	0	0	0	0	0
35	3/13/2017	19:06:04	0	0	0	0	0	0
36	3/13/2017	19:16:04	0	0	0	0	0	0
37	3/13/2017	19:26:04	0	0	0	0	0	0
38	3/13/2017	19:36:04	0	0	0	0	0	0
39	3/13/2017	19:46:04	0	0	0	0	0	0
40	3/13/2017	19:56:04	0	0	0	0	0	0
41	3/13/2017	20:06:04	0	0	0	0	0	0
42	3/13/2017	20:16:04	0	0	0	0	0	0
43	3/13/2017	20:26:04	0	0	0	0	0	0
44	3/13/2017	20:36:04	0	0	0	0	0	0
45	3/13/2017	20:46:04	0	0	0	0	0	0
46	3/13/2017	20:56:04	0	0	0	0	0	0
47	3/13/2017	21:06:04	0	0	0	0	0	0
48	3/13/2017	21:16:04	0	0	0	0	0	0
49	3/13/2017	21:26:04	0	0	0	0	0	0
50	3/13/2017	21:36:04	0	0	0	0	0	0.1
51	3/13/2017	21:46:04	0	0	0	0	0	0.2
52	3/13/2017	21:56:04	0	0	0	0	0	0.1
53	3/13/2017	22:06:04	0	0	0	0	0	0
54	3/13/2017	22:16:04	0	0	0	0	0	0.1
55	3/13/2017	22:26:04	0	0	0	0	0	0.1
56	3/13/2017	22:36:04	0	0	0	0	0	0.1
57	3/13/2017	22:46:04	0	0	0	0	0	0.1
58	3/13/2017	22:56:04	0	0	0	0	0	0.1
59	3/13/2017	23:06:04	0	0	0	0	0	0.1
60	3/13/2017	23:16:04	0	0	0	0	0	0
61	3/13/2017	23:26:04	0	0	0	0	0.1	2
62	3/13/2017	23:36:04	0	0	0	0	0.1	2.4
63	3/13/2017	23:46:04	0	0	0	0	0.1	0.8
64	3/13/2017	23:56:04	0	0	0	0	0.1	0.5
65	3/13/2017	0:06:04	0	0	0	0	0.1	0.1
66	3/13/2017	0:16:04	0	0	0	0	0.1	0.1
67	3/13/2017	0:26:04	0	0	0	0	0.1	0.9
68	3/13/2017	0:36:04	0	0	0	0	0.1	0.8
69	3/13/2017	0:46:04	0	0	0	0	0.1	0
70	3/13/2017	0:56:04	0	0	0	0	0.2	0.8
71	3/14/2017	1:06:04	0	0	0	0	0.2	0.8
72	3/14/2017	1:16:04	0	0	0	0	0.2	0
73	3/14/2017	1:26:04	0	0	0	0	0.2	0
74	3/14/2017	1:36:04	0	0	0	0	0.2	0
75	3/14/2017	1:46:04	0	0	0	0	0.2	0
76	3/14/2017	1:56:04	0	0	0	0	0.2	0
77	3/14/2017	2:06:04	0	0	0	0	0.2	0
78	3/14/2017	2:16:04	0	0	0	0	0.2	0
79	3/14/2017	2:26:04	0	0	0	0	0.2	0
80	3/14/2017	2:36:04	0	0	0	0	0.2	0
81	3/14/2017	2:46:04	0	0	0	0	0.2	0

82	3/14/2017	2:56:04	0	0	0	0	0.2	0
83	3/14/2017	3:06:04	0	0	0	0	0.2	0
84	3/14/2017	3:16:04	0	0	0	0	0.2	0
85	3/14/2017	3:26:04	0	0	0	0	0.2	0
86	3/14/2017	3:36:04	0	0	0	0	0.2	0
87	3/14/2017	3:46:04	0	0	0	0	0.2	0
88	3/14/2017	3:56:04	0	0	0	0	0.2	0
89	3/14/2017	4:06:04	0	0	0	0	0.2	0
90	3/14/2017	4:16:04	0	0	0	0	0.2	0
91	3/14/2017	4:26:04	0	0	0	0	0.2	0
92	3/14/2017	4:36:04	0	0	0	0	0.2	0
93	3/14/2017	4:46:04	0	0	0	0	0.2	0
94	3/14/2017	4:56:04	0	0	0	0	0.2	0
95	3/14/2017	5:06:04	0	0	0	0	0.2	0
96	3/14/2017	5:16:04	0	0	0	0	0.2	0
97	3/14/2017	5:26:04	0	0	0	0	0.2	0
98	3/14/2017	5:36:04	0	0	0	0	0.2	0
99	3/14/2017	5:46:04	0	0	0	0	0.2	0
100	3/14/2017	5:56:04	0	0	0	0	0.2	0
101	3/14/2017	6:06:04	0	0	0	0	0.2	0
102	3/14/2017	6:16:04	0	0	0	0	0.2	0
103	3/14/2017	6:26:04	0	0	0	0	0.2	0
104	3/14/2017	6:36:04	0	0	0	0	0.2	0
105	3/14/2017	6:46:04	0	0	0	0	0.2	0
106	3/14/2017	6:56:04	0	0	0	0	0.2	0
107	3/14/2017	7:06:04	0	0	0	0	0.2	0
108	3/14/2017	7:16:04	0	0	0	0	0.2	0
109	3/14/2017	7:26:04	0	0	0	0	0.2	0
110	3/14/2017	7:36:04	0	0	0	0	0.2	0
111	3/14/2017	7:46:04	0	0	0	0	0.2	0
112	3/14/2017	7:56:04	0	0	0	0	0.2	0
113	3/14/2017	8:06:04	0	0	0	0	0.2	0
114	3/14/2017	8:16:04	0	0	0	0	0.2	0
115	3/14/2017	8:26:04	0	0	0	0	0.2	0
116	3/14/2017	8:36:04	0	0	0	0	0.2	0
117	3/14/2017	8:46:04	0	0	0	0	0.2	0
118	3/14/2017	8:56:04	0	0	0	0	0.2	0
119	3/14/2017	9:06:04	0	0	0	0	0.2	0
120	3/14/2017	9:16:04	0	0	0	0	0.2	0
121	3/14/2017	9:26:04	0	0	0	0	0.2	0
122	3/14/2017	9:36:04	0	0	0	0	0.2	0
123	3/14/2017	9:46:04	0	0	0	0	0.2	0
124	3/14/2017	9:56:04	0	0	0	0	0.2	0
125	3/14/2017	10:06:04	0	0	0	0	0.2	0
126	3/14/2017	10:16:04	0	0	0	0	0.2	0
127	3/14/2017	10:26:04	0	0	0	0	0.2	0
128	3/14/2017	10:36:04	0	0	0	0	0.2	0
129	3/14/2017	10:46:04	0	0	0	0	0.2	0
130	3/14/2017	10:56:04	0	0	0	0	0.2	0
131	3/14/2017	11:06:04	0	0	0	0	0.2	0
132	3/14/2017	11:16:04	0	0	0	0	0.2	0
133	3/14/2017	11:26:04	0	0	0	0	0.2	0
134	3/14/2017	11:36:04	0	0	0	0	0.2	0
135	3/14/2017	11:46:04	0	0	0	0	0.2	0
136	3/14/2017	11:56:04	0	0	0	0	0.2	0









116	3/15/2017	8:36:04	0	0	0	0	20.9	21	21.4	20.9	0	0	0	0	0	0	0	0	0	0.2	2	0
117	3/15/2017	8:46:04	0	0	0	0	20.9	21.2	22.3	21.2	0	0	0	0	0	0	0	0	0	0.3	2.3	0
118	3/15/2017	8:56:04	0	0	0	0	20.9	20.9	21.2	20.9	0	0	0	0	0	0	0	0	0	0	0.6	0
119	3/15/2017	9:06:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0
120	3/15/2017	9:16:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
121	3/15/2017	9:26:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
122	3/15/2017	9:36:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	0
123	3/15/2017	9:46:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
124	3/15/2017	9:56:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	1.1	0
125	3/15/2017	10:06:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
126	3/15/2017	10:16:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
127	3/15/2017	10:26:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
128	3/15/2017	10:36:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
129	3/15/2017	10:46:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
130	3/15/2017	10:56:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
131	3/15/2017	11:06:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0
132	3/15/2017	11:16:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
133	3/15/2017	11:26:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	0
134	3/15/2017	11:36:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
135	3/15/2017	11:46:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	0
136	3/15/2017	11:56:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0
137	3/15/2017	12:06:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0
138	3/15/2017	12:16:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.5	0
139	3/15/2017	12:26:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
140	3/15/2017	12:36:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
141	3/15/2017	12:46:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	0
142	3/15/2017	12:56:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
143	3/15/2017	13:06:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.1
144	3/15/2017	13:16:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	1	0
Peak			0	0	0	0	20.9	21.2	22.6	21.5	0	0	0	0	0	0	0	0	0	0.3	2.3	0.1
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0

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TWA/STEL

Index	Date/Time		H2S(ppm)		CO(ppm)		VOC(ppm)	
			(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/14/2017	13:26:04	0	---	0	---	0	---
2	3/14/2017	13:36:04	0	0	0	0	0	0
3	3/14/2017	13:46:04	0	0	0	0	0	0
4	3/14/2017	13:56:04	0	0	0	0	0	0
5	3/14/2017	14:06:04	0	0	0	0	0	0
6	3/14/2017	14:16:04	0	0	0	0	0	0
7	3/14/2017	14:26:04	0	0	0	0	0	0
8	3/14/2017	14:36:04	0	0	0	0	0	0
9	3/14/2017	14:46:04	0	0	0	0	0	0
10	3/14/2017	14:56:04	0	0	0	0	0	0
11	3/14/2017	15:06:04	0	0	0	0	0	0
12	3/14/2017	15:16:04	0	0	0	0	0	0
13	3/14/2017	15:26:04	0	0	0	0	0	0
14	3/14/2017	15:36:04	0	0	0	0	0	0
15	3/14/2017	15:46:04	0	0	0	0	0	0
16	3/14/2017	15:56:04	0	0	0	0	0	0
17	3/14/2017	16:06:04	0	0	0	0	0	0
18	3/14/2017	16:16:04	0	0	0	0	0	0

19	3/14/2017	16:26:04	0	0	0	0	0	0
20	3/14/2017	16:36:04	0	0	0	0	0	0
21	3/14/2017	16:46:04	0	0	0	0	0	0
22	3/14/2017	16:56:04	0	0	0	0	0	0
23	3/14/2017	17:06:04	0	0	0	0	0	0
24	3/14/2017	17:16:04	0	0	0	0	0	0
25	3/14/2017	17:26:04	0	0	0	0	0	0
26	3/14/2017	17:36:04	0	0	0	0	0	0
27	3/14/2017	17:46:04	0	0	0	0	0	0
28	3/14/2017	17:56:04	0	0	0	0	0	0
29	3/14/2017	18:06:04	0	0	0	0	0	0
30	3/14/2017	18:16:04	0	0	0	0	0	0
31	3/14/2017	18:26:04	0	0	0	0	0	0
32	3/14/2017	18:36:04	0	0	0	0	0	0
33	3/14/2017	18:46:04	0	0	0	0	0	0
34	3/14/2017	18:56:04	0	0	0	0	0	0
35	3/14/2017	19:06:04	0	0	0	0	0	0
36	3/14/2017	19:16:04	0	0	0	0	0	0
37	3/14/2017	19:26:04	0	0	0	0	0	0
38	3/14/2017	19:36:04	0	0	0	0	0	0
39	3/14/2017	19:46:04	0	0	0	0	0	0
40	3/14/2017	19:56:04	0	0	0	0	0	0
41	3/14/2017	20:06:04	0	0	0	0	0	0
42	3/14/2017	20:16:04	0	0	0	0	0	0
43	3/14/2017	20:26:04	0	0	0	0	0	0
44	3/14/2017	20:36:04	0	0	0	0	0	0
45	3/14/2017	20:46:04	0	0	0	0	0	0
46	3/14/2017	20:56:04	0	0	0	0	0	0
47	3/14/2017	21:06:04	0	0	0	0	0	0
48	3/14/2017	21:16:04	0	0	0	0	0	0
49	3/14/2017	21:26:04	0	0	0	0	0	0
50	3/14/2017	21:36:04	0	0	0	0	0	0
51	3/14/2017	21:46:04	0	0	0	0	0	0
52	3/14/2017	21:56:04	0	0	0	0	0	0
53	3/14/2017	22:06:04	0	0	0	0	0	0
54	3/14/2017	22:16:04	0	0	0	0	0	0
55	3/14/2017	22:26:04	0	0	0	0	0	0
56	3/14/2017	22:36:04	0	0	0	0	0	0
57	3/14/2017	22:46:04	0	0	0	0	0	0
58	3/14/2017	22:56:04	0	0	0	0	0	0
59	3/14/2017	23:06:04	0	0	0	0	0	0
60	3/14/2017	23:16:04	0	0	0	0	0	0
61	3/14/2017	23:26:04	0	0	0	0	0	0
62	3/14/2017	23:36:04	0	0	0	0	0	0
63	3/14/2017	23:46:04	0	0	0	0	0	0
64	3/14/2017	23:56:04	0	0	0	0	0	0
65	3/14/2017	0:06:04	0	0	0	0	0	0
66	3/14/2017	0:16:04	0	0	0	0	0	0
67	3/14/2017	0:26:04	0	0	0	0	0	0
68	3/14/2017	0:36:04	0	0	0	0	0	0
69	3/14/2017	0:46:04	0	0	0	0	0	0
70	3/14/2017	0:56:04	0	0	0	0	0	0
71	3/15/2017	1:06:04	0	0	0	0	0	0
72	3/15/2017	1:16:04	0	0	0	0	0	0
73	3/15/2017	1:26:04	0	0	0	0	0	0

74	3/15/2017	1:36:04	0	0	0	0	0	0
75	3/15/2017	1:46:04	0	0	0	0	0	0
76	3/15/2017	1:56:04	0	0	0	0	0	0
77	3/15/2017	2:06:04	0	0	0	0	0	0
78	3/15/2017	2:16:04	0	0	0	0	0	0
79	3/15/2017	2:26:04	0	0	0	0	0	0
80	3/15/2017	2:36:04	0	0	0	0	0	0
81	3/15/2017	2:46:04	0	0	0	0	0	0
82	3/15/2017	2:56:04	0	0	0	0	0	0
83	3/15/2017	3:06:04	0	0	0	0	0	0
84	3/15/2017	3:16:04	0	0	0	0	0	0
85	3/15/2017	3:26:04	0	0	0	0	0	0
86	3/15/2017	3:36:04	0	0	0	0	0	0
87	3/15/2017	3:46:04	0	0	0	0	0	0
88	3/15/2017	3:56:04	0	0	0	0	0	0
89	3/15/2017	4:06:04	0	0	0	0	0	0
90	3/15/2017	4:16:04	0	0	0	0	0	0
91	3/15/2017	4:26:04	0	0	0	0	0	0
92	3/15/2017	4:36:04	0	0	0	0	0	0
93	3/15/2017	4:46:04	0	0	0	0	0	0
94	3/15/2017	4:56:04	0	0	0	0	0	0
95	3/15/2017	5:06:04	0	0	0	0	0	0
96	3/15/2017	5:16:04	0	0	0	0	0	0
97	3/15/2017	5:26:04	0	0	0	0	0	0
98	3/15/2017	5:36:04	0	0	0	0	0	0
99	3/15/2017	5:46:04	0	0	0	0	0	0
100	3/15/2017	5:56:04	0	0	0	0	0	0
101	3/15/2017	6:06:04	0	0	0	0	0	0
102	3/15/2017	6:16:04	0	0	0	0	0	0
103	3/15/2017	6:26:04	0	0	0	0	0	0
104	3/15/2017	6:36:04	0	0	0	0	0	0
105	3/15/2017	6:46:04	0	0	0	0	0	0
106	3/15/2017	6:56:04	0	0	0	0	0	0
107	3/15/2017	7:06:04	0	0	0	0	0	0
108	3/15/2017	7:16:04	0	0	0	0	0	0
109	3/15/2017	7:26:04	0	0	0	0	0	0
110	3/15/2017	7:36:04	0	0	0	0	0	0
111	3/15/2017	7:46:04	0	0	0	0	0	0
112	3/15/2017	7:56:04	0	0	0	0	0	0
113	3/15/2017	8:06:04	0	0	0	0	0	0
114	3/15/2017	8:16:04	0	0	0	0	0	0
115	3/15/2017	8:26:04	0	0	0	0	0	0
116	3/15/2017	8:36:04	0	0	0	0	0	0
117	3/15/2017	8:46:04	0	0	0	0	0	0
118	3/15/2017	8:56:04	0	0	0	0	0	0
119	3/15/2017	9:06:04	0	0	0	0	0	0
120	3/15/2017	9:16:04	0	0	0	0	0	0
121	3/15/2017	9:26:04	0	0	0	0	0	0
122	3/15/2017	9:36:04	0	0	0	0	0	0
123	3/15/2017	9:46:04	0	0	0	0	0	0
124	3/15/2017	9:56:04	0	0	0	0	0	0
125	3/15/2017	10:06:04	0	0	0	0	0	0
126	3/15/2017	10:16:04	0	0	0	0	0	0
127	3/15/2017	10:26:04	0	0	0	0	0	0
128	3/15/2017	10:36:04	0	0	0	0	0	0

129	3/15/2017	10:46:04	0	0	0	0	0	0	0
130	3/15/2017	10:56:04	0	0	0	0	0	0	0
131	3/15/2017	11:06:04	0	0	0	0	0	0	0
132	3/15/2017	11:16:04	0	0	0	0	0	0	0
133	3/15/2017	11:26:04	0	0	0	0	0	0	0
134	3/15/2017	11:36:04	0	0	0	0	0	0	0
135	3/15/2017	11:46:04	0	0	0	0	0	0	0
136	3/15/2017	11:56:04	0	0	0	0	0	0	0
137	3/15/2017	12:06:04	0	0	0	0	0	0	0
138	3/15/2017	12:16:04	0	0	0	0	0	0	0
139	3/15/2017	12:26:04	0	0	0	0	0	0	0
140	3/15/2017	12:36:04	0	0	0	0	0	0	0
141	3/15/2017	12:46:04	0	0	0	0	0	0	0
142	3/15/2017	12:56:04	0	0	0	0	0	0	0
143	3/15/2017	13:06:04	0	0	0	0	0	0	0.1
144	3/15/2017	13:16:04	0	0	0	0	0	0	0.1

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17/03/15 12:16

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Summary

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Unit Name MultiRAE(PGM-6228)  
Unit SN MBB3Z187P8  
Unit Firmware Ver V1.10  
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Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No  
Stop Reason Schedule Stop  
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Site ID 66  
User ID 0  
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Begin 3/15/2017 12:16:04  
End 3/16/2017 12:16:04  
Sample Period(s) 600  
Number of Records 144  
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Sensor	SN	LEL(%LEL)	OXY(%)	H2S(ppm)	CO(ppm)	VOC(ppm)															
		SC0311047	SC0342058	SC03AR01	SC0306024	SC03A40162Q8	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	
Measure	Type	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real
Span		50	18	1	50	10															
Span		2 N/A	N/A	N/A	N/A	1000															
Low	Alarm	10	19.5	10	50	50															
High	Alarm	20	23.5	20	50	100															
Over	Alarm	100	30	100	500	5000															
STEL	Alarm	N/A	N/A	15	100	25															
TWA	Alarm	N/A	N/A	10	35	10															
Measurem Gas(CF)		Methane(1N/A	N/A	N/A	Isobutylene(1.00)																
Calibration Time		3/2/2017	11:08	3/2/2017	11:08	3/2/2017	11:12	3/2/2017	11:08	3/2/2017	11:10										
Peak		0	21.5	0	0	7.3															
Min		0	20.9	0	0	0															
Average		0	20.9	0	0	0.7															

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53	3/15/2017	22:06:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0		
54	3/15/2017	22:16:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0		
55	3/15/2017	22:26:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0		
56	3/15/2017	22:36:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0		
57	3/15/2017	22:46:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0		
58	3/15/2017	22:56:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0		
59	3/15/2017	23:06:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0		
60	3/15/2017	23:16:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0		
61	3/15/2017	23:26:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0		
62	3/15/2017	23:36:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.6		
63	3/15/2017	23:46:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	1.8		
64	3/15/2017	23:56:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0		
65	3/15/2017	0:06:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.5	0.3	
66	3/15/2017	0:16:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	1	5.6	1.3	
67	3/15/2017	0:26:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	1.3	5.3	0	
68	3/15/2017	0:36:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0	
69	3/15/2017	0:46:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
70	3/15/2017	0:56:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
71	3/16/2017	1:06:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
72	3/16/2017	1:16:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
73	3/16/2017	1:26:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	1.8	1.8	
74	3/16/2017	1:36:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	3.3	0	
75	3/16/2017	1:46:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	1.3	1.3	
76	3/16/2017	1:56:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	1.2	4	0.1
77	3/16/2017	2:06:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.6	2.9	2.2
78	3/16/2017	2:16:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.7	3	0	
79	3/16/2017	2:26:04	0	0	0	0	20.9	21.3	22.6	21.1	0	0	0	0	0	0	0	0	0	2.2	9.4	7.3	
80	3/16/2017	2:36:04	0	0	0	0	20.9	20.9	21.1	20.9	0	0	0	0	0	0	0	0	0.2	3	14.5	1	
81	3/16/2017	2:46:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	1.2	5.6	12.8	3.5	
82	3/16/2017	2:56:04	0	0	0	0	20.9	21	21.3	20.9	0	0	0	0	0	0	0	0	0.8	3.3	7	5.5	
83	3/16/2017	3:06:04	0	0	0	0	20.9	21.4	22.7	20.9	0	0	0	0	0	0	0	0	2.7	4.6	6.1	3	
84	3/16/2017	3:16:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	1.2	3.1	6.8	5.1	
85	3/16/2017	3:26:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.7	3.3	6.4	0.8	
86	3/16/2017	3:36:04	0	0	0	0	20.9	21	21.6	21.1	0	0	0	0	0	0	0	0	0.1	0.7	2	1.6	
87	3/16/2017	3:46:04	0	0	0	0	20.9	21.3	22.7	21.3	0	0	0	0	0	0	0	0	0.9	2.9	5.5	4.4	
88	3/16/2017	3:56:04	0	0	0	0	20.9	20.9	21.3	20.9	0	0	0	0	0	0	0	0	2.1	4.6	7.4	5.6	
89	3/16/2017	4:06:04	0	0	0	0	20.9	20.9	21.5	21.5	0	0	0	0	0	0	0	0	2.1	4.3	7.8	2.3	
90	3/16/2017	4:16:04	0	0	0	0	20.9	21	21.5	20.9	0	0	0	0	0	0	0	0	0.8	2.1	5.3	2	
91	3/16/2017	4:26:04	0	0	0	0	20.9	21.3	22.7	20.9	0	0	0	0	0	0	0	0	1.3	3.2	8.5	2	
92	3/16/2017	4:36:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	2	4.2	6.6	6.1	
93	3/16/2017	4:46:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.8	3.2	6.5	1.1	
94	3/16/2017	4:56:04	0	0	0	0	20.9	21	21.5	20.9	0	0	0	0	0	0	0	0	0.3	0.9	2.2	1.2	
95	3/16/2017	5:06:04	0	0	0	0	20.9	21.4	22.8	21.1	0	0	0	0	0	0	0	0	1.1	4.2	8.1	5.4	
96	3/16/2017	5:16:04	0	0	0	0	20.9	20.9	21.1	20.9	0	0	0	0	0	0	0	0	0.4	2.8	6.2	0.6	
97	3/16/2017	5:26:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	1.4	3.9	2	
98	3/16/2017	5:36:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.4	2.5	5.7	2.4	
99	3/16/2017	5:46:04	0	0	0	0	20.9	21	21.4	20.9	0	0	0	0	0	0	0	0	1	2.3	4.5	2	
100	3/16/2017	5:56:04	0	0	0	0	20.9	21.4	22.7	20.9	0	0	0	0	0	0	0	0	0.1	0.8	2.8	0.1	
101	3/16/2017	6:06:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.5	1.7	0.5	
102	3/16/2017	6:16:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	3.4	10.2	2.9	
103	3/16/2017	6:26:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	2.4	5.9	12.6	4.4	
104	3/16/2017	6:36:04	0	0	0	0	20.9	21.4	22.8	21.1	0	0	0	0	0	0	0	0	1.2	3.3	5.5	3.4	
105	3/16/2017	6:46:04	0	0	0	0	20.9	20.9	21.1	20.9	0	0	0	0	0	0	0	0	0.3	1.7	6.1	0.6	
106	3/16/2017	6:56:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	2.3	7	2.4	
107	3/16/2017	7:06:04	0	0	0	0	20.9	20.9	21.9	20.9	0	0	0	0	0	0	0	0	2	3.5	5.9	5.2	

108	3/16/2017	7:16:04	0	0	0	0	20.9	21.4	22.8	21.1	0	0	0	0	0	0	0	0	1.5	4.1	7.2	2.5
109	3/16/2017	7:26:04	0	0	0	0	20.9	20.9	21.1	20.9	0	0	0	0	0	0	0	0	2	4.5	8.4	2.6
110	3/16/2017	7:36:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.8	2	4.6	4.4
111	3/16/2017	7:46:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.4	1.4	4.4	0.4
112	3/16/2017	7:56:04	0	0	0	0	20.9	21.4	22.8	20.9	0	0	0	0	0	0	0	0	0.3	0.5	1.2	1.2
113	3/16/2017	8:06:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.6	1.2	0.2
114	3/16/2017	8:16:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.6	1.2	1.2
115	3/16/2017	8:26:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.8	1.3	2.2	1
116	3/16/2017	8:36:04	0	0	0	0	20.9	21.4	22.7	20.9	0	0	0	0	0	0	0	0	0.1	0.6	1	0.5
117	3/16/2017	8:46:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.3	0.7	0.1
118	3/16/2017	8:56:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0
119	3/16/2017	9:06:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
120	3/16/2017	9:16:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
121	3/16/2017	9:26:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
122	3/16/2017	9:36:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
123	3/16/2017	9:46:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
124	3/16/2017	9:56:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
125	3/16/2017	10:06:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
126	3/16/2017	10:16:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
127	3/16/2017	10:26:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
128	3/16/2017	10:36:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0
129	3/16/2017	10:46:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
130	3/16/2017	10:56:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
131	3/16/2017	11:06:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
132	3/16/2017	11:16:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
133	3/16/2017	11:26:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
134	3/16/2017	11:36:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
135	3/16/2017	11:46:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
136	3/16/2017	11:56:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
137	3/16/2017	12:06:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
138	3/16/2017	12:16:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
139	3/16/2017	12:26:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
140	3/16/2017	12:36:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
141	3/16/2017	12:46:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
142	3/16/2017	12:56:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
143	3/16/2017	13:06:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
144	3/16/2017	13:16:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	20.9	21.4	22.8	21.5	0	0	0	0	0	0	0	0	2.7	5.9	14.5	7.3
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	20.9	20.9	21.1	20.9	0	0	0	0	0	0	0	0	0.2	0.7	1.8	0.7

\*\*\*\*\*

TWA/STEL

Index	Date/Time		H2S(ppm)		CO(ppm)		VOC(ppm)	
			(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/15/2017	13:26:04	0	---	0	---	0	---
2	3/15/2017	13:36:04	0	0	0	0	0	0
3	3/15/2017	13:46:04	0	0	0	0	0	0
4	3/15/2017	13:56:04	0	0	0	0	0	0
5	3/15/2017	14:06:04	0	0	0	0	0	0
6	3/15/2017	14:16:04	0	0	0	0	0	0
7	3/15/2017	14:26:04	0	0	0	0	0	0
8	3/15/2017	14:36:04	0	0	0	0	0	0
9	3/15/2017	14:46:04	0	0	0	0	0	0
10	3/15/2017	14:56:04	0	0	0	0	0	0



11	3/15/2017	15:06:04	0	0	0	0	0	0
12	3/15/2017	15:16:04	0	0	0	0	0	0
13	3/15/2017	15:26:04	0	0	0	0	0	0
14	3/15/2017	15:36:04	0	0	0	0	0	0
15	3/15/2017	15:46:04	0	0	0	0	0	0
16	3/15/2017	15:56:04	0	0	0	0	0	0
17	3/15/2017	16:06:04	0	0	0	0	0	0
18	3/15/2017	16:16:04	0	0	0	0	0	0
19	3/15/2017	16:26:04	0	0	0	0	0	0
20	3/15/2017	16:36:04	0	0	0	0	0	0
21	3/15/2017	16:46:04	0	0	0	0	0	0
22	3/15/2017	16:56:04	0	0	0	0	0	0
23	3/15/2017	17:06:04	0	0	0	0	0	0
24	3/15/2017	17:16:04	0	0	0	0	0	0
25	3/15/2017	17:26:04	0	0	0	0	0	0
26	3/15/2017	17:36:04	0	0	0	0	0	0
27	3/15/2017	17:46:04	0	0	0	0	0	0
28	3/15/2017	17:56:04	0	0	0	0	0	0
29	3/15/2017	18:06:04	0	0	0	0	0	0
30	3/15/2017	18:16:04	0	0	0	0	0	0
31	3/15/2017	18:26:04	0	0	0	0	0	0
32	3/15/2017	18:36:04	0	0	0	0	0	0
33	3/15/2017	18:46:04	0	0	0	0	0	0
34	3/15/2017	18:56:04	0	0	0	0	0	0
35	3/15/2017	19:06:04	0	0	0	0	0	0
36	3/15/2017	19:16:04	0	0	0	0	0	0
37	3/15/2017	19:26:04	0	0	0	0	0	0
38	3/15/2017	19:36:04	0	0	0	0	0	0
39	3/15/2017	19:46:04	0	0	0	0	0	0
40	3/15/2017	19:56:04	0	0	0	0	0	0
41	3/15/2017	20:06:04	0	0	0	0	0	0
42	3/15/2017	20:16:04	0	0	0	0	0	0
43	3/15/2017	20:26:04	0	0	0	0	0	0
44	3/15/2017	20:36:04	0	0	0	0	0	0
45	3/15/2017	20:46:04	0	0	0	0	0	0
46	3/15/2017	20:56:04	0	0	0	0	0	0
47	3/15/2017	21:06:04	0	0	0	0	0	0
48	3/15/2017	21:16:04	0	0	0	0	0	0
49	3/15/2017	21:26:04	0	0	0	0	0	0
50	3/15/2017	21:36:04	0	0	0	0	0	0
51	3/15/2017	21:46:04	0	0	0	0	0	0
52	3/15/2017	21:56:04	0	0	0	0	0	0
53	3/15/2017	22:06:04	0	0	0	0	0	0
54	3/15/2017	22:16:04	0	0	0	0	0	0
55	3/15/2017	22:26:04	0	0	0	0	0	0
56	3/15/2017	22:36:04	0	0	0	0	0	0
57	3/15/2017	22:46:04	0	0	0	0	0	0
58	3/15/2017	22:56:04	0	0	0	0	0	0
59	3/15/2017	23:06:04	0	0	0	0	0	0
60	3/15/2017	23:16:04	0	0	0	0	0	0
61	3/15/2017	23:26:04	0	0	0	0	0	0
62	3/15/2017	23:36:04	0	0	0	0	0	0
63	3/15/2017	23:46:04	0	0	0	0	0	0
64	3/15/2017	23:56:04	0	0	0	0	0	0
65	3/15/2017	0:06:04	0	0	0	0	0	0.2

66	3/15/2017	0:16:04	0	0	0	0	0	1.1
67	3/15/2017	0:26:04	0	0	0	0	0	0.9
68	3/15/2017	0:36:04	0	0	0	0	0	0
69	3/15/2017	0:46:04	0	0	0	0	0	0
70	3/15/2017	0:56:04	0	0	0	0	0	0
71	3/16/2017	1:06:04	0	0	0	0	0	0
72	3/16/2017	1:16:04	0	0	0	0	0	0
73	3/16/2017	1:26:04	0	0	0	0	0.1	1.2
74	3/16/2017	1:36:04	0	0	0	0	0.1	1.2
75	3/16/2017	1:46:04	0	0	0	0	0.1	0.9
76	3/16/2017	1:56:04	0	0	0	0	0.1	0.9
77	3/16/2017	2:06:04	0	0	0	0	0.1	1.5
78	3/16/2017	2:16:04	0	0	0	0	0.1	1.5
79	3/16/2017	2:26:04	0	0	0	0	0.3	4.9
80	3/16/2017	2:36:04	0	0	0	0	0.3	5.5
81	3/16/2017	2:46:04	0	0	0	0	0.4	3
82	3/16/2017	2:56:04	0	0	0	0	0.5	6
83	3/16/2017	3:06:04	0	0	0	0	0.6	5.7
84	3/16/2017	3:16:04	0	0	0	0	0.7	5.4
85	3/16/2017	3:26:04	0	0	0	0	0.7	3.9
86	3/16/2017	3:36:04	0	0	0	0	0.7	1.6
87	3/16/2017	3:46:04	0	0	0	0	0.8	4
88	3/16/2017	3:56:04	0	0	0	0	0.9	6.7
89	3/16/2017	4:06:04	0	0	0	0	1	5.3
90	3/16/2017	4:16:04	0	0	0	0	1	2.9
91	3/16/2017	4:26:04	0	0	0	0	1.1	2.7
92	3/16/2017	4:36:04	0	0	0	0	1.2	5.4
93	3/16/2017	4:46:04	0	0	0	0	1.2	4.8
94	3/16/2017	4:56:04	0	0	0	0	1.2	1.5
95	3/16/2017	5:06:04	0	0	0	0	1.4	4.4
96	3/16/2017	5:16:04	0	0	0	0	1.4	4
97	3/16/2017	5:26:04	0	0	0	0	1.4	1.7
98	3/16/2017	5:36:04	0	0	0	0	1.5	2.9
99	3/16/2017	5:46:04	0	0	0	0	1.5	2.9
100	3/16/2017	5:56:04	0	0	0	0	1.5	1.4
101	3/16/2017	6:06:04	0	0	0	0	1.5	0.4
102	3/16/2017	6:16:04	0	0	0	0	1.6	2.3
103	3/16/2017	6:26:04	0	0	0	0	1.7	4.9
104	3/16/2017	6:36:04	0	0	0	0	1.7	5.2
105	3/16/2017	6:46:04	0	0	0	0	1.7	2.7
106	3/16/2017	6:56:04	0	0	0	0	1.8	2
107	3/16/2017	7:06:04	0	0	0	0	1.9	5.1
108	3/16/2017	7:16:04	0	0	0	0	2	5.1
109	3/16/2017	7:26:04	0	0	0	0	2	3.4
110	3/16/2017	7:36:04	0	0	0	0	2.1	4.7
111	3/16/2017	7:46:04	0	0	0	0	2.1	3.2
112	3/16/2017	7:56:04	0	0	0	0	2.1	1.1
113	3/16/2017	8:06:04	0	0	0	0	2.1	0.9
114	3/16/2017	8:16:04	0	0	0	0	2.2	0.9
115	3/16/2017	8:26:04	0	0	0	0	2.2	1.5
116	3/16/2017	8:36:04	0	0	0	0	2.2	1
117	3/16/2017	8:46:04	0	0	0	0	2.2	0.4
118	3/16/2017	8:56:04	0	0	0	0	2.2	0.1
119	3/16/2017	9:06:04	0	0	0	0	2.2	0
120	3/16/2017	9:16:04	0	0	0	0	2.2	0



TWA	Alarm	N/A	N/A	10	35	10					
Measur	Gas(CF)	Methane(1	N/A	N/A	Isobutylene(1.00)						
Calibration Time		3/2/2017	11:08	3/2/2017	11:08	3/2/2017	11:12	3/2/2017	11:08	3/2/2017	11:10
Peak		0	20.9	0	0	0					
Min		0	20.9	0	0	0					
Average		0	20.9	0	0	0					

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Datalog

Index	Date/Time	LEL(%LEL) (Min)	LEL(%LEL) (Avg)	LEL(%LEL) (Max)	LEL(%LEL) (Real)	OXY(% (Min)	OXY(% (Avg)	OXY(% (Max)	OXY(% (Real)	H2S(ppm) (Min)	H2S(ppm) (Avg)	H2S(ppm) (Max)	H2S(ppm) (Real)	CO(ppm) (Min)	CO(ppm) (Avg)	CO(ppm) (Max)	CO(ppm) (Real)	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)	VOC(ppm) (Real)	
1	3/16/2017 13:26:04	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak		0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
Min		0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
Average		0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/16/2017 13:26:04	0	---	0	---	0	---

17/03/16 12:31

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Summary

Unit Name MultiRAE(PGM-6228)
Unit SN MBB3Z187P8
Unit Firmware Ver V1.10

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Schedule Stop

Site ID 66
User ID 0

Begin 3/16/2017 12:31:51
End 3/17/2017 12:31:51
Sample Period(s) 600
Number of Records 144

Table with sensor data including LEL(%LEL), OXY(%), H2S(ppm), CO(ppm), and VOC(ppm) for various sensors and measurement types.

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Datalog

Table with 24 columns: Index, Date/Time, LEL(%LEL) (Min, Avg, Max, Real), OXY(%), H2S(ppm), CO(ppm), and VOC(ppm).

15	3/16/2017	16:01:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
16	3/16/2017	16:11:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
17	3/16/2017	16:21:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
18	3/16/2017	16:31:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
19	3/16/2017	16:41:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
20	3/16/2017	16:51:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.4	0	
21	3/16/2017	17:01:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
22	3/16/2017	17:11:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
23	3/16/2017	17:21:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
24	3/16/2017	17:31:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
25	3/16/2017	17:41:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
26	3/16/2017	17:51:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
27	3/16/2017	18:01:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
28	3/16/2017	18:11:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
29	3/16/2017	18:21:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
30	3/16/2017	18:31:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
31	3/16/2017	18:41:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
32	3/16/2017	18:51:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
33	3/16/2017	19:01:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
34	3/16/2017	19:11:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
35	3/16/2017	19:21:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
36	3/16/2017	19:31:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
37	3/16/2017	19:41:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
38	3/16/2017	19:51:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
39	3/16/2017	20:01:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
40	3/16/2017	20:11:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
41	3/16/2017	20:21:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
42	3/16/2017	20:31:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
43	3/16/2017	20:41:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
44	3/16/2017	20:51:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
45	3/16/2017	21:01:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
46	3/16/2017	21:11:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
47	3/16/2017	21:21:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
48	3/16/2017	21:31:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
49	3/16/2017	21:41:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
50	3/16/2017	21:51:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
51	3/16/2017	22:01:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	
52	3/16/2017	22:11:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.4	5.9	0
53	3/16/2017	22:21:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.4	3.4	0.2
54	3/16/2017	22:31:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	1.8	0.3
55	3/16/2017	22:41:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	1.1	0
56	3/16/2017	22:51:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.2	0
57	3/16/2017	23:01:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.7	0
58	3/16/2017	23:11:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	1.5	7.6	7.2
59	3/16/2017	23:21:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	3.5	8.6	0.4
60	3/16/2017	23:31:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	3.6	11.7	2.5
61	3/16/2017	23:41:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	1.9	3.6	5.7	2.2
62	3/16/2017	23:51:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	2.7	13.2	9.3
63	3/16/2017	0:01:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	3.7	13.5	0.3
64	3/16/2017	0:11:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	1.6	1.6
65	3/16/2017	0:21:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.8	7.8	20.2	9.6
66	3/16/2017	0:31:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	2.9	8.3	18.3	3.9
67	3/16/2017	0:41:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	1.4	4.6	9.7	5.8
68	3/16/2017	0:51:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	2.6	15.2	0.2
69	3/17/2017	1:01:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.2	0
70	3/17/2017	1:11:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	2.9	6.5	1.7



127	3/17/2017	10:41:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
128	3/17/2017	10:51:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
129	3/17/2017	11:01:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
130	3/17/2017	11:11:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
131	3/17/2017	11:21:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
132	3/17/2017	11:31:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
133	3/17/2017	11:41:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
134	3/17/2017	11:51:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.8	0
135	3/17/2017	12:01:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
136	3/17/2017	12:11:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0
137	3/17/2017	12:21:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
138	3/17/2017	12:31:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
139	3/17/2017	12:41:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
140	3/17/2017	12:51:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
141	3/17/2017	13:01:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0
142	3/17/2017	13:11:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
143	3/17/2017	13:21:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
144	3/17/2017	13:31:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	4	0	2.9	8.3	20.2	9.6
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.1	0.6	1.7	0.6

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TWA/STEL

Index	Date/Time		H2S(ppm)		CO(ppm)		VOC(ppm)	
			(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/16/2017	13:41:51	0	---	0	---	0	---
2	3/16/2017	13:51:51	0	0	0	0	0	0
3	3/16/2017	14:01:51	0	0	0	0	0	0
4	3/16/2017	14:11:51	0	0	0	0	0	0
5	3/16/2017	14:21:51	0	0	0	0	0	0
6	3/16/2017	14:31:51	0	0	0	0	0	0
7	3/16/2017	14:41:51	0	0	0	0	0	0
8	3/16/2017	14:51:51	0	0	0	0	0	0
9	3/16/2017	15:01:51	0	0	0	0	0	0
10	3/16/2017	15:11:51	0	0	0	0	0	0
11	3/16/2017	15:21:51	0	0	0	0	0	0
12	3/16/2017	15:31:51	0	0	0	0	0	0
13	3/16/2017	15:41:51	0	0	0	0	0	0
14	3/16/2017	15:51:51	0	0	0	0	0	0
15	3/16/2017	16:01:51	0	0	0	0	0	0
16	3/16/2017	16:11:51	0	0	0	0	0	0
17	3/16/2017	16:21:51	0	0	0	0	0	0
18	3/16/2017	16:31:51	0	0	0	0	0	0
19	3/16/2017	16:41:51	0	0	0	0	0	0
20	3/16/2017	16:51:51	0	0	0	0	0	0
21	3/16/2017	17:01:51	0	0	0	0	0	0
22	3/16/2017	17:11:51	0	0	0	0	0	0
23	3/16/2017	17:21:51	0	0	0	0	0	0
24	3/16/2017	17:31:51	0	0	0	0	0	0
25	3/16/2017	17:41:51	0	0	0	0	0	0
26	3/16/2017	17:51:51	0	0	0	0	0	0
27	3/16/2017	18:01:51	0	0	0	0	0	0
28	3/16/2017	18:11:51	0	0	0	0	0	0
29	3/16/2017	18:21:51	0	0	0	0	0	0
30	3/16/2017	18:31:51	0	0	0	0	0	0



31	3/16/2017	18:41:51	0	0	0	0	0	0
32	3/16/2017	18:51:51	0	0	0	0	0	0
33	3/16/2017	19:01:51	0	0	0	0	0	0
34	3/16/2017	19:11:51	0	0	0	0	0	0
35	3/16/2017	19:21:51	0	0	0	0	0	0
36	3/16/2017	19:31:51	0	0	0	0	0	0
37	3/16/2017	19:41:51	0	0	0	0	0	0
38	3/16/2017	19:51:51	0	0	0	0	0	0
39	3/16/2017	20:01:51	0	0	0	0	0	0
40	3/16/2017	20:11:51	0	0	0	0	0	0
41	3/16/2017	20:21:51	0	0	0	0	0	0
42	3/16/2017	20:31:51	0	0	0	0	0	0
43	3/16/2017	20:41:51	0	0	0	0	0	0
44	3/16/2017	20:51:51	0	0	0	0	0	0
45	3/16/2017	21:01:51	0	0	0	0	0	0
46	3/16/2017	21:11:51	0	0	0	0	0	0
47	3/16/2017	21:21:51	0	0	0	0	0	0
48	3/16/2017	21:31:51	0	0	0	0	0	0
49	3/16/2017	21:41:51	0	0	0	0	0	0
50	3/16/2017	21:51:51	0	0	0	0	0	0
51	3/16/2017	22:01:51	0	0	0	0	0	0
52	3/16/2017	22:11:51	0	0	0	0	0	0
53	3/16/2017	22:21:51	0	0	0	0	0	0.1
54	3/16/2017	22:31:51	0	0	0	0	0	0.3
55	3/16/2017	22:41:51	0	0	0	0	0	0.2
56	3/16/2017	22:51:51	0	0	0	0	0	0
57	3/16/2017	23:01:51	0	0	0	0	0	0
58	3/16/2017	23:11:51	0	0	0	0	0.2	4.8
59	3/16/2017	23:21:51	0	0	0	0	0.2	5.1
60	3/16/2017	23:31:51	0	0	0	0	0.2	1.9
61	3/16/2017	23:41:51	0	0	0	0	0.3	3.1
62	3/16/2017	23:51:51	0	0	0	0	0.5	7.7
63	3/16/2017	0:01:51	0	0	0	0	0.5	6.4
64	3/16/2017	0:11:51	0	0	0	0	0.5	1.3
65	3/16/2017	0:21:51	0	0	0	0	0.7	7.5
66	3/16/2017	0:31:51	0	0	0	0	0.8	9
67	3/16/2017	0:41:51	0	0	0	0	0.9	6.5
68	3/16/2017	0:51:51	0	0	0	0	0.9	4
69	3/17/2017	1:01:51	0	0	0	0	0.9	0.1
70	3/17/2017	1:11:51	0	0	0	0	0.9	1.1
71	3/17/2017	1:21:51	0	0	0	0	1	4.3
72	3/17/2017	1:31:51	0	0	0	0	1.1	5.6
73	3/17/2017	1:41:51	0	0	0	0	1.2	3.9
74	3/17/2017	1:51:51	0	0	0	0	1.2	2.3
75	3/17/2017	2:01:51	0	0	0	0	1.3	3.5
76	3/17/2017	2:11:51	0	0	0	0	1.3	4.8
77	3/17/2017	2:21:51	0	0	0	0	1.4	2.7
78	3/17/2017	2:31:51	0	0	0	0	1.4	1.8
79	3/17/2017	2:41:51	0	0	0	0	1.4	1.5
80	3/17/2017	2:51:51	0	0	0	0	1.4	0.7
81	3/17/2017	3:01:51	0	0	0	0	1.4	1.3
82	3/17/2017	3:11:51	0	0	0	0	1.4	1
83	3/17/2017	3:21:51	0	0	0	0	1.5	1.5
84	3/17/2017	3:31:51	0	0	0	0	1.5	1.7
85	3/17/2017	3:41:51	0	0	0	0	1.5	0.3
86	3/17/2017	3:51:51	0	0	0	0	1.5	0

87	3/17/2017	4:01:51	0	0	0	0	1.5	0
88	3/17/2017	4:11:51	0	0	0	0	1.5	0
89	3/17/2017	4:21:51	0	0	0	0	1.5	0.4
90	3/17/2017	4:31:51	0	0	0	0	1.5	1.5
91	3/17/2017	4:41:51	0	0	0	0	1.5	1.1
92	3/17/2017	4:51:51	0	0	0	0	1.5	0
93	3/17/2017	5:01:51	0	0	0	0	1.6	1
94	3/17/2017	5:11:51	0	0	0	0	1.6	1.3
95	3/17/2017	5:21:51	0	0	0	0	1.6	0.5
96	3/17/2017	5:31:51	0	0	0	0	1.6	0.2
97	3/17/2017	5:41:51	0	0	0	0	1.6	0
98	3/17/2017	5:51:51	0	0	0	0	1.6	0
99	3/17/2017	6:01:51	0	0	0	0	1.6	0.5
100	3/17/2017	6:11:51	0	0	0	0	1.6	0.7
101	3/17/2017	6:21:51	0	0	0	0	1.6	0.9
102	3/17/2017	6:31:51	0	0	0	0	1.6	1
103	3/17/2017	6:41:51	0	0	0	0	1.6	0.3
104	3/17/2017	6:51:51	0	0	0	0	1.6	0
105	3/17/2017	7:01:51	0	0	0	0	1.7	1.3
106	3/17/2017	7:11:51	0	0	0	0	1.7	1.4
107	3/17/2017	7:21:51	0	0	0	0	1.7	0.1
108	3/17/2017	7:31:51	0	0	0	0	1.7	0
109	3/17/2017	7:41:51	0	0	0	0	1.7	0.3
110	3/17/2017	7:51:51	0	0	0	0	1.7	0.3
111	3/17/2017	8:01:51	0	0	0	0	1.7	0
112	3/17/2017	8:11:51	0	0	0	0	1.7	0
113	3/17/2017	8:21:51	0	0	0	0	1.7	0.2
114	3/17/2017	8:31:51	0	0	0	0	1.7	0.2
115	3/17/2017	8:41:51	0	0	0	0	1.7	0.3
116	3/17/2017	8:51:51	0	0	0	0	1.7	0.3
117	3/17/2017	9:01:51	0	0	0	0	1.7	0
118	3/17/2017	9:11:51	0	0	0	0	1.7	0
119	3/17/2017	9:21:51	0	0	0	0	1.7	0
120	3/17/2017	9:31:51	0	0	0	0	1.7	0
121	3/17/2017	9:41:51	0	0	0	0	1.7	0
122	3/17/2017	9:51:51	0	0	0	0	1.7	0
123	3/17/2017	10:01:51	0	0	0	0	1.7	0
124	3/17/2017	10:11:51	0	0	0	0	1.7	0
125	3/17/2017	10:21:51	0	0	0	0	1.7	0
126	3/17/2017	10:31:51	0	0	0	0	1.7	0
127	3/17/2017	10:41:51	0	0	0	0	1.7	0
128	3/17/2017	10:51:51	0	0	0	0	1.7	0
129	3/17/2017	11:01:51	0	0	0	0	1.7	0
130	3/17/2017	11:11:51	0	0	0	0	1.7	0
131	3/17/2017	11:21:51	0	0	0	0	1.7	0
132	3/17/2017	11:31:51	0	0	0	0	1.7	0
133	3/17/2017	11:41:51	0	0	0	0	1.7	0
134	3/17/2017	11:51:51	0	0	0	0	1.7	0
135	3/17/2017	12:01:51	0	0	0	0	1.7	0
136	3/17/2017	12:11:51	0	0	0	0	1.7	0
137	3/17/2017	12:21:51	0	0	0	0	1.7	0
138	3/17/2017	12:31:51	0	0	0	0	1.7	0
139	3/17/2017	12:41:51	0	0	0	0	1.7	0
140	3/17/2017	12:51:51	0	0	0	0	1.7	0
141	3/17/2017	13:01:51	0	0	0	0	1.7	0
142	3/17/2017	13:11:51	0	0	0	0	1.7	0







125	3/18/2017	10:21:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
126	3/18/2017	10:31:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
127	3/18/2017	10:41:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
128	3/18/2017	10:51:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
129	3/18/2017	11:01:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
130	3/18/2017	11:11:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
131	3/18/2017	11:21:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
132	3/18/2017	11:31:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
133	3/18/2017	11:41:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
134	3/18/2017	11:51:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
135	3/18/2017	12:01:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
136	3/18/2017	12:11:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
137	3/18/2017	12:21:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
138	3/18/2017	12:31:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
139	3/18/2017	12:41:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
140	3/18/2017	12:51:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
141	3/18/2017	13:01:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
142	3/18/2017	13:11:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
143	3/18/2017	13:21:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
144	3/18/2017	13:31:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	20.9	20.9	21.3	21.1	0	0	0	0	0	0	0	0	0	0.4	2	1.8
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0

\*\*\*\*\*

TWA/STEL

Index	Date/Time		H2S(ppm)		CO(ppm)		VOC(ppm)	
			(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/17/2017	13:41:51	0	---	0	---	0	---
2	3/17/2017	13:51:51	0	0	0	0	0	0
3	3/17/2017	14:01:51	0	0	0	0	0	0
4	3/17/2017	14:11:51	0	0	0	0	0	0
5	3/17/2017	14:21:51	0	0	0	0	0	0
6	3/17/2017	14:31:51	0	0	0	0	0	0
7	3/17/2017	14:41:51	0	0	0	0	0	0
8	3/17/2017	14:51:51	0	0	0	0	0	0
9	3/17/2017	15:01:51	0	0	0	0	0	0
10	3/17/2017	15:11:51	0	0	0	0	0	0
11	3/17/2017	15:21:51	0	0	0	0	0	0
12	3/17/2017	15:31:51	0	0	0	0	0	0
13	3/17/2017	15:41:51	0	0	0	0	0	0
14	3/17/2017	15:51:51	0	0	0	0	0	0
15	3/17/2017	16:01:51	0	0	0	0	0	0
16	3/17/2017	16:11:51	0	0	0	0	0	0
17	3/17/2017	16:21:51	0	0	0	0	0	0
18	3/17/2017	16:31:51	0	0	0	0	0	0
19	3/17/2017	16:41:51	0	0	0	0	0	0
20	3/17/2017	16:51:51	0	0	0	0	0	0
21	3/17/2017	17:01:51	0	0	0	0	0	0
22	3/17/2017	17:11:51	0	0	0	0	0	0
23	3/17/2017	17:21:51	0	0	0	0	0	0
24	3/17/2017	17:31:51	0	0	0	0	0	0
25	3/17/2017	17:41:51	0	0	0	0	0	0
26	3/17/2017	17:51:51	0	0	0	0	0	0
27	3/17/2017	18:01:51	0	0	0	0	0	0
28	3/17/2017	18:11:51	0	0	0	0	0	0

29	3/17/2017	18:21:51	0	0	0	0	0	0
30	3/17/2017	18:31:51	0	0	0	0	0	0
31	3/17/2017	18:41:51	0	0	0	0	0	0
32	3/17/2017	18:51:51	0	0	0	0	0	0
33	3/17/2017	19:01:51	0	0	0	0	0	0
34	3/17/2017	19:11:51	0	0	0	0	0	0
35	3/17/2017	19:21:51	0	0	0	0	0	0
36	3/17/2017	19:31:51	0	0	0	0	0	0
37	3/17/2017	19:41:51	0	0	0	0	0	0
38	3/17/2017	19:51:51	0	0	0	0	0	0
39	3/17/2017	20:01:51	0	0	0	0	0	0
40	3/17/2017	20:11:51	0	0	0	0	0	0
41	3/17/2017	20:21:51	0	0	0	0	0	0
42	3/17/2017	20:31:51	0	0	0	0	0	0
43	3/17/2017	20:41:51	0	0	0	0	0	0
44	3/17/2017	20:51:51	0	0	0	0	0	0.3
45	3/17/2017	21:01:51	0	0	0	0	0	0.3
46	3/17/2017	21:11:51	0	0	0	0	0	1.2
47	3/17/2017	21:21:51	0	0	0	0	0	1.2
48	3/17/2017	21:31:51	0	0	0	0	0	0
49	3/17/2017	21:41:51	0	0	0	0	0	0.1
50	3/17/2017	21:51:51	0	0	0	0	0	0.1
51	3/17/2017	22:01:51	0	0	0	0	0	0
52	3/17/2017	22:11:51	0	0	0	0	0	0
53	3/17/2017	22:21:51	0	0	0	0	0	0
54	3/17/2017	22:31:51	0	0	0	0	0	0
55	3/17/2017	22:41:51	0	0	0	0	0	0
56	3/17/2017	22:51:51	0	0	0	0	0.1	0.1
57	3/17/2017	23:01:51	0	0	0	0	0.1	0.1
58	3/17/2017	23:11:51	0	0	0	0	0.1	0
59	3/17/2017	23:21:51	0	0	0	0	0.1	0
60	3/17/2017	23:31:51	0	0	0	0	0.1	0
61	3/17/2017	23:41:51	0	0	0	0	0.1	0
62	3/17/2017	23:51:51	0	0	0	0	0.1	0
63	3/17/2017	0:01:51	0	0	0	0	0.1	0
64	3/17/2017	0:11:51	0	0	0	0	0.1	0
65	3/17/2017	0:21:51	0	0	0	0	0.1	0
66	3/17/2017	0:31:51	0	0	0	0	0.1	0
67	3/17/2017	0:41:51	0	0	0	0	0.1	0
68	3/17/2017	0:51:51	0	0	0	0	0.1	0
69	3/18/2017	1:01:51	0	0	0	0	0.1	0
70	3/18/2017	1:11:51	0	0	0	0	0.1	0
71	3/18/2017	1:21:51	0	0	0	0	0.1	0
72	3/18/2017	1:31:51	0	0	0	0	0.1	0
73	3/18/2017	1:41:51	0	0	0	0	0.1	0
74	3/18/2017	1:51:51	0	0	0	0	0.1	0
75	3/18/2017	2:01:51	0	0	0	0	0.1	0
76	3/18/2017	2:11:51	0	0	0	0	0.1	0
77	3/18/2017	2:21:51	0	0	0	0	0.1	0
78	3/18/2017	2:31:51	0	0	0	0	0.1	0
79	3/18/2017	2:41:51	0	0	0	0	0.1	0
80	3/18/2017	2:51:51	0	0	0	0	0.1	0
81	3/18/2017	3:01:51	0	0	0	0	0.1	0
82	3/18/2017	3:11:51	0	0	0	0	0.1	0
83	3/18/2017	3:21:51	0	0	0	0	0.1	0
84	3/18/2017	3:31:51	0	0	0	0	0.1	0

85	3/18/2017	3:41:51	0	0	0	0	0.1	0
86	3/18/2017	3:51:51	0	0	0	0	0.1	0
87	3/18/2017	4:01:51	0	0	0	0	0.1	0
88	3/18/2017	4:11:51	0	0	0	0	0.1	0
89	3/18/2017	4:21:51	0	0	0	0	0.1	0
90	3/18/2017	4:31:51	0	0	0	0	0.1	0
91	3/18/2017	4:41:51	0	0	0	0	0.1	0
92	3/18/2017	4:51:51	0	0	0	0	0.1	0
93	3/18/2017	5:01:51	0	0	0	0	0.1	0
94	3/18/2017	5:11:51	0	0	0	0	0.1	0
95	3/18/2017	5:21:51	0	0	0	0	0.1	0
96	3/18/2017	5:31:51	0	0	0	0	0.1	0
97	3/18/2017	5:41:51	0	0	0	0	0.1	0
98	3/18/2017	5:51:51	0	0	0	0	0.1	0
99	3/18/2017	6:01:51	0	0	0	0	0.1	0
100	3/18/2017	6:11:51	0	0	0	0	0.1	0
101	3/18/2017	6:21:51	0	0	0	0	0.1	0
102	3/18/2017	6:31:51	0	0	0	0	0.1	0
103	3/18/2017	6:41:51	0	0	0	0	0.1	0
104	3/18/2017	6:51:51	0	0	0	0	0.1	0
105	3/18/2017	7:01:51	0	0	0	0	0.1	0
106	3/18/2017	7:11:51	0	0	0	0	0.1	0
107	3/18/2017	7:21:51	0	0	0	0	0.1	0
108	3/18/2017	7:31:51	0	0	0	0	0.1	0
109	3/18/2017	7:41:51	0	0	0	0	0.1	0
110	3/18/2017	7:51:51	0	0	0	0	0.1	0
111	3/18/2017	8:01:51	0	0	0	0	0.1	0
112	3/18/2017	8:11:51	0	0	0	0	0.1	0
113	3/18/2017	8:21:51	0	0	0	0	0.1	0
114	3/18/2017	8:31:51	0	0	0	0	0.1	0
115	3/18/2017	8:41:51	0	0	0	0	0.1	0
116	3/18/2017	8:51:51	0	0	0	0	0.1	0
117	3/18/2017	9:01:51	0	0	0	0	0.1	0
118	3/18/2017	9:11:51	0	0	0	0	0.1	0
119	3/18/2017	9:21:51	0	0	0	0	0.1	0
120	3/18/2017	9:31:51	0	0	0	0	0.1	0
121	3/18/2017	9:41:51	0	0	0	0	0.1	0
122	3/18/2017	9:51:51	0	0	0	0	0.1	0
123	3/18/2017	10:01:51	0	0	0	0	0.1	0
124	3/18/2017	10:11:51	0	0	0	0	0.1	0
125	3/18/2017	10:21:51	0	0	0	0	0.1	0
126	3/18/2017	10:31:51	0	0	0	0	0.1	0
127	3/18/2017	10:41:51	0	0	0	0	0.1	0
128	3/18/2017	10:51:51	0	0	0	0	0.1	0
129	3/18/2017	11:01:51	0	0	0	0	0.1	0
130	3/18/2017	11:11:51	0	0	0	0	0.1	0
131	3/18/2017	11:21:51	0	0	0	0	0.1	0
132	3/18/2017	11:31:51	0	0	0	0	0.1	0
133	3/18/2017	11:41:51	0	0	0	0	0.1	0
134	3/18/2017	11:51:51	0	0	0	0	0.1	0
135	3/18/2017	12:01:51	0	0	0	0	0.1	0
136	3/18/2017	12:11:51	0	0	0	0	0.1	0
137	3/18/2017	12:21:51	0	0	0	0	0.1	0
138	3/18/2017	12:31:51	0	0	0	0	0.1	0
139	3/18/2017	12:41:51	0	0	0	0	0.1	0
140	3/18/2017	12:51:51	0	0	0	0	0.1	0









123	3/19/2017	10:01:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.5	0	
124	3/19/2017	10:11:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.8	0
125	3/19/2017	10:21:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.3	0
126	3/19/2017	10:31:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.5	0
127	3/19/2017	10:41:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.4	0.4
128	3/19/2017	10:51:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.7	0
129	3/19/2017	11:01:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.3	0
130	3/19/2017	11:11:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.7	0
131	3/19/2017	11:21:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.5	0
132	3/19/2017	11:31:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.5	0
133	3/19/2017	11:41:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.7	0
134	3/19/2017	11:51:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.5	0
135	3/19/2017	12:01:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.4	0
136	3/19/2017	12:11:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.8	0.7
137	3/19/2017	12:21:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.6	0
138	3/19/2017	12:31:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.6	0
139	3/19/2017	12:41:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.9	0
140	3/19/2017	12:51:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.7	0
141	3/19/2017	13:01:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.7	0.2
142	3/19/2017	13:11:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.4	0
143	3/19/2017	13:21:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.4	0
144	3/19/2017	13:31:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0
Peak			0	0	0	0	21.2	21.2	21.5	21.2	0	0	0	0	0	0	0	0	0	0	0.7	4.4	2.1
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21	21	21	21	0	0	0	0	0	0	0	0	0	0	0	0.3	0

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TWA/STEL

Index	Date/Time		H2S(ppm)		CO(ppm)		VOC(ppm)	
			(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/18/2017	13:41:51	0	---	0	---	0	---
2	3/18/2017	13:51:51	0	0	0	0	0	0
3	3/18/2017	14:01:51	0	0	0	0	0	0
4	3/18/2017	14:11:51	0	0	0	0	0	0
5	3/18/2017	14:21:51	0	0	0	0	0	0
6	3/18/2017	14:31:51	0	0	0	0	0	0
7	3/18/2017	14:41:51	0	0	0	0	0	0
8	3/18/2017	14:51:51	0	0	0	0	0	0
9	3/18/2017	15:01:51	0	0	0	0	0	0
10	3/18/2017	15:11:51	0	0	0	0	0	0
11	3/18/2017	15:21:51	0	0	0	0	0	0
12	3/18/2017	15:31:51	0	0	0	0	0	0
13	3/18/2017	15:41:51	0	0	0	0	0	0
14	3/18/2017	15:51:51	0	0	0	0	0	0
15	3/18/2017	16:01:51	0	0	0	0	0	0
16	3/18/2017	16:11:51	0	0	0	0	0	0
17	3/18/2017	16:21:51	0	0	0	0	0	0
18	3/18/2017	16:31:51	0	0	0	0	0	0
19	3/18/2017	16:41:51	0	0	0	0	0	0
20	3/18/2017	16:51:51	0	0	0	0	0	0
21	3/18/2017	17:01:51	0	0	0	0	0	0
22	3/18/2017	17:11:51	0	0	0	0	0	0
23	3/18/2017	17:21:51	0	0	0	0	0	0
24	3/18/2017	17:31:51	0	0	0	0	0	0
25	3/18/2017	17:41:51	0	0	0	0	0	0
26	3/18/2017	17:51:51	0	0	0	0	0	0

27	3/18/2017	18:01:51	0	0	0	0	0	0
28	3/18/2017	18:11:51	0	0	0	0	0	0
29	3/18/2017	18:21:51	0	0	0	0	0	0
30	3/18/2017	18:31:51	0	0	0	0	0	0
31	3/18/2017	18:41:51	0	0	0	0	0	0
32	3/18/2017	18:51:51	0	0	0	0	0	0
33	3/18/2017	19:01:51	0	0	0	0	0	0
34	3/18/2017	19:11:51	0	0	0	0	0	0
35	3/18/2017	19:21:51	0	0	0	0	0	0
36	3/18/2017	19:31:51	0	0	0	0	0	0
37	3/18/2017	19:41:51	0	0	0	0	0	0
38	3/18/2017	19:51:51	0	0	0	0	0	0
39	3/18/2017	20:01:51	0	0	0	0	0	0
40	3/18/2017	20:11:51	0	0	0	0	0	0
41	3/18/2017	20:21:51	0	0	0	0	0	0
42	3/18/2017	20:31:51	0	0	0	0	0	0
43	3/18/2017	20:41:51	0	0	0	0	0	0
44	3/18/2017	20:51:51	0	0	0	0	0	0
45	3/18/2017	21:01:51	0	0	0	0	0	0
46	3/18/2017	21:11:51	0	0	0	0	0	0
47	3/18/2017	21:21:51	0	0	0	0	0	0
48	3/18/2017	21:31:51	0	0	0	0	0	0
49	3/18/2017	21:41:51	0	0	0	0	0	0
50	3/18/2017	21:51:51	0	0	0	0	0	0
51	3/18/2017	22:01:51	0	0	0	0	0	0
52	3/18/2017	22:11:51	0	0	0	0	0	0
53	3/18/2017	22:21:51	0	0	0	0	0	0
54	3/18/2017	22:31:51	0	0	0	0	0	0
55	3/18/2017	22:41:51	0	0	0	0	0	0
56	3/18/2017	22:51:51	0	0	0	0	0	0
57	3/18/2017	23:01:51	0	0	0	0	0	0
58	3/18/2017	23:11:51	0	0	0	0	0	0
59	3/18/2017	23:21:51	0	0	0	0	0	0
60	3/18/2017	23:31:51	0	0	0	0	0	0
61	3/18/2017	23:41:51	0	0	0	0	0	0
62	3/18/2017	23:51:51	0	0	0	0	0	0
63	3/18/2017	0:01:51	0	0	0	0	0	0
64	3/18/2017	0:11:51	0	0	0	0	0	0
65	3/18/2017	0:21:51	0	0	0	0	0	0
66	3/18/2017	0:31:51	0	0	0	0	0	0
67	3/18/2017	0:41:51	0	0	0	0	0	0
68	3/18/2017	0:51:51	0	0	0	0	0	0
69	3/19/2017	1:01:51	0	0	0	0	0	0
70	3/19/2017	1:11:51	0	0	0	0	0	0
71	3/19/2017	1:21:51	0	0	0	0	0	0
72	3/19/2017	1:31:51	0	0	0	0	0	0
73	3/19/2017	1:41:51	0	0	0	0	0	0
74	3/19/2017	1:51:51	0	0	0	0	0	0
75	3/19/2017	2:01:51	0	0	0	0	0	0
76	3/19/2017	2:11:51	0	0	0	0	0	0
77	3/19/2017	2:21:51	0	0	0	0	0	0
78	3/19/2017	2:31:51	0	0	0	0	0	0
79	3/19/2017	2:41:51	0	0	0	0	0	0
80	3/19/2017	2:51:51	0	0	0	0	0	0
81	3/19/2017	3:01:51	0	0	0	0	0	0
82	3/19/2017	3:11:51	0	0	0	0	0	0.3

83	3/19/2017	3:21:51	0	0	0	0	0	0.3
84	3/19/2017	3:31:51	0	0	0	0	0	0.3
85	3/19/2017	3:41:51	0	0	0	0	0	0.3
86	3/19/2017	3:51:51	0	0	0	0	0	0
87	3/19/2017	4:01:51	0	0	0	0	0	0
88	3/19/2017	4:11:51	0	0	0	0	0	0
89	3/19/2017	4:21:51	0	0	0	0	0	0
90	3/19/2017	4:31:51	0	0	0	0	0	0
91	3/19/2017	4:41:51	0	0	0	0	0	0
92	3/19/2017	4:51:51	0	0	0	0	0	0.2
93	3/19/2017	5:01:51	0	0	0	0	0.1	1.6
94	3/19/2017	5:11:51	0	0	0	0	0.1	1.4
95	3/19/2017	5:21:51	0	0	0	0	0.1	0
96	3/19/2017	5:31:51	0	0	0	0	0.1	0
97	3/19/2017	5:41:51	0	0	0	0	0.1	0
98	3/19/2017	5:51:51	0	0	0	0	0.1	0
99	3/19/2017	6:01:51	0	0	0	0	0.1	0
100	3/19/2017	6:11:51	0	0	0	0	0.1	0
101	3/19/2017	6:21:51	0	0	0	0	0.1	0
102	3/19/2017	6:31:51	0	0	0	0	0.1	0.3
103	3/19/2017	6:41:51	0	0	0	0	0.1	0.3
104	3/19/2017	6:51:51	0	0	0	0	0.1	0
105	3/19/2017	7:01:51	0	0	0	0	0.1	0
106	3/19/2017	7:11:51	0	0	0	0	0.1	0.1
107	3/19/2017	7:21:51	0	0	0	0	0.1	0.4
108	3/19/2017	7:31:51	0	0	0	0	0.1	0.3
109	3/19/2017	7:41:51	0	0	0	0	0.1	0
110	3/19/2017	7:51:51	0	0	0	0	0.1	0
111	3/19/2017	8:01:51	0	0	0	0	0.1	0
112	3/19/2017	8:11:51	0	0	0	0	0.1	0
113	3/19/2017	8:21:51	0	0	0	0	0.1	0
114	3/19/2017	8:31:51	0	0	0	0	0.1	0
115	3/19/2017	8:41:51	0	0	0	0	0.1	0.1
116	3/19/2017	8:51:51	0	0	0	0	0.1	0.1
117	3/19/2017	9:01:51	0	0	0	0	0.1	0
118	3/19/2017	9:11:51	0	0	0	0	0.1	0
119	3/19/2017	9:21:51	0	0	0	0	0.1	0.1
120	3/19/2017	9:31:51	0	0	0	0	0.1	0.1
121	3/19/2017	9:41:51	0	0	0	0	0.1	0.2
122	3/19/2017	9:51:51	0	0	0	0	0.1	0.2
123	3/19/2017	10:01:51	0	0	0	0	0.1	0
124	3/19/2017	10:11:51	0	0	0	0	0.1	0
125	3/19/2017	10:21:51	0	0	0	0	0.1	0
126	3/19/2017	10:31:51	0	0	0	0	0.1	0
127	3/19/2017	10:41:51	0	0	0	0	0.1	0.3
128	3/19/2017	10:51:51	0	0	0	0	0.1	0.3
129	3/19/2017	11:01:51	0	0	0	0	0.1	0
130	3/19/2017	11:11:51	0	0	0	0	0.1	0
131	3/19/2017	11:21:51	0	0	0	0	0.1	0
132	3/19/2017	11:31:51	0	0	0	0	0.1	0
133	3/19/2017	11:41:51	0	0	0	0	0.1	0
134	3/19/2017	11:51:51	0	0	0	0	0.1	0
135	3/19/2017	12:01:51	0	0	0	0	0.1	0
136	3/19/2017	12:11:51	0	0	0	0	0.1	0.5
137	3/19/2017	12:21:51	0	0	0	0	0.1	0.5
138	3/19/2017	12:31:51	0	0	0	0	0.1	0









121	3/20/2017	9:41:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
122	3/20/2017	9:51:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
123	3/20/2017	10:01:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
124	3/20/2017	10:11:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
125	3/20/2017	10:21:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0
126	3/20/2017	10:31:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	1.5	1.5
127	3/20/2017	10:41:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	1.9	1.9
128	3/20/2017	10:51:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	1.9	0.3
129	3/20/2017	11:01:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.3	2.7	0
130	3/20/2017	11:11:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.4	2.4	0.1
131	3/20/2017	11:21:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0
132	3/20/2017	11:31:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0
133	3/20/2017	11:41:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0
134	3/20/2017	11:51:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
135	3/20/2017	12:01:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
136	3/20/2017	12:11:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	0
137	3/20/2017	12:21:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.3	0
138	3/20/2017	12:31:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
139	3/20/2017	12:41:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0
140	3/20/2017	12:51:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
141	3/20/2017	13:01:51	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0
Peak			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	3	5.9	12	8.9
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0.2	0.8	2	0.8

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TWA/STEL

Index	Date/Time	H2S(ppm)		CO(ppm)		VOC(ppm)	
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/19/2017 13:41:51	0	---	0	---	0	---
2	3/19/2017 13:51:51	0	0	0	0	0	0
3	3/19/2017 14:01:51	0	0	0	0	0	0
4	3/19/2017 14:11:51	0	0	0	0	0	0
5	3/19/2017 14:21:51	0	0	0	0	0	0
6	3/19/2017 14:31:51	0	0	0	0	0	0
7	3/19/2017 14:41:51	0	0	0	0	0	0
8	3/19/2017 14:51:51	0	0	0	0	0	0
9	3/19/2017 15:01:51	0	0	0	0	0	0
10	3/19/2017 15:11:51	0	0	0	0	0	0
11	3/19/2017 15:21:51	0	0	0	0	0	0
12	3/19/2017 15:31:51	0	0	0	0	0	0
13	3/19/2017 15:41:51	0	0	0	0	0	0
14	3/19/2017 15:51:51	0	0	0	0	0	0
15	3/19/2017 16:01:51	0	0	0	0	0	0
16	3/19/2017 16:11:51	0	0	0	0	0	0
17	3/19/2017 16:21:51	0	0	0	0	0	0
18	3/19/2017 16:31:51	0	0	0	0	0	0
19	3/19/2017 16:41:51	0	0	0	0	0	0
20	3/19/2017 16:51:51	0	0	0	0	0	0
21	3/19/2017 17:01:51	0	0	0	0	0	0
22	3/19/2017 17:11:51	0	0	0	0	0	0
23	3/19/2017 17:21:51	0	0	0	0	0	0
24	3/19/2017 17:31:51	0	0	0	0	0	0
25	3/19/2017 17:41:51	0	0	0	0	0	0
26	3/19/2017 17:51:51	0	0	0	0	0	0
27	3/19/2017 18:01:51	0	0	0	0	0	0

28	3/19/2017	18:11:51	0	0	0	0	0	0
29	3/19/2017	18:21:51	0	0	0	0	0	0
30	3/19/2017	18:31:51	0	0	0	0	0	0
31	3/19/2017	18:41:51	0	0	0	0	0	0
32	3/19/2017	18:51:51	0	0	0	0	0	0
33	3/19/2017	19:01:51	0	0	0	0	0	0
34	3/19/2017	19:11:51	0	0	0	0	0	0
35	3/19/2017	19:21:51	0	0	0	0	0	0
36	3/19/2017	19:31:51	0	0	0	0	0	0
37	3/19/2017	19:41:51	0	0	0	0	0	0
38	3/19/2017	19:51:51	0	0	0	0	0	0
39	3/19/2017	20:01:51	0	0	0	0	0	0
40	3/19/2017	20:11:51	0	0	0	0	0	0
41	3/19/2017	20:21:51	0	0	0	0	0	0
42	3/19/2017	20:31:51	0	0	0	0	0	0
43	3/19/2017	20:41:51	0	0	0	0	0	0
44	3/19/2017	20:51:51	0	0	0	0	0	0.1
45	3/19/2017	21:01:51	0	0	0	0	0	0.1
46	3/19/2017	21:11:51	0	0	0	0	0	0.3
47	3/19/2017	21:21:51	0	0	0	0	0	0.3
48	3/19/2017	21:31:51	0	0	0	0	0	1.1
49	3/19/2017	21:41:51	0	0	0	0	0	1.1
50	3/19/2017	21:51:51	0	0	0	0	0	0
51	3/19/2017	22:01:51	0	0	0	0	0	0
52	3/19/2017	22:11:51	0	0	0	0	0	0
53	3/19/2017	22:21:51	0	0	0	0	0	0
54	3/19/2017	22:31:51	0	0	0	0	0.1	0.2
55	3/19/2017	22:41:51	0	0	0	0	0.1	0.2
56	3/19/2017	22:51:51	0	0	0	0	0.1	0
57	3/19/2017	23:01:51	0	0	0	0	0.1	0
58	3/19/2017	23:11:51	0	0	0	0	0.1	0
59	3/19/2017	23:21:51	0	0	0	0	0.1	0.2
60	3/19/2017	23:31:51	0	0	0	0	0.1	0.2
61	3/19/2017	23:41:51	0	0	0	0	0.1	0
62	3/19/2017	23:51:51	0	0	0	0	0.1	0
63	3/19/2017	0:01:51	0	0	0	0	0.1	0
64	3/19/2017	0:11:51	0	0	0	0	0.1	0
65	3/19/2017	0:21:51	0	0	0	0	0.1	0
66	3/19/2017	0:31:51	0	0	0	0	0.1	0
67	3/19/2017	0:41:51	0	0	0	0	0.1	0
68	3/19/2017	0:51:51	0	0	0	0	0.1	1.3
69	3/20/2017	1:01:51	0	0	0	0	0.1	1.3
70	3/20/2017	1:11:51	0	0	0	0	0.1	0
71	3/20/2017	1:21:51	0	0	0	0	0.1	1.1
72	3/20/2017	1:31:51	0	0	0	0	0.1	1.1
73	3/20/2017	1:41:51	0	0	0	0	0.1	0
74	3/20/2017	1:51:51	0	0	0	0	0.1	0
75	3/20/2017	2:01:51	0	0	0	0	0.1	0
76	3/20/2017	2:11:51	0	0	0	0	0.1	0
77	3/20/2017	2:21:51	0	0	0	0	0.1	0
78	3/20/2017	2:31:51	0	0	0	0	0.1	0
79	3/20/2017	2:41:51	0	0	0	0	0.1	0
80	3/20/2017	2:51:51	0	0	0	0	0.2	1.8
81	3/20/2017	3:01:51	0	0	0	0	0.3	6.5
82	3/20/2017	3:11:51	0	0	0	0	0.3	4.7
83	3/20/2017	3:21:51	0	0	0	0	0.3	0.3

84	3/20/2017	3:31:51	0	0	0	0	0.4	2.5
85	3/20/2017	3:41:51	0	0	0	0	0.4	2.4
86	3/20/2017	3:51:51	0	0	0	0	0.4	0.7
87	3/20/2017	4:01:51	0	0	0	0	0.5	2.1
88	3/20/2017	4:11:51	0	0	0	0	0.7	7.5
89	3/20/2017	4:21:51	0	0	0	0	0.8	10.9
90	3/20/2017	4:31:51	0	0	0	0	1	9.7
91	3/20/2017	4:41:51	0	0	0	0	1.1	8.7
92	3/20/2017	4:51:51	0	0	0	0	1.1	5
93	3/20/2017	5:01:51	0	0	0	0	1.3	5.2
94	3/20/2017	5:11:51	0	0	0	0	1.3	5.9
95	3/20/2017	5:21:51	0	0	0	0	1.3	2.6
96	3/20/2017	5:31:51	0	0	0	0	1.5	5
97	3/20/2017	5:41:51	0	0	0	0	1.6	7.7
98	3/20/2017	5:51:51	0	0	0	0	1.7	7.4
99	3/20/2017	6:01:51	0	0	0	0	1.7	4.3
100	3/20/2017	6:11:51	0	0	0	0	1.7	0.7
101	3/20/2017	6:21:51	0	0	0	0	1.7	0.8
102	3/20/2017	6:31:51	0	0	0	0	1.8	2.1
103	3/20/2017	6:41:51	0	0	0	0	1.8	1.9
104	3/20/2017	6:51:51	0	0	0	0	1.9	3.8
105	3/20/2017	7:01:51	0	0	0	0	2.1	8.3
106	3/20/2017	7:11:51	0	0	0	0	2.1	5.5
107	3/20/2017	7:21:51	0	0	0	0	2.2	3.7
108	3/20/2017	7:31:51	0	0	0	0	2.2	3.4
109	3/20/2017	7:41:51	0	0	0	0	2.2	0.5
110	3/20/2017	7:51:51	0	0	0	0	2.2	1.1
111	3/20/2017	8:01:51	0	0	0	0	2.2	0.9
112	3/20/2017	8:11:51	0	0	0	0	2.2	0.3
113	3/20/2017	8:21:51	0	0	0	0	2.2	0.9
114	3/20/2017	8:31:51	0	0	0	0	2.3	0.9
115	3/20/2017	8:41:51	0	0	0	0	2.3	0.4
116	3/20/2017	8:51:51	0	0	0	0	2.3	0.3
117	3/20/2017	9:01:51	0	0	0	0	2.3	0.3
118	3/20/2017	9:11:51	0	0	0	0	2.3	0.1
119	3/20/2017	9:21:51	0	0	0	0	2.3	0
120	3/20/2017	9:31:51	0	0	0	0	2.3	0
121	3/20/2017	9:41:51	0	0	0	0	2.3	0
122	3/20/2017	9:51:51	0	0	0	0	2.3	0
123	3/20/2017	10:01:51	0	0	0	0	2.3	0
124	3/20/2017	10:11:51	0	0	0	0	2.3	0
125	3/20/2017	10:21:51	0	0	0	0	2.3	0
126	3/20/2017	10:31:51	0	0	0	0	2.3	1
127	3/20/2017	10:41:51	0	0	0	0	2.3	2.3
128	3/20/2017	10:51:51	0	0	0	0	2.3	1.5
129	3/20/2017	11:01:51	0	0	0	0	2.3	0.2
130	3/20/2017	11:11:51	0	0	0	0	2.3	0.1
131	3/20/2017	11:21:51	0	0	0	0	2.3	0.1
132	3/20/2017	11:31:51	0	0	0	0	2.3	0
133	3/20/2017	11:41:51	0	0	0	0	2.3	0
134	3/20/2017	11:51:51	0	0	0	0	2.3	0
135	3/20/2017	12:01:51	0	0	0	0	2.3	0
136	3/20/2017	12:11:51	0	0	0	0	2.3	0
137	3/20/2017	12:21:51	0	0	0	0	2.3	0
138	3/20/2017	12:31:51	0	0	0	0	2.3	0
139	3/20/2017	12:41:51	0	0	0	0	2.3	0

140	3/20/2017	12:51:51	0	0	0	0	2.3	0
141	3/20/2017	13:01:51	0	0	0	0	2.3	0

17/03/16 8:34

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Summary

Unit Name MultiRAE(PGM-6228)
Unit SN MBB3Z034P9
Unit Firmware Ver V1.18

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Power Down

Site ID 3
User ID 1

Begin 3/16/2017 8:34:18

End 3/16/2017 8:56:29

Sample Period(s) 30
Number of Records 44

Vertical Sparge Cluster at Browns Creek

Table with sensor data including LEL(%LEL), OXY(%), H2S(ppm), CO(ppm), and VOC(ppm) for various sensors and measurement types.

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Datalog

Datalog table with columns for Index, Date/Time, LEL(%LEL) (Min, Avg, Max, Real), OXY(%), H2S(ppm), CO(ppm), and VOC(ppm).

14	3/16/2017	8:41:18	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
15	3/16/2017	8:41:48	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
16	3/16/2017	8:42:18	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
17	3/16/2017	8:42:48	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
18	3/16/2017	8:43:18	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
19	3/16/2017	8:43:48	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0
20	3/16/2017	8:44:18	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
21	3/16/2017	8:44:48	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0.1	0.1
22	3/16/2017	8:45:18	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.1	0.1
23	3/16/2017	8:45:48	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.2	0.3	0.3
24	3/16/2017	8:46:18	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0.2	0.3	0.6	0.2
25	3/16/2017	8:46:48	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.1	0.2	0
26	3/16/2017	8:47:18	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
27	3/16/2017	8:47:48	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
28	3/16/2017	8:48:18	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.1	0
29	3/16/2017	8:48:48	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.1	0.4	0
30	3/16/2017	8:49:18	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.1	0.2	0.2
31	3/16/2017	8:49:48	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.1	0
32	3/16/2017	8:50:18	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
33	3/16/2017	8:50:48	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.1
34	3/16/2017	8:51:18	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.1
35	3/16/2017	8:51:48	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
36	3/16/2017	8:52:18	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
37	3/16/2017	8:52:48	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1
38	3/16/2017	8:53:18	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.1	0
39	3/16/2017	8:53:48	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
40	3/16/2017	8:54:18	0	0	0	0	20.9	21	21.1	20.9	0	0	0	0	0	0	0	0	0	0	0	0
41	3/16/2017	8:54:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
42	3/16/2017	8:55:18	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
43	3/16/2017	8:55:48	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.2
44	3/16/2017	8:56:18	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0
Peak			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.2	0.3	0.6	0.3
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.1	0

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TWA/STEL

Index	Date/Time	H2S(ppm)		CO(ppm)		VOC(ppm)	
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/16/2017 8:34:48	0	---	0	---	---	---
2	3/16/2017 8:35:18	0	---	0	---	0	---
3	3/16/2017 8:35:48	0	---	0	---	0	---
4	3/16/2017 8:36:18	0	---	0	---	0	---
5	3/16/2017 8:36:48	0	---	0	---	0	---
6	3/16/2017 8:37:18	0	---	0	---	0	---
7	3/16/2017 8:37:48	0	---	0	---	0	---
8	3/16/2017 8:38:18	0	---	0	---	0	---
9	3/16/2017 8:38:48	0	---	0	---	0	---
10	3/16/2017 8:39:18	0	---	0	---	0	---
11	3/16/2017 8:39:48	0	---	0	---	0	---
12	3/16/2017 8:40:18	0	---	0	---	0	---
13	3/16/2017 8:40:48	0	---	0	---	0	---
14	3/16/2017 8:41:18	0	---	0	---	0	---
15	3/16/2017 8:41:48	0	---	0	---	0	---
16	3/16/2017 8:42:18	0	---	0	---	0	---
17	3/16/2017 8:42:48	0	---	0	---	0	---

18	3/16/2017	8:43:18	0	---	0	---	0	---
19	3/16/2017	8:43:48	0	---	0	---	0	---
20	3/16/2017	8:44:18	0	---	0	---	0	---
21	3/16/2017	8:44:48	0	---	0	---	0	---
22	3/16/2017	8:45:18	0	---	0	---	0	---
23	3/16/2017	8:45:48	0	---	0	---	0	---
24	3/16/2017	8:46:18	0	---	0	---	0	---
25	3/16/2017	8:46:48	0	---	0	---	0	---
26	3/16/2017	8:47:18	0	---	0	---	0	---
27	3/16/2017	8:47:48	0	---	0	---	0	---
28	3/16/2017	8:48:18	0	---	0	---	0	---
29	3/16/2017	8:48:48	0	---	0	---	0	---
30	3/16/2017	8:49:18	0	0	0	0	0	---
31	3/16/2017	8:49:48	0	0	0	0	0	0
32	3/16/2017	8:50:18	0	0	0	0	0	0
33	3/16/2017	8:50:48	0	0	0	0	0	0
34	3/16/2017	8:51:18	0	0	0	0	0	0
35	3/16/2017	8:51:48	0	0	0	0	0	0
36	3/16/2017	8:52:18	0	0	0	0	0	0
37	3/16/2017	8:52:48	0	0	0	0	0	0
38	3/16/2017	8:53:18	0	0	0	0	0	0
39	3/16/2017	8:53:48	0	0	0	0	0	0
40	3/16/2017	8:54:18	0	0	0	0	0	0
41	3/16/2017	8:54:48	0	0	0	0	0	0
42	3/16/2017	8:55:18	0	0	0	0	0	0
43	3/16/2017	8:55:48	0	0	0	0	0	0.1
44	3/16/2017	8:56:18	0	0	0	0	0	0.1

17/03/16 8:59

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Summary

Unit Name MultiRAE(PGM-6228)  
Unit SN MBB3Z034P9  
Unit Firmware Ver V1.18

Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No  
Stop Reason Power Down

Site ID 3  
User ID 1

Begin 3/16/2017 8:59:15  
End 3/16/2017 9:14:31  
Sample Period(s) 30  
Number of Records 30

**SW-12**

Sensor	LEL(%LEL)	OXY(%)	H2S(ppm)	CO(ppm)	VOC(ppm)	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	
Sensor SN	SC0311019 SC0342040 SC03AR008 SC0306004 SC03A40140P7																			
Measure Type	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real
Span	50	18	1	50	10															
Span	2 N/A	N/A	N/A	N/A	1000															
Low Alarm	10	19.5	10	5	50															



High Alarm	20	23.5	20	200	100
Over Alarm	100	30	100	500	5000
STEL Alarm	N/A	N/A	15	100	25
TWA Alarm	N/A	N/A	10	35	10
Measurment Gas(CF)	Methane(1	N/A	N/A	Isobutylene(1.00)	
Calibration Time	3/2/2017 10:44	3/2/2017 10:44	3/2/2017 10:47	3/2/2017 10:44	3/2/2017 10:45
Peak	0	20.9	0	0	0
Min	0	20.9	0	0	0
Average	0	20.9	0	0	0

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Datalog

Index	Date/Time	LEL(%LEL)				OXY(%)				H2S(ppm)				CO(ppm)				VOC(ppm)				
		(Min)	(Avg)	(Max)	(Real)	(Min)	(Avg)	(Max)	(Real)	(Min)	(Avg)	(Max)	(Real)	(Min)	(Avg)	(Max)	(Real)	(Min)	(Avg)	(Max)	(Real)	
1	3/16/2017 8:59:45	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
2	3/16/2017 9:00:15	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
3	3/16/2017 9:00:45	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
4	3/16/2017 9:01:15	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
5	3/16/2017 9:01:45	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
6	3/16/2017 9:02:15	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
7	3/16/2017 9:02:45	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
8	3/16/2017 9:03:15	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
9	3/16/2017 9:03:45	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
10	3/16/2017 9:04:15	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
11	3/16/2017 9:04:45	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
12	3/16/2017 9:05:15	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
13	3/16/2017 9:05:45	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
14	3/16/2017 9:06:15	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
15	3/16/2017 9:06:45	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
16	3/16/2017 9:07:15	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
17	3/16/2017 9:07:45	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
18	3/16/2017 9:08:15	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
19	3/16/2017 9:08:45	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
20	3/16/2017 9:09:15	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
21	3/16/2017 9:09:45	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
22	3/16/2017 9:10:15	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
23	3/16/2017 9:10:45	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
24	3/16/2017 9:11:15	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
25	3/16/2017 9:11:45	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
26	3/16/2017 9:12:15	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
27	3/16/2017 9:12:45	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
28	3/16/2017 9:13:15	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
29	3/16/2017 9:13:45	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
30	3/16/2017 9:14:15	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak		0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
Min		0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
Average		0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm)		CO(ppm)		VOC(ppm)	
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/16/2017 8:59:45	0	---	0	---	---	---
2	3/16/2017 9:00:15	0	---	0	---	0	---
3	3/16/2017 9:00:45	0	---	0	---	0	---
4	3/16/2017 9:01:15	0	---	0	---	0	---





44	3/16/2017	10:13:24	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.4	1.5	1
45	3/16/2017	10:13:54	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.3	1.2	0
46	3/16/2017	10:14:24	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.3	1.3	0.3
47	3/16/2017	10:14:54	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0.1	0.4	0
48	3/16/2017	10:15:24	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0.2	0.1
49	3/16/2017	10:15:54	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1
Peak			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.1	0.4	1.5	1
Min			0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.1	0.3	0.1

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TWA/STEL

Index	Date/Time		H2S(ppm)		CO(ppm)		VOC(ppm)	
			(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/16/2017	9:51:54	0	---	0	---	---	
2	3/16/2017	9:52:24	0	---	0	---	0	---
3	3/16/2017	9:52:54	0	---	0	---	0	---
4	3/16/2017	9:53:24	0	---	0	---	0	---
5	3/16/2017	9:53:54	0	---	0	---	0	---
6	3/16/2017	9:54:24	0	---	0	---	0	---
7	3/16/2017	9:54:54	0	---	0	---	0	---
8	3/16/2017	9:55:24	0	---	0	---	0	---
9	3/16/2017	9:55:54	0	---	0	---	0	---
10	3/16/2017	9:56:24	0	---	0	---	0	---
11	3/16/2017	9:56:54	0	---	0	---	0	---
12	3/16/2017	9:57:24	0	---	0	---	0	---
13	3/16/2017	9:57:54	0	---	0	---	0	---
14	3/16/2017	9:58:24	0	---	0	---	0	---
15	3/16/2017	9:58:54	0	---	0	---	0	---
16	3/16/2017	9:59:24	0	---	0	---	0	---
17	3/16/2017	9:59:54	0	---	0	---	0	---
18	3/16/2017	10:00:24	0	---	0	---	0	---
19	3/16/2017	10:00:54	0	---	0	---	0	---
20	3/16/2017	10:01:24	0	---	0	---	0	---
21	3/16/2017	10:01:54	0	---	0	---	0	---
22	3/16/2017	10:02:24	0	---	0	---	0	---
23	3/16/2017	10:02:54	0	---	0	---	0	---
24	3/16/2017	10:03:24	0	---	0	---	0	---
25	3/16/2017	10:03:54	0	---	0	---	0	---
26	3/16/2017	10:04:24	0	---	0	---	0	---
27	3/16/2017	10:04:54	0	---	0	---	0	---
28	3/16/2017	10:05:24	0	---	0	---	0	---
29	3/16/2017	10:05:54	0	---	0	---	0	---
30	3/16/2017	10:06:24	0	0	0	0	0	---
31	3/16/2017	10:06:54	0	0	0	0	0	0.1
32	3/16/2017	10:07:24	0	0	0	0	0	0.1
33	3/16/2017	10:07:54	0	0	0	0	0	0.1
34	3/16/2017	10:08:24	0	0	0	0	0	0.1
35	3/16/2017	10:08:54	0	0	0	0	0	0.1
36	3/16/2017	10:09:24	0	0	0	0	0	0.1
37	3/16/2017	10:09:54	0	0	0	0	0	0.1
38	3/16/2017	10:10:24	0	0	0	0	0	0.1
39	3/16/2017	10:10:54	0	0	0	0	0	0.1
40	3/16/2017	10:11:24	0	0	0	0	0	0.1
41	3/16/2017	10:11:54	0	0	0	0	0	0.1
42	3/16/2017	10:12:24	0	0	0	0	0	0.1



7	3/16/2017	11:19:01	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
8	3/16/2017	11:19:31	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
9	3/16/2017	11:20:01	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
10	3/16/2017	11:20:31	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
11	3/16/2017	11:21:01	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
12	3/16/2017	11:21:31	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
13	3/16/2017	11:22:01	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
14	3/16/2017	11:22:31	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
15	3/16/2017	11:23:01	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
16	3/16/2017	11:23:31	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
17	3/16/2017	11:24:01	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
18	3/16/2017	11:24:31	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
19	3/16/2017	11:25:01	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
20	3/16/2017	11:25:31	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
21	3/16/2017	11:26:01	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
22	3/16/2017	11:26:31	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
23	3/16/2017	11:27:01	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
24	3/16/2017	11:27:31	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
25	3/16/2017	11:28:01	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
26	3/16/2017	11:28:31	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
27	3/16/2017	11:29:01	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
28	3/16/2017	11:29:31	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
29	3/16/2017	11:30:01	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
30	3/16/2017	11:30:31	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm)		CO(ppm)		VOC(ppm)	
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/16/2017 11:16:01	0	---	0	---	---	---
2	3/16/2017 11:16:31	0	---	0	---	0	---
3	3/16/2017 11:17:01	0	---	0	---	0	---
4	3/16/2017 11:17:31	0	---	0	---	0	---
5	3/16/2017 11:18:01	0	---	0	---	0	---
6	3/16/2017 11:18:31	0	---	0	---	0	---
7	3/16/2017 11:19:01	0	---	0	---	0	---
8	3/16/2017 11:19:31	0	---	0	---	0	---
9	3/16/2017 11:20:01	0	---	0	---	0	---
10	3/16/2017 11:20:31	0	---	0	---	0	---
11	3/16/2017 11:21:01	0	---	0	---	0	---
12	3/16/2017 11:21:31	0	---	0	---	0	---
13	3/16/2017 11:22:01	0	---	0	---	0	---
14	3/16/2017 11:22:31	0	---	0	---	0	---
15	3/16/2017 11:23:01	0	---	0	---	0	---
16	3/16/2017 11:23:31	0	---	0	---	0	---
17	3/16/2017 11:24:01	0	---	0	---	0	---
18	3/16/2017 11:24:31	0	---	0	---	0	---
19	3/16/2017 11:25:01	0	---	0	---	0	---
20	3/16/2017 11:25:31	0	---	0	---	0	---
21	3/16/2017 11:26:01	0	---	0	---	0	---
22	3/16/2017 11:26:31	0	---	0	---	0	---
23	3/16/2017 11:27:01	0	---	0	---	0	---
24	3/16/2017 11:27:31	0	---	0	---	0	---



8	3/16/2017	11:44:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
9	3/16/2017	11:45:17	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
10	3/16/2017	11:45:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
11	3/16/2017	11:46:17	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
12	3/16/2017	11:46:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
13	3/16/2017	11:47:17	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
14	3/16/2017	11:47:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
15	3/16/2017	11:48:17	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
16	3/16/2017	11:48:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
17	3/16/2017	11:49:17	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
18	3/16/2017	11:49:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
19	3/16/2017	11:50:17	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
20	3/16/2017	11:50:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
21	3/16/2017	11:51:17	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
22	3/16/2017	11:51:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
23	3/16/2017	11:52:17	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
24	3/16/2017	11:52:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
25	3/16/2017	11:53:17	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
26	3/16/2017	11:53:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
27	3/16/2017	11:54:17	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
28	3/16/2017	11:54:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
29	3/16/2017	11:55:17	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
30	3/16/2017	11:55:47	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time		H2S(ppm)		CO(ppm)		VOC(ppm)	
			(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/16/2017	11:41:17	0	---	0	---	---	---
2	3/16/2017	11:41:47	0	---	0	---	0	---
3	3/16/2017	11:42:17	0	---	0	---	0	---
4	3/16/2017	11:42:47	0	---	0	---	0	---
5	3/16/2017	11:43:17	0	---	0	---	0	---
6	3/16/2017	11:43:47	0	---	0	---	0	---
7	3/16/2017	11:44:17	0	---	0	---	0	---
8	3/16/2017	11:44:47	0	---	0	---	0	---
9	3/16/2017	11:45:17	0	---	0	---	0	---
10	3/16/2017	11:45:47	0	---	0	---	0	---
11	3/16/2017	11:46:17	0	---	0	---	0	---
12	3/16/2017	11:46:47	0	---	0	---	0	---
13	3/16/2017	11:47:17	0	---	0	---	0	---
14	3/16/2017	11:47:47	0	---	0	---	0	---
15	3/16/2017	11:48:17	0	---	0	---	0	---
16	3/16/2017	11:48:47	0	---	0	---	0	---
17	3/16/2017	11:49:17	0	---	0	---	0	---
18	3/16/2017	11:49:47	0	---	0	---	0	---
19	3/16/2017	11:50:17	0	---	0	---	0	---
20	3/16/2017	11:50:47	0	---	0	---	0	---
21	3/16/2017	11:51:17	0	---	0	---	0	---
22	3/16/2017	11:51:47	0	---	0	---	0	---
23	3/16/2017	11:52:17	0	---	0	---	0	---
24	3/16/2017	11:52:47	0	---	0	---	0	---
25	3/16/2017	11:53:17	0	---	0	---	0	---





9	3/16/2017	12:05:27	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
10	3/16/2017	12:05:57	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
11	3/16/2017	12:06:27	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
12	3/16/2017	12:06:57	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
13	3/16/2017	12:07:27	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
14	3/16/2017	12:07:57	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
15	3/16/2017	12:08:27	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
16	3/16/2017	12:08:57	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
17	3/16/2017	12:09:27	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
18	3/16/2017	12:09:57	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
19	3/16/2017	12:10:27	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
20	3/16/2017	12:10:57	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
21	3/16/2017	12:11:27	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
22	3/16/2017	12:11:57	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
23	3/16/2017	12:12:27	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
24	3/16/2017	12:12:57	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
25	3/16/2017	12:13:27	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
26	3/16/2017	12:13:57	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
27	3/16/2017	12:14:27	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
28	3/16/2017	12:14:57	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
29	3/16/2017	12:15:27	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
30	3/16/2017	12:15:57	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/16/2017 12:01:27	0 ---		0 ---		---	
2	3/16/2017 12:01:57	0 ---		0 ---		0 ---	
3	3/16/2017 12:02:27	0 ---		0 ---		0 ---	
4	3/16/2017 12:02:57	0 ---		0 ---		0 ---	
5	3/16/2017 12:03:27	0 ---		0 ---		0 ---	
6	3/16/2017 12:03:57	0 ---		0 ---		0 ---	
7	3/16/2017 12:04:27	0 ---		0 ---		0 ---	
8	3/16/2017 12:04:57	0 ---		0 ---		0 ---	
9	3/16/2017 12:05:27	0 ---		0 ---		0 ---	
10	3/16/2017 12:05:57	0 ---		0 ---		0 ---	
11	3/16/2017 12:06:27	0 ---		0 ---		0 ---	
12	3/16/2017 12:06:57	0 ---		0 ---		0 ---	
13	3/16/2017 12:07:27	0 ---		0 ---		0 ---	
14	3/16/2017 12:07:57	0 ---		0 ---		0 ---	
15	3/16/2017 12:08:27	0 ---		0 ---		0 ---	
16	3/16/2017 12:08:57	0 ---		0 ---		0 ---	
17	3/16/2017 12:09:27	0 ---		0 ---		0 ---	
18	3/16/2017 12:09:57	0 ---		0 ---		0 ---	
19	3/16/2017 12:10:27	0 ---		0 ---		0 ---	
20	3/16/2017 12:10:57	0 ---		0 ---		0 ---	
21	3/16/2017 12:11:27	0 ---		0 ---		0 ---	
22	3/16/2017 12:11:57	0 ---		0 ---		0 ---	
23	3/16/2017 12:12:27	0 ---		0 ---		0 ---	
24	3/16/2017 12:12:57	0 ---		0 ---		0 ---	
25	3/16/2017 12:13:27	0 ---		0 ---		0 ---	
26	3/16/2017 12:13:57	0 ---		0 ---		0 ---	



10	3/16/2017	13:03:42	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
11	3/16/2017	13:04:12	0	0	0	0	20.9	20.9	21.3	20.9	0	0	0	0	0	0	0	0	0	0	0	0
12	3/16/2017	13:04:42	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
13	3/16/2017	13:05:12	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
14	3/16/2017	13:05:42	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
15	3/16/2017	13:06:12	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
16	3/16/2017	13:06:42	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
17	3/16/2017	13:07:12	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
18	3/16/2017	13:07:42	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
19	3/16/2017	13:08:12	0	0	0	0	20.9	20.9	21.4	21.3	0	0	0	0	0	0	0	0	0	0	0	0
20	3/16/2017	13:08:42	0	0	0	0	20.9	21	21.3	20.9	0	0	0	0	0	0	0	0	0	0	0	0
21	3/16/2017	13:09:12	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
22	3/16/2017	13:09:42	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
23	3/16/2017	13:10:12	0	0	0	0	20.9	20.9	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
24	3/16/2017	13:10:42	0	0	0	0	20.9	21	21.3	20.9	0	0	0	0	0	0	0	0	0	0	0	0
25	3/16/2017	13:11:12	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
26	3/16/2017	13:11:42	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
27	3/16/2017	13:12:12	0	0	0	0	20.9	21.2	21.4	21.3	0	0	0	0	0	0	0	0	0	0	0	0
28	3/16/2017	13:12:42	0	0	0	0	21.2	21.3	21.4	21.2	0	0	0	0	0	0	0	0	0	0	0	0
29	3/16/2017	13:13:12	0	0	0	0	20.9	21	21.2	20.9	0	0	0	0	0	0	0	0	0	0	0	0
30	3/16/2017	13:13:42	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
31	3/16/2017	13:14:12	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	21.2	21.3	21.4	21.3	0	0	0	0	0	0	0	0	0	0	0	0
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	20.9	20.9	21	20.9	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time		H2S(ppm)		CO(ppm)		VOC(ppm)	
			(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/16/2017	12:59:12	0	---	0	---	---	---
2	3/16/2017	12:59:42	0	---	0	---	0	---
3	3/16/2017	13:00:12	0	---	0	---	0	---
4	3/16/2017	13:00:42	0	---	0	---	0	---
5	3/16/2017	13:01:12	0	---	0	---	0	---
6	3/16/2017	13:01:42	0	---	0	---	0	---
7	3/16/2017	13:02:12	0	---	0	---	0	---
8	3/16/2017	13:02:42	0	---	0	---	0	---
9	3/16/2017	13:03:12	0	---	0	---	0	---
10	3/16/2017	13:03:42	0	---	0	---	0	---
11	3/16/2017	13:04:12	0	---	0	---	0	---
12	3/16/2017	13:04:42	0	---	0	---	0	---
13	3/16/2017	13:05:12	0	---	0	---	0	---
14	3/16/2017	13:05:42	0	---	0	---	0	---
15	3/16/2017	13:06:12	0	---	0	---	0	---
16	3/16/2017	13:06:42	0	---	0	---	0	---
17	3/16/2017	13:07:12	0	---	0	---	0	---
18	3/16/2017	13:07:42	0	---	0	---	0	---
19	3/16/2017	13:08:12	0	---	0	---	0	---
20	3/16/2017	13:08:42	0	---	0	---	0	---
21	3/16/2017	13:09:12	0	---	0	---	0	---
22	3/16/2017	13:09:42	0	---	0	---	0	---
23	3/16/2017	13:10:12	0	---	0	---	0	---
24	3/16/2017	13:10:42	0	---	0	---	0	---
25	3/16/2017	13:11:12	0	---	0	---	0	---
26	3/16/2017	13:11:42	0	---	0	---	0	---



9	3/16/2017	13:21:41	0	0	0	0	20.9	21.3	21.4	21.4	0	0	0	0	0	0	0	0	0	0	0	0
10	3/16/2017	13:22:11	0	0	0	0	21.3	21.3	21.4	21.3	0	0	0	0	0	0	0	0	0	0	0	0
11	3/16/2017	13:22:41	0	0	0	0	21.1	21.2	21.3	21.2	0	0	0	0	0	0	0	0	0	0	0	0
12	3/16/2017	13:23:11	0	0	0	0	20.9	21.1	21.2	20.9	0	0	0	0	0	0	0	0	0	0	0	0
13	3/16/2017	13:23:41	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
14	3/16/2017	13:24:11	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
15	3/16/2017	13:24:41	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
16	3/16/2017	13:25:11	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
17	3/16/2017	13:25:41	0	0	0	0	20.9	21	21.3	21.2	0	0	0	0	0	0	0	0	0	0	0	0
18	3/16/2017	13:26:11	0	0	0	0	20.9	21.2	21.4	20.9	0	0	0	0	0	0	0	0	0	0	0	0
19	3/16/2017	13:26:41	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
20	3/16/2017	13:27:11	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
21	3/16/2017	13:27:41	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
22	3/16/2017	13:28:11	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	1	8	8	0	0	0	0
Peak			0	0	0	0	21.3	21.3	21.5	21.5	0	0	0	0	0	1	8	8	0	0	0	0
Min			0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	20.9	21	21.1	21	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm)		CO(ppm)		VOC(ppm)	
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/16/2017 13:17:41	0	---	0	---	---	---
2	3/16/2017 13:18:11	0	---	0	---	0	---
3	3/16/2017 13:18:41	0	---	0	---	0	---
4	3/16/2017 13:19:11	0	---	0	---	0	---
5	3/16/2017 13:19:41	0	---	0	---	0	---
6	3/16/2017 13:20:11	0	---	0	---	0	---
7	3/16/2017 13:20:41	0	---	0	---	0	---
8	3/16/2017 13:21:11	0	---	0	---	0	---
9	3/16/2017 13:21:41	0	---	0	---	0	---
10	3/16/2017 13:22:11	0	---	0	---	0	---
11	3/16/2017 13:22:41	0	---	0	---	0	---
12	3/16/2017 13:23:11	0	---	0	---	0	---
13	3/16/2017 13:23:41	0	---	0	---	0	---
14	3/16/2017 13:24:11	0	---	0	---	0	---
15	3/16/2017 13:24:41	0	---	0	---	0	---
16	3/16/2017 13:25:11	0	---	0	---	0	---
17	3/16/2017 13:25:41	0	---	0	---	0	---
18	3/16/2017 13:26:11	0	---	0	---	0	---
19	3/16/2017 13:26:41	0	---	0	---	0	---
20	3/16/2017 13:27:11	0	---	0	---	0	---
21	3/16/2017 13:27:41	0	---	0	---	0	---
22	3/16/2017 13:28:11	0	---	0	---	0	---

17/03/18 11:12

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Summary

Unit Name MultiRAE(PGM-6228)
Unit SN MBB3Z034P9
Unit Firmware Ver V1.18

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Power Down

Site ID 3
User ID 1

Begin 3/18/2017 11:12:39

End 3/18/2017 11:26:51

SW-12

Sample Period(s) 30
Number of Records 28

Sensor LEL(%LEL) OXY(%) H2S(ppm) CO(ppm) VOC(ppm)
Sensor SN SC0311019 SC034204C SC03AR008 SC0306004 SC03A40140P7

Table with 20 columns: Measure, Type, Min, Avg, Max, Real, Min, Avg, Max, Real, Min, Avg, Max, Real, Min, Avg, Max, Real, Min, Avg, Max, Real. Rows include Span, Low, High, Over, STEL, TWA, Measurement Gas (Methane, Isobutylene), Calibration Time, Peak, Min, and Average.

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Datalog

Table with 22 columns: Index, Date/Time, LEL(%LEL) (Min, Avg, Max, Real), OXY(%) (Min, Avg, Max, Real), H2S(ppm) (Min, Avg, Max, Real), CO(ppm) (Min, Avg, Max, Real), VOC(ppm) (Min, Avg, Max, Real). Rows 1-12 show data for 3/18/2017.

13	3/18/2017	11:19:09	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.2	0.1		
14	3/18/2017	11:19:39	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.1		
15	3/18/2017	11:20:09	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.1	0.4	0		
16	3/18/2017	11:20:39	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0		
17	3/18/2017	11:21:09	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0		
18	3/18/2017	11:21:39	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0		
19	3/18/2017	11:22:09	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0		
20	3/18/2017	11:22:39	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0	
21	3/18/2017	11:23:09	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0.1	0	
22	3/18/2017	11:23:39	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0	
23	3/18/2017	11:24:09	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	
24	3/18/2017	11:24:39	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0	
25	3/18/2017	11:25:09	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0.2	
26	3/18/2017	11:25:39	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0	
27	3/18/2017	11:26:09	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.2	0.4	0.4	
28	3/18/2017	11:26:39	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0.4	0	
Peak			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.1	0.2	0.4	0.4	
Min			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0	
Average			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/18/2017 11:13:09	0	---	0	---	---	---
2	3/18/2017 11:13:39	0	---	0	---	0	---
3	3/18/2017 11:14:09	0	---	0	---	0	---
4	3/18/2017 11:14:39	0	---	0	---	0	---
5	3/18/2017 11:15:09	0	---	0	---	0	---
6	3/18/2017 11:15:39	0	---	0	---	0	---
7	3/18/2017 11:16:09	0	---	0	---	0	---
8	3/18/2017 11:16:39	0	---	0	---	0	---
9	3/18/2017 11:17:09	0	---	0	---	0	---
10	3/18/2017 11:17:39	0	---	0	---	0	---
11	3/18/2017 11:18:09	0	---	0	---	0	---
12	3/18/2017 11:18:39	0	---	0	---	0	---
13	3/18/2017 11:19:09	0	---	0	---	0	---
14	3/18/2017 11:19:39	0	---	0	---	0	---
15	3/18/2017 11:20:09	0	---	0	---	0	---
16	3/18/2017 11:20:39	0	---	0	---	0	---
17	3/18/2017 11:21:09	0	---	0	---	0	---
18	3/18/2017 11:21:39	0	---	0	---	0	---
19	3/18/2017 11:22:09	0	---	0	---	0	---
20	3/18/2017 11:22:39	0	---	0	---	0	---
21	3/18/2017 11:23:09	0	---	0	---	0	---
22	3/18/2017 11:23:39	0	---	0	---	0	---
23	3/18/2017 11:24:09	0	---	0	---	0	---
24	3/18/2017 11:24:39	0	---	0	---	0	---
25	3/18/2017 11:25:09	0	---	0	---	0	---
26	3/18/2017 11:25:39	0	---	0	---	0	---
27	3/18/2017 11:26:09	0	---	0	---	0	---
28	3/18/2017 11:26:39	0	---	0	---	0	---

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17/03/18 11:29

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Summary

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 Unit Name MultiRAE(PGM-6228)  
 Unit SN MBB3Z034P9  
 Unit Firmware Ver V1.18  
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Running Mode Hygiene Mode  
 Datalog Mode Auto  
 Diagnostic Mode No  
 Stop Reason Power Down  
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Site ID 3  
 User ID 1  
 -----

Begin 3/18/2017 11:29:02

End 3/18/2017 11:44:54

Sample Period(s) 30  
 Number of Records 31  
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### Vertical Cluster at Brown's Creek

Sensor	LEL(%LEL)	OXY(%)	H2S(ppm)	CO(ppm)	VOC(ppm)																
Sensor SN	SC0311019 SC034204C SC03AR008 SC0306004 SC03A40140P7																				
Measure Type	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	
Span		50	18	1	50	10															
Span	2	N/A	N/A	N/A	N/A	1000															
Low Alarm		10	19.5	10	5	50															
High Alarm		20	23.5	20	200	100															
Over Alarm		100	30	100	500	5000															
STEL Alarm	N/A	N/A		15	100	25															
TWA Alarm	N/A	N/A		10	35	10															
Measurment Gas(CF)	Methane(1N/A		N/A	N/A	Isobutylene(1.00)																
Calibration Time	3/2/2017	10:44	3/2/2017	10:44	3/2/2017	10:47	3/2/2017	10:44	3/2/2017	10:45											
Peak	0	21.2	0	0	1.3																
Min	0	21.2	0	0	0																
Average	0	21.2	0	0	0.4																

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Datalog

Index	Date/Time	LEL(%LEL) (Min)	LEL(%LEL) (Avg)	LEL(%LEL) (Max)	LEL(%LEL) (Real)	OXY(%) (Min)	OXY(%) (Avg)	OXY(%) (Max)	OXY(%) (Real)	H2S(ppm) (Min)	H2S(ppm) (Avg)	H2S(ppm) (Max)	H2S(ppm) (Real)	CO(ppm) (Min)	CO(ppm) (Avg)	CO(ppm) (Max)	CO(ppm) (Real)	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)	VOC(ppm) (Real)	
1	3/18/2017 11:29:32	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	---	---	---	---
2	3/18/2017 11:30:02	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.6	1.5	0.8
3	3/18/2017 11:30:32	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.2	0.5	0.8	0.4
4	3/18/2017 11:31:02	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.3	0.9	0.4
5	3/18/2017 11:31:32	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.3	1.3	1.3
6	3/18/2017 11:32:02	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.3	1.2	0.1
7	3/18/2017 11:32:32	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0
8	3/18/2017 11:33:02	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
9	3/18/2017 11:33:32	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.1	0.5	0
10	3/18/2017 11:34:02	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.2	1	1
11	3/18/2017 11:34:32	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.3	0.9	0.3
12	3/18/2017 11:35:02	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.3	0.6	0.5
13	3/18/2017 11:35:32	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.2	0.6	1.4	0.5
14	3/18/2017 11:36:02	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.2	0.4	0.7	0.6
15	3/18/2017 11:36:32	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.4	0.8	0.8

16	3/18/2017	11:37:02	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.5	1.1	0.4
17	3/18/2017	11:37:32	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.2	0.5	1.1	0.3
18	3/18/2017	11:38:02	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.3	1	0.1
19	3/18/2017	11:38:32	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.2	0.6	1.3	0.2
20	3/18/2017	11:39:02	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.1	0.3	0.7	0.2
21	3/18/2017	11:39:32	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.2	0.7	0.3
22	3/18/2017	11:40:02	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.4	1.1	0
23	3/18/2017	11:40:32	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.3	0.9	0.1
24	3/18/2017	11:41:02	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.1	0.3	0.6	0.5
25	3/18/2017	11:41:32	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.3	0.5	0.3
26	3/18/2017	11:42:02	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.1	0.3	0.5	0.1
27	3/18/2017	11:42:32	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.3	0.7	0.1
28	3/18/2017	11:43:02	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.1	0.4	0.7	0.3
29	3/18/2017	11:43:32	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.1	0.3	0.4	0.4
30	3/18/2017	11:44:02	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.2	0.6	0.4
31	3/18/2017	11:44:32	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0.3	0.8	0.2
Peak			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.2	0.6	1.5	1.3
Min			0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0.1	0
Average			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0.1	0.3	0.8	0.4

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/18/2017 11:29:32	0	---	0	---	---	---
2	3/18/2017 11:30:02	0	---	0	---	0	---
3	3/18/2017 11:30:32	0	---	0	---	0	---
4	3/18/2017 11:31:02	0	---	0	---	0	---
5	3/18/2017 11:31:32	0	---	0	---	0	---
6	3/18/2017 11:32:02	0	---	0	---	0	---
7	3/18/2017 11:32:32	0	---	0	---	0	---
8	3/18/2017 11:33:02	0	---	0	---	0	---
9	3/18/2017 11:33:32	0	---	0	---	0	---
10	3/18/2017 11:34:02	0	---	0	---	0	---
11	3/18/2017 11:34:32	0	---	0	---	0	---
12	3/18/2017 11:35:02	0	---	0	---	0	---
13	3/18/2017 11:35:32	0	---	0	---	0	---
14	3/18/2017 11:36:02	0	---	0	---	0	---
15	3/18/2017 11:36:32	0	---	0	---	0	---
16	3/18/2017 11:37:02	0	---	0	---	0	---
17	3/18/2017 11:37:32	0	---	0	---	0	---
18	3/18/2017 11:38:02	0	---	0	---	0	---
19	3/18/2017 11:38:32	0	---	0	---	0	---
20	3/18/2017 11:39:02	0	---	0	---	0	---
21	3/18/2017 11:39:32	0	---	0	---	0	---
22	3/18/2017 11:40:02	0	---	0	---	0	---
23	3/18/2017 11:40:32	0	---	0	---	0	---
24	3/18/2017 11:41:02	0	---	0	---	0	---
25	3/18/2017 11:41:32	0	---	0	---	0	---
26	3/18/2017 11:42:02	0	---	0	---	0	---
27	3/18/2017 11:42:32	0	---	0	---	0	---
28	3/18/2017 11:43:02	0	---	0	---	0	---
29	3/18/2017 11:43:32	0	---	0	---	0	---
30	3/18/2017 11:44:02	0	0	0	0	0	---
31	3/18/2017 11:44:32	0	0	0	0	0	0.4

17/03/18 11:48

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Summary

Unit Name MultiRAE(PGM-6228)
Unit SN MBB3Z034P9
Unit Firmware Ver V1.18

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Power Down

Site ID 3
User ID 1

Begin 3/18/2017 11:48:40

End 3/18/2017 12:03:54

Sample Period(s) 30
Number of Records 30

SW-03

Sensor LEL(%LEL) OXY(%) H2S(ppm) CO(ppm) VOC(ppm)
Sensor SN SC0311019 SC034204C SC03AR008 SC0306004 SC03A40140P7

Table with 20 columns: Measure, Type, Min, Avg, Max, Real, Min, Avg, Max, Real, Min, Avg, Max, Real, Min, Avg, Max, Real, Min, Avg, Max, Real. Rows include Span, Low, High, Over, STEL, TWA, Calibration Time, Peak, Min, Average.

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Datalog

Table with 22 columns: Index, Date/Time, LEL(%LEL) (Min, Avg, Max, Real), OXY(%) (Min, Avg, Max, Real), H2S(ppm) (Min, Avg, Max, Real), CO(ppm) (Min, Avg, Max, Real), VOC(ppm) (Min, Avg, Max, Real). Rows 1-12.

13	3/18/2017	11:55:10	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
14	3/18/2017	11:55:40	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
15	3/18/2017	11:56:10	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
16	3/18/2017	11:56:40	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
17	3/18/2017	11:57:10	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
18	3/18/2017	11:57:40	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0
19	3/18/2017	11:58:10	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0
20	3/18/2017	11:58:40	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
21	3/18/2017	11:59:10	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
22	3/18/2017	11:59:40	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
23	3/18/2017	12:00:10	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
24	3/18/2017	12:00:40	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
25	3/18/2017	12:01:10	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
26	3/18/2017	12:01:40	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
27	3/18/2017	12:02:10	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
28	3/18/2017	12:02:40	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0
29	3/18/2017	12:03:10	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
30	3/18/2017	12:03:40	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
Min			0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm)	H2S(ppm)	CO(ppm)	CO(ppm)	VOC(ppm)	VOC(ppm)
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/18/2017 11:49:10	0	---	0	---	---	---
2	3/18/2017 11:49:40	0	---	0	---	0	---
3	3/18/2017 11:50:10	0	---	0	---	0	---
4	3/18/2017 11:50:40	0	---	0	---	0	---
5	3/18/2017 11:51:10	0	---	0	---	0	---
6	3/18/2017 11:51:40	0	---	0	---	0	---
7	3/18/2017 11:52:10	0	---	0	---	0	---
8	3/18/2017 11:52:40	0	---	0	---	0	---
9	3/18/2017 11:53:10	0	---	0	---	0	---
10	3/18/2017 11:53:40	0	---	0	---	0	---
11	3/18/2017 11:54:10	0	---	0	---	0	---
12	3/18/2017 11:54:40	0	---	0	---	0	---
13	3/18/2017 11:55:10	0	---	0	---	0	---
14	3/18/2017 11:55:40	0	---	0	---	0	---
15	3/18/2017 11:56:10	0	---	0	---	0	---
16	3/18/2017 11:56:40	0	---	0	---	0	---
17	3/18/2017 11:57:10	0	---	0	---	0	---
18	3/18/2017 11:57:40	0	---	0	---	0	---
19	3/18/2017 11:58:10	0	---	0	---	0	---
20	3/18/2017 11:58:40	0	---	0	---	0	---
21	3/18/2017 11:59:10	0	---	0	---	0	---
22	3/18/2017 11:59:40	0	---	0	---	0	---
23	3/18/2017 12:00:10	0	---	0	---	0	---
24	3/18/2017 12:00:40	0	---	0	---	0	---
25	3/18/2017 12:01:10	0	---	0	---	0	---
26	3/18/2017 12:01:40	0	---	0	---	0	---
27	3/18/2017 12:02:10	0	---	0	---	0	---
28	3/18/2017 12:02:40	0	---	0	---	0	---
29	3/18/2017 12:03:10	0	---	0	---	0	---



12	3/18/2017	12:15:01	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
13	3/18/2017	12:15:31	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
14	3/18/2017	12:16:01	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
15	3/18/2017	12:16:31	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
16	3/18/2017	12:17:01	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
17	3/18/2017	12:17:31	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
18	3/18/2017	12:18:01	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
19	3/18/2017	12:18:31	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
20	3/18/2017	12:19:01	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0
21	3/18/2017	12:19:31	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0
22	3/18/2017	12:20:01	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
23	3/18/2017	12:20:31	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
24	3/18/2017	12:21:01	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
25	3/18/2017	12:21:31	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
26	3/18/2017	12:22:01	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
27	3/18/2017	12:22:31	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
28	3/18/2017	12:23:01	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
29	3/18/2017	12:23:31	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0
30	3/18/2017	12:24:01	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
Min			0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm)		CO(ppm)		VOC(ppm)	
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/18/2017 12:09:31	0	---	0	---	---	---
2	3/18/2017 12:10:01	0	---	0	---	0	---
3	3/18/2017 12:10:31	0	---	0	---	0	---
4	3/18/2017 12:11:01	0	---	0	---	0	---
5	3/18/2017 12:11:31	0	---	0	---	0	---
6	3/18/2017 12:12:01	0	---	0	---	0	---
7	3/18/2017 12:12:31	0	---	0	---	0	---
8	3/18/2017 12:13:01	0	---	0	---	0	---
9	3/18/2017 12:13:31	0	---	0	---	0	---
10	3/18/2017 12:14:01	0	---	0	---	0	---
11	3/18/2017 12:14:31	0	---	0	---	0	---
12	3/18/2017 12:15:01	0	---	0	---	0	---
13	3/18/2017 12:15:31	0	---	0	---	0	---
14	3/18/2017 12:16:01	0	---	0	---	0	---
15	3/18/2017 12:16:31	0	---	0	---	0	---
16	3/18/2017 12:17:01	0	---	0	---	0	---
17	3/18/2017 12:17:31	0	---	0	---	0	---
18	3/18/2017 12:18:01	0	---	0	---	0	---
19	3/18/2017 12:18:31	0	---	0	---	0	---
20	3/18/2017 12:19:01	0	---	0	---	0	---
21	3/18/2017 12:19:31	0	---	0	---	0	---
22	3/18/2017 12:20:01	0	---	0	---	0	---
23	3/18/2017 12:20:31	0	---	0	---	0	---
24	3/18/2017 12:21:01	0	---	0	---	0	---
25	3/18/2017 12:21:31	0	---	0	---	0	---
26	3/18/2017 12:22:01	0	---	0	---	0	---
27	3/18/2017 12:22:31	0	---	0	---	0	---
28	3/18/2017 12:23:01	0	---	0	---	0	---



11	3/18/2017	12:37:09	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
12	3/18/2017	12:37:39	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
13	3/18/2017	12:38:09	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
14	3/18/2017	12:38:39	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
15	3/18/2017	12:39:09	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
16	3/18/2017	12:39:39	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
17	3/18/2017	12:40:09	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
18	3/18/2017	12:40:39	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0
19	3/18/2017	12:41:09	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
20	3/18/2017	12:41:39	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
21	3/18/2017	12:42:09	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0
22	3/18/2017	12:42:39	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
23	3/18/2017	12:43:09	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
24	3/18/2017	12:43:39	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0
25	3/18/2017	12:44:09	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0
26	3/18/2017	12:44:39	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0
27	3/18/2017	12:45:09	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0
28	3/18/2017	12:45:39	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
29	3/18/2017	12:46:09	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0
30	3/18/2017	12:46:39	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0
31	3/18/2017	12:47:09	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
32	3/18/2017	12:47:39	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0
33	3/18/2017	12:48:09	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0
34	3/18/2017	12:48:39	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0
35	3/18/2017	12:49:09	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
Min			0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm)		CO(ppm)		VOC(ppm)	
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/18/2017 12:32:09	0	---	0	---	---	---
2	3/18/2017 12:32:39	0	---	0	---	0	---
3	3/18/2017 12:33:09	0	---	0	---	0	---
4	3/18/2017 12:33:39	0	---	0	---	0	---
5	3/18/2017 12:34:09	0	---	0	---	0	---
6	3/18/2017 12:34:39	0	---	0	---	0	---
7	3/18/2017 12:35:09	0	---	0	---	0	---
8	3/18/2017 12:35:39	0	---	0	---	0	---
9	3/18/2017 12:36:09	0	---	0	---	0	---
10	3/18/2017 12:36:39	0	---	0	---	0	---
11	3/18/2017 12:37:09	0	---	0	---	0	---
12	3/18/2017 12:37:39	0	---	0	---	0	---
13	3/18/2017 12:38:09	0	---	0	---	0	---
14	3/18/2017 12:38:39	0	---	0	---	0	---
15	3/18/2017 12:39:09	0	---	0	---	0	---
16	3/18/2017 12:39:39	0	---	0	---	0	---
17	3/18/2017 12:40:09	0	---	0	---	0	---
18	3/18/2017 12:40:39	0	---	0	---	0	---
19	3/18/2017 12:41:09	0	---	0	---	0	---
20	3/18/2017 12:41:39	0	---	0	---	0	---
21	3/18/2017 12:42:09	0	---	0	---	0	---
22	3/18/2017 12:42:39	0	---	0	---	0	---



23	3/18/2017	12:43:09	0	---	0	---	0	---
24	3/18/2017	12:43:39	0	---	0	---	0	---
25	3/18/2017	12:44:09	0	---	0	---	0	---
26	3/18/2017	12:44:39	0	---	0	---	0	---
27	3/18/2017	12:45:09	0	---	0	---	0	---
28	3/18/2017	12:45:39	0	---	0	---	0	---
29	3/18/2017	12:46:09	0	---	0	---	0	---
30	3/18/2017	12:46:39	0	0	0	0	0	0
31	3/18/2017	12:47:09	0	0	0	0	0	0
32	3/18/2017	12:47:39	0	0	0	0	0	0
33	3/18/2017	12:48:09	0	0	0	0	0	0
34	3/18/2017	12:48:39	0	0	0	0	0	0
35	3/18/2017	12:49:09	0	0	0	0	0	0

=====  
 17/03/18 12:54  
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Summary

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 Unit Name MultiRAE(PGM-6228)  
 Unit SN MBB3Z034P9  
 Unit Firmware Ver V1.18  
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Running Mode Hygiene Mode  
 Datalog Mode Auto  
 Diagnostic Mode No  
 Stop Reason Power Down  
 -----

Site ID 3  
 User ID 1  
 -----

Begin 3/18/2017 12:54:31

End 3/18/2017 13:09:48

Sample Period(s) 30  
 Number of Records 30  
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### City of Belton Branch Line

Sensor LEL(%LEL) OXY(%) H2S(ppm) CO(ppm) VOC(ppm)  
 Sensor SN SC0311019 SC034204C SC03AR008 SC0306004 SC03A40140P7

Measure	Type	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	
Span		2	N/A	N/A	N/A	N/A	1000															
Low	Alarm		10	19.5	10		5		50													
High	Alarm		20	23.5	20		100															
Over	Alarm		100	30	100		5000															
STEL	Alarm		N/A	N/A	15		25															
TWA	Alarm		N/A	N/A	10		10															
Measurement Gas	CF		Methane(1	N/A	N/A		Isobutylene(1.00)															
Calibration Time			3/2/2017	10:44	3/2/2017	10:44	3/2/2017	10:47	3/2/2017	10:44	3/2/2017	10:45										
Peak			0	21.1	0	0	0															
Min			0	20.9	0	0	0															
Average			0	21.1	0	0	0															

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Datalog

LEL(%LEL) LEL(%LEL) LEL(%LEL) LEL(%LEL) OXY(%) OXY(%) OXY(%) OXY(%) H2S(ppm) H2S(ppm) H2S(ppm) H2S(ppm) CO(ppm) CO(ppm) CO(ppm) CO(ppm) VOC(ppm) VOC(ppm) VOC(ppm) VOC(ppm)

Index	Date/Time	(Min)	(Avg)	(Max)	(Real)	(Min)	(Avg)	(Max)	(Real)	(Min)	(Avg)	(Max)	(Real)	(Min)	(Avg)	(Max)	(Real)	(Min)	(Avg)	(Max)	(Real)	
1	3/18/2017 12:55:01	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	---	---	---	---
2	3/18/2017 12:55:31	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
3	3/18/2017 12:56:01	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
4	3/18/2017 12:56:31	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
5	3/18/2017 12:57:01	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
6	3/18/2017 12:57:31	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
7	3/18/2017 12:58:01	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
8	3/18/2017 12:58:31	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
9	3/18/2017 12:59:01	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
10	3/18/2017 12:59:31	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
11	3/18/2017 13:00:01	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
12	3/18/2017 13:00:31	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
13	3/18/2017 13:01:01	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
14	3/18/2017 13:01:31	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
15	3/18/2017 13:02:01	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
16	3/18/2017 13:02:31	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
17	3/18/2017 13:03:01	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
18	3/18/2017 13:03:31	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
19	3/18/2017 13:04:01	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
20	3/18/2017 13:04:31	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
21	3/18/2017 13:05:01	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
22	3/18/2017 13:05:31	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
23	3/18/2017 13:06:01	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
24	3/18/2017 13:06:31	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
25	3/18/2017 13:07:01	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
26	3/18/2017 13:07:31	0	0	0	0	20.9	21	21.1	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
27	3/18/2017 13:08:01	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
28	3/18/2017 13:08:31	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
29	3/18/2017 13:09:01	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
30	3/18/2017 13:09:31	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak		0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
Min		0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
Average		0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/18/2017 12:55:01	0	---	0	---	---	---
2	3/18/2017 12:55:31	0	---	0	---	0	---
3	3/18/2017 12:56:01	0	---	0	---	0	---
4	3/18/2017 12:56:31	0	---	0	---	0	---
5	3/18/2017 12:57:01	0	---	0	---	0	---
6	3/18/2017 12:57:31	0	---	0	---	0	---
7	3/18/2017 12:58:01	0	---	0	---	0	---
8	3/18/2017 12:58:31	0	---	0	---	0	---
9	3/18/2017 12:59:01	0	---	0	---	0	---
10	3/18/2017 12:59:31	0	---	0	---	0	---
11	3/18/2017 13:00:01	0	---	0	---	0	---
12	3/18/2017 13:00:31	0	---	0	---	0	---
13	3/18/2017 13:01:01	0	---	0	---	0	---
14	3/18/2017 13:01:31	0	---	0	---	0	---
15	3/18/2017 13:02:01	0	---	0	---	0	---
16	3/18/2017 13:02:31	0	---	0	---	0	---

17	3/18/2017	13:03:01	0	---	0	---	0	---
18	3/18/2017	13:03:31	0	---	0	---	0	---
19	3/18/2017	13:04:01	0	---	0	---	0	---
20	3/18/2017	13:04:31	0	---	0	---	0	---
21	3/18/2017	13:05:01	0	---	0	---	0	---
22	3/18/2017	13:05:31	0	---	0	---	0	---
23	3/18/2017	13:06:01	0	---	0	---	0	---
24	3/18/2017	13:06:31	0	---	0	---	0	---
25	3/18/2017	13:07:01	0	---	0	---	0	---
26	3/18/2017	13:07:31	0	---	0	---	0	---
27	3/18/2017	13:08:01	0	---	0	---	0	---
28	3/18/2017	13:08:31	0	---	0	---	0	---
29	3/18/2017	13:09:01	0	---	0	---	0	---
30	3/18/2017	13:09:31	0	0	0	0	0	0

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17/03/18 13:19  
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Summary

-----  
Unit Name MultiRAE(PGM-6228)  
Unit SN MBB3Z034P9  
Unit Firmware Ver V1.18  
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Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No  
Stop Reason Power Down  
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Site ID 3  
User ID 1  
-----

Begin 3/18/2017 13:19:54

End 3/18/2017 13:35:42

Sample Period(s) 30  
Number of Records 31  
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## Vertical Cluster at Cupboard Creek

Sensor	LEL(%LEL)	OXY(%)	H2S(ppm)	CO(ppm)	VOC(ppm)																
Sensor SN	SC0311019 SC034204C SC03AR008 SC0306004 SC03A40140P7																				
Measure Type	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	
Span		50	18	1	50	10															
Span	2 N/A	N/A	N/A	N/A		1000															
Low Alarm		10	19.5	10	5	50															
High Alarm		20	23.5	20	200	100															
Over Alarm		100	30	100	500	5000															
STEL Alarm	N/A	N/A		15	100	25															
TWA Alarm	N/A	N/A		10	35	10															
Measurem Gas(CF)	Methane(1N/A		N/A	N/A	Isobutylene(1.00)																
Calibration Time	3/2/2017	10:44	3/2/2017	10:44	3/2/2017	10:47	3/2/2017	10:44	3/2/2017	10:45											
Peak		0	21.2	0	0	0.1															
Min		0	21.1	0	0	0															
Average		0	21.1	0	0	0															

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Datalog

Index	Date/Time	LEL(%LEL)	LEL(%LEL)	LEL(%LEL)	LEL(%LEL)	OXY(%)	OXY(%)	OXY(%)	OXY(%)	H2S(ppm)	H2S(ppm)	H2S(ppm)	H2S(ppm)	CO(ppm)	CO(ppm)	CO(ppm)	CO(ppm)	VOC(ppm)	VOC(ppm)	VOC(ppm)	VOC(ppm)	
		(Min)	(Avg)	(Max)	(Real)	(Min)	(Avg)	(Max)	(Real)	(Min)	(Avg)	(Max)	(Real)	(Min)	(Avg)	(Max)	(Real)	(Min)	(Avg)	(Max)	(Real)	
1	3/18/2017 13:20:24	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	---	---	---	---
2	3/18/2017 13:20:54	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
3	3/18/2017 13:21:24	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
4	3/18/2017 13:21:54	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
5	3/18/2017 13:22:24	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
6	3/18/2017 13:22:54	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1
7	3/18/2017 13:23:24	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0.1	0
8	3/18/2017 13:23:54	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
9	3/18/2017 13:24:24	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0.1	0
10	3/18/2017 13:24:54	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0.1	0
11	3/18/2017 13:25:24	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
12	3/18/2017 13:25:54	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
13	3/18/2017 13:26:24	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
14	3/18/2017 13:26:54	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0.1	0
15	3/18/2017 13:27:24	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
16	3/18/2017 13:27:54	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
17	3/18/2017 13:28:24	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
18	3/18/2017 13:28:54	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0.1	0
19	3/18/2017 13:29:24	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0.1	0
20	3/18/2017 13:29:54	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0.1	0
21	3/18/2017 13:30:24	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
22	3/18/2017 13:30:54	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0.1	0
23	3/18/2017 13:31:24	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
24	3/18/2017 13:31:54	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0.1	0
25	3/18/2017 13:32:24	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
26	3/18/2017 13:32:54	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0.1	0
27	3/18/2017 13:33:24	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
28	3/18/2017 13:33:54	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
29	3/18/2017 13:34:24	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
30	3/18/2017 13:34:54	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
31	3/18/2017 13:35:24	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak		0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
Min		0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
Average		0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0.1	0

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TWA/STEL

Index	Date/Time	H2S(ppm)	H2S(ppm)	CO(ppm)	CO(ppm)	VOC(ppm)	VOC(ppm)
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/18/2017 13:20:24	0	---	0	---	---	---
2	3/18/2017 13:20:54	0	---	0	---	0	---
3	3/18/2017 13:21:24	0	---	0	---	0	---
4	3/18/2017 13:21:54	0	---	0	---	0	---
5	3/18/2017 13:22:24	0	---	0	---	0	---
6	3/18/2017 13:22:54	0	---	0	---	0	---
7	3/18/2017 13:23:24	0	---	0	---	0	---
8	3/18/2017 13:23:54	0	---	0	---	0	---
9	3/18/2017 13:24:24	0	---	0	---	0	---
10	3/18/2017 13:24:54	0	---	0	---	0	---
11	3/18/2017 13:25:24	0	---	0	---	0	---
12	3/18/2017 13:25:54	0	---	0	---	0	---
13	3/18/2017 13:26:24	0	---	0	---	0	---
14	3/18/2017 13:26:54	0	---	0	---	0	---

15	3/18/2017	13:27:24	0	---	0	---	0	---
16	3/18/2017	13:27:54	0	---	0	---	0	---
17	3/18/2017	13:28:24	0	---	0	---	0	---
18	3/18/2017	13:28:54	0	---	0	---	0	---
19	3/18/2017	13:29:24	0	---	0	---	0	---
20	3/18/2017	13:29:54	0	---	0	---	0	---
21	3/18/2017	13:30:24	0	---	0	---	0	---
22	3/18/2017	13:30:54	0	---	0	---	0	---
23	3/18/2017	13:31:24	0	---	0	---	0	---
24	3/18/2017	13:31:54	0	---	0	---	0	---
25	3/18/2017	13:32:24	0	---	0	---	0	---
26	3/18/2017	13:32:54	0	---	0	---	0	---
27	3/18/2017	13:33:24	0	---	0	---	0	---
28	3/18/2017	13:33:54	0	---	0	---	0	---
29	3/18/2017	13:34:24	0	---	0	---	0	---
30	3/18/2017	13:34:54	0	0	0	0	0	0
31	3/18/2017	13:35:24	0	0	0	0	0	0

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17/03/18 13:51

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Summary

-----  
Unit Name MultiRAE(PGM-6228)  
Unit SN MBB3Z034P9  
Unit Firmware Ver V1.18  
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Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No  
Stop Reason Power Down  
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Site ID 3  
User ID 1  
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Begin 3/18/2017 13:51:55

End 3/18/2017 14:07:37

Sample Period(s) 30  
Number of Records 31  
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### Brown's Creek under Lewis Drive

Sensor LEL(%LEL) OXY(%) H2S(ppm) CO(ppm) VOC(ppm)  
Sensor SN SC0311019 SC034204C SC03AR008 SC0306004 SC03A40140P7  
Measure Type Min Avg Max Real Min Avg Max Real Min Avg Max Real Min Avg Max Real Min Avg Max Real  
Span 50 18 1 50 10  
Span 2 N/A N/A N/A N/A 1000  
Low Alarm 10 19.5 10 5 50  
High Alarm 20 23.5 20 200 100  
Over Alarm 100 30 100 500 5000  
STEL Alarm N/A N/A 15 100 25  
TWA Alarm N/A N/A 10 35 10  
Measurem Gas(CF) Methane(1 N/A N/A N/A Isobutylene(1.00)

Calibration Time 3/2/2017 10:44 3/2/2017 10:44 3/2/2017 10:47 3/2/2017 10:44 3/2/2017 10:45  
Peak 0 21.3 0 0 0  
Min 0 21.3 0 0 0  
Average 0 21.3 0 0 0

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Datalog

Index	Date/Time	LEL(%LEL) (Min)	LEL(%LEL) (Avg)	LEL(%LEL) (Max)	LEL(%LEL) (Real)	OXY(%) (Min)	OXY(%) (Avg)	OXY(%) (Max)	OXY(%) (Real)	H2S(ppm) (Min)	H2S(ppm) (Avg)	H2S(ppm) (Max)	H2S(ppm) (Real)	CO(ppm) (Min)	CO(ppm) (Avg)	CO(ppm) (Max)	CO(ppm) (Real)	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)	VOC(ppm) (Real)	
1	3/18/2017 13:52:25	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	---	---	---	---
2	3/18/2017 13:52:55	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
3	3/18/2017 13:53:25	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
4	3/18/2017 13:53:55	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
5	3/18/2017 13:54:25	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
6	3/18/2017 13:54:55	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
7	3/18/2017 13:55:25	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
8	3/18/2017 13:55:55	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
9	3/18/2017 13:56:25	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
10	3/18/2017 13:56:55	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
11	3/18/2017 13:57:25	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
12	3/18/2017 13:57:55	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
13	3/18/2017 13:58:25	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
14	3/18/2017 13:58:55	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
15	3/18/2017 13:59:25	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
16	3/18/2017 13:59:55	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
17	3/18/2017 14:00:25	0	0	0	0	21.2	21.2	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
18	3/18/2017 14:00:55	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
19	3/18/2017 14:01:25	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
20	3/18/2017 14:01:55	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
21	3/18/2017 14:02:25	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
22	3/18/2017 14:02:55	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
23	3/18/2017 14:03:25	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
24	3/18/2017 14:03:55	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
25	3/18/2017 14:04:25	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
26	3/18/2017 14:04:55	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
27	3/18/2017 14:05:25	0	0	0	0	21.2	21.2	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
28	3/18/2017 14:05:55	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
29	3/18/2017 14:06:25	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
30	3/18/2017 14:06:55	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
31	3/18/2017 14:07:25	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak		0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
Min		0	0	0	0	21.2	21.2	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0
Average		0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/18/2017 13:52:25	0	---	0	---	---	---
2	3/18/2017 13:52:55	0	---	0	---	0	---
3	3/18/2017 13:53:25	0	---	0	---	0	---
4	3/18/2017 13:53:55	0	---	0	---	0	---
5	3/18/2017 13:54:25	0	---	0	---	0	---
6	3/18/2017 13:54:55	0	---	0	---	0	---
7	3/18/2017 13:55:25	0	---	0	---	0	---
8	3/18/2017 13:55:55	0	---	0	---	0	---
9	3/18/2017 13:56:25	0	---	0	---	0	---
10	3/18/2017 13:56:55	0	---	0	---	0	---
11	3/18/2017 13:57:25	0	---	0	---	0	---

12	3/18/2017	13:57:55	0	---	0	---	0	---
13	3/18/2017	13:58:25	0	---	0	---	0	---
14	3/18/2017	13:58:55	0	---	0	---	0	---
15	3/18/2017	13:59:25	0	---	0	---	0	---
16	3/18/2017	13:59:55	0	---	0	---	0	---
17	3/18/2017	14:00:25	0	---	0	---	0	---
18	3/18/2017	14:00:55	0	---	0	---	0	---
19	3/18/2017	14:01:25	0	---	0	---	0	---
20	3/18/2017	14:01:55	0	---	0	---	0	---
21	3/18/2017	14:02:25	0	---	0	---	0	---
22	3/18/2017	14:02:55	0	---	0	---	0	---
23	3/18/2017	14:03:25	0	---	0	---	0	---
24	3/18/2017	14:03:55	0	---	0	---	0	---
25	3/18/2017	14:04:25	0	---	0	---	0	---
26	3/18/2017	14:04:55	0	---	0	---	0	---
27	3/18/2017	14:05:25	0	---	0	---	0	---
28	3/18/2017	14:05:55	0	---	0	---	0	---
29	3/18/2017	14:06:25	0	---	0	---	0	---
30	3/18/2017	14:06:55	0	0	0	0	0	0
31	3/18/2017	14:07:25	0	0	0	0	0	0

=====  
17/03/20 8:13  
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Summary  
-----  
Unit Name MultiRAE(PGM-6228)  
Unit SN MBB3Z034P9  
Unit Firmware Ver V1.18  
-----

Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No  
Stop Reason Power Down  
-----

Site ID 3  
User ID 1  
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Begin 3/20/2017 8:13:30  
End 3/20/2017 8:30:49  
Sample Period(s) 30  
Number of Records 34  
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**SW-12**

Sensor	SN	LEL(%LEL)	OXY(%)	H2S(ppm)	CO(ppm)	VOC(ppm)															
		Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real
Span		50	18	1	50	10															
Span	2	N/A	N/A	N/A	N/A	1000															
Low Alarm		10	19.5	10	5	50															
High Alarm		20	23.5	20	200	100															
Over Alarm		100	30	100	500	5000															
STEL Alarm		N/A	N/A	15	100	25															
TWA Alarm		N/A	N/A	10	35	10															
Measurem Gas(CF)		Methane(1	N/A	N/A	N/A	Isobutylene(1.00)															
Calibration Time		3/2/2017	10:44	3/2/2017	10:44	3/2/2017	10:47	3/2/2017	10:44	3/2/2017	10:45										

Peak	0	21.2	0	0	0.4
Min	0	20.9	0	0	0
Average	0	21.1	0	0	0

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Datalog

Index	Date/Time	LEL(%LEL) (Min)	LEL(%LEL) (Avg)	LEL(%LEL) (Max)	LEL(%LEL) (Real)	OXY(%) (Min)	OXY(%) (Avg)	OXY(%) (Max)	OXY(%) (Real)	H2S(ppm) (Min)	H2S(ppm) (Avg)	H2S(ppm) (Max)	H2S(ppm) (Real)	CO(ppm) (Min)	CO(ppm) (Avg)	CO(ppm) (Max)	CO(ppm) (Real)	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)	VOC(ppm) (Real)	
1	3/20/2017 8:14:00	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	---	---	---	---
2	3/20/2017 8:14:30	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
3	3/20/2017 8:15:00	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
4	3/20/2017 8:15:30	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
5	3/20/2017 8:16:00	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
6	3/20/2017 8:16:30	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0.1
7	3/20/2017 8:17:00	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
8	3/20/2017 8:17:30	0	0	0	0	21.1	21.1	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
9	3/20/2017 8:18:00	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
10	3/20/2017 8:18:30	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
11	3/20/2017 8:19:00	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
12	3/20/2017 8:19:30	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
13	3/20/2017 8:20:00	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
14	3/20/2017 8:20:30	0	0	0	0	21.1	21.1	21.2	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
15	3/20/2017 8:21:00	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
16	3/20/2017 8:21:30	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
17	3/20/2017 8:22:00	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0.1
18	3/20/2017 8:22:30	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
19	3/20/2017 8:23:00	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
20	3/20/2017 8:23:30	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
21	3/20/2017 8:24:00	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
22	3/20/2017 8:24:30	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
23	3/20/2017 8:25:00	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
24	3/20/2017 8:25:30	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
25	3/20/2017 8:26:00	0	0	0	0	20.9	21	21.1	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
26	3/20/2017 8:26:30	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
27	3/20/2017 8:27:00	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
28	3/20/2017 8:27:30	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0
29	3/20/2017 8:28:00	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
30	3/20/2017 8:28:30	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
31	3/20/2017 8:29:00	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.2	0.5	0.3
32	3/20/2017 8:29:30	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.4	0.2
33	3/20/2017 8:30:00	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.5	0.4
34	3/20/2017 8:30:30	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.3	0.5	0.2
Peak		0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0.1	0.3	0.5	0.4
Min		0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
Average		0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0.1	0

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/20/2017 8:14:00	0	---	0	---	---	---
2	3/20/2017 8:14:30	0	---	0	---	0	---
3	3/20/2017 8:15:00	0	---	0	---	0	---
4	3/20/2017 8:15:30	0	---	0	---	0	---
5	3/20/2017 8:16:00	0	---	0	---	0	---



6	3/20/2017	8:16:30	0	---	0	---	0	---	
7	3/20/2017	8:17:00	0	---	0	---	0	---	
8	3/20/2017	8:17:30	0	---	0	---	0	---	
9	3/20/2017	8:18:00	0	---	0	---	0	---	
10	3/20/2017	8:18:30	0	---	0	---	0	---	
11	3/20/2017	8:19:00	0	---	0	---	0	---	
12	3/20/2017	8:19:30	0	---	0	---	0	---	
13	3/20/2017	8:20:00	0	---	0	---	0	---	
14	3/20/2017	8:20:30	0	---	0	---	0	---	
15	3/20/2017	8:21:00	0	---	0	---	0	---	
16	3/20/2017	8:21:30	0	---	0	---	0	---	
17	3/20/2017	8:22:00	0	---	0	---	0	---	
18	3/20/2017	8:22:30	0	---	0	---	0	---	
19	3/20/2017	8:23:00	0	---	0	---	0	---	
20	3/20/2017	8:23:30	0	---	0	---	0	---	
21	3/20/2017	8:24:00	0	---	0	---	0	---	
22	3/20/2017	8:24:30	0	---	0	---	0	---	
23	3/20/2017	8:25:00	0	---	0	---	0	---	
24	3/20/2017	8:25:30	0	---	0	---	0	---	
25	3/20/2017	8:26:00	0	---	0	---	0	---	
26	3/20/2017	8:26:30	0	---	0	---	0	---	
27	3/20/2017	8:27:00	0	---	0	---	0	---	
28	3/20/2017	8:27:30	0	---	0	---	0	---	
29	3/20/2017	8:28:00	0	---	0	---	0	---	
30	3/20/2017	8:28:30	0	0	0	0	0	0	---
31	3/20/2017	8:29:00	0	0	0	0	0	0	0
32	3/20/2017	8:29:30	0	0	0	0	0	0	0
33	3/20/2017	8:30:00	0	0	0	0	0	0	0
34	3/20/2017	8:30:30	0	0	0	0	0	0	0

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17/03/20 8:39

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Summary

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Unit Name MultiRAE(PGM-6228)  
Unit SN MBB3Z034P9  
Unit Firmware Ver V1.18  
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Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No  
Stop Reason Power Down  
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Site ID 3  
User ID 1  
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Begin 3/20/2017 8:39:46  
End 3/20/2017 8:55:48  
Sample Period(s) 30  
Number of Records 32  
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Sensor LEL(%LEL) OXY(%) H2S(ppm) CO(ppm) VOC(ppm)  
Sensor SN SC0311019 SC034204C SC03AR008 SC0306004 SC03A40140P7  
Measure Type Min Avg Max Real Min Avg Max Real Min Avg Max Real

### Vertical Cluster at Brown's Creek

Span		50	18	1	50	10																
Span		2 N/A	N/A	N/A	N/A	1000																
Low	Alarm		10	19.5	10	5	50															
High	Alarm		20	23.5	20	200	100															
Over	Alarm		100	30	100	500	5000															
STEL	Alarm	N/A	N/A		15	100	25															
TWA	Alarm	N/A	N/A		10	35	10															
Measrem Gas(CF)		Methane(1N/A)		N/A	N/A	Isobutylene(1.00)																
Calibration Time		3/2/2017	10:44	3/2/2017	10:44	3/2/2017	10:47	3/2/2017	10:44	3/2/2017	10:45											
Peak			0	20.9	0	0	0.8															
Min			0	20.9	0	0	0															
Average			0	20.9	0	0	0.1															

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Datalog

Index	Date/Time	LEL(%LEL) (Min)	LEL(%LEL) (Avg)	LEL(%LEL) (Max)	LEL(%LEL) (Real)	OXY(% (Min)	OXY(% (Avg)	OXY(% (Max)	OXY(% (Real)	H2S(ppm) (Min)	H2S(ppm) (Avg)	H2S(ppm) (Max)	H2S(ppm) (Real)	CO(ppm) (Min)	CO(ppm) (Avg)	CO(ppm) (Max)	CO(ppm) (Real)	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)	VOC(ppm) (Real)	
1	3/20/2017 8:40:16	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
2	3/20/2017 8:40:46	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1
3	3/20/2017 8:41:16	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0.2
4	3/20/2017 8:41:46	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
5	3/20/2017 8:42:16	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
6	3/20/2017 8:42:46	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
7	3/20/2017 8:43:16	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
8	3/20/2017 8:43:46	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
9	3/20/2017 8:44:16	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0.1
10	3/20/2017 8:44:46	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
11	3/20/2017 8:45:16	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
12	3/20/2017 8:45:46	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
13	3/20/2017 8:46:16	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
14	3/20/2017 8:46:46	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0.1
15	3/20/2017 8:47:16	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0.1
16	3/20/2017 8:47:46	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.3	1.3
17	3/20/2017 8:48:16	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.4	0.7	0.9	0.4
18	3/20/2017 8:48:46	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0
19	3/20/2017 8:49:16	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
20	3/20/2017 8:49:46	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
21	3/20/2017 8:50:16	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
22	3/20/2017 8:50:46	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
23	3/20/2017 8:51:16	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.2	0.3	0.6
24	3/20/2017 8:51:46	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.1	0.1	0.3	0.1
25	3/20/2017 8:52:16	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4
26	3/20/2017 8:52:46	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.5	0.9
27	3/20/2017 8:53:16	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.2	0.3	0.6	0.2
28	3/20/2017 8:53:46	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.2	0.3
29	3/20/2017 8:54:16	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
30	3/20/2017 8:54:46	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
31	3/20/2017 8:55:16	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
32	3/20/2017 8:55:46	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
Peak			0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0.4	0.7	1.3	0.8
Min			0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.1

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/20/2017 8:40:16	0	---	0	---	---	---
2	3/20/2017 8:40:46	0	---	0	---	---	0
3	3/20/2017 8:41:16	0	---	0	---	---	0
4	3/20/2017 8:41:46	0	---	0	---	---	0
5	3/20/2017 8:42:16	0	---	0	---	---	0
6	3/20/2017 8:42:46	0	---	0	---	---	0
7	3/20/2017 8:43:16	0	---	0	---	---	0
8	3/20/2017 8:43:46	0	---	0	---	---	0
9	3/20/2017 8:44:16	0	---	0	---	---	0
10	3/20/2017 8:44:46	0	---	0	---	---	0
11	3/20/2017 8:45:16	0	---	0	---	---	0
12	3/20/2017 8:45:46	0	---	0	---	---	0
13	3/20/2017 8:46:16	0	---	0	---	---	0
14	3/20/2017 8:46:46	0	---	0	---	---	0
15	3/20/2017 8:47:16	0	---	0	---	---	0
16	3/20/2017 8:47:46	0	---	0	---	---	0
17	3/20/2017 8:48:16	0	---	0	---	---	0
18	3/20/2017 8:48:46	0	---	0	---	---	0
19	3/20/2017 8:49:16	0	---	0	---	---	0
20	3/20/2017 8:49:46	0	---	0	---	---	0
21	3/20/2017 8:50:16	0	---	0	---	---	0
22	3/20/2017 8:50:46	0	---	0	---	---	0
23	3/20/2017 8:51:16	0	---	0	---	---	0
24	3/20/2017 8:51:46	0	---	0	---	---	0
25	3/20/2017 8:52:16	0	---	0	---	---	0
26	3/20/2017 8:52:46	0	---	0	---	---	0
27	3/20/2017 8:53:16	0	---	0	---	---	0
28	3/20/2017 8:53:46	0	---	0	---	---	0
29	3/20/2017 8:54:16	0	---	0	---	---	0
30	3/20/2017 8:54:46	0	0	0	0	0	0
31	3/20/2017 8:55:16	0	0	0	0	0	0.1
32	3/20/2017 8:55:46	0	0	0	0	0	0.1

=====  
17/03/20 9:26  
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Summary

-----  
Unit Name MultiRAE(PGM-6228)  
Unit SN MBB3Z034P9  
Unit Firmware Ver V1.18  
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Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No  
Stop Reason Power Down  
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Site ID 3  
User ID 1  
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Begin 3/20/2017 9:26:58  
End 3/20/2017 9:42:05  
Sample Period(s) 30

**Vertical Cluster at Cupboard Creek**

Number of Records 30

Sensor	SN	LEL(%LEL)	OXY(%)	H2S(ppm)	CO(ppm)	VOC(ppm)															
Measure	Type	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real	Min	Avg	Max	Real
Span		50	18	1	50	10															
Span	2	N/A	N/A	N/A	N/A	1000															
Low	Alarm	10	19.5	10	5	50															
High	Alarm	20	23.5	20	200	100															
Over	Alarm	100	30	100	500	5000															
STEL	Alarm	N/A	N/A	15	100	25															
TWA	Alarm	N/A	N/A	10	35	10															
Measurem Gas(CF)		Methane(1N/A)	N/A	N/A	Isobutylene(1.00)																
Calibration Time		3/2/2017	10:44	3/2/2017	10:44	3/2/2017	10:47	3/2/2017	10:44	3/2/2017	10:45										
Peak		0	21.1	0	0	2.4															
Min		0	21.1	0	0	0															
Average		0	21.1	0	0	0.2															

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Datalog

Index	Date/Time	LEL(%LEL) (Min)	LEL(%LEL) (Avg)	LEL(%LEL) (Max)	LEL(%LEL) (Real)	OXY(%) (Min)	OXY(%) (Avg)	OXY(%) (Max)	OXY(%) (Real)	H2S(ppm) (Min)	H2S(ppm) (Avg)	H2S(ppm) (Max)	H2S(ppm) (Real)	CO(ppm) (Min)	CO(ppm) (Avg)	CO(ppm) (Max)	CO(ppm) (Real)	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)	VOC(ppm) (Real)	
1	3/20/2017 9:27:28	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	---	---	---	---
2	3/20/2017 9:27:58	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
3	3/20/2017 9:28:28	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0.1
4	3/20/2017 9:28:58	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0.2
5	3/20/2017 9:29:28	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0.1
6	3/20/2017 9:29:58	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0.1
7	3/20/2017 9:30:28	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0.2	0.7
8	3/20/2017 9:30:58	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2
9	3/20/2017 9:31:28	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0.2
10	3/20/2017 9:31:58	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
11	3/20/2017 9:32:28	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
12	3/20/2017 9:32:58	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
13	3/20/2017 9:33:28	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
14	3/20/2017 9:33:58	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
15	3/20/2017 9:34:28	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0.1
16	3/20/2017 9:34:58	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
17	3/20/2017 9:35:28	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0.3
18	3/20/2017 9:35:58	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	1.1	2.7	2.4
19	3/20/2017 9:36:28	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.3	2	0
20	3/20/2017 9:36:58	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.2	0.8	0.4
21	3/20/2017 9:37:28	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0
22	3/20/2017 9:37:58	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
23	3/20/2017 9:38:28	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
24	3/20/2017 9:38:58	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.1	1.1	1.1
25	3/20/2017 9:39:28	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.3	0.8	1.1	0.6
26	3/20/2017 9:39:58	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.1	0.3	0.7	0.6
27	3/20/2017 9:40:28	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.2	0.8	2	0.4
28	3/20/2017 9:40:58	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.2	0.7	0.9	0.8
29	3/20/2017 9:41:28	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.2	0.8	0
30	3/20/2017 9:41:58	0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak		0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0.3	1.1	2.7	2.4
Min		0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0	0	0
Average		0	0	0	0	21.1	21.1	21.1	21.1	0	0	0	0	0	0	0	0	0	0	0.2	0.5	0.2

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/20/2017 9:27:28	0	---	0	---	---	---
2	3/20/2017 9:27:58	0	---	0	---	---	0
3	3/20/2017 9:28:28	0	---	0	---	---	0
4	3/20/2017 9:28:58	0	---	0	---	---	0
5	3/20/2017 9:29:28	0	---	0	---	---	0
6	3/20/2017 9:29:58	0	---	0	---	---	0
7	3/20/2017 9:30:28	0	---	0	---	---	0
8	3/20/2017 9:30:58	0	---	0	---	---	0
9	3/20/2017 9:31:28	0	---	0	---	---	0
10	3/20/2017 9:31:58	0	---	0	---	---	0
11	3/20/2017 9:32:28	0	---	0	---	---	0
12	3/20/2017 9:32:58	0	---	0	---	---	0
13	3/20/2017 9:33:28	0	---	0	---	---	0
14	3/20/2017 9:33:58	0	---	0	---	---	0
15	3/20/2017 9:34:28	0	---	0	---	---	0
16	3/20/2017 9:34:58	0	---	0	---	---	0
17	3/20/2017 9:35:28	0	---	0	---	---	0
18	3/20/2017 9:35:58	0	---	0	---	---	0
19	3/20/2017 9:36:28	0	---	0	---	---	0
20	3/20/2017 9:36:58	0	---	0	---	---	0
21	3/20/2017 9:37:28	0	---	0	---	---	0
22	3/20/2017 9:37:58	0	---	0	---	---	0
23	3/20/2017 9:38:28	0	---	0	---	---	0
24	3/20/2017 9:38:58	0	---	0	---	---	0
25	3/20/2017 9:39:28	0	---	0	---	---	0
26	3/20/2017 9:39:58	0	---	0	---	---	0
27	3/20/2017 9:40:28	0	---	0	---	---	0
28	3/20/2017 9:40:58	0	---	0	---	---	0
29	3/20/2017 9:41:28	0	---	0	---	---	0
30	3/20/2017 9:41:58	0	---	0	---	0	0

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17/03/20 10:47

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Summary

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Unit Name MultiRAE(PGM-6228)  
Unit SN MBB3Z034P9  
Unit Firmware Ver V1.18  
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Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No  
Stop Reason Power Down  
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Site ID 3  
User ID 1  
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Begin 3/20/2017 10:47:37  
End 3/20/2017 11:03:08

**MW-09**



Min	0	0	0	0	20.9	20.9	20.9	20.9	0	0	0	0	0	0	0	0	0	0	0	0
Average	0	0	0	0	21	21	21	21	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/20/2017 10:48:07	0	---	0	---	---	---
2	3/20/2017 10:48:37	0	---	0	---	0	---
3	3/20/2017 10:49:07	0	---	0	---	0	---
4	3/20/2017 10:49:37	0	---	0	---	0	---
5	3/20/2017 10:50:07	0	---	0	---	0	---
6	3/20/2017 10:50:37	0	---	0	---	0	---
7	3/20/2017 10:51:07	0	---	0	---	0	---
8	3/20/2017 10:51:37	0	---	0	---	0	---
9	3/20/2017 10:52:07	0	---	0	---	0	---
10	3/20/2017 10:52:37	0	---	0	---	0	---
11	3/20/2017 10:53:07	0	---	0	---	0	---
12	3/20/2017 10:53:37	0	---	0	---	0	---
13	3/20/2017 10:54:07	0	---	0	---	0	---
14	3/20/2017 10:54:37	0	---	0	---	0	---
15	3/20/2017 10:55:07	0	---	0	---	0	---
16	3/20/2017 10:55:37	0	---	0	---	0	---
17	3/20/2017 10:56:07	0	---	0	---	0	---
18	3/20/2017 10:56:37	0	---	0	---	0	---
19	3/20/2017 10:57:07	0	---	0	---	0	---
20	3/20/2017 10:57:37	0	---	0	---	0	---
21	3/20/2017 10:58:07	0	---	0	---	0	---
22	3/20/2017 10:58:37	0	---	0	---	0	---
23	3/20/2017 10:59:07	0	---	0	---	0	---
24	3/20/2017 10:59:37	0	---	0	---	0	---
25	3/20/2017 11:00:07	0	---	0	---	0	---
26	3/20/2017 11:00:37	0	---	0	---	0	---
27	3/20/2017 11:01:07	0	---	0	---	0	---
28	3/20/2017 11:01:37	0	---	0	---	0	---
29	3/20/2017 11:02:07	0	---	0	---	0	---
30	3/20/2017 11:02:37	0	0	0	0	0	---
31	3/20/2017 11:03:07	0	0	0	0	0	0

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17/03/20 11:07

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Summary

Unit	Name	MultiRAE(PGM-6228)	
Unit	SN	MBB3Z034P9	
Unit	Firmware	Ver	V1.18

Running	Mode	Hygiene	Mode
Datalog	Mode	Auto	
Diagnostic	Mode	No	
Stop	Reason	Power	Down

Site	ID	3
User	ID	1





30	3/20/2017	11:22:56	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1
Min			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/20/2017 11:08:26	0	---	0	---	---	---
2	3/20/2017 11:08:56	0	---	0	---	0	---
3	3/20/2017 11:09:26	0	---	0	---	0	---
4	3/20/2017 11:09:56	0	---	0	---	0	---
5	3/20/2017 11:10:26	0	---	0	---	0	---
6	3/20/2017 11:10:56	0	---	0	---	0	---
7	3/20/2017 11:11:26	0	---	0	---	0	---
8	3/20/2017 11:11:56	0	---	0	---	0	---
9	3/20/2017 11:12:26	0	---	0	---	0	---
10	3/20/2017 11:12:56	0	---	0	---	0	---
11	3/20/2017 11:13:26	0	---	0	---	0	---
12	3/20/2017 11:13:56	0	---	0	---	0	---
13	3/20/2017 11:14:26	0	---	0	---	0	---
14	3/20/2017 11:14:56	0	---	0	---	0	---
15	3/20/2017 11:15:26	0	---	0	---	0	---
16	3/20/2017 11:15:56	0	---	0	---	0	---
17	3/20/2017 11:16:26	0	---	0	---	0	---
18	3/20/2017 11:16:56	0	---	0	---	0	---
19	3/20/2017 11:17:26	0	---	0	---	0	---
20	3/20/2017 11:17:56	0	---	0	---	0	---
21	3/20/2017 11:18:26	0	---	0	---	0	---
22	3/20/2017 11:18:56	0	---	0	---	0	---
23	3/20/2017 11:19:26	0	---	0	---	0	---
24	3/20/2017 11:19:56	0	---	0	---	0	---
25	3/20/2017 11:20:26	0	---	0	---	0	---
26	3/20/2017 11:20:56	0	---	0	---	0	---
27	3/20/2017 11:21:26	0	---	0	---	0	---
28	3/20/2017 11:21:56	0	---	0	---	0	---
29	3/20/2017 11:22:26	0	---	0	---	0	---
30	3/20/2017 11:22:56	0	0	0	0	0	0

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17/03/20 11:26

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Summary

Unit	Name	MultiRAE(PGM-6228)	
Unit	SN	MBB3Z034P9	
Unit	Firmware	Ver	V1.18
Running	Mode	Hygiene	Mode
Datalog	Mode	Auto	
Diagnostic	Mode	No	
Stop	Reason	Power	Down
Site	ID	3	
User	ID	1	



29	3/20/2017	11:41:11	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
30	3/20/2017	11:41:41	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
31	3/20/2017	11:42:11	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
32	3/20/2017	11:42:41	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
33	3/20/2017	11:43:11	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
34	3/20/2017	11:43:41	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
35	3/20/2017	11:44:11	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0.1	0
Min			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm) (TWA)	H2S(ppm) (STEL)	CO(ppm) (TWA)	CO(ppm) (STEL)	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	3/20/2017 11:27:11	0	---	0	---	---	---
2	3/20/2017 11:27:41	0	---	0	---	0	---
3	3/20/2017 11:28:11	0	---	0	---	0	---
4	3/20/2017 11:28:41	0	---	0	---	0	---
5	3/20/2017 11:29:11	0	---	0	---	0	---
6	3/20/2017 11:29:41	0	---	0	---	0	---
7	3/20/2017 11:30:11	0	---	0	---	0	---
8	3/20/2017 11:30:41	0	---	0	---	0	---
9	3/20/2017 11:31:11	0	---	0	---	0	---
10	3/20/2017 11:31:41	0	---	0	---	0	---
11	3/20/2017 11:32:11	0	---	0	---	0	---
12	3/20/2017 11:32:41	0	---	0	---	0	---
13	3/20/2017 11:33:11	0	---	0	---	0	---
14	3/20/2017 11:33:41	0	---	0	---	0	---
15	3/20/2017 11:34:11	0	---	0	---	0	---
16	3/20/2017 11:34:41	0	---	0	---	0	---
17	3/20/2017 11:35:11	0	---	0	---	0	---
18	3/20/2017 11:35:41	0	---	0	---	0	---
19	3/20/2017 11:36:11	0	---	0	---	0	---
20	3/20/2017 11:36:41	0	---	0	---	0	---
21	3/20/2017 11:37:11	0	---	0	---	0	---
22	3/20/2017 11:37:41	0	---	0	---	0	---
23	3/20/2017 11:38:11	0	---	0	---	0	---
24	3/20/2017 11:38:41	0	---	0	---	0	---
25	3/20/2017 11:39:11	0	---	0	---	0	---
26	3/20/2017 11:39:41	0	---	0	---	0	---
27	3/20/2017 11:40:11	0	---	0	---	0	---
28	3/20/2017 11:40:41	0	---	0	---	0	---
29	3/20/2017 11:41:11	0	---	0	---	0	---
30	3/20/2017 11:41:41	0	0	0	0	0	---
31	3/20/2017 11:42:11	0	0	0	0	0	0
32	3/20/2017 11:42:41	0	0	0	0	0	0
33	3/20/2017 11:43:11	0	0	0	0	0	0
34	3/20/2017 11:43:41	0	0	0	0	0	0
35	3/20/2017 11:44:11	0	0	0	0	0	0

17/03/20 11:56

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Summary

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18	3/20/2017	12:05:30	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
19	3/20/2017	12:06:00	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
20	3/20/2017	12:06:30	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
21	3/20/2017	12:07:00	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
22	3/20/2017	12:07:30	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
23	3/20/2017	12:08:00	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
24	3/20/2017	12:08:30	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
25	3/20/2017	12:09:00	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
26	3/20/2017	12:09:30	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
27	3/20/2017	12:10:00	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
28	3/20/2017	12:10:30	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
29	3/20/2017	12:11:00	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
30	3/20/2017	12:11:30	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
31	3/20/2017	12:12:00	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
32	3/20/2017	12:12:30	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
33	3/20/2017	12:13:00	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
34	3/20/2017	12:13:30	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
Min			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm)		CO(ppm)		VOC(ppm)		
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)	
1	3/20/2017 11:57:00	0	---		0	---	---	
2	3/20/2017 11:57:30	0	---		0	---	0	---
3	3/20/2017 11:58:00	0	---		0	---	0	---
4	3/20/2017 11:58:30	0	---		0	---	0	---
5	3/20/2017 11:59:00	0	---		0	---	0	---
6	3/20/2017 11:59:30	0	---		0	---	0	---
7	3/20/2017 12:00:00	0	---		0	---	0	---
8	3/20/2017 12:00:30	0	---		0	---	0	---
9	3/20/2017 12:01:00	0	---		0	---	0	---
10	3/20/2017 12:01:30	0	---		0	---	0	---
11	3/20/2017 12:02:00	0	---		0	---	0	---
12	3/20/2017 12:02:30	0	---		0	---	0	---
13	3/20/2017 12:03:00	0	---		0	---	0	---
14	3/20/2017 12:03:30	0	---		0	---	0	---
15	3/20/2017 12:04:00	0	---		0	---	0	---
16	3/20/2017 12:04:30	0	---		0	---	0	---
17	3/20/2017 12:05:00	0	---		0	---	0	---
18	3/20/2017 12:05:30	0	---		0	---	0	---
19	3/20/2017 12:06:00	0	---		0	---	0	---
20	3/20/2017 12:06:30	0	---		0	---	0	---
21	3/20/2017 12:07:00	0	---		0	---	0	---
22	3/20/2017 12:07:30	0	---		0	---	0	---
23	3/20/2017 12:08:00	0	---		0	---	0	---
24	3/20/2017 12:08:30	0	---		0	---	0	---
25	3/20/2017 12:09:00	0	---		0	---	0	---
26	3/20/2017 12:09:30	0	---		0	---	0	---
27	3/20/2017 12:10:00	0	---		0	---	0	---
28	3/20/2017 12:10:30	0	---		0	---	0	---
29	3/20/2017 12:11:00	0	---		0	---	0	---
30	3/20/2017 12:11:30	0	0	0	0	0	0	---



9	3/20/2017	12:35:15	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
10	3/20/2017	12:35:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
11	3/20/2017	12:36:15	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
12	3/20/2017	12:36:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
13	3/20/2017	12:37:15	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
14	3/20/2017	12:37:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
15	3/20/2017	12:38:15	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
16	3/20/2017	12:38:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
17	3/20/2017	12:39:15	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
18	3/20/2017	12:39:45	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
19	3/20/2017	12:40:15	0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
20	3/20/2017	12:40:45	0	0	0	0	21.2	21.2	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
21	3/20/2017	12:41:15	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
22	3/20/2017	12:41:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
23	3/20/2017	12:42:15	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
24	3/20/2017	12:42:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
25	3/20/2017	12:43:15	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
26	3/20/2017	12:43:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
27	3/20/2017	12:44:15	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
28	3/20/2017	12:44:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
29	3/20/2017	12:45:15	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
30	3/20/2017	12:45:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
31	3/20/2017	12:46:15	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
32	3/20/2017	12:46:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
33	3/20/2017	12:47:15	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
34	3/20/2017	12:47:45	0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
Peak			0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0
Min			0	0	0	0	21.2	21.2	21.2	21.2	0	0	0	0	0	0	0	0	0	0	0	0
Average			0	0	0	0	21.3	21.3	21.3	21.3	0	0	0	0	0	0	0	0	0	0	0	0

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TWA/STEL

Index	Date/Time	H2S(ppm)		CO(ppm)		VOC(ppm)	
		(TWA)	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
1	3/20/2017 12:31:15	0	---	0	---	---	---
2	3/20/2017 12:31:45	0	---	0	---	0	---
3	3/20/2017 12:32:15	0	---	0	---	0	---
4	3/20/2017 12:32:45	0	---	0	---	0	---
5	3/20/2017 12:33:15	0	---	0	---	0	---
6	3/20/2017 12:33:45	0	---	0	---	0	---
7	3/20/2017 12:34:15	0	---	0	---	0	---
8	3/20/2017 12:34:45	0	---	0	---	0	---
9	3/20/2017 12:35:15	0	---	0	---	0	---
10	3/20/2017 12:35:45	0	---	0	---	0	---
11	3/20/2017 12:36:15	0	---	0	---	0	---
12	3/20/2017 12:36:45	0	---	0	---	0	---
13	3/20/2017 12:37:15	0	---	0	---	0	---
14	3/20/2017 12:37:45	0	---	0	---	0	---
15	3/20/2017 12:38:15	0	---	0	---	0	---
16	3/20/2017 12:38:45	0	---	0	---	0	---
17	3/20/2017 12:39:15	0	---	0	---	0	---
18	3/20/2017 12:39:45	0	---	0	---	0	---
19	3/20/2017 12:40:15	0	---	0	---	0	---
20	3/20/2017 12:40:45	0	---	0	---	0	---
21	3/20/2017 12:41:15	0	---	0	---	0	---

22	3/20/2017	12:41:45	0 ---		0 ---		0 ---	
23	3/20/2017	12:42:15	0 ---		0 ---		0 ---	
24	3/20/2017	12:42:45	0 ---		0 ---		0 ---	
25	3/20/2017	12:43:15	0 ---		0 ---		0 ---	
26	3/20/2017	12:43:45	0 ---		0 ---		0 ---	
27	3/20/2017	12:44:15	0 ---		0 ---		0 ---	
28	3/20/2017	12:44:45	0 ---		0 ---		0 ---	
29	3/20/2017	12:45:15	0 ---		0 ---		0 ---	
30	3/20/2017	12:45:45	0	0	0	0	0 ---	
31	3/20/2017	12:46:15	0	0	0	0	0	0
32	3/20/2017	12:46:45	0	0	0	0	0	0
33	3/20/2017	12:47:15	0	0	0	0	0	0
34	3/20/2017	12:47:45	0	0	0	0	0	0