



# Target

## Proposed Future Site Development Field Observation Report

Lot 1 – Former Austin Avenue Landfill BCP Site  
(BCP Site #C360066) and

Lot 4 – Austin Avenue and Prior Place BCP Site  
(BCP Site #C360116)

City of Yonkers, Westchester County, NY

January 2013

**PROPOSED FUTURE SITE DEVELOPMENT  
FIELD OBSERVATION REPORT  
LOT 1 – FORMER AUSTIN AVENUE LANDFILL BCP SITE (BCP SITE #C360066) AND  
LOT 4 – AUSTIN AVENUE AND PRIOR PLACE BCP SITE (BCP SITE #C360116)  
CITY OF YONKERS, WESTCHESTER COUNTY, NEW YORK**

Prepared for:

TARGET

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## 1 Introduction

Target® is proposing the construction of a 160,200 square foot commercial store and associated parking and landscaping areas at the end of Stew Leonard Drive, City of Yonkers, New York (Figure 1). The proposed development could span three adjacent Brownfield Cleanup Program (BCP) Sites (Former Austin Avenue Landfill BCP Site #C360066 (Lot 1), Lot 4 – Austin Avenue and Prior Place BCP Site #C360116, and Potential Future BCP Site – Lot 7 and Corporate Drive, currently in BCP Application stage), as seen in Figure 2 and referred to herein as the ‘Site’. As part of planning activities, a geotechnical investigation that included advancing thirty-one (31) borings was conducted across the three BCP Sites. The geotechnical investigation consultant, Carlin-Simpson and Associates (CSA), determined the boring locations and completion techniques. CSA contracted General Borings, Inc. to complete the borings. Borehole logging was completed by CSA and their drilling contractor. The field work was initiated on November 21, 2012 and completed on December 12, 2012.

GHD Consulting Engineers, LLC (GHD) prepared and submitted to the New York State Department of Environmental Conservation (NYSDEC) *the Future Site Development Geotechnical Investigation Work Plan* (Work Plan, GHD, October 2012) that outlines the approach to complete the field work in conformance with the BCP requirements and guidelines. GHD personnel were present during boring completion to perform community air monitoring activities, and to document field activities, which were to be conducted in accordance with the approved Work Plan. This report is intended to provide relevant documentation that the field work was completed in compliance with the Work Plan, as it relates to activities that were performed on the BCP Sites.

The Work Plan set forth the air monitoring, and soil cover/demarcation layer penetration and repair requirements that were followed during the course of the geotechnical investigation that was performed on BCP Sites Lot 1, Lot 4, and Lot 7 and Corporate Drive (BCP Application currently under review). Objectives and methods included in the Work Plan were developed in accordance with the NYSDEC’s DER-10 guidance document relative to Site specific conditions and the Site Management Plan (SMP) for Lot 1 (Prepared by: S&W Redevelopment of North America, LLC, May 2011; Revised by: GHD Consulting Engineers, LLC, June 2012; and currently under review by NYSDEC).

This Proposed Future Site Development Field Observation Report includes documentation of field activities, which includes:

- Protocols used to penetrate the soil cover and demarcation layer;
- Protocols for handling and management of soil cuttings;
- Protocols for re-establishing the soil cover after borehole completion;
- Community Air Monitoring data; and
- Field documentation (i.e. photographs of field activities).

This Report does not include:

- Reasoning for boring locations;
- Boring equipment or methods;
- Boring logs; or
- Geotechnical investigation findings and conclusions.



## **2 Site History and Description**

### **2.1 Site History**

The Site includes a portion of the former Austin Avenue Landfill, which was formerly owned and operated by the City of Yonkers. The landfill operated from at least the 1960's until 1979 when it ceased operations. The landfill property was transferred to Westchester County in 1979, and is currently owned by the Westchester County Industrial Development Agency (WIDA). The operator, Morris Industrial Builders, L.P., has a long term lease arrangement that allows them to develop the Site for future uses.

The largest portion of the former Austin Avenue Landfill lies on Lot 1, and was remediated under BCP Site Agreement No. C360066. A Remedial Investigation (RI) conducted on Lot 1 determined that the underlying materials primarily consisted of incinerator ash and bulky waste, including trees, brush, and building debris. The findings of the Lot 1 RI also indicated measurable, but subtle, groundwater contamination with respect to inorganic constituents, including chloride, iron, manganese, and nitrate, as well as little or no evidence of methane gas. These findings are consistent with inorganic material typical of an ash landfill. Remediation involved placing a geotextile demarcation layer over areas that contained ash fill material and covering the geotextile with a minimum of two (2) feet of clean off-Site fill, with some areas of imported fill exceeding 10 feet in thickness.

A smaller portion of the former Austin Avenue Landfill lies on the eastern half of Lot 4 and contains fill with similar characteristics identified on Lot 1. The Lot 4 RI determined that underlying materials on the eastern half of the Site consisted primarily of incinerator ash and miscellaneous refuse (i.e. building debris, glass, wood, etc.), which contained concentrations of metals that exceeded Commercial Use Soil Cleanup Objectives (SCOs) in isolated locations. The soils underlying the western half of the Site were found to meet Commercial Use SCOs, with the exception of one (1) metal in one (1) sample. The findings of the RI also indicated measurable, but subtle, groundwater contamination with respect to inorganic constituents, including iron, lead, magnesium, manganese, and sodium. Soil vapor samples collected from two (2) soil vapor wells located along the eastern property boundary detected multiple volatile organic compounds (VOCs); however, the analytes concentrations were relatively low. Remediation is currently being discussed and will likely include placing a geotextile demarcation layer over areas that contain ash fill material and covering the geotextile with a minimum of one (1) foot of clean off-Site fill prior to future Site development.

The Lot 7 and Corporate Drive Site (BCP Application currently under review) also likely contains similar conditions to those found on Lot 1 and Lot 4, since it is located between the two Lots and was historically also part of the former Austin Avenue Landfill. Portions of the Site, mainly along Corporate Drive and the eastern portion of "Relocated Austin Avenue", were remediated as part of Lot 1 remediation (i.e. geotextile was placed and covered with a minimum of two (2) feet of clean off-Site fill). The remainder of the Lot 7 Site will be investigated and likely remediated by placing a geotextile demarcation layer over areas that contain ash fill material and covering the geotextile with a minimum of one (1) foot of clean off-Site fill.

### **2.2 Site Description**

The Site is located in a commercial/residential area just east of Prior Place and is bordered by Austin Avenue to the north; Stew Leonard's grocery store to the south; and the remainder of the Lot 1 BCP Site to the east. Lot 4 is currently vacant wooded land (western portion) and vacant grass land (eastern portion) separated by a large shot rock stockpile located in the central portion. Lot 1 is currently vacant and covered with a soil cover engineering control that is grassed and includes stormwater control features.



The proposed development Site includes a portion of Lot 1, all of Lot 4, and a portion of Lot 7 and Corporate Drive (Figure 2). In the future, these properties will be managed in accordance with the SMP's developed for each BCP Site.



### 3 NYSDEC BCP Compliance

GHD Consulting Engineers, LLC (GHD) personnel were on-Site for the duration of field activities to perform community air monitoring; to document handling and management of soil cuttings; and to document that penetration and restoration of the soil cover was completed in accordance with the NYSDEC approved Work Plan.

#### 3.1 Community Air Monitoring

Community air monitoring was conducted during all ground intrusive activities (i.e. excavations, soil borings, etc.) in accordance with the *Community Air Monitoring Plan* (CAMP, GHD, October 2012) included in Appendix A of the Work Plan. The objective of the CAMP was to provide a measure of protection for the downwind community from potential airborne contaminant releases that might arise as a result of the geotechnical investigation activities.

Community air monitoring included monitoring for the release of volatile organic vapors using a photoionization detector (PID) and airborne particulate matter (i.e. dust) using a particulate meter. Community air monitoring was not performed during the following times:

- All day Tuesday 11-27-2012 due to rain and wet snow;
- All day Friday 11-30-2012 due to equipment malfunction (particulate meter only);
- 9:20 – 11:44 Tuesday 12-4-2012 due to rain showers;
- 9:28 – 15:30 Friday 12-7-2012 due to increasing rain;
- All day Monday 12-10-2012 due to wet ground conditions; and
- All day Tuesday 12-11-2012 due to wet ground conditions.

Particulate monitoring results (Appendix A) indicate that downwind particulate levels did not exceed the action level specified in the CAMP (100 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) above background for a 15-minute average) during any ground intrusive activities. Volatile organic vapor monitoring results (Appendix A) indicate that downwind volatile organic vapor levels did not exceed the action level specified in the CAMP (5 parts per million (ppm) above background for a 15-minute average) during any ground intrusive activities.

#### 3.2 Geotechnical Investigation Borings Advanced Through Soil Cover and Geotextile Demarcation Layer

Ten (10) of the geotechnical investigation borings (GTB-15 through GTB-24 on Figure 2) completed on Lot 1 and a portion of Lot 7 and Corporate Drive were completed through the soil cover engineering control, which included penetration of the geotextile demarcation layer. The following is a summary of completion techniques that were followed in order to ensure that the integrity of the engineering control was unaltered. See Table 1 for details of each boring.

##### 3.2.1 Soil Cover Material and Geotextile Demarcation Layer Penetration

The geotextile demarcation layer at these ten (10) locations was covered by a minimum of two (2) feet of clean fill consisting of 6-inch minus crushed rock and soil. The clean soil cover material was excavated using a backhoe and placed adjacent to the excavation (see photographs in Appendix B). Excavation continued until the geotextile demarcation layer was encountered, at which point a small piece was cut out to allow the auger to advance without catching the remaining geotextile (see photographs in Appendix B).



The first 5-foot section of auger was placed into the excavation at the location of the cut out and the excavation was backfilled using the segregated soil cover material (see photographs in Appendix B).

The geotextile demarcation layer was encountered at the following depths below ground surface (bgs):

- GTB-15 – 4' 0" bgs;
- GTB-16 – 3' 3" bgs;
- GTB-17 – 3' 3" bgs;
- GTB-18 – 2' 2" bgs;
- GTB-19 – 3' 3" bgs;
- GTB-20 – 3' 3" bgs;
- GTB-21 – 3' 2" bgs;
- GTB-22 – 5' 0" bgs;
- GTB-23 – 2' 5" bgs; and
- GTB-24 – 4' 0" bgs.

### **3.2.2 Investigation Derived Cuttings and Borehole Backfilling**

Drill cuttings that were derived from the borings (from below the demarcation layer in the areas of the soil cover engineering control) were placed on polyethylene sheeting next to the borehole. Any cuttings that were not placed back into the boring at the end of the work day were also covered by polyethylene sheeting.

Once the boring was complete, the cuttings were used as backfill in a first out last in manner, to the extent practicable, to within a minimum of 1-foot below the geotextile demarcation layer. None of the cuttings were containerized for later characterization and disposal off-Site, since none of the cuttings were determined to be grossly contaminated (i.e. no readily observable evidence of contamination based on PID readings, odor, or visual inspection) and all the cuttings were able to be placed back down the borehole as backfill.

### **3.2.3 Geotextile and Soil Cover Repair**

After the borehole was backfilled with cuttings, a cement/bentonite grout mix was used to backfill from a minimum of 1-foot below to 1-foot above the geotextile demarcation layer in order to re-establish the demarcation layer in the area where it was removed. The cement/bentonite grout mix was added to each borehole at the following intervals below ground surface (bgs):

- GTB-15 – 6- to 3-feet bgs;
- GTB-16 – 5- to 2-feet bgs;
- GTB-17 – 5- to 1-feet bgs;
- GTB-18 – 4- to 0.5-feet bgs;
- GTB-19 – 5- to 2-feet bgs;
- GTB-20 – 4- to 1-feet bgs;
- GTB-21 – 4.5- to 2-feet bgs;
- GTB-22 – 6- to 2-feet bgs;
- GTB-23 – 2.5-feet bgs, the geotextile demarcation layer was placed directly on bedrock, as a result a layer of cement/bentonite grout mix was placed in the bottom of the excavation and the excavation was backfilled with the segregated soil cover material; and





- GTB-24 – 5- to 3- feet bgs (this boring was grouted prior to GHD’s field representative arriving on-Site, drilling contractor reported that the boring was grouted in a way consistent with the other borings).

The ground surface was restored to pre-existing conditions by placing some of the segregated soil cover material on top of the cement/bentonite grout mix, grading to promote proper drainage, and seeding with a winter mix grass seed (see photographs in Appendix B).

### **3.3 Geotechnical Investigation Borings Not Advanced Through Soil Cover and Geotextile Demarcation Layer**

The remainder of the geotechnical investigation borings (GTB-1 through GTB-14 and GTB-25 through GTB-31 on Figure 2) completed on Lot 4 and a portion of Lot 7 and Corporate Drive were completed in areas that did not contain the soil cover engineering control or geotextile demarcation layer. The following is a summary of completion techniques that were followed for these borings. See Table 1 for details of each boring.

#### **3.3.1 Investigation Derived Cuttings and Borehole Backfill**

Drill cuttings that were derived from the borings were placed on polyethylene sheeting next to the borehole. Any cuttings that were not placed back into the boring at the end of the work day were also covered by polyethylene sheeting. Once the boring was complete, the cuttings were used as backfill in a first out last in manner, to the extent practicable. The ground surface was graded to promote drainage.

None of the cuttings were containerized for later characterization and disposal off-Site, since none of the cuttings were determined to be grossly contaminated (i.e. no readily observable evidence of contamination based on PID readings, odor, or visual inspection) and all the cuttings were able to be placed back down the borehole as backfill.

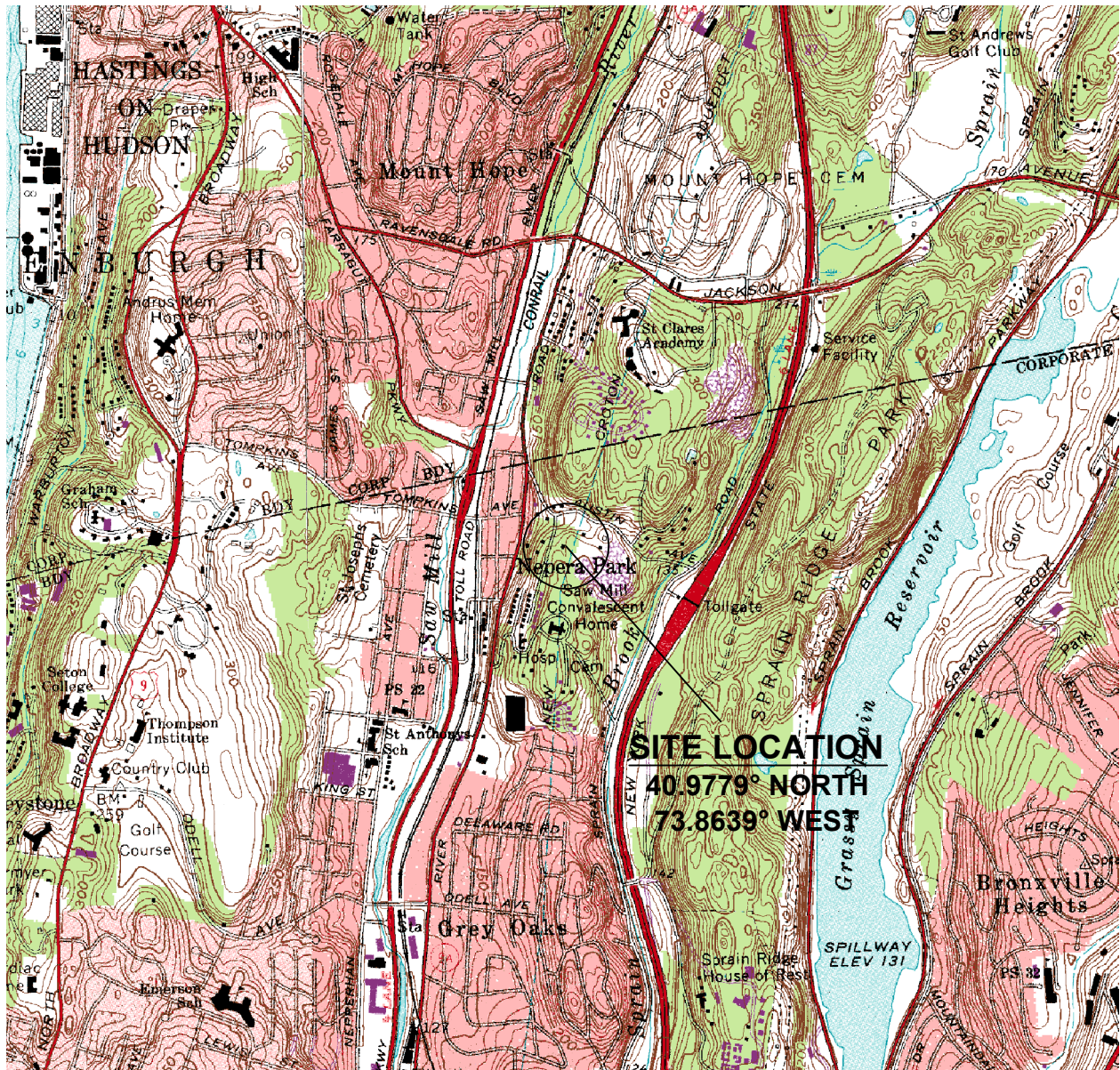
#### **3.4 Site Restoration**

Areas of the engineering control soil cover that were disturbed by equipment (i.e. ruts from driving to borings and areas around borings) were repaired, including grading to promote proper drainage and seeding with a winter mix grass seed.

Tree clearing debris was cut so that it was laying flat on the ground. Where a large amount of tree clearing debris was generated, it was placed in piles (see photographs in Appendix B).

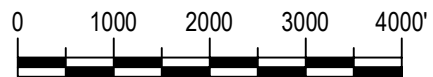


## Figures

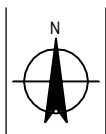


CONTOUR INTERVAL: 10 Feet

MAP TAKEN FROM: USGS 7.5 MINUTE SERIES  
 TOPOGRAPHIC QUADRANGLES:  
 MOUNT VERNON (1966, PHOTOREVISED 1979) &  
 YONKERS (1966, PHOTOREVISED 1979)  
 ([www.nysgis.state.ny.us/quads/usgsdrg.htm](http://www.nysgis.state.ny.us/quads/usgsdrg.htm))



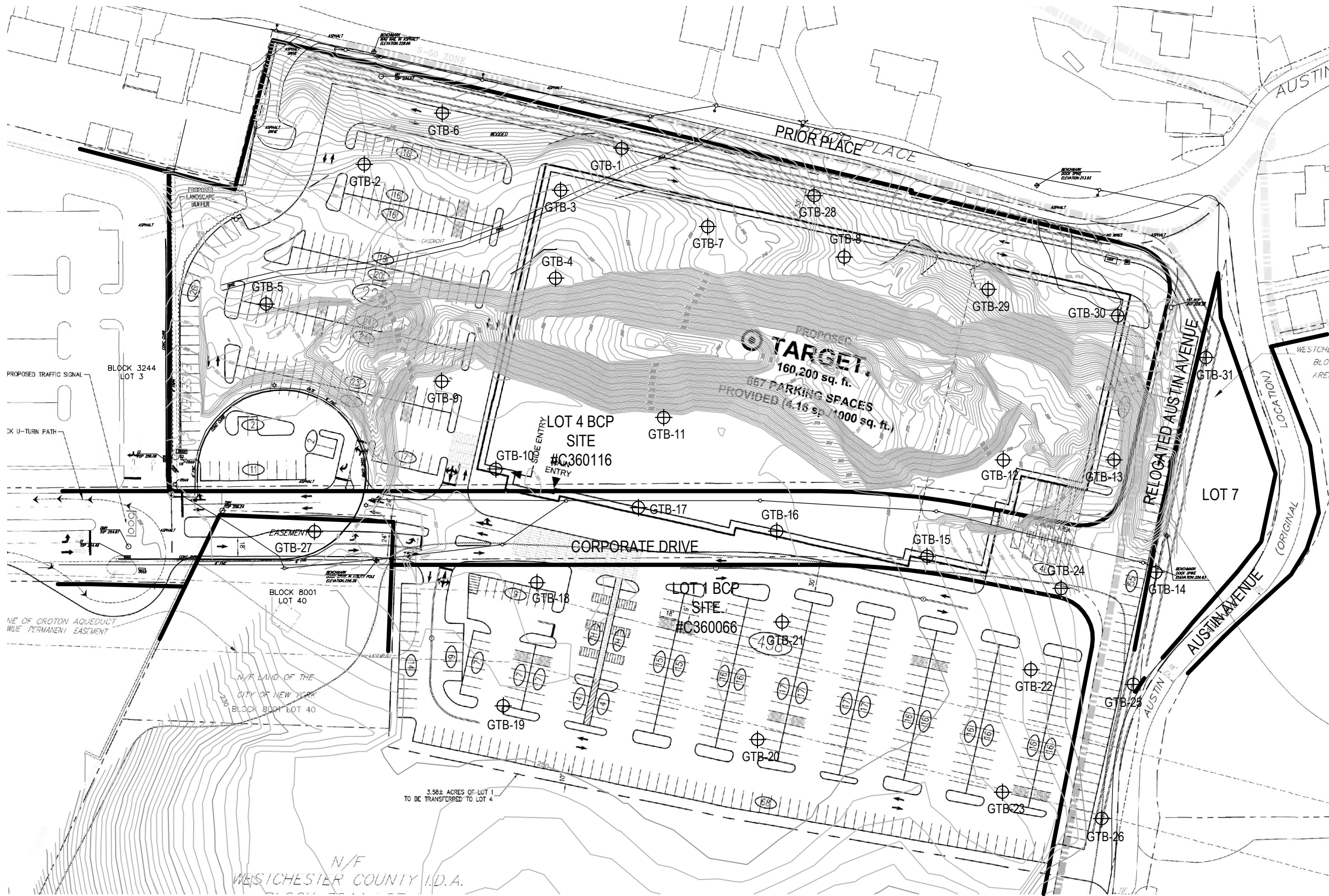
SCALE 1"=2000' AT ORIGINAL SIZE



Target  
 Proposed Future Site Development  
 Field Observation Report  
 Site Location Map

Job Number | 86-15098  
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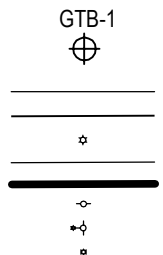
**Figure 1**



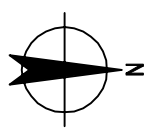
**LEGEND**

APPROXIMATE LOCATION OF GEOTECHNICAL INVESTIGATION BORING AND I.D.

- FENCE
- LEDGE STONE
- LIGHT POLE
- OVERHEAD WIRES
- PROPERTY LINE
- UTILITY POLE
- UTILITY POLE WITH LIGHT
- WATER VALVE



NOTE:  
THE LOCATION OF THE BORINGS COMPLETED AS PART OF THIS FIELD WORK WERE NOT FIELD SURVEYED. LOCATIONS SHOWN ARE APPROXIMATE.



NOTES:  
PROPOSED DEVELOPMENT PLAN FROM JOHN MEYER CONSULTING, P.C., May XX, 2012 AND IS CONCEPTUAL FOR THE PURPOSES OF THESE FIELD ACTIVITIES.

LOT 1 BASE MAP FROM A FIELD SURVEY CONDUCTED BY CONTRACTORS LINE & GRADE SOUTH, LLC, MAY 11, 2011.

LOT 4 BASE MAP FROM A FIELD SURVEY CONDUCTED BY JOHN MEYER CONSULTING, P.C., JUNE 30, 2011.



Target  
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Site Layout and Geotechnical  
Boring Locations

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**Figure 2**



## Tables



Table 1 (Page 1 of 1): Geotechnical Boring Field Observations. Lot1, Lot 4, and Lot 7. Yonkers, NY. November - December 2012.

Geotechnical Boring ID	Date Completed	Depth to Demarcation Layer	Depth to Ash	Depth to Bedrock	Depth of Boring	Comments
GTB-1	11/21/2012	N/A	NONE	3	10	Augered to 5'. Cored one 5' run.
GTB-2	11/21/2012	N/A	NONE	2	7.5	
GTB-3	11/26/2012	N/A	NONE	1.5	21	Augered to 6'. Cored three 5' runs.
GTB-4	11/26/2012	N/A	NONE	0.5	16	Augered to 1'. Cored three 5' runs.
GTB-5	11/26/2012	N/A	NONE	3.8	7.5	
GTB-6	11/27/2012	N/A	NONE	1.5	9.5	Possible boulder or highly weathered bedrock at 1.5'.
GTB-7	11/27/2012	N/A	NONE	2.5	10.5	Augered to 5.5'. Cored one 5' run.
GTB-8	11/27/2012	N/A	NONE	1	4	
GTB-9	11/30/2012	N/A	NONE	10	10	
GTB-10	11/30/2012	N/A	NONE	5	16	Augered to 6'. Cored two 5' runs.
GTB-11	11/30/2012	N/A	6	10.5	15	
GTB-12	12/3/2012	N/A	20	28	40	Augered to 35'. Cored one 5' run.
GTB-13	12/3/2012	N/A	30	38	40	Augered to 38'. Used roller bit from 38' to 40'.
GTB-14	12/4/2012	N/A	20	NONE	32	Boring ended at 32' in possible native material. No bedrock encountered. Groundwater encountered at 25'.
GTB-15	12/4/2012	4	10	32	40	Augered to 35'. Cored one 5' run. Grouted from 6' to 3'. Restored soil cover.
GTB-16	12/5/2012	3.25	10	37	37	Grouted from 5' to 2'. Restored soil cover.
GTB-17	12/5/2012	3.25	10	27	35	Augered to 30'. Cored one 5' run. Grouted from 5' to 1'. Restored soil cover.
GTB-18	12/6/2012	2.17	5	NONE	37	Boring ended at 37' in possible native material. No bedrock encountered. Grouted from 4' to 0.5'. Restored soil cover.
GTB-19	12/6/2012	3.25	10	NONE	20	Boring ended at 20' still in ash and fill. No bedrock encountered. Grouted from 5' to 2'. Restored soil cover.
GTB-20	12/6/2012	3.25	10	NONE	25	Boring ended at 25' still in ash and fill. No bedrock encountered. Grouted from 4' to 1'. Restored soil cover.
GTB-21	12/7/2012	3.17	10	NONE	25	Boring ended at 25' still in ash and fill. No bedrock encountered. Grouted from 4.5' to 2'. Restored soil cover.
GTB-22	12/7/2012	5	10	40	40	Grouted from 6' to 2'. Restored soil cover. Groundwater at 36'.
GTB-23	12/7/2012	2.42	NONE	2.42	2.42	Demarcation layer placed directly on bedrock. Grouted bottom of excavation. Restored soil cover.
GTB-24	12/10/2012	4	NONE	NONE	UNK	No bedrock encountered. Grouted from 5' to 3'. Restored soil cover.
GTB-25	12/10/2012	N/A	NONE	17.5	17.5	
GTB-26	12/10/2012	N/A	NONE	10	15	Augered to 10'. Cored one 5' run.
GTB-27	12/11/2012	N/A	NONE	17.5	17.5	
GTB-28	12/12/2012	N/A	NONE	4.5	4.5	
GTB-29	12/12/2012	N/A	2	6	6	
GTB-30	12/12/2012	N/A	10	NONE	24	Boring ended at 24' in possible native material. No bedrock encountered.
GTB-31	12/12/2012	N/A	2	NONE	24	Boring ended at 24' in possible native material. No bedrock encountered.

All depths reported as feet below ground surface.

N/A - Not Applicable because borings were located in areas which have not been remediated with the placement of a soil cover and demarcation layer.

NONE - Ash or bedrock not encountered in the associated boring.

UNK - Unknown depth of completion



## **Appendices**



# **Appendix A**

## Community Air Monitoring Data



Model Number	DataRAM 4	Temp. Units	F
Serial No.	D147 !	Max Mass	129.1715
Device No.	1	Max Mass @	274 - 13:24:01
Tag Number	0	Avg Mass	15.09537
Start Time	8:50:01	Max Diam	4.058403
Start Date	21-Nov-12	Max Diam @	327 - 14:17:01
Log Period	0:01:00	Avg Diam	0.932553
Number	366	Alarm	ENABLED
Cal. Factor	1	Alarm Level	100
Unit	0	Auto Zero	DISABLED
Unit Name	(MASS) ug/m3	AZ Interval	1
Size Correct	DISABLED	Errors	0

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
1	22.5	56.3	40	0.6813	8:51:01	21-Nov-12	17.8	
2	18.8	56.1	39	0.9638	8:52:01	21-Nov-12		
3	18.1	55.9	39	0.8634	8:53:01	21-Nov-12		
4	17.9	55.7	38	0.8493	8:54:01	21-Nov-12		
5	17.9	55.6	38	0.8587	8:55:01	21-Nov-12		
6	17.7	55.5	38	0.8999	8:56:01	21-Nov-12		
7	17.2	55.3	38	0.84	8:57:01	21-Nov-12		
8	17.6	55.2	38	0.9519	8:58:01	21-Nov-12		
9	17.4	55	38	0.781	8:59:01	21-Nov-12		
10	17.8	54.9	38	0.9206	9:00:01	21-Nov-12		
11	16.3	54.8	38	0.8307	9:01:01	21-Nov-12		
12	16.7	54.8	38	0.732	9:02:01	21-Nov-12		
13	16.7	54.7	37	0.7986	9:03:01	21-Nov-12		
14	16.5	54.6	38	0.7596	9:04:01	21-Nov-12		
15	17.2	54.6	38	0.7451	9:05:01	21-Nov-12		
16	18	54.5	38	0.8246	9:06:01	21-Nov-12		
17	15.9	54.4	37	0.9096	9:07:01	21-Nov-12		
18	15.6	54.4	38	0.8043	9:08:01	21-Nov-12		
19	16.1	54.3	38	0.7962	9:09:01	21-Nov-12		
20	15.8	54.2	38	0.7918	9:10:01	21-Nov-12		
21	15.4	54.1	38	0.7565	9:11:01	21-Nov-12		
22	15.8	54.1	38	0.7681	9:12:01	21-Nov-12		
23	16.2	54.1	38	0.8599	9:13:01	21-Nov-12		
24	15.5	54	38	0.8334	9:14:01	21-Nov-12		
25	15.1	54	38	0.802	9:15:01	21-Nov-12		
26	14.9	54	38	0.7931	9:16:01	21-Nov-12		
27	15.1	53.9	38	0.7838	9:17:01	21-Nov-12		
28	15.3	53.9	38	0.7804	9:18:01	21-Nov-12		
29	14.9	53.9	38	0.8192	9:19:01	21-Nov-12		
30	14.9	53.8	38	0.7797	9:20:01	21-Nov-12		
31	15.8	53.8	38	0.7807	9:21:01	21-Nov-12		
32	15	53.7	38	0.7966	9:22:01	21-Nov-12		
33	14.8	53.7	39	0.7534	9:23:01	21-Nov-12		
34	15.8	53.7	38	0.703	9:24:01	21-Nov-12		
35	15.2	53.6	38	0.7562	9:25:01	21-Nov-12		
36	16.5	53.6	39	0.804	9:26:01	21-Nov-12		
37	16.5	53.5	39	0.7673	9:27:01	21-Nov-12		
38	15.9	53.5	39	0.8226	9:28:01	21-Nov-12		
39	14.6	53.4	39	0.8255	9:29:01	21-Nov-12		
40	14.5	53.4	39	0.7768	9:30:01	21-Nov-12		
41	14.6	53.3	39	0.7546	9:31:01	21-Nov-12		
42	14.2	53.2	39	0.7255	9:32:01	21-Nov-12		
43	15.4	53.2	39	0.8609	9:33:01	21-Nov-12		
44	29.4	53.2	39	0.8917	9:34:01	21-Nov-12		
45	17.8	53.1	39	0.9953	9:35:01	21-Nov-12		
46	22.1	53.1	39	0.8728	9:36:01	21-Nov-12		
47	16.8	53	39	0.7428	9:37:01	21-Nov-12		
48	18.8	53	39	0.7164	9:38:01	21-Nov-12		
49	15.7	53	40	0.8329	9:39:01	21-Nov-12		
50	15	52.9	39	0.993	9:40:01	21-Nov-12		
51	16.9	52.9	40	0.9115	9:41:01	21-Nov-12		
52	19	52.9	40	1.0434	9:42:01	21-Nov-12		
53	17	52.8	40	0.8807	9:43:01	21-Nov-12		
54	14.7	52.8	40	0.7986	9:44:01	21-Nov-12		
55	14.7	52.8	40	0.8845	9:45:01	21-Nov-12		
56	24.1	52.8	40	0.7819	9:46:01	21-Nov-12		
57	17.7	52.7	40	0.9801	9:47:01	21-Nov-12		
58	15.8	52.7	40	0.9149	9:48:01	21-Nov-12		
59	15.7	52.7	40	0.8922	9:49:01	21-Nov-12		
60	14.7	52.6	40	0.8311	9:50:01	21-Nov-12		
61	17.7	52.6	40	0.7996	9:51:01	21-Nov-12		
62	20.8	52.6	41	1.2008	9:52:01	21-Nov-12		
63	13.2	52.5	41	0.9076	9:53:01	21-Nov-12		
64	19.1	52.5	41	0.8001	9:54:01	21-Nov-12		
65	14.7	52.4	41	0.7852	9:55:01	21-Nov-12		
66	16.7	52.4	41	0.9315	9:56:01	21-Nov-12		
67	17.7	52.4	41	0.9633	9:57:01	21-Nov-12		
68	13.8	52.3	41	0.8773	9:58:01	21-Nov-12		
69	18.8	52.3	41	0.8229	9:59:01	21-Nov-12		
70	42.7	52.3	41	2.166	10:00:01	21-Nov-12		
71	25.3	52.3	41	1.5525	10:01:01	21-Nov-12		
72	14.6	52.3	41	0.9179	10:02:01	21-Nov-12		
73	19.4	52.3	41	1.0055	10:03:01	21-Nov-12		
74	19.3	52.2	42	1.2711	10:04:01	21-Nov-12		
75	14.2	52.2	42	1.0077	10:05:01	21-Nov-12		

Background air readings while setting up on first geotechnical boring location

Drilling GTB-1

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
76	14.4	52.2	42	0.8284	10:06:01	21-Nov-12	14.5	
77	13.6	52.2	42	0.8751	10:07:01	21-Nov-12		
78	23.1	52.2	42	0.7916	10:08:01	21-Nov-12		
79	14.8	52.2	42	0.7933	10:09:01	21-Nov-12		
80	14	52.2	42	0.9862	10:10:01	21-Nov-12		
81	12.7	52.2	42	0.8801	10:11:01	21-Nov-12		
82	14.4	52.2	42	0.8298	10:12:01	21-Nov-12		
83	14.7	52.2	42	0.8088	10:13:01	21-Nov-12		
84	13	52.2	42	0.7795	10:14:01	21-Nov-12		
85	13.3	52.2	42	0.838	10:15:01	21-Nov-12		
86	13.1	52.2	42	0.9027	10:16:01	21-Nov-12		
87	13.3	52.3	42	0.7813	10:17:01	21-Nov-12		
88	15	52.2	43	0.8488	10:18:01	21-Nov-12		
89	13.5	52.2	42	0.8459	10:19:01	21-Nov-12		
90	15	52.2	43	0.9951	10:20:01	21-Nov-12		
91	13.4	52.3	43	0.9599	10:21:01	21-Nov-12		
92	13.7	52.3	43	1.0529	10:22:01	21-Nov-12		
93	11.7	52.3	43	0.9359	10:23:01	21-Nov-12		
94	11.9	52.3	43	0.9519	10:24:01	21-Nov-12		
95	11.6	52.3	43	0.9905	10:25:01	21-Nov-12		
96	11.6	52.4	44	0.9259	10:26:01	21-Nov-12		
97	11.8	52.5	44	0.7776	10:27:01	21-Nov-12		
98	11.7	52.5	44	0.8437	10:28:01	21-Nov-12		
99	11.3	52.6	44	0.9111	10:29:01	21-Nov-12		
100	16	52.6	44	1.0354	10:30:01	21-Nov-12		
101	22	52.6	45	1.3202	10:31:01	21-Nov-12		
102	11.6	52.7	45	0.9433	10:32:01	21-Nov-12		
103	11.6	52.7	45	0.9016	10:33:01	21-Nov-12		
104	20.6	52.8	45	1.0608	10:34:01	21-Nov-12		
105	12.4	52.8	45	0.9518	10:35:01	21-Nov-12		
106	18.1	52.8	45	0.8866	10:36:01	21-Nov-12		
107	12.2	52.8	45	0.9121	10:37:01	21-Nov-12		
108	11.4	52.9	45	0.7452	10:38:01	21-Nov-12		
109	11.8	52.9	45	0.8895	10:39:01	21-Nov-12		
110	11.6	53	45	0.9177	10:40:01	21-Nov-12		
111	12.2	53	45	0.8828	10:41:01	21-Nov-12		
112	15.3	53	45	0.9489	10:42:01	21-Nov-12		
113	18	53	45	1.0007	10:43:01	21-Nov-12		
114	11.8	53.1	45	0.954	10:44:01	21-Nov-12		
115	12.3	53.1	45	1.0193	10:45:01	21-Nov-12		
116	11.6	53.2	45	0.936	10:46:01	21-Nov-12		
117	14.9	53.2	45	1.1104	10:47:01	21-Nov-12		
118	11.9	53.2	45	1.0434	10:48:01	21-Nov-12		
119	11.8	53.3	45	0.8744	10:49:01	21-Nov-12		
120	12	53.3	45	0.9347	10:50:01	21-Nov-12		
121	12.1	53.4	45	0.8609	10:51:01	21-Nov-12		
122	12.1	53.5	45	0.7518	10:52:01	21-Nov-12		
123	14.1	53.5	45	0.8886	10:53:01	21-Nov-12		
124	11.8	53.5	45	0.8861	10:54:01	21-Nov-12		
125	11.9	53.6	45	0.9567	10:55:01	21-Nov-12		
126	12.2	53.6	45	0.9114	10:56:01	21-Nov-12		
127	11.7	53.7	45	0.8651	10:57:01	21-Nov-12		
128	11.7	53.7	45	0.7898	10:58:01	21-Nov-12		
129	12.4	53.7	45	0.8922	10:59:01	21-Nov-12		
130	13.1	53.7	45	0.8821	11:00:01	21-Nov-12		
131	13	53.8	45	0.974	11:01:01	21-Nov-12		
132	12.4	53.9	45	0.7726	11:02:01	21-Nov-12		
133	14.2	53.9	45	0.7461	11:03:01	21-Nov-12		
134	13.7	53.9	45	0.8755	11:04:01	21-Nov-12		
135	15.8	53.9	45	1.0037	11:05:01	21-Nov-12		
136	11.9	53.9	45	0.8347	11:06:01	21-Nov-12		
137	11.7	54	45	0.8113	11:07:01	21-Nov-12		
138	12.2	54	45	0.8605	11:08:01	21-Nov-12		
139	15.2	54	45	0.8005	11:09:01	21-Nov-12		
140	14.2	54	45	0.7745	11:10:01	21-Nov-12		
141	11.9	54.1	45	0.7886	11:11:01	21-Nov-12		
142	11.8	54.1	45	0.774	11:12:01	21-Nov-12		
143	16.8	54.1	45	0.8796	11:13:01	21-Nov-12		
144	13.8	54.2	45	0.8758	11:14:01	21-Nov-12		
145	13.4	54.2	45	1.1119	11:15:01	21-Nov-12		
146	11.8	54.2	45	0.9462	11:16:01	21-Nov-12		
147	11	54.2	44	0.9256	11:17:01	21-Nov-12		
148	12.2	54.3	44	1.0528	11:18:01	21-Nov-12		
149	15.2	54.4	44	1.1444	11:19:01	21-Nov-12		
150	12.3	54.4	44	1	11:20:01	21-Nov-12		

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
151	11.1	54.4	44	0.8591	11:21:01	21-Nov-12	11.1	Coring GTB-1
152	12	54.5	44	0.9756	11:22:01	21-Nov-12		
153	10.8	54.5	44	0.8665	11:23:01	21-Nov-12		
154	10.5	54.5	44	0.762	11:24:01	21-Nov-12		
155	11.2	54.5	44	0.9738	11:25:01	21-Nov-12		
156	10.9	54.6	44	0.7636	11:26:01	21-Nov-12		
157	11.3	54.6	44	0.926	11:27:01	21-Nov-12		
158	9.9	54.7	44	0.8581	11:28:01	21-Nov-12		
159	11.1	54.7	44	0.7469	11:29:01	21-Nov-12		
160	10.3	54.7	43	0.8428	11:30:01	21-Nov-12		
161	17	54.7	43	0.775	11:31:01	21-Nov-12		
162	9.5	54.8	43	0.726	11:32:01	21-Nov-12		
163	10.2	54.8	43	0.8745	11:33:01	21-Nov-12		
164	11.2	54.9	43	0.8061	11:34:01	21-Nov-12		
165	9.5	54.9	43	0.7444	11:35:01	21-Nov-12		
166	9.4	54.9	42	0.7314	11:36:01	21-Nov-12		
167	9.3	55	42	0.7268	11:37:01	21-Nov-12		
168	10.7	55	42	0.8309	11:38:01	21-Nov-12		
169	13.4	55.1	42	0.8628	11:39:01	21-Nov-12		
170	12.8	55.2	42	0.9219	11:40:01	21-Nov-12		
171	14.2	55.2	42	0.8608	11:41:01	21-Nov-12		
172	12.4	55.3	43	0.7914	11:42:01	21-Nov-12		
173	13.8	55.3	43	0.8573	11:43:01	21-Nov-12		
174	15.9	55.4	43	0.9198	11:44:01	21-Nov-12		
175	15.7	55.4	43	1.15	11:45:01	21-Nov-12		
176	13.7	55.5	43	0.8638	11:46:01	21-Nov-12		
177	12.9	55.5	44	0.7645	11:47:01	21-Nov-12		
178	13.8	55.6	43	0.8738	11:48:01	21-Nov-12		
179	11.4	55.6	43	0.8833	11:49:01	21-Nov-12		
180	10.6	55.6	43	0.8058	11:50:01	21-Nov-12		
181	11.9	55.7	43	0.844	11:51:01	21-Nov-12		
182	13.8	55.7	43	0.8438	11:52:01	21-Nov-12		
183	13.4	55.7	43	0.78	11:53:01	21-Nov-12		
184	13	55.8	43	0.8009	11:54:01	21-Nov-12		
185	12.8	55.8	43	0.8272	11:55:01	21-Nov-12		
186	13	55.8	43	0.8281	11:56:01	21-Nov-12		
187	12.6	55.9	43	0.8	11:57:01	21-Nov-12		
188	12.1	55.8	43	0.7091	11:58:01	21-Nov-12		
189	12.7	55.9	43	0.7463	11:59:01	21-Nov-12		
190	12.9	55.9	44	0.7729	12:00:01	21-Nov-12		
191	12.3	55.9	44	0.8019	12:01:01	21-Nov-12		
192	12.9	56	43	0.8772	12:02:01	21-Nov-12		
193	13.1	56	43	0.8607	12:03:01	21-Nov-12		
194	12.6	56	43	0.7905	12:04:01	21-Nov-12		
195	12.4	56	43	0.8131	12:05:01	21-Nov-12		
196	12.7	56.1	43	0.8497	12:06:01	21-Nov-12		
197	12.9	56.1	43	0.9197	12:07:01	21-Nov-12		
198	12.3	56.1	43	0.7836	12:08:01	21-Nov-12		
199	13.7	56.1	43	0.8434	12:09:01	21-Nov-12		
200	12.9	56.2	44	0.8128	12:10:01	21-Nov-12		
201	13	56.2	43	0.8209	12:11:01	21-Nov-12		
202	10.7	56.2	43	0.7904	12:12:01	21-Nov-12		
203	10	56.2	43	0.7038	12:13:01	21-Nov-12		
204	10.3	56.2	42	0.7646	12:14:01	21-Nov-12		
205	9.8	56.3	42	0.7904	12:15:01	21-Nov-12		
206	11.2	56.3	41	0.9231	12:16:01	21-Nov-12		
207	11.4	56.3	41	0.8197	12:17:01	21-Nov-12		
208	10.7	56.3	41	0.8459	12:18:01	21-Nov-12		
209	10.8	56.3	41	0.8668	12:19:01	21-Nov-12		
210	9.8	56.4	41	0.765	12:20:01	21-Nov-12		
211	9.7	56.4	41	0.6756	12:21:01	21-Nov-12		
212	9.3	56.4	40	0.6371	12:22:01	21-Nov-12		
213	9.2	56.4	40	0.6846	12:23:01	21-Nov-12		
214	9.4	56.5	40	0.8076	12:24:01	21-Nov-12		
215	10.5	56.5	40	0.8173	12:25:01	21-Nov-12		
216	11.6	56.5	40	0.8054	12:26:01	21-Nov-12		
217	12.2	56.6	40	0.917	12:27:01	21-Nov-12		
218	12.3	56.6	40	0.8775	12:28:01	21-Nov-12		
219	12.1	56.6	40	0.6878	12:29:01	21-Nov-12		
220	12.3	56.6	41	0.7198	12:30:01	21-Nov-12		
221	12.2	56.7	41	0.7775	12:31:01	21-Nov-12		
222	13.8	56.7	41	0.9343	12:32:01	21-Nov-12		
223	11.9	56.7	41	0.7669	12:33:01	21-Nov-12		
224	12.9	56.7	41	0.9498	12:34:01	21-Nov-12		
225	12.7	56.8	41	1.0162	12:35:01	21-Nov-12		

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
226	12.1	56.8	41	0.7226	12:36:01	21-Nov-12	12.2	No Drilling - Lunch
227	12.1	56.8	41	0.7041	12:37:01	21-Nov-12		
228	12.3	56.8	41	0.7752	12:38:01	21-Nov-12		
229	12.3	56.9	41	0.7626	12:39:01	21-Nov-12		
230	11.9	56.9	41	0.7433	12:40:01	21-Nov-12		
231	12.2	56.9	41	0.7999	12:41:01	21-Nov-12		
232	12.9	57	41	0.8717	12:42:01	21-Nov-12		
233	12	57	41	0.8736	12:43:01	21-Nov-12		
234	11.4	57	41	0.7542	12:44:01	21-Nov-12		
235	11.6	57	41	0.7573	12:45:01	21-Nov-12		
236	12.7	57.1	40	0.8297	12:46:01	21-Nov-12		
237	12.5	57.1	40	0.805	12:47:01	21-Nov-12		
238	12.6	57.1	40	0.8382	12:48:01	21-Nov-12		
239	12.1	57.1	40	0.8098	12:49:01	21-Nov-12		
240	12.9	57.1	40	0.9606	12:50:01	21-Nov-12		
241	11.6	57.1	40	0.7977	12:51:01	21-Nov-12		
242	11.7	57.1	40	0.7111	12:52:01	21-Nov-12		
243	11.2	57.1	40	0.7106	12:53:01	21-Nov-12		
244	10.8	57.1	40	0.7182	12:54:01	21-Nov-12		
245	11.3	57.2	40	0.7308	12:55:01	21-Nov-12		
246	10.9	57.2	40	0.767	12:56:01	21-Nov-12		
247	11.2	57.2	40	0.7269	12:57:01	21-Nov-12		
248	11.5	57.2	40	0.7706	12:58:01	21-Nov-12		
249	11.5	57.2	40	0.7304	12:59:01	21-Nov-12		
250	11.7	57.2	40	0.8357	13:00:01	21-Nov-12		
251	11.4	57.2	40	0.7383	13:01:01	21-Nov-12		
252	11.1	57.2	40	0.8649	13:02:01	21-Nov-12		
253	11.4	57.2	40	0.7481	13:03:01	21-Nov-12		
254	11.4	57.2	40	0.8877	13:04:01	21-Nov-12		
255	11.7	57.2	40	0.8647	13:05:01	21-Nov-12		
256	11.4	57.2	39	0.8475	13:06:01	21-Nov-12		
257	11.1	57.2	39	0.6971	13:07:01	21-Nov-12		
258	11.8	57.2	39	0.8154	13:08:01	21-Nov-12		
259	12.9	57.2	39	0.8361	13:09:01	21-Nov-12		
260	12.7	57.2	39	0.8392	13:10:01	21-Nov-12		
261	11.5	57.3	39	0.811	13:11:01	21-Nov-12		
262	11.6	57.2	39	0.8019	13:12:01	21-Nov-12		
263	11.3	57.2	39	0.7423	13:13:01	21-Nov-12		
264	12.1	57.3	39	0.82	13:14:01	21-Nov-12		
265	11.9	57.3	39	0.7944	13:15:01	21-Nov-12		
266	26.3	57.3	39	2.1393	13:16:01	21-Nov-12		
267	12.5	57.3	39	0.9781	13:17:01	21-Nov-12		
268	11.5	57.3	39	0.7676	13:18:01	21-Nov-12		
269	12	57.3	39	0.9965	13:19:01	21-Nov-12		
270	12.1	57.3	39	0.9895	13:20:01	21-Nov-12		
271	21.2	57.3	39	1.1499	13:21:01	21-Nov-12		
272	80.1	57.3	39	1.3676	13:22:01	21-Nov-12		
273	57.1	57.3	39	1.1568	13:23:01	21-Nov-12		
274	129.2	57.3	39	2.245	13:24:01	21-Nov-12		
275	23.6	57.4	39	2.218	13:25:01	21-Nov-12		
276	21.8	57.4	39	0.7362	13:26:01	21-Nov-12		
277	14	57.4	39	0.8692	13:27:01	21-Nov-12		
278	10.6	57.5	39	0.8356	13:28:01	21-Nov-12		
279	13.3	57.5	39	0.8497	13:29:01	21-Nov-12		
280	9.9	57.5	39	0.6808	13:30:01	21-Nov-12		
281	16.9	57.6	39	0.7104	13:31:01	21-Nov-12		
282	13.4	57.6	39	1.0382	13:32:01	21-Nov-12		
283	11.2	57.7	39	0.8644	13:33:01	21-Nov-12		
284	10.6	57.7	39	0.8176	13:34:01	21-Nov-12		
285	10.3	57.7	38	0.7634	13:35:01	21-Nov-12		
286	10	57.8	38	0.7837	13:36:01	21-Nov-12		
287	10.2	57.8	38	0.7586	13:37:01	21-Nov-12		
288	9.7	57.9	38	0.6665	13:38:01	21-Nov-12		
289	10.7	58	38	0.8057	13:39:01	21-Nov-12		
290	25.6	58	38	2.0547	13:40:01	21-Nov-12		
291	23.4	58.1	38	1.7866	13:41:01	21-Nov-12		
292	12.6	58.1	38	1.2719	13:42:01	21-Nov-12		
293	11.1	58.1	38	0.97	13:43:01	21-Nov-12		
294	12.2	58.2	38	0.8651	13:44:01	21-Nov-12		
295	12.7	58.2	38	0.8706	13:45:01	21-Nov-12		
296	26.7	58.3	38	2.3092	13:46:01	21-Nov-12		
297	11.4	58.3	38	1.1523	13:47:01	21-Nov-12		
298	10.8	58.4	38	1.094	13:48:01	21-Nov-12		
299	17.6	58.4	37	0.8749	13:49:01	21-Nov-12		
300	10.3	58.5	37	0.8275	13:50:01	21-Nov-12		

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
301	11.6	58.6	37	0.7915	13:51:01	21-Nov-12	10.5	Drilling and Backfilling GTB-2
302	14.7	58.6	37	1.0685	13:52:01	21-Nov-12		
303	10	58.7	37	0.9307	13:53:01	21-Nov-12		
304	11.5	58.8	37	1.0027	13:54:01	21-Nov-12		
305	11.5	58.9	37	1.0179	13:55:01	21-Nov-12		
306	10.1	58.9	37	0.8225	13:56:01	21-Nov-12		
307	9.6	59	37	0.7297	13:57:01	21-Nov-12		
308	9.8	59.1	36	0.7117	13:58:01	21-Nov-12		
309	9.4	59.2	36	0.6591	13:59:01	21-Nov-12		
310	10.8	59.3	36	0.7783	14:00:01	21-Nov-12		
311	10.8	59.3	36	0.8034	14:01:01	21-Nov-12		
312	11.4	59.4	36	0.9373	14:02:01	21-Nov-12		
313	8.9	59.5	36	0.6574	14:03:01	21-Nov-12		
314	9.1	59.6	36	0.6326	14:04:01	21-Nov-12		
315	9	59.7	36	0.6255	14:05:01	21-Nov-12		
316	8.9	59.8	36	0.6021	14:06:01	21-Nov-12		
317	10.4	59.9	36	0.6992	14:07:01	21-Nov-12		
318	18.1	60	36	1.0551	14:08:01	21-Nov-12		
319	14.2	60.1	36	1.0973	14:09:01	21-Nov-12		
320	18.1	60.2	36	1.086	14:10:01	21-Nov-12		
321	13.2	60.2	36	1.0532	14:11:01	21-Nov-12		
322	12.6	60.3	36	1.4226	14:12:01	21-Nov-12		
323	9	60.4	36	0.7435	14:13:01	21-Nov-12		
324	11.4	60.5	35	0.9069	14:14:01	21-Nov-12		
325	11.4	60.6	35	0.8991	14:15:01	21-Nov-12		
326	14.6	60.7	35	1.3153	14:16:01	21-Nov-12		
327	107.4	60.8	35	4.0584	14:17:01	21-Nov-12		
328	30.1	60.8	35	3.2461	14:18:01	21-Nov-12		
329	9.6	60.9	35	0.8377	14:19:01	21-Nov-12		
330	75.8	60.9	35	2.3897	14:20:01	21-Nov-12		
331	17.9	61	35	2.3048	14:21:01	21-Nov-12		
332	55.3	61.1	35	2.867	14:22:01	21-Nov-12		
333	82.4	61.1	35	3.5313	14:23:01	21-Nov-12		
334	73.1	61.1	35	1.0092	14:24:01	21-Nov-12		
335	13.8	61.2	35	1.2141	14:25:01	21-Nov-12		
336	23.5	61.2	35	1.8739	14:26:01	21-Nov-12		
337	10.3	61.3	35	1.1068	14:27:01	21-Nov-12		
338	30.6	61.3	35	1.5913	14:28:01	21-Nov-12		
339	10.5	61.4	35	1.0169	14:29:01	21-Nov-12		
340	10.5	61.5	35	0.7945	14:30:01	21-Nov-12		
341	9.9	61.5	34	0.7535	14:31:01	21-Nov-12		
342	9.1	61.6	34	0.701	14:32:01	21-Nov-12		
343	8.9	61.6	34	0.6693	14:33:01	21-Nov-12		
344	10.8	61.7	34	0.8861	14:34:01	21-Nov-12		
345	11.4	61.7	34	1.1258	14:35:01	21-Nov-12		
346	9.1	61.8	34	0.7514	14:36:01	21-Nov-12		
347	10.1	61.8	34	0.6911	14:37:01	21-Nov-12		
348	13.1	61.8	34	0.9965	14:38:01	21-Nov-12		
349	19	61.9	34	2.3867	14:39:01	21-Nov-12		
350	9.6	61.9	33	0.9892	14:40:01	21-Nov-12		
351	12.4	62	33	0.8399	14:41:01	21-Nov-12		
352	9	62	33	0.951	14:42:01	21-Nov-12		
353	11	62	33	0.8425	14:43:01	21-Nov-12		
354	11.1	62	33	0.9108	14:44:01	21-Nov-12		
355	12.9	62.1	33	1.0055	14:45:01	21-Nov-12		
356	11.2	62.2	33	1.2024	14:46:01	21-Nov-12		
357	9.3	62.1	33	0.7197	14:47:01	21-Nov-12		
358	8.9	62.2	33	0.5967	14:48:01	21-Nov-12		
359	9	62.2	33	0.6667	14:49:01	21-Nov-12		
360	8.4	62.2	33	0.6479	14:50:01	21-Nov-12		
361	9	62.2	33	0.67	14:51:01	21-Nov-12		
362	12.6	62.2	33	0.9729	14:52:01	21-Nov-12		
363	9.8	62.2	32	0.9028	14:53:01	21-Nov-12		
364	9.3	62.2	32	0.7816	14:54:01	21-Nov-12		
365	11.1	62.2	32	0.8544	14:55:01	21-Nov-12		
366	12.3	62.2	32	1.4951	14:56:01	21-Nov-12		

Instrument: MiniRAE 2000  
 User ID: 00000001  
 Data Points: 364  
 Last Calibration Time: 11/16/2012 16:38

Serial Number: 005343  
 Site ID: 00000126  
 Sample Period: 60 sec  
 Gas Name: Isobutylene

Measurement Type: Min (ppm) Avg (ppm) Max (ppm)  
 High Alarm Levels: 100 100 100  
 Low Alarm Levels: 50 50 50

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
1	11/21/2012 8:52	0		0		0			
2	11/21/2012 8:53	0		0		0			
3	11/21/2012 8:54	0		0		0			
4	11/21/2012 8:55	0		0		0			
5	11/21/2012 8:56	0		0		0			
6	11/21/2012 8:57	0		0		0			
7	11/21/2012 8:58	0		0		0			
8	11/21/2012 8:59	0		0		0		0.0	
9	11/21/2012 9:00	0		0		0			
10	11/21/2012 9:01	0		0		0			
11	11/21/2012 9:02	0		0		0			
12	11/21/2012 9:03	0		0		0			
13	11/21/2012 9:04	0		0		0			
14	11/21/2012 9:05	0		0		0			
15	11/21/2012 9:06	0		0		0			
16	11/21/2012 9:07	0		0		0			
17	11/21/2012 9:08	0		0		0			
18	11/21/2012 9:09	0		0		0			
19	11/21/2012 9:10	0		0		0			
20	11/21/2012 9:11	0		0		0			
21	11/21/2012 9:12	0		0		0			
22	11/21/2012 9:13	0		0		0			
23	11/21/2012 9:14	0		0		0		0.0	
24	11/21/2012 9:15	0		0		0			
25	11/21/2012 9:16	0		0		0			
26	11/21/2012 9:17	0		0		0			
27	11/21/2012 9:18	0		0		0			
28	11/21/2012 9:19	0		0		0			
29	11/21/2012 9:20	0		0		0			
30	11/21/2012 9:21	0		0		0			
31	11/21/2012 9:22	0		0		0			
32	11/21/2012 9:23	0		0		0			
33	11/21/2012 9:24	0		0		0			
34	11/21/2012 9:25	0		0		0			
35	11/21/2012 9:26	0		0		0			
36	11/21/2012 9:27	0		0		0			
37	11/21/2012 9:28	0		0		0			
38	11/21/2012 9:29	0		0		0		0.0	
39	11/21/2012 9:30	0		0		0			
40	11/21/2012 9:31	0		0		0			
41	11/21/2012 9:32	0		0		0			
42	11/21/2012 9:33	0		0		0			
43	11/21/2012 9:34	0		0		0			
44	11/21/2012 9:35	0		0		0			
45	11/21/2012 9:36	0		0		0			
46	11/21/2012 9:37	0		0		0			
47	11/21/2012 9:38	0		0		0			
48	11/21/2012 9:39	0		0		0			
49	11/21/2012 9:40	0		0		0			
50	11/21/2012 9:41	0		0		0			
51	11/21/2012 9:42	0		0		0			
52	11/21/2012 9:43	0		0		0			
53	11/21/2012 9:44	0		0		0		0.0	
54	11/21/2012 9:45	0		0		0			
55	11/21/2012 9:46	0		0		0			
56	11/21/2012 9:47	0		0		0			
57	11/21/2012 9:48	0		0		0			
58	11/21/2012 9:49	0		0		0			
59	11/21/2012 9:50	0		0		0			
60	11/21/2012 9:51	0		0		0			
61	11/21/2012 9:52	0		0		0			
62	11/21/2012 9:53	0		0		0			
63	11/21/2012 9:54	0		0		0			
64	11/21/2012 9:55	0		0		0			
65	11/21/2012 9:56	0		0		0			
66	11/21/2012 9:57	0		0		0			
67	11/21/2012 9:58	0		0		0			
68	11/21/2012 9:59	0		0		0		0.0	Drilling GTB-1
69	11/21/2012 10:00	0		0		0			
70	11/21/2012 10:01	0		0		0			
71	11/21/2012 10:02	0		0		0			
72	11/21/2012 10:03	0		0		0			
73	11/21/2012 10:04	0		0		0			
74	11/21/2012 10:05	0		0		0			
75	11/21/2012 10:06	0		0		0			

Background air readings while setting up on first geotechnical boring location

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
76	11/21/2012 10:07	0		0		0			
77	11/21/2012 10:08	0		0		0			
78	11/21/2012 10:09	0		0		0			
79	11/21/2012 10:10	0		0		0			
80	11/21/2012 10:11	0		0		0			
81	11/21/2012 10:12	0		0		0			
82	11/21/2012 10:13	0		0		0			
83	11/21/2012 10:14	0		0		0		0.0	
84	11/21/2012 10:15	0		0		0			
85	11/21/2012 10:16	0		0		0			
86	11/21/2012 10:17	0		0		0			
87	11/21/2012 10:18	0		0		0			
88	11/21/2012 10:19	0		0		0			
89	11/21/2012 10:20	0		0		0			
90	11/21/2012 10:21	0		0		0			
91	11/21/2012 10:22	0		0		0			
92	11/21/2012 10:23	0		0		0			
93	11/21/2012 10:24	0		0		0			
94	11/21/2012 10:25	0		0		0			
95	11/21/2012 10:26	0		0		0			
96	11/21/2012 10:27	0		0		0			
97	11/21/2012 10:28	0		0		0			
98	11/21/2012 10:29	0		0		0		0.0	
99	11/21/2012 10:30	0		0		0			
100	11/21/2012 10:31	0		0		0			
101	11/21/2012 10:32	0		0		0			
102	11/21/2012 10:33	0		0		0			
103	11/21/2012 10:34	0		0		0			
104	11/21/2012 10:35	0		0		0			
105	11/21/2012 10:36	0		0		0			Drilling GTB-1
106	11/21/2012 10:37	0		0		0			
107	11/21/2012 10:38	0		0		0			
108	11/21/2012 10:39	0		0		0			
109	11/21/2012 10:40	0		0		0			
110	11/21/2012 10:41	0		0		0			
111	11/21/2012 10:42	0		0		0			
112	11/21/2012 10:43	0		0		0			
113	11/21/2012 10:44	0		0		0		0.0	
114	11/21/2012 10:45	0		0		0			
115	11/21/2012 10:46	0		0		0			
116	11/21/2012 10:47	0		0		0			
117	11/21/2012 10:48	0		0		0			
118	11/21/2012 10:49	0		0		0			
119	11/21/2012 10:50	0		0		0			
120	11/21/2012 10:51	0		0		0			
121	11/21/2012 10:52	0		0		0			
122	11/21/2012 10:53	0		0		0			
123	11/21/2012 10:54	0		0		0			
124	11/21/2012 10:55	0		0		0			
125	11/21/2012 10:56	0		0		0			
126	11/21/2012 10:57	0		0		0			
127	11/21/2012 10:58	0		0		0			
128	11/21/2012 10:59	0		0		0		0.0	
129	11/21/2012 11:00	0		0		0			
130	11/21/2012 11:01	0		0		0			
131	11/21/2012 11:02	0		0		0			
132	11/21/2012 11:03	0		0		0			
133	11/21/2012 11:04	0		0		0			
134	11/21/2012 11:05	0		0		0			
135	11/21/2012 11:06	0		0		0			
136	11/21/2012 11:07	0		0		0			
137	11/21/2012 11:08	0		0		0			
138	11/21/2012 11:09	0		0		0			
139	11/21/2012 11:10	0		0		0			
140	11/21/2012 11:11	0		0		0			
141	11/21/2012 11:12	0		0		0			
142	11/21/2012 11:13	0		0		0			
143	11/21/2012 11:14	0		0		0		0.0	Coring GTB-1
144	11/21/2012 11:15	0		0		0			
145	11/21/2012 11:16	0		0		0			
146	11/21/2012 11:17	0		0		0			
147	11/21/2012 11:18	0		0		0			
148	11/21/2012 11:19	0		0		0			
149	11/21/2012 11:20	0		0		0			
150	11/21/2012 11:21	0		0		0			

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
151	11/21/2012 11:22	0		0		0			
152	11/21/2012 11:23	0		0		0			
153	11/21/2012 11:24	0		0		0			
154	11/21/2012 11:25	0		0		0			
155	11/21/2012 11:26	0		0		0			Coring GTB-1
156	11/21/2012 11:27	0		0		0			
157	11/21/2012 11:28	0		0		0			
158	11/21/2012 11:29	0		0		0		0.0	
159	11/21/2012 11:30	0		0		0			
160	11/21/2012 11:31	0		0		0			
161	11/21/2012 11:32	0		0		0			
162	11/21/2012 11:33	0		0		0			Backfilling GTB-1
163	11/21/2012 11:34	0		0		0			
164	11/21/2012 11:35	0		0		0			
165	11/21/2012 11:36	0		0		0			
166	11/21/2012 11:37	0		0		0			
167	11/21/2012 11:38	0		0		0			
168	11/21/2012 11:39	0		0		0			
169	11/21/2012 11:40	0		0		0			
170	11/21/2012 11:41	0		0		0			
171	11/21/2012 11:42	0		0		0			
172	11/21/2012 11:43	0		0		0			
173	11/21/2012 11:44	0		0		0		0.0	
174	11/21/2012 11:45	0		0		0			
175	11/21/2012 11:46	0		0		0			
176	11/21/2012 11:47	0		0		0			
177	11/21/2012 11:48	0		0		0			
178	11/21/2012 11:49	0		0		0			
179	11/21/2012 11:50	0		0		0			
180	11/21/2012 11:51	0		0		0			
181	11/21/2012 11:52	0		0		0			
182	11/21/2012 11:53	0		0		0			
183	11/21/2012 11:54	0		0		0			
184	11/21/2012 11:55	0		0		0			
185	11/21/2012 11:56	0		0		0		0.0	
186	11/21/2012 11:57	0		0		0			
187	11/21/2012 11:58	0		0		0			
188	11/21/2012 11:59	0		0		0			
189	11/21/2012 12:00	0		0		0			
190	11/21/2012 12:01	0		0		0			
191	11/21/2012 12:02	0		0		0			
192	11/21/2012 12:03	0		0		0			
193	11/21/2012 12:04	0		0		0			
194	11/21/2012 12:05	0		0		0			
195	11/21/2012 12:06	0		0		0			No Drilling - Lunch
196	11/21/2012 12:07	0		0		0			
197	11/21/2012 12:08	0		0		0			
198	11/21/2012 12:09	0		0		0			
199	11/21/2012 12:10	0		0		0			
200	11/21/2012 12:11	0		0		0			
201	11/21/2012 12:12	0		0		0			
202	11/21/2012 12:13	0		0		0			
203	11/21/2012 12:14	0		0		0			
204	11/21/2012 12:15	0		0		0		0.0	
205	11/21/2012 12:16	0		0		0			
206	11/21/2012 12:17	0		0		0			
207	11/21/2012 12:18	0		0		0			
208	11/21/2012 12:19	0		0		0			
209	11/21/2012 12:20	0		0		0			
210	11/21/2012 12:21	0		0		0			
211	11/21/2012 12:22	0		0		0			
212	11/21/2012 12:23	0		0		0			
213	11/21/2012 12:24	0		0		0			
214	11/21/2012 12:25	0		0		0			
215	11/21/2012 12:26	0		0		0			
216	11/21/2012 12:27	0		0		0			
217	11/21/2012 12:28	0		0		0			
218	11/21/2012 12:29	0		0		0		0.0	
219	11/21/2012 12:30	0		0		0			
220	11/21/2012 12:31	0		0		0			
221	11/21/2012 12:32	0		0		0			
222	11/21/2012 12:33	0		0		0			
223	11/21/2012 12:34	0		0		0			
224	11/21/2012 12:35	0		0		0			
225	11/21/2012 12:36	0		0		0			



Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
226	11/21/2012 12:37	0		0		0			
227	11/21/2012 12:38	0		0		0			
228	11/21/2012 12:39	0		0		0			
229	11/21/2012 12:40	0		0		0			
230	11/21/2012 12:41	0		0		0			
231	11/21/2012 12:42	0		0		0			
232	11/21/2012 12:43	0		0		0			
233	11/21/2012 12:44	0		0		0		0.0	No Drilling - Lunch
234	11/21/2012 12:45	0		0		0			
235	11/21/2012 12:46	0		0		0			
236	11/21/2012 12:47	0		0		0			
237	11/21/2012 12:48	0		0		0			
238	11/21/2012 12:49	0		0		0			
239	11/21/2012 12:50	0		0		0			
240	11/21/2012 12:51	0		0		0			
241	11/21/2012 12:52	0		0		0			
242	11/21/2012 12:53	0		0		0			
243	11/21/2012 12:54	0		0		0			
244	11/21/2012 12:55	0		0		0			
245	11/21/2012 12:56	0		0		0			
246	11/21/2012 12:57	0		0		0			
247	11/21/2012 12:58	0		0		0			
248	11/21/2012 12:59	0		0		0		0.0	
249	11/21/2012 13:00	0		0		0			
250	11/21/2012 13:01	0		0		0			
251	11/21/2012 13:02	0		0		0			
252	11/21/2012 13:03	0		0		0			
253	11/21/2012 13:04	0		0		0			Cutting Trees
254	11/21/2012 13:05	0		0		0			
255	11/21/2012 13:06	0		0		0			
256	11/21/2012 13:07	0		0		0			
257	11/21/2012 13:08	0		0		0			
258	11/21/2012 13:09	0		0		0			
259	11/21/2012 13:10	0		0		0			
260	11/21/2012 13:11	0		0		0			
261	11/21/2012 13:12	0		0		0			
262	11/21/2012 13:13	0		0		0			
263	11/21/2012 13:14	0		0		0		0.0	
264	11/21/2012 13:15	0		0		0			
265	11/21/2012 13:16	0		0		0			
266	11/21/2012 13:17	0		0		0			
267	11/21/2012 13:18	0		0		0			
268	11/21/2012 13:19	0		0		0			
269	11/21/2012 13:20	0		0		0			
270	11/21/2012 13:21	0		0		0.1			
271	11/21/2012 13:22	0		0		0.6			
272	11/21/2012 13:23	0		0		0			
273	11/21/2012 13:24	0		0		0			
274	11/21/2012 13:25	0		0		0			
275	11/21/2012 13:26	0		0		0			
276	11/21/2012 13:27	0		0		0			
277	11/21/2012 13:28	0		0		0			
278	11/21/2012 13:29	0		0		0		0.0	Moving to and setting up on GTB-2
279	11/21/2012 13:30	0		0		0			
280	11/21/2012 13:31	0		0		0			
281	11/21/2012 13:32	0		0		0.5			
282	11/21/2012 13:33	0		0		0			
283	11/21/2012 13:34	0		0		0			
284	11/21/2012 13:35	0		0		0			
285	11/21/2012 13:36	0		0		0			
286	11/21/2012 13:37	0		0		0			
287	11/21/2012 13:38	0		0		0			
288	11/21/2012 13:39	0		0		0			
289	11/21/2012 13:40	0		0		0			
290	11/21/2012 13:41	0		0		0			
291	11/21/2012 13:42	0		0		0			
292	11/21/2012 13:43	0		0		0			
293	11/21/2012 13:44	0		0		0		0.0	
294	11/21/2012 13:45	0		0		0			
295	11/21/2012 13:46	0		0		0			
296	11/21/2012 13:47	0		0		0			Drilling GTB-2
297	11/21/2012 13:48	0		0		0.1			
298	11/21/2012 13:49	0		0		0			
299	11/21/2012 13:50	0		0		0			
300	11/21/2012 13:51	0		0		0			

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
301	11/21/2012 13:52	0		0		0			
302	11/21/2012 13:53	0		0		0			
303	11/21/2012 13:54	0		0		0			
304	11/21/2012 13:55	0		0		0			
305	11/21/2012 13:56	0		0		0			
306	11/21/2012 13:57	0		0		0			
307	11/21/2012 13:58	0		0		0			
308	11/21/2012 13:59	0		0		0		0.0	
309	11/21/2012 14:00	0		0		0			
310	11/21/2012 14:01	0		0		0			
311	11/21/2012 14:02	0		0		0			
312	11/21/2012 14:03	0		0		0			
313	11/21/2012 14:04	0		0		0			
314	11/21/2012 14:05	0		0		0			Drilling and Backfilling
315	11/21/2012 14:06	0		0		0			GTB-2
316	11/21/2012 14:07	0		0		0			
317	11/21/2012 14:08	0		0		0			
318	11/21/2012 14:09	0		0		0			
319	11/21/2012 14:10	0		0		0			
320	11/21/2012 14:11	0		0		0			
321	11/21/2012 14:12	0		0		0			
322	11/21/2012 14:13	0		0		0			
323	11/21/2012 14:14	0		0		0		0.0	
324	11/21/2012 14:15	0		0		0			
325	11/21/2012 14:16	0		0		0			
326	11/21/2012 14:17	0		0		0			
327	11/21/2012 14:18	0		0		0			
328	11/21/2012 14:19	0		0		0			
329	11/21/2012 14:20	0		0		0			
330	11/21/2012 14:21	0		0		0			
331	11/21/2012 14:22	0		0		0			Moving to and setting up on
332	11/21/2012 14:23	0		0		0			GTB-3
333	11/21/2012 14:24	0		0		0			
334	11/21/2012 14:25	0		0		0			
335	11/21/2012 14:26	0		0		0			
336	11/21/2012 14:27	0		0		0			
337	11/21/2012 14:28	0		0		0			
338	11/21/2012 14:29	0		0		0		0.0	
339	11/21/2012 14:30	0		0		0			
340	11/21/2012 14:31	0		0		0			
341	11/21/2012 14:32	0		0		0			
342	11/21/2012 14:33	0		0		0			
343	11/21/2012 14:34	0		0		0			
344	11/21/2012 14:35	0		0		0			
345	11/21/2012 14:36	0		0		0			
346	11/21/2012 14:37	0		0		0			
347	11/21/2012 14:38	0		0		0			Drilling GTB-3
348	11/21/2012 14:39	0		0		0			and setting casing for coring
349	11/21/2012 14:40	0		0		0			
350	11/21/2012 14:41	0		0		0			
351	11/21/2012 14:42	0		0		0			
352	11/21/2012 14:43	0		0		0			
353	11/21/2012 14:44	0		0		0		0.0	
354	11/21/2012 14:45	0		0		0			
355	11/21/2012 14:46	0		0		0			
356	11/21/2012 14:47	0		0		0			
357	11/21/2012 14:48	0		0		0			
358	11/21/2012 14:49	0		0		0			
359	11/21/2012 14:50	0		0		0			
360	11/21/2012 14:51	0		0		0			
361	11/21/2012 14:52	0		0		0			
362	11/21/2012 14:53	0		0		0			
363	11/21/2012 14:54	0		0		0		0.0	
364	11/21/2012 14:55	0		0		0			Shut down air monitors

Model Number	DataRAM 4	Temp. Units	F
Serial No.	D147 !	Max Mass	327.311
Device No.	1	Max Mass @	138 - 10:26:56
Tag Number	1	Avg Mass	20.30492
Start Time	8:08:56	Max Diam	1.593316
Start Date	26-Nov-12	Max Diam @	158 - 10:46:56
Log Period	0:01:00	Avg Diam	0.68403
Number	178	Alarm	ENABLED
Cal. Factor	1	Alarm Level	100
Unit	0	Auto Zero	DISABLED
Unit Name	(MASS )ug/m3	AZ Interval	1
Size Correct	DISABLED	Errors	0

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
1	16.6	60.5	39	0.3865	8:09:56	26-Nov-12	21.8	Background air readings while setting up to core GTB-3
2	19.8	60.4	37	0.584	8:10:56	26-Nov-12		
3	20.1	60.3	36	0.6079	8:11:56	26-Nov-12		
4	23.7	60.1	35	0.569	8:12:56	26-Nov-12		
5	22	60	35	0.5768	8:13:56	26-Nov-12		
6	20.6	59.9	34	0.56	8:14:56	26-Nov-12		
7	21.1	59.7	34	0.5745	8:15:56	26-Nov-12		
8	21.8	59.5	33	0.6427	8:16:56	26-Nov-12		
9	26.7	59.4	33	0.7905	8:17:56	26-Nov-12		
10	21.2	59.3	33	0.5996	8:18:56	26-Nov-12		
11	23.5	59.2	32	0.6724	8:19:56	26-Nov-12		
12	21.6	59.1	32	0.6338	8:20:56	26-Nov-12		
13	22	58.9	32	0.651	8:21:56	26-Nov-12		
14	21.6	58.8	32	0.6309	8:22:56	26-Nov-12		
15	25.4	58.6	32	0.5906	8:23:56	26-Nov-12		
16	26.5	58.5	32	0.5677	8:24:56	26-Nov-12		
17	23	58.4	31	0.5635	8:25:56	26-Nov-12		
18	26.5	58.3	31	0.5906	8:26:56	26-Nov-12		
19	22.7	58.1	31	0.6251	8:27:56	26-Nov-12		
20	26.8	57.9	31	0.6674	8:28:56	26-Nov-12		
21	22.7	57.7	31	0.5905	8:29:56	26-Nov-12		
22	23.3	57.6	31	0.5852	8:30:56	26-Nov-12		
23	23	57.5	31	0.6335	8:31:56	26-Nov-12		
24	23.5	57.4	31	0.664	8:32:56	26-Nov-12		
25	23.7	57.3	31	0.6821	8:33:56	26-Nov-12		
26	22.9	57.1	31	0.6442	8:34:56	26-Nov-12		
27	22	56.9	31	0.6244	8:35:56	26-Nov-12		
28	22.5	56.8	31	0.6509	8:36:56	26-Nov-12		
29	21.8	56.6	31	0.5949	8:37:56	26-Nov-12		
30	22.5	56.5	31	0.6104	8:38:56	26-Nov-12		
31	22	56.4	31	0.6043	8:39:56	26-Nov-12		
32	23.1	56.3	31	0.646	8:40:56	26-Nov-12		
33	22.2	56.1	31	0.6224	8:41:56	26-Nov-12		
34	22.5	56	31	0.5988	8:42:56	26-Nov-12		
35	22.9	55.8	31	0.592	8:43:56	26-Nov-12		
36	22.1	55.7	31	0.6106	8:44:56	26-Nov-12		
37	22	55.6	31	0.5767	8:45:56	26-Nov-12		
38	22.5	55.5	32	0.6299	8:46:56	26-Nov-12		
39	22.8	55.4	32	0.6114	8:47:56	26-Nov-12		
40	22.5	55.3	31	0.6076	8:48:56	26-Nov-12		
41	23	55.1	32	0.6435	8:49:56	26-Nov-12		
42	22.7	55	32	0.6516	8:50:56	26-Nov-12		
43	22.8	54.9	32	0.6145	8:51:56	26-Nov-12		
44	22.4	54.8	32	0.6162	8:52:56	26-Nov-12		
45	22.7	54.6	32	0.6047	8:53:56	26-Nov-12		
46	22.8	54.6	32	0.6072	8:54:56	26-Nov-12		
47	23.1	54.4	32	0.6052	8:55:56	26-Nov-12		
48	23.4	54.3	32	0.6656	8:56:56	26-Nov-12		
49	23.1	54.1	32	0.6206	8:57:56	26-Nov-12		
50	23	54	32	0.6174	8:58:56	26-Nov-12		
51	24.8	53.9	32	0.68	8:59:56	26-Nov-12		
52	23.8	53.8	32	0.6613	9:00:56	26-Nov-12		
53	23.1	53.7	33	0.6438	9:01:56	26-Nov-12		
54	23.1	53.6	33	0.629	9:02:56	26-Nov-12		
55	23.4	53.5	33	0.6167	9:03:56	26-Nov-12		
56	23.2	53.4	33	0.6054	9:04:56	26-Nov-12		
57	25.5	53.3	33	0.7132	9:05:56	26-Nov-12		
58	23.4	53.2	33	0.6632	9:06:56	26-Nov-12		
59	23	53.1	33	0.6255	9:07:56	26-Nov-12		
60	23.3	53	33	0.631	9:08:56	26-Nov-12		
61	24.9	52.9	33	0.634	9:09:56	26-Nov-12		
62	23.8	52.8	33	0.6518	9:10:56	26-Nov-12		
63	23.2	52.7	33	0.6481	9:11:56	26-Nov-12		
64	23.2	52.6	33	0.6068	9:12:56	26-Nov-12		
65	22.2	52.6	33	0.6004	9:13:56	26-Nov-12		
66	23.5	52.4	33	0.649	9:14:56	26-Nov-12		
67	23.5	52.3	33	0.6502	9:15:56	26-Nov-12		
68	23.9	52.2	34	0.6818	9:16:56	26-Nov-12		
69	24.4	52.1	34	0.6465	9:17:56	26-Nov-12		
70	23.9	52.1	34	0.6877	9:18:56	26-Nov-12		
71	23.7	51.9	34	0.6658	9:19:56	26-Nov-12		
72	23.5	51.9	34	0.6255	9:20:56	26-Nov-12		
73	23.1	51.8	34	0.6331	9:21:56	26-Nov-12		
74	23.5	51.7	34	0.6293	9:22:56	26-Nov-12		
75	23	51.6	34	0.6435	9:23:56	26-Nov-12		

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
76	23.7	51.4	34	0.6711	9:24:56	26-Nov-12	22.9	
77	23.4	51.4	34	0.7011	9:25:56	26-Nov-12		
78	22.5	51.3	34	0.6373	9:26:56	26-Nov-12		
79	23	51.2	34	0.6653	9:27:56	26-Nov-12		
80	23.1	51.2	35	0.6369	9:28:56	26-Nov-12		
81	23.5	51.1	35	0.6558	9:29:56	26-Nov-12		
82	22.3	51	35	0.6142	9:30:56	26-Nov-12		
83	23	50.9	35	0.6464	9:31:56	26-Nov-12		
84	22.3	50.8	35	0.6499	9:32:56	26-Nov-12		
85	22.2	50.7	35	0.6699	9:33:56	26-Nov-12		
86	22.6	50.7	35	0.6755	9:34:56	26-Nov-12		
87	22.2	50.5	35	0.6907	9:35:56	26-Nov-12		
88	24	50.5	35	0.7272	9:36:56	26-Nov-12		
89	23.1	50.4	35	0.7087	9:37:56	26-Nov-12		
90	22.4	50.4	35	0.6987	9:38:56	26-Nov-12		
91	21.2	50.3	35	0.6593	9:39:56	26-Nov-12	Coring GTB-3	
92	21.1	50.3	36	0.608	9:40:56	26-Nov-12		
93	20.8	50.2	36	0.6317	9:41:56	26-Nov-12		
94	20.1	50.1	36	0.6367	9:42:56	26-Nov-12		
95	22.4	50.1	36	0.6278	9:43:56	26-Nov-12		
96	21.6	50	36	0.6652	9:44:56	26-Nov-12		
97	21.1	49.9	36	0.6358	9:45:56	26-Nov-12		
98	20.8	49.9	36	0.6917	9:46:56	26-Nov-12		
99	19.2	49.8	36	0.6805	9:47:56	26-Nov-12		
100	18.1	49.8	36	0.6623	9:48:56	26-Nov-12		
101	15.7	49.7	36	0.6439	9:49:56	26-Nov-12		
102	16.1	49.6	36	0.6479	9:50:56	26-Nov-12		
103	16.5	49.6	36	0.6614	9:51:56	26-Nov-12		
104	16.7	49.5	36	0.611	9:52:56	26-Nov-12		
105	15.3	49.5	36	0.5883	9:53:56	26-Nov-12		
106	16.1	49.4	36	0.6486	9:54:56	26-Nov-12		
107	15.2	49.4	36	0.6556	9:55:56	26-Nov-12		
108	14.6	49.3	36	0.5907	9:56:56	26-Nov-12		
109	16.7	49.3	36	0.7596	9:57:56	26-Nov-12		
110	14	49.2	36	0.6263	9:58:56	26-Nov-12		
111	14	49.2	36	0.6441	9:59:56	26-Nov-12		
112	13.4	49.2	36	0.6341	10:00:56	26-Nov-12		
113	13.4	49.1	36	0.7128	10:01:56	26-Nov-12		
114	14.4	49.1	36	0.8122	10:02:56	26-Nov-12		
115	13.6	49.1	36	0.7257	10:03:56	26-Nov-12		
116	14.1	49.1	36	0.6497	10:04:56	26-Nov-12		
117	16.9	49.1	36	0.8428	10:05:56	26-Nov-12		
118	14.1	49.1	36	0.8643	10:06:56	26-Nov-12		
119	17.2	49.1	36	0.9845	10:07:56	26-Nov-12		
120	14.7	49.1	36	0.9793	10:08:56	26-Nov-12		
121	12.5	49.2	36	0.876	10:09:56	26-Nov-12		
122	11.4	49.2	36	0.7796	10:10:56	26-Nov-12		
123	12.8	49.2	35	0.8609	10:11:56	26-Nov-12		
124	12.1	49.3	35	0.775	10:12:56	26-Nov-12		
125	12.2	49.3	35	0.7118	10:13:56	26-Nov-12		
126	12.7	49.4	35	0.8071	10:14:56	26-Nov-12		
127	11.4	49.4	35	0.7894	10:15:56	26-Nov-12		
128	11.1	49.5	35	0.8179	10:16:56	26-Nov-12		
129	10.8	49.6	35	0.6675	10:17:56	26-Nov-12		
130	10.5	49.7	35	0.7719	10:18:56	26-Nov-12		
131	11.1	49.8	35	0.8978	10:19:56	26-Nov-12		
132	9.6	49.9	35	0.6798	10:20:56	26-Nov-12		
133	9.1	50	35	0.5858	10:21:56	26-Nov-12		
134	10.5	50.1	35	0.585	10:22:56	26-Nov-12		
135	10.4	50.2	35	0.7565	10:23:56	26-Nov-12		
136	10.4	50.3	35	0.7114	10:24:56	26-Nov-12		
137	9.4	50.3	35	0.583	10:25:56	26-Nov-12		
138	327.3	50.4	35	0.676	10:26:56	26-Nov-12		
139	74.9	50.5	34	0.4314	10:27:56	26-Nov-12		
140	10.8	50.6	34	0.7072	10:28:56	26-Nov-12		
141	10.8	50.7	34	0.8801	10:29:56	26-Nov-12		
142	11.9	50.8	34	0.9517	10:30:56	26-Nov-12		
143	10.9	50.9	34	0.9323	10:31:56	26-Nov-12		
144	10.4	51	34	0.6855	10:32:56	26-Nov-12		
145	11.4	51.2	34	0.6787	10:33:56	26-Nov-12		
146	15.4	51.2	34	1.0761	10:34:56	26-Nov-12		
147	11.5	51.3	34	0.8516	10:35:56	26-Nov-12		
148	13.5	51.4	34	0.7196	10:36:56	26-Nov-12		
149	12	51.6	34	0.8407	10:37:56	26-Nov-12		
150	9.5	51.7	34	0.6632	10:38:56	26-Nov-12		

Moving to GTB-4, Diesel exhaust blowing over meters at 10:25 causing the large spike

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
151	9.5	51.8	34	0.6342	10:39:56	26-Nov-12	12.0	Moving to and setting up on GTB-4
152	9.5	51.9	34	0.6356	10:40:56	26-Nov-12		
153	9.1	52	33	0.616	10:41:56	26-Nov-12		
154	9.9	52.1	33	0.6607	10:42:56	26-Nov-12		
155	10.4	52.2	33	0.7486	10:43:56	26-Nov-12		
156	13.9	52.3	33	0.9642	10:44:56	26-Nov-12		
157	32.8	52.5	33	1.0887	10:45:56	26-Nov-12		
158	14.3	52.7	33	1.5933	10:46:56	26-Nov-12		
159	9.1	52.8	33	0.6127	10:47:56	26-Nov-12		
160	9	52.9	33	0.6056	10:48:56	26-Nov-12		
161	10.6	53	33	0.6571	10:49:56	26-Nov-12		
162	10.8	53.2	33	0.7187	10:50:56	26-Nov-12		
163	10.4	53.3	33	0.6701	10:51:56	26-Nov-12		
164	9.8	53.4	33	0.6509	10:52:56	26-Nov-12		
165	10.5	53.6	33	0.7241	10:53:56	26-Nov-12		
166	10.4	53.7	33	0.6979	10:54:56	26-Nov-12		
167	10.4	53.8	33	0.6957	10:55:56	26-Nov-12		
168	9.4	53.9	32	0.5945	10:56:56	26-Nov-12		
169	8.6	54.1	32	0.5732	10:57:56	26-Nov-12		
170	11.3	54.2	32	0.7072	10:58:56	26-Nov-12		
171	12.3	54.4	32	0.9217	10:59:56	26-Nov-12		
172	12.1	54.5	32	1.0462	11:00:56	26-Nov-12		
173	10.5	54.6	32	0.6334	11:01:56	26-Nov-12		
174	10.1	54.7	32	0.8069	11:02:56	26-Nov-12		
175	10.9	54.8	32	0.7344	11:03:56	26-Nov-12		
176	10	54.9	32	0.6486	11:04:56	26-Nov-12		
177	11.3	54.9	32	0.7439	11:05:56	26-Nov-12		
178	12	55	32	0.9591	11:06:56	26-Nov-12		
179	7.8	55.6	31	0.5759	12:11:55	26-Nov-12		
180	10.3	55.6	31	0.9809	12:12:55	26-Nov-12		
181	7	55.7	31	0.7879	12:13:55	26-Nov-12		
182	6.3	55.8	31	0.5802	12:14:55	26-Nov-12		
183	6.9	55.8	30	0.5207	12:15:55	26-Nov-12		
184	8.2	55.9	30	0.6847	12:16:55	26-Nov-12		
185	7.1	56	30	0.5261	12:17:55	26-Nov-12		
186	6.9	56.1	30	0.5058	12:18:55	26-Nov-12		
187	12.3	56.1	30	1.0125	12:19:55	26-Nov-12		
188	12.3	56.2	30	1.6633	12:20:55	26-Nov-12		
189	6.6	56.3	30	0.5465	12:21:55	26-Nov-12		
190	6.6	56.3	30	0.4922	12:22:55	26-Nov-12		
191	6.7	56.4	30	0.4887	12:23:55	26-Nov-12		
192	7	56.4	29	0.5341	12:24:55	26-Nov-12		
193	6.3	56.5	29	0.4568	12:25:55	26-Nov-12		
194	6.7	56.5	29	0.497	12:26:55	26-Nov-12		
195	6.5	56.6	29	0.4966	12:27:55	26-Nov-12		
196	6.8	56.6	29	0.5359	12:28:55	26-Nov-12		
197	6.1	56.7	29	0.4966	12:29:55	26-Nov-12		
198	6.5	56.8	29	0.5043	12:30:55	26-Nov-12		
199	7.2	56.8	29	0.5155	12:31:55	26-Nov-12		
200	7.7	56.9	29	0.5312	12:32:55	26-Nov-12		
201	7.4	56.9	29	0.6155	12:33:55	26-Nov-12		
202	7.4	57	29	0.5184	12:34:55	26-Nov-12		
203	11.4	57	29	0.767	12:35:55	26-Nov-12		
204	6.6	57.1	29	0.4711	12:36:55	26-Nov-12		
205	6.3	57.1	29	0.4585	12:37:55	26-Nov-12		
206	6.5	57.1	28	0.5244	12:38:55	26-Nov-12		
207	6.5	57.1	28	0.5313	12:39:55	26-Nov-12		
208	6	57.1	28	0.4341	12:40:55	26-Nov-12		
209	6.7	57.1	28	0.5185	12:41:55	26-Nov-12		
210	6	57.1	28	0.4732	12:42:55	26-Nov-12		
211	6.7	57.1	28	0.5196	12:43:55	26-Nov-12		
212	8.1	57.1	28	0.7748	12:44:55	26-Nov-12		
213	6.9	57.1	28	0.4593	12:45:55	26-Nov-12		
214	6.8	57.1	28	0.4974	12:46:55	26-Nov-12		
215	7	57.1	28	0.5658	12:47:55	26-Nov-12		
216	26	57.1	28	2.7147	12:48:55	26-Nov-12		
217	8.7	57	28	1.5877	12:49:55	26-Nov-12		
218	8.1	57	28	1.0638	12:50:55	26-Nov-12		
219	6	57	28	0.5132	12:51:55	26-Nov-12		
220	13.1	56.9	28	0.5991	12:52:55	26-Nov-12		
221	5.5	56.9	28	0.4866	12:53:55	26-Nov-12		
222	5.7	56.9	28	0.5139	12:54:55	26-Nov-12		
223	7.2	56.8	28	0.5452	12:55:55	26-Nov-12		
224	5.7	56.8	28	0.5255	12:56:55	26-Nov-12		
225	6	56.8	28	0.5508	12:57:55	26-Nov-12		



Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
301	5.5	56	28	0.5574	14:13:55	26-Nov-12	5.9	Coring GTB-4
302	6.8	56	28	0.7013	14:14:55	26-Nov-12		
303	5.8	56	28	0.5485	14:15:55	26-Nov-12		
304	7	56	28	0.496	14:16:55	26-Nov-12		
305	8.2	56.1	28	0.7612	14:17:55	26-Nov-12		
306	5.9	56.1	28	0.5801	14:18:55	26-Nov-12		
307	5	56.1	28	0.4511	14:19:55	26-Nov-12		
308	5.3	56.1	28	0.5059	14:20:55	26-Nov-12		
309	5.5	56.2	28	0.4839	14:21:55	26-Nov-12		
310	5.5	56.2	28	0.4635	14:22:55	26-Nov-12		
311	5.5	56.2	28	0.5054	14:23:55	26-Nov-12		
312	6	56.2	28	0.5399	14:24:55	26-Nov-12		
313	5.3	56.2	28	0.4668	14:25:55	26-Nov-12		
314	5.4	56.3	28	0.4866	14:26:55	26-Nov-12		
315	5.2	56.3	28	0.4941	14:27:55	26-Nov-12		
316	5.3	56.3	28	0.4778	14:28:55	26-Nov-12		
317	5.2	56.3	27	0.507	14:29:55	26-Nov-12		
318	5.5	56.3	28	0.5344	14:30:55	26-Nov-12		
319	5.2	56.4	28	0.4911	14:31:55	26-Nov-12		
320	5.6	56.4	27	0.5356	14:32:55	26-Nov-12		
321	5.2	56.4	28	0.541	14:33:55	26-Nov-12		
322	5.8	56.4	28	0.576	14:34:55	26-Nov-12		
323	5.2	56.4	28	0.4578	14:35:55	26-Nov-12		
324	5.4	56.4	27	0.4688	14:36:55	26-Nov-12		
325	5.7	56.4	27	0.5651	14:37:55	26-Nov-12		
326	5.4	56.5	27	0.4927	14:38:55	26-Nov-12		
327	6.3	56.5	27	0.6299	14:39:55	26-Nov-12		
328	9.5	56.5	27	1.1019	14:40:55	26-Nov-12		
329	6.8	56.5	27	0.5763	14:41:55	26-Nov-12		
330	5.2	56.5	27	0.4807	14:42:55	26-Nov-12		
331	7.9	56.5	27	0.7219	14:43:55	26-Nov-12		
332	6.6	56.5	27	0.586	14:44:55	26-Nov-12		
333	8	56.4	27	0.7365	14:45:55	26-Nov-12		
334	6	56.4	27	0.597	14:46:55	26-Nov-12		
335	5.7	56.5	27	0.5619	14:47:55	26-Nov-12		
336	6.5	56.4	27	0.6206	14:48:55	26-Nov-12		
337	7.2	56.4	27	0.6577	14:49:55	26-Nov-12		
338	5.9	56.4	27	0.5414	14:50:55	26-Nov-12		
339	6.3	56.4	27	0.6193	14:51:55	26-Nov-12		
340	5.6	56.4	27	0.5454	14:52:55	26-Nov-12		
341	5	56.4	27	0.4851	14:53:55	26-Nov-12		
342	5.2	56.4	27	0.4821	14:54:55	26-Nov-12		
343	4.8	56.4	27	0.4674	14:55:55	26-Nov-12		
344	5.2	56.4	27	0.4967	14:56:55	26-Nov-12		
345	5.7	56.4	27	0.5302	14:57:55	26-Nov-12		
346	5.5	56.4	27	0.5921	14:58:55	26-Nov-12		
347	7.4	56.3	27	0.787	14:59:55	26-Nov-12		
348	23.4	56.3	27	3.2519	15:00:55	26-Nov-12		
349	9.9	56.3	27	1.8335	15:01:55	26-Nov-12		
350	6.8	56.3	27	0.7175	15:02:55	26-Nov-12		
351	5.5	56.3	27	0.5717	15:03:55	26-Nov-12		
352	46.9	56.3	27	3.0748	15:04:55	26-Nov-12		
353	32.9	56.2	28	4.0647	15:05:55	26-Nov-12		
354	25.6	56.2	28	3.1414	15:06:55	26-Nov-12		
355	18.1	56.2	28	1.5757	15:07:55	26-Nov-12		
356	37.6	56.2	28	2.1576	15:08:55	26-Nov-12		
357	17.3	56.2	28	2.3321	15:09:55	26-Nov-12		
358	10.1	56.1	28	0.9299	15:10:55	26-Nov-12		
359	9.1	56.1	28	1.0141	15:11:55	26-Nov-12		
360	14.8	56.1	28	2.5078	15:12:55	26-Nov-12		
361	9	56.1	28	0.9771	15:13:55	26-Nov-12		
362	8.1	56	28	0.7245	15:14:55	26-Nov-12		
363	7.3	56	28	0.6062	15:15:55	26-Nov-12		
364	8.6	55.9	28	0.8256	15:16:55	26-Nov-12		
365	11.4	55.9	28	1.2226	15:17:55	26-Nov-12		
366	6.1	55.9	28	0.6292	15:18:55	26-Nov-12		
367	5.1	55.9	28	0.5611	15:19:55	26-Nov-12		
368	6	55.9	28	0.5914	15:20:55	26-Nov-12		
369	8.1	55.8	28	0.8849	15:21:55	26-Nov-12		
370	9.1	55.8	28	0.9863	15:22:55	26-Nov-12		
371	12.2	55.8	28	2.089	15:23:55	26-Nov-12		
372	9.6	55.7	28	1.2991	15:24:55	26-Nov-12		
373	6.6	55.7	28	0.6762	15:25:55	26-Nov-12		
374	5.4	55.7	28	0.606	15:26:55	26-Nov-12		
375	5.3	55.6	28	0.6152	15:27:55	26-Nov-12		

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
376	13.5	55.6	28	1.4412	15:28:55	26-Nov-12	9.2	Drilling GTB-5
377	7	55.6	28	1.0328	15:29:55	26-Nov-12		
378	7.6	55.5	28	0.7628	15:30:55	26-Nov-12		
379	5.9	55.5	28	0.6029	15:31:55	26-Nov-12		Packing up for day, shut down air monitors
380	7.1	55.5	28	0.8976	15:32:55	26-Nov-12		
381	8.8	55.4	28	1.3909	15:33:55	26-Nov-12		
382	10.4	55.4	28	1.0633	15:34:55	26-Nov-12		
383	13.3	55.4	28	1.9471	15:35:55	26-Nov-12		



Instrument: MiniRAE 2000  
 User ID: 00000001  
 Data Points: 378  
 Last Calibration Time: 11/16/2012 16:38

Serial Number: 005343  
 Site ID: 00000127  
 Sample Period: 60 sec  
 Gas Name: Isobutylene

Measurement Type: Min (ppm) Avg (ppm) Max (ppm)  
 High Alarm Levels: 100 100 100  
 Low Alarm Levels: 50 50 50

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
1	11/26/2012 8:10	0		0		0			
2	11/26/2012 8:11	0		0		0			
3	11/26/2012 8:12	0		0		0			
4	11/26/2012 8:13	0		0		0			
5	11/26/2012 8:14	0		0		0			
6	11/26/2012 8:15	0		0		0			
7	11/26/2012 8:16	0		0		0			
8	11/26/2012 8:17	0		0		0		0.0	Background air readings while setting up to core GTB-3
9	11/26/2012 8:18	0		0		0			
10	11/26/2012 8:19	0		0		0			
11	11/26/2012 8:20	0		0		0			
12	11/26/2012 8:21	0		0		0			
13	11/26/2012 8:22	0		0		0			
14	11/26/2012 8:23	0		0		0			
15	11/26/2012 8:24	0		0		0			
16	11/26/2012 8:25	0		0		0			
17	11/26/2012 8:26	0		0		0			
18	11/26/2012 8:27	0		0		0			
19	11/26/2012 8:28	0		0		0			
20	11/26/2012 8:29	0		0		0			
21	11/26/2012 8:30	0		0		0			
22	11/26/2012 8:31	0		0		0			
23	11/26/2012 8:32	0		0		0		0.0	
24	11/26/2012 8:33	0		0		0			
25	11/26/2012 8:34	0		0		0			
26	11/26/2012 8:35	0		0		0			
27	11/26/2012 8:36	0		0		0			
28	11/26/2012 8:37	0		0		0			
29	11/26/2012 8:38	0		0		0			
30	11/26/2012 8:39	0		0		0			
31	11/26/2012 8:40	0		0		0			
32	11/26/2012 8:41	0		0		0			
33	11/26/2012 8:42	0		0		0			
34	11/26/2012 8:43	0		0		0			
35	11/26/2012 8:44	0		0		0			
36	11/26/2012 8:45	0		0		0			
37	11/26/2012 8:46	0		0		0			
38	11/26/2012 8:47	0		0		0		0.0	
39	11/26/2012 8:48	0		0		0			
40	11/26/2012 8:49	0		0		0			
41	11/26/2012 8:50	0		0		0			
42	11/26/2012 8:51	0		0		0			
43	11/26/2012 8:52	0		0		0			
44	11/26/2012 8:53	0		0		0			
45	11/26/2012 8:54	0		0		0			Coring GTB-3
46	11/26/2012 8:55	0		0		0			
47	11/26/2012 8:56	0		0		0			
48	11/26/2012 8:57	0		0		0			
49	11/26/2012 8:58	0		0		0			
50	11/26/2012 8:59	0		0		0			
51	11/26/2012 9:00	0		0		0			
52	11/26/2012 9:01	0		0		0			
53	11/26/2012 9:02	0		0		0		0.0	
54	11/26/2012 9:03	0		0		0			
55	11/26/2012 9:04	0		0		0			
56	11/26/2012 9:05	0		0		0			
57	11/26/2012 9:06	0		0		0			
58	11/26/2012 9:07	0		0		0			
59	11/26/2012 9:08	0		0		0			
60	11/26/2012 9:09	0		0		0			
61	11/26/2012 9:10	0		0		0			
62	11/26/2012 9:11	0		0		0			
63	11/26/2012 9:12	0		0		0			
64	11/26/2012 9:13	0		0		0			
65	11/26/2012 9:14	0		0		0			
66	11/26/2012 9:15	0		0		0			
67	11/26/2012 9:16	0		0		0			
68	11/26/2012 9:17	0		0		0		0.0	
69	11/26/2012 9:18	0		0		0			
70	11/26/2012 9:19	0		0		0			
71	11/26/2012 9:20	0		0		0			
72	11/26/2012 9:21	0		0		0			
73	11/26/2012 9:22	0		0		0			
74	11/26/2012 9:23	0		0		0			
75	11/26/2012 9:24	0		0		0			

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
76	11/26/2012 9:25	0		0		0			
77	11/26/2012 9:26	0		0		0			
78	11/26/2012 9:27	0		0		0			
79	11/26/2012 9:28	0		0		0			
80	11/26/2012 9:29	0		0		0			
81	11/26/2012 9:30	0		0		0			
82	11/26/2012 9:31	0		0		0			
83	11/26/2012 9:32	0		0		0		0.0	
84	11/26/2012 9:33	0		0		0			
85	11/26/2012 9:34	0		0		0			
86	11/26/2012 9:35	0		0		0			
87	11/26/2012 9:36	0		0		0			
88	11/26/2012 9:37	0		0		0			
89	11/26/2012 9:38	0		0		0			
90	11/26/2012 9:39	0		0		0			
91	11/26/2012 9:40	0		0		0			Coring GTB-3
92	11/26/2012 9:41	0		0		0			
93	11/26/2012 9:42	0		0		0			
94	11/26/2012 9:43	0		0		0			
95	11/26/2012 9:44	0		0		0			
96	11/26/2012 9:45	0		0		0			
97	11/26/2012 9:46	0		0		0			
98	11/26/2012 9:47	0		0		0		0.0	
99	11/26/2012 9:48	0		0		0			
100	11/26/2012 9:49	0		0		0			
101	11/26/2012 9:50	0		0		0			
102	11/26/2012 9:51	0		0		0			
103	11/26/2012 9:52	0		0		0			
104	11/26/2012 9:53	0		0		0			
105	11/26/2012 9:54	0		0		0			
106	11/26/2012 9:55	0		0		0			
107	11/26/2012 9:56	0		0		0			
108	11/26/2012 9:57	0		0		0			
109	11/26/2012 9:58	0		0		0			
110	11/26/2012 9:59	0		0		0			
111	11/26/2012 10:00	0		0		0			
112	11/26/2012 10:01	0		0		0			
113	11/26/2012 10:02	0		0		0		0.0	
114	11/26/2012 10:03	0		0		0			
115	11/26/2012 10:04	0		0		0			
116	11/26/2012 10:05	0		0		0			
117	11/26/2012 10:06	0		0		0			
118	11/26/2012 10:07	0		0		0			
119	11/26/2012 10:08	0		0		0			
120	11/26/2012 10:09	0		0		0			
121	11/26/2012 10:10	0		0		0			
122	11/26/2012 10:11	0		0		0			
123	11/26/2012 10:12	0		0		0			
124	11/26/2012 10:13	0		0		0			
125	11/26/2012 10:14	0		0		0			
126	11/26/2012 10:15	0		0		0			
127	11/26/2012 10:16	0		0		0			
128	11/26/2012 10:17	0		0		0		0.0	Moving to GTB-4
129	11/26/2012 10:18	0		0		0			
130	11/26/2012 10:19	0		0		0			
131	11/26/2012 10:20	0		0		0			
132	11/26/2012 10:21	0		0		0			
133	11/26/2012 10:22	0		0		0			
134	11/26/2012 10:23	0		0		0			
135	11/26/2012 10:24	0		0		0			
136	11/26/2012 10:25	0		0		0			
137	11/26/2012 10:26	0		0		0.1			
138	11/26/2012 10:27	0		0		0			
139	11/26/2012 10:28	0		0		0			
140	11/26/2012 10:29	0		0		0			
141	11/26/2012 10:30	0		0		0			
142	11/26/2012 10:31	0		0		0			
143	11/26/2012 10:32	0		0		0		0.0	
144	11/26/2012 10:33	0		0		0			
145	11/26/2012 10:34	0		0		0			
146	11/26/2012 10:35	0		0		0			
147	11/26/2012 10:36	0		0		0			
148	11/26/2012 10:37	0		0		0			
149	11/26/2012 10:38	0		0		0			
150	11/26/2012 10:39	0		0		0			

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
151	11/26/2012 10:40	0		0		0			
152	11/26/2012 10:41	0		0		0			
153	11/26/2012 10:42	0		0		0			
154	11/26/2012 10:43	0		0		0			
155	11/26/2012 10:44	0		0		0			
156	11/26/2012 10:45	0		0		0			
157	11/26/2012 10:46	0		0		0			
158	11/26/2012 10:47	0		0		0		0.0	
159	11/26/2012 10:48	0		0		0			
160	11/26/2012 10:49	0		0		0			
161	11/26/2012 10:50	0		0		0			Moving to and setting up on GTB-4
162	11/26/2012 10:51	0		0		0			
163	11/26/2012 10:52	0		0		0			
164	11/26/2012 10:53	0		0		0			
165	11/26/2012 10:54	0		0		0			
166	11/26/2012 10:55	0		0		0			
167	11/26/2012 10:56	0		0		0			
168	11/26/2012 10:57	0		0		0			
169	11/26/2012 10:58	0		0		0			
170	11/26/2012 10:59	0		0		0			
171	11/26/2012 11:00	0		0		0		0.0	
172	11/26/2012 11:01	0		0		0			
173	11/26/2012 11:02	0		0		0			
174	11/26/2012 11:03	0		0		0			Driving a spoon at GTB-4, shut down air monitors for lunch
175	11/26/2012 11:04	0		0		0			
176	11/26/2012 11:05	0		0		0			
177	11/26/2012 12:13	0		0		0			
178	11/26/2012 12:14	0		0		0		0.0	
179	11/26/2012 12:15	0		0		0			
180	11/26/2012 12:16	0		0		0			
181	11/26/2012 12:17	0		0		0			
182	11/26/2012 12:18	0		0		0			
183	11/26/2012 12:19	0		0		0			
184	11/26/2012 12:20	0		0		0			
185	11/26/2012 12:21	0		0		0			
186	11/26/2012 12:22	0		0		0			
187	11/26/2012 12:23	0		0		0			
188	11/26/2012 12:24	0		0		0		0.0	
189	11/26/2012 12:25	0		0		0			
190	11/26/2012 12:26	0		0		0			
191	11/26/2012 12:27	0		0		0			
192	11/26/2012 12:28	0		0		0			
193	11/26/2012 12:29	0		0		0			
194	11/26/2012 12:30	0		0		0			Setting up to core GTB-4 and drillers offsite filling water tank
195	11/26/2012 12:31	0		0		0			
196	11/26/2012 12:32	0		0		0			
197	11/26/2012 12:33	0		0		0			
198	11/26/2012 12:34	0		0		0			
199	11/26/2012 12:35	0		0		0			
200	11/26/2012 12:36	0		0		0			
201	11/26/2012 12:37	0		0		0			
202	11/26/2012 12:38	0		0		0			
203	11/26/2012 12:39	0		0		0		0.0	
204	11/26/2012 12:40	0		0		0			
205	11/26/2012 12:41	0		0		0			
206	11/26/2012 12:42	0		0		0			
207	11/26/2012 12:43	0		0		0			
208	11/26/2012 12:44	0		0		0			
209	11/26/2012 12:45	0		0		0			
210	11/26/2012 12:46	0		0		0			
211	11/26/2012 12:47	0		0		0			
212	11/26/2012 12:48	0		0		0			
213	11/26/2012 12:49	0		0		0			
214	11/26/2012 12:50	0		0		0			
215	11/26/2012 12:51	0		0		0			
216	11/26/2012 12:52	0		0		0			
217	11/26/2012 12:53	0		0		0			
218	11/26/2012 12:54	0		0		0		0.0	
219	11/26/2012 12:55	0		0		0			
220	11/26/2012 12:56	0		0		0			Coring GTB-4
221	11/26/2012 12:57	0		0		0			
222	11/26/2012 12:58	0		0		0			
223	11/26/2012 12:59	0		0		0			
224	11/26/2012 13:00	0		0		0			
225	11/26/2012 13:01	0		0		0			

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
226	11/26/2012 13:02	0		0		0			
227	11/26/2012 13:03	0		0		0			
228	11/26/2012 13:04	0		0		0			
229	11/26/2012 13:05	0		0		0			
230	11/26/2012 13:06	0		0		0			
231	11/26/2012 13:07	0		0		0			
232	11/26/2012 13:08	0		0		0			
233	11/26/2012 13:09	0		0		0		0.0	
234	11/26/2012 13:10	0		0		0			
235	11/26/2012 13:11	0		0		0			
236	11/26/2012 13:12	0		0		0			
237	11/26/2012 13:13	0		0		0			
238	11/26/2012 13:14	0		0		0			
239	11/26/2012 13:15	0		0		0			
240	11/26/2012 13:16	0		0		0			
241	11/26/2012 13:17	0		0		0			
242	11/26/2012 13:18	0		0		0			
243	11/26/2012 13:19	0		0		0			
244	11/26/2012 13:20	0		0		0			
245	11/26/2012 13:21	0		0		0			
246	11/26/2012 13:22	0		0		0			
247	11/26/2012 13:23	0		0		0			
248	11/26/2012 13:24	0		0		0		0.0	
249	11/26/2012 13:25	0		0		0			
250	11/26/2012 13:26	0		0		0			
251	11/26/2012 13:27	0		0		0			
252	11/26/2012 13:28	0		0		0			
253	11/26/2012 13:29	0		0		0			
254	11/26/2012 13:30	0		0		0			
255	11/26/2012 13:31	0		0		0			
256	11/26/2012 13:32	0		0		0			
257	11/26/2012 13:33	0		0		0			
258	11/26/2012 13:34	0		0		0			
259	11/26/2012 13:35	0		0		0			
260	11/26/2012 13:36	0		0		0			
261	11/26/2012 13:37	0		0		0			
262	11/26/2012 13:38	0		0		0			
263	11/26/2012 13:39	0		0		0		0.0	Coring GTB-4
264	11/26/2012 13:40	0		0		0			
265	11/26/2012 13:41	0		0		0			
266	11/26/2012 13:42	0		0		0			
267	11/26/2012 13:43	0		0		0			
268	11/26/2012 13:44	0		0		0			
269	11/26/2012 13:45	0		0		0			
270	11/26/2012 13:46	0		0		0			
271	11/26/2012 13:47	0		0		0			
272	11/26/2012 13:48	0		0		0			
273	11/26/2012 13:49	0		0		0			
274	11/26/2012 13:50	0		0		0			
275	11/26/2012 13:51	0		0		0			
276	11/26/2012 13:52	0		0		0			
277	11/26/2012 13:53	0		0		0			
278	11/26/2012 13:54	0		0		0		0.0	
279	11/26/2012 13:55	0		0		0			
280	11/26/2012 13:56	0		0		0			
281	11/26/2012 13:57	0		0		0			
282	11/26/2012 13:58	0		0		0			
283	11/26/2012 13:59	0		0		0			
284	11/26/2012 14:00	0		0		0			
285	11/26/2012 14:01	0		0		0			
286	11/26/2012 14:02	0		0		0			
287	11/26/2012 14:03	0		0		0			
288	11/26/2012 14:04	0		0		0			
289	11/26/2012 14:05	0		0		0			
290	11/26/2012 14:06	0		0		0			
291	11/26/2012 14:07	0		0		0			
292	11/26/2012 14:08	0		0		0			
293	11/26/2012 14:09	0		0		0		0.0	
294	11/26/2012 14:10	0		0		0			
295	11/26/2012 14:11	0		0		0			
296	11/26/2012 14:12	0		0		0			
297	11/26/2012 14:13	0		0		0			
298	11/26/2012 14:14	0		0		0			
299	11/26/2012 14:15	0		0		0			
300	11/26/2012 14:16	0		0		0			

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
301	11/26/2012 14:17	0		0		0			
302	11/26/2012 14:18	0		0		0			
303	11/26/2012 14:19	0		0		0			
304	11/26/2012 14:20	0		0		0			
305	11/26/2012 14:21	0		0		0			
306	11/26/2012 14:22	0		0		0			
307	11/26/2012 14:23	0		0		0		0.0	
308	11/26/2012 14:24	0		0		0			
309	11/26/2012 14:25	0		0		0			
310	11/26/2012 14:26	0		0		0			
311	11/26/2012 14:27	0		0		0			
312	11/26/2012 14:28	0		0		0			
313	11/26/2012 14:29	0		0		0			
314	11/26/2012 14:30	0		0		0			
315	11/26/2012 14:31	0		0		0			
316	11/26/2012 14:32	0		0		0			
317	11/26/2012 14:33	0		0		0			
318	11/26/2012 14:34	0		0		0			Coring GTB-4
319	11/26/2012 14:35	0		0		0			
320	11/26/2012 14:36	0		0		0			
321	11/26/2012 14:37	0		0		0			
322	11/26/2012 14:38	0		0		0		0.0	
323	11/26/2012 14:39	0		0		0			
324	11/26/2012 14:40	0		0		0			
325	11/26/2012 14:41	0		0		0			
326	11/26/2012 14:42	0		0		0			
327	11/26/2012 14:43	0		0		0			
328	11/26/2012 14:44	0		0		0			
329	11/26/2012 14:45	0		0		0			
330	11/26/2012 14:46	0		0		0			
331	11/26/2012 14:47	0		0		0			
332	11/26/2012 14:48	0		0		0			
333	11/26/2012 14:49	0		0		0			
334	11/26/2012 14:50	0		0		0			
335	11/26/2012 14:51	0		0		0			
336	11/26/2012 14:52	0		0		0			
337	11/26/2012 14:53	0		0		0		0.0	
338	11/26/2012 14:54	0		0		0			
339	11/26/2012 14:55	0		0		0			
340	11/26/2012 14:56	0		0		0			
341	11/26/2012 14:57	0		0		0			
342	11/26/2012 14:58	0		0		0			
343	11/26/2012 14:59	0		0		1.7			Backfilling GTB-4 and moving to GTB-5
344	11/26/2012 15:00	0		0		0			
345	11/26/2012 15:01	0		0		0			
346	11/26/2012 15:02	0		0		0			
347	11/26/2012 15:03	0		0		0			
348	11/26/2012 15:04	0		0		0			
349	11/26/2012 15:05	0		0		0			
350	11/26/2012 15:06	0		0		0			
351	11/26/2012 15:07	0		0		0			
352	11/26/2012 15:08	0		0		0		0.0	
353	11/26/2012 15:09	0		0		0			
354	11/26/2012 15:10	0		0		0			
355	11/26/2012 15:11	0		0		0			
356	11/26/2012 15:12	0		0		0			
357	11/26/2012 15:13	0		0		0			
358	11/26/2012 15:14	0		0		0			
359	11/26/2012 15:15	0		0		0			
360	11/26/2012 15:16	0		0		0			
361	11/26/2012 15:17	0		0		0			
362	11/26/2012 15:18	0		0		0			
363	11/26/2012 15:19	0		0		0			
364	11/26/2012 15:20	0		0		0			
365	11/26/2012 15:21	0		0		0			Drilling GTB-5
366	11/26/2012 15:22	0		0		0			
367	11/26/2012 15:23	0		0		0			
368	11/26/2012 15:24	0		0		0		0.0	
369	11/26/2012 15:25	0		0		0			
370	11/26/2012 15:26	0		0		0			
371	11/26/2012 15:27	0		0		0			
372	11/26/2012 15:28	0		0		0			
373	11/26/2012 15:29	0		0		0			
374	11/26/2012 15:30	0		0		0			
375	11/26/2012 15:31	0		0		0			
376	11/26/2012 15:32	0		0		0			Packing up for day, shut down air monitors
377	11/26/2012 15:33	0		0		0		0.0	
378	11/26/2012 15:34	0		0		0			

Instrument: MiniRAE 2000  
 User ID: 00000001  
 Data Points: 359  
 Last Calibration Time: 11/16/2012 16:38

Serial Number: 005343  
 Site ID: 00000129  
 Sample Period: 60 sec  
 Gas Name: Isobutylene

Measurement Type: Min (ppm) Avg (ppm) Max (ppm)  
 High Alarm Levels: 100 100 100  
 Low Alarm Levels: 50 50 50

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
1	11/30/2012 7:55	0		0		0			
2	11/30/2012 7:56	0		0		0			Setting up on
3	11/30/2012 7:57	0		0		0			GTB-9
4	11/30/2012 7:58	0		0		0			
5	11/30/2012 7:59	0		0		0			
6	11/30/2012 8:00	0		0		0			
7	11/30/2012 8:01	0		0		0			
8	11/30/2012 8:02	0		0		0		0.0	
9	11/30/2012 8:03	0		0		0			
10	11/30/2012 8:04	0		0		0			
11	11/30/2012 8:05	0		0		0			
12	11/30/2012 8:06	0		0		0			
13	11/30/2012 8:07	0		0		0			
14	11/30/2012 8:08	0		0		0			
15	11/30/2012 8:09	0		0		0			
16	11/30/2012 8:10	0		0		0			
17	11/30/2012 8:11	0		0		0			
18	11/30/2012 8:12	0		0		0			
19	11/30/2012 8:13	0		0		0			
20	11/30/2012 8:14	0		0		0			
21	11/30/2012 8:15	0		0		0			
22	11/30/2012 8:16	0		0		0			
23	11/30/2012 8:17	0		0		0		0.0	
24	11/30/2012 8:18	0		0		0			
25	11/30/2012 8:19	0		0		0			Drilling GTB-9
26	11/30/2012 8:20	0		0		0			
27	11/30/2012 8:21	0		0		0			
28	11/30/2012 8:22	0		0		0			
29	11/30/2012 8:23	0		0		0			
30	11/30/2012 8:24	0		0		0			
31	11/30/2012 8:25	0		0		0			
32	11/30/2012 8:26	0		0		0			
33	11/30/2012 8:27	0		0		0			
34	11/30/2012 8:28	0		0		0			
35	11/30/2012 8:29	0		0		0			
36	11/30/2012 8:30	0		0		0			
37	11/30/2012 8:31	0		0		0			
38	11/30/2012 8:32	0		0		0		0.0	
39	11/30/2012 8:33	0		0		0			
40	11/30/2012 8:34	0		0		0			
41	11/30/2012 8:35	0		0		0			
42	11/30/2012 8:36	0		0		0			
43	11/30/2012 8:37	0		0		0			
44	11/30/2012 8:38	0		0		0			
45	11/30/2012 8:39	0		0		0			
46	11/30/2012 8:40	0		0		0			
47	11/30/2012 8:41	0		0		0			Moving air
48	11/30/2012 8:42	0		0		0			monitors to
49	11/30/2012 8:43	0		0		0			GTB-10
50	11/30/2012 8:44	0		0		0			
51	11/30/2012 8:45	0		0		0			
52	11/30/2012 8:46	0		0		0			
53	11/30/2012 8:47	0		0		0		0.0	
54	11/30/2012 8:48	0		0		0			
55	11/30/2012 8:49	0		0		0			
56	11/30/2012 8:50	0		0		0			
57	11/30/2012 8:51	0		0		0			
58	11/30/2012 8:52	0		0		0			Setting up on
59	11/30/2012 8:53	0		0		0			GTB-10
60	11/30/2012 8:54	0		0		0			
61	11/30/2012 8:55	0		0		0			
62	11/30/2012 8:56	0		0		0			
63	11/30/2012 8:57	0		0		0			
64	11/30/2012 8:58	0		0		0			
65	11/30/2012 8:59	0		0		0			
66	11/30/2012 9:00	0		0		0			
67	11/30/2012 9:01	0		0		0			
68	11/30/2012 9:02	0		0		0		0.0	
69	11/30/2012 9:03	0		0		0			
70	11/30/2012 9:04	0		0		0			Drilling
71	11/30/2012 9:05	0		0		0			GTB-10
72	11/30/2012 9:06	0		0		0			
73	11/30/2012 9:07	0		0		0			
74	11/30/2012 9:08	0		0		0			
75	11/30/2012 9:09	0		0		0			

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
76	11/30/2012 9:10	0		0		0			
77	11/30/2012 9:11	0		0		0			
78	11/30/2012 9:12	0		0		0			
79	11/30/2012 9:13	0		0		0			
80	11/30/2012 9:14	0		0		0			
81	11/30/2012 9:15	0		0		0			
82	11/30/2012 9:16	0		0		0			
83	11/30/2012 9:17	0		0		0		0.0	
84	11/30/2012 9:18	0		0		0			
85	11/30/2012 9:19	0		0		0			
86	11/30/2012 9:20	0		0		0			
87	11/30/2012 9:21	0		0		0			
88	11/30/2012 9:22	0		0		0			Drilling
89	11/30/2012 9:23	0		0		0			GTB-10
90	11/30/2012 9:24	0		0		0			
91	11/30/2012 9:25	0		0		0			
92	11/30/2012 9:26	0		0		0			
93	11/30/2012 9:27	0		0		0			
94	11/30/2012 9:28	0		0		0			
95	11/30/2012 9:29	0		0		0			
96	11/30/2012 9:30	0		0		0			
97	11/30/2012 9:31	0		0		0			
98	11/30/2012 9:32	0		0		0		0.0	
99	11/30/2012 9:33	0		0		0			
100	11/30/2012 9:34	0		0		0			
101	11/30/2012 9:35	0		0		0			
102	11/30/2012 9:36	0		0		0			
103	11/30/2012 9:37	0		0		0			
104	11/30/2012 9:38	0		0		0			
105	11/30/2012 9:39	0		0		0			
106	11/30/2012 9:40	0		0		0			
107	11/30/2012 9:41	0		0		0			
108	11/30/2012 9:42	0		0		0			
109	11/30/2012 9:43	0		0		0			
110	11/30/2012 9:44	0		0		0			
111	11/30/2012 9:45	0		0		0			
112	11/30/2012 9:46	0		0		0			
113	11/30/2012 9:47	0		0		0		0.0	
114	11/30/2012 9:48	0		0		0			
115	11/30/2012 9:49	0		0		0			
116	11/30/2012 9:50	0		0		0			
117	11/30/2012 9:51	0		0		0			
118	11/30/2012 9:52	0		0		0			
119	11/30/2012 9:53	0		0		0			
120	11/30/2012 9:54	0		0		0			
121	11/30/2012 9:55	0		0		0			
122	11/30/2012 9:56	0		0		0			
123	11/30/2012 9:57	0		0		0			
124	11/30/2012 9:58	0		0		0			
125	11/30/2012 9:59	0		0		0			
126	11/30/2012 10:00	0		0		0			Coring
127	11/30/2012 10:01	0		0		0			GTB-10
128	11/30/2012 10:02	0		0		0			
129	11/30/2012 10:03	0		0		0		0.0	
130	11/30/2012 10:04	0		0		0			
131	11/30/2012 10:05	0		0		0			
132	11/30/2012 10:06	0		0		0			
133	11/30/2012 10:07	0		0		0			
134	11/30/2012 10:08	0		0		0			
135	11/30/2012 10:09	0		0		0			
136	11/30/2012 10:10	0		0		0			
137	11/30/2012 10:11	0		0		0			
138	11/30/2012 10:12	0		0		0			
139	11/30/2012 10:13	0		0		0			
140	11/30/2012 10:14	0		0		0			
141	11/30/2012 10:15	0		0		0			
142	11/30/2012 10:16	0		0		0			
143	11/30/2012 10:17	0		0		0		0.0	
144	11/30/2012 10:18	0		0		0			
145	11/30/2012 10:19	0		0		0			
146	11/30/2012 10:20	0		0		0			
147	11/30/2012 10:21	0		0		0			
148	11/30/2012 10:22	0		0		0			
149	11/30/2012 10:23	0		0		0			
150	11/30/2012 10:24	0		0		0			

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
151	11/30/2012 10:25	0		0		0			
152	11/30/2012 10:26	0		0		0			
153	11/30/2012 10:27	0		0		0			
154	11/30/2012 10:28	0		0		0			
155	11/30/2012 10:29	0		0		0			
156	11/30/2012 10:30	0		0		0			
157	11/30/2012 10:31	0		0		0			
158	11/30/2012 10:32	0		0		0		0.0	Break, no activity
159	11/30/2012 10:33	0		0		0			
160	11/30/2012 10:34	0		0		0			
161	11/30/2012 10:35	0		0		0			
162	11/30/2012 10:36	0		0		0			
163	11/30/2012 10:37	0		0		0			
164	11/30/2012 10:38	0		0		0			
165	11/30/2012 10:39	0		0		0			
166	11/30/2012 10:40	0		0		0			
167	11/30/2012 10:41	0		0		0			
168	11/30/2012 10:42	0		0		0			Backfilling GTB-10
169	11/30/2012 10:43	0		0		0			
170	11/30/2012 10:44	0		0		0			
171	11/30/2012 10:45	0		0		0			
172	11/30/2012 10:46	0		0		0			
173	11/30/2012 10:47	0		0		0		0.0	
174	11/30/2012 10:48	0		0		0			
175	11/30/2012 10:49	0		0		0			
176	11/30/2012 10:50	0		0		0			
177	11/30/2012 10:51	0		0		0			
178	11/30/2012 10:52	0		0		0			Moving to and setting up on GTB-11
179	11/30/2012 10:53	0		0		0			
180	11/30/2012 10:54	0		0		0			
181	11/30/2012 10:55	0		0		0			
182	11/30/2012 10:56	0		0		0			
183	11/30/2012 10:57	0		0		0			
184	11/30/2012 10:58	0		0		0			
185	11/30/2012 10:59	0		0		0			
186	11/30/2012 11:00	0		0		0			
187	11/30/2012 11:01	0		0		0			
188	11/30/2012 11:02	0		0		0		0.0	
189	11/30/2012 11:03	0		0		0			
190	11/30/2012 11:04	0		0		0			
191	11/30/2012 11:05	0		0		0			
192	11/30/2012 11:06	0		0		0			
193	11/30/2012 11:07	0		0		0			
194	11/30/2012 11:08	0		0		0			
195	11/30/2012 11:09	0		0		0			
196	11/30/2012 11:10	0		0		0			
197	11/30/2012 11:11	0		0		0			
198	11/30/2012 11:12	0		0		0			
199	11/30/2012 11:13	0		0		0			
200	11/30/2012 11:14	0		0		0			
201	11/30/2012 11:15	0		0		0			
202	11/30/2012 11:16	0		0		0			
203	11/30/2012 11:17	0		0		0		0.0	
204	11/30/2012 11:18	0		0		0			
205	11/30/2012 11:19	0		0		0			
206	11/30/2012 11:20	0		0		0			Drilling GTB-11
207	11/30/2012 11:21	0		0		0			
208	11/30/2012 11:22	0		0		0			
209	11/30/2012 11:23	0		0		0			
210	11/30/2012 11:24	0		0		0			
211	11/30/2012 11:25	0		0		0			
212	11/30/2012 11:26	0		0		0			
213	11/30/2012 11:27	0		0		0			
214	11/30/2012 11:28	0		0		0			
215	11/30/2012 11:29	0		0		0			
216	11/30/2012 11:30	0		0		0			
217	11/30/2012 11:31	0		0		0			
218	11/30/2012 11:32	0		0		0		0.0	
219	11/30/2012 11:33	0		0		0			
220	11/30/2012 11:34	0		0		0			
221	11/30/2012 11:35	0		0		0			
222	11/30/2012 11:36	0		0		0			
223	11/30/2012 11:37	0		0		0			
224	11/30/2012 11:38	0		0		0			
225	11/30/2012 11:39	0		0		0			



Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
226	11/30/2012 11:40	0		0		0			
227	11/30/2012 11:41	0		0		0			
228	11/30/2012 11:42	0		0		0			
229	11/30/2012 11:43	0		0		0			
230	11/30/2012 11:44	0		0		0			
231	11/30/2012 11:45	0		0		0			
232	11/30/2012 11:46	0		0		0			
233	11/30/2012 11:47	0		0		0		0.0	
234	11/30/2012 11:48	0		0		0			
235	11/30/2012 11:49	0		0		0			
236	11/30/2012 11:50	0		0		0			
237	11/30/2012 11:51	0		0		0			
238	11/30/2012 11:52	0		0		0			Drilling
239	11/30/2012 11:53	0		0		0			GTB-11
240	11/30/2012 11:54	0		0		0			
241	11/30/2012 11:55	0		0		0			
242	11/30/2012 11:56	0		0		0			
243	11/30/2012 11:57	0		0		0			
244	11/30/2012 11:58	0		0		0			
245	11/30/2012 11:59	0		0		0			
246	11/30/2012 12:00	0		0		0			
247	11/30/2012 12:01	0		0		0			
248	11/30/2012 12:02	0		0		0		0.0	
249	11/30/2012 12:03	0		0		0			
250	11/30/2012 12:04	0		0		0			
251	11/30/2012 12:05	0		0		0			
252	11/30/2012 12:06	0		0		0			
253	11/30/2012 12:07	0		0		0			
254	11/30/2012 12:08	0		0		0			
255	11/30/2012 12:09	0		0		0			
256	11/30/2012 12:10	0		0		0			
257	11/30/2012 12:11	0		0		0			
258	11/30/2012 12:12	0		0		0			
259	11/30/2012 12:13	0		0		0			
260	11/30/2012 12:14	0		0		0			
261	11/30/2012 12:15	0		0		0			
262	11/30/2012 12:16	0		0		0			
263	11/30/2012 12:17	0		0		0		0.0	Drillers offsite
264	11/30/2012 12:18	0		0		0			to find water
265	11/30/2012 12:19	0		0		0			
266	11/30/2012 12:20	0		0		0			
267	11/30/2012 12:21	0		0		0			
268	11/30/2012 12:22	0		0		0			
269	11/30/2012 12:23	0		0		0			
270	11/30/2012 12:24	0		0		0			
271	11/30/2012 12:25	0		0		0			
272	11/30/2012 12:26	0		0		0			
273	11/30/2012 12:27	0		0		0			
274	11/30/2012 12:28	0		0		0			
275	11/30/2012 12:29	0		0		0			
276	11/30/2012 12:30	0		0		0			
277	11/30/2012 12:31	0		0		0			
278	11/30/2012 12:32	0		0		0		0.0	Moved air
279	11/30/2012 12:33	0		0		0			monitors
280	11/30/2012 12:34	0		0		0			
281	11/30/2012 12:35	0		0		0			
282	11/30/2012 12:36	0		0		0			
283	11/30/2012 12:37	0		0		0			
284	11/30/2012 12:38	0		0		0			
285	11/30/2012 12:39	0		0		0			
286	11/30/2012 12:40	0		0		0			
287	11/30/2012 12:41	0		0		0			
288	11/30/2012 12:42	0		0		0			
289	11/30/2012 12:43	0		0		0			
290	11/30/2012 12:44	0		0		0			
291	11/30/2012 12:45	0		0		0			Drillers offsite
292	11/30/2012 12:46	0		0		0			for lunch
293	11/30/2012 12:47	0		0		0		0.0	
294	11/30/2012 12:48	0		0		0			
295	11/30/2012 12:49	0		0		0			
296	11/30/2012 12:50	0		0		0			
297	11/30/2012 12:51	0		0		0			
298	11/30/2012 12:52	0		0		0			
299	11/30/2012 12:53	0		0		0			
300	11/30/2012 12:54	0		0		0			

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
301	11/30/2012 12:55	0		0		0			
302	11/30/2012 12:56	0		0		0			
303	11/30/2012 12:57	0		0		0			Drillers offsite for lunch
304	11/30/2012 12:58	0		0		0			
305	11/30/2012 12:59	0		0		0			
306	11/30/2012 13:00	0		0		0			
307	11/30/2012 13:01	0		0		0			
308	11/30/2012 13:02	0		0		0		0.0	
309	11/30/2012 13:03	0		0		0			
310	11/30/2012 13:04	0		0		0			
311	11/30/2012 13:05	0		0		0			
312	11/30/2012 13:06	0		0		0			
313	11/30/2012 13:07	0		0		0			Moving to and setting up on GTB-12
314	11/30/2012 13:08	0		0		0			
315	11/30/2012 13:09	0		0		0			
316	11/30/2012 13:10	0		0		0			
317	11/30/2012 13:11	0		0		0			
318	11/30/2012 13:12	0		0		0			
319	11/30/2012 13:13	0		0		0			
320	11/30/2012 13:14	0		0		0			
321	11/30/2012 13:15	0		0		0			
322	11/30/2012 13:16	0		0		0			
323	11/30/2012 13:17	0		0		0		0.0	
324	11/30/2012 13:18	0		0		0			
325	11/30/2012 13:19	0		0		0			
326	11/30/2012 13:20	0		0		0			
327	11/30/2012 13:21	0		0		0			
328	11/30/2012 13:22	0		0		0			
329	11/30/2012 13:23	0		0		0			
330	11/30/2012 13:24	0		0		0			
331	11/30/2012 13:25	0		0		0			
332	11/30/2012 13:26	0		0		0			
333	11/30/2012 13:27	0		0		0			
334	11/30/2012 13:28	0		0		0			
335	11/30/2012 13:29	0		0		0			
336	11/30/2012 13:30	0		0		0			
337	11/30/2012 13:31	0		0		0			
338	11/30/2012 13:32	0		0		0		0.0	Drilling GTB-12
339	11/30/2012 13:33	0		0		0			
340	11/30/2012 13:34	0		0		0			
341	11/30/2012 13:35	0		0		0			
342	11/30/2012 13:36	0		0		0			
343	11/30/2012 13:37	0		0		0			
344	11/30/2012 13:38	0		0		0			
345	11/30/2012 13:39	0		0		0			
346	11/30/2012 13:40	0		0		0			
347	11/30/2012 13:41	0		0		0			
348	11/30/2012 13:42	0		0		0			
349	11/30/2012 13:43	0		0		0			
350	11/30/2012 13:44	0		0		0			
351	11/30/2012 13:45	0		0		0			
352	11/30/2012 13:46	0		0		0		0.0	
353	11/30/2012 13:47	0		0		0			
354	11/30/2012 13:48	0		0		0			
355	11/30/2012 13:49	0		0		0			
356	11/30/2012 13:50	0		0		0			
357	11/30/2012 13:51	0		0		0			Packing up, shut down air monitors
358	11/30/2012 13:52	0		0		0			
359	11/30/2012 13:53	0		0		0			

Model Number	DataRAM 4	Temp. Units	F
Serial No.	D147 !	Max Mass	84.93481
Device No.	1	Max Mass @	139 - 10:15:43
Tag Number	4	Avg Mass	39.5917
Start Time	7:56:43	Max Diam	1.526826
Start Date	3-Dec-12	Max Diam @	27 - 8:23:43
Log Period	0:01:00	Avg Diam	0.980099
Number	235	Alarm	ENABLED
Cal. Factor	1	Alarm Level	100
Unit	0	Auto Zero	DISABLED
Unit Name	(MASS) ug/m3	AZ Interval	1
Size Correct	DISABLED	Errors	0

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
1	61.2	67.4	44	0.7666	7:57:43	3-Dec-12		
2	67.9	67.3	44	1.0107	7:58:43	3-Dec-12		
3	69.7	67.2	44	1.0538	7:59:43	3-Dec-12		
4	70	67.1	45	1.0746	8:00:43	3-Dec-12		
5	71.6	67	45	1.0739	8:01:43	3-Dec-12		
6	69.3	67	45	1.0446	8:02:43	3-Dec-12		
7	67.3	66.9	45	1.0046	8:03:43	3-Dec-12		
8	66.3	66.8	46	1.0081	8:04:43	3-Dec-12	68.7	Setting up to continue GTB-12
9	66.7	66.7	46	1.0318	8:05:43	3-Dec-12		
10	66.9	66.7	46	1.0809	8:06:43	3-Dec-12		
11	69.3	66.6	47	1.0497	8:07:43	3-Dec-12		
12	75.2	66.6	47	1.0473	8:08:43	3-Dec-12		
13	74.6	66.5	47	0.9889	8:09:43	3-Dec-12		
14	67.2	66.5	47	1.1003	8:10:43	3-Dec-12		
15	66.6	66.4	48	1.1146	8:11:43	3-Dec-12		
16	66.3	66.4	48	1.152	8:12:43	3-Dec-12		
17	66.1	66.3	48	1.1333	8:13:43	3-Dec-12		
18	66.3	66.3	48	1.0873	8:14:43	3-Dec-12		
19	66.3	66.3	49	1.1287	8:15:43	3-Dec-12		
20	64.7	66.2	49	1.1536	8:16:43	3-Dec-12		
21	65.8	66.2	49	1.1175	8:17:43	3-Dec-12		
22	62.4	66.1	49	1.143	8:18:43	3-Dec-12		
23	58.1	66.1	50	1.1608	8:19:43	3-Dec-12	63.6	
24	61	66	50	1.1723	8:20:43	3-Dec-12		
25	61.4	65.9	50	1.2278	8:21:43	3-Dec-12		
26	63.1	65.9	50	1.1782	8:22:43	3-Dec-12		
27	72.7	65.9	50	1.5268	8:23:43	3-Dec-12		
28	59.4	65.8	51	1.3258	8:24:43	3-Dec-12		
29	64	65.8	51	1.3604	8:25:43	3-Dec-12		
30	56.5	65.8	51	1.1782	8:26:43	3-Dec-12		
31	57.1	65.8	51	1.1044	8:27:43	3-Dec-12		
32	62.6	65.8	51	1.1552	8:28:43	3-Dec-12		
33	58.5	65.8	51	1.1306	8:29:43	3-Dec-12		
34	54.5	65.8	51	1.1244	8:30:43	3-Dec-12		
35	59	65.8	51	1.2062	8:31:43	3-Dec-12		
36	58.3	65.9	51	1.1579	8:32:43	3-Dec-12		
37	56	65.9	51	1.089	8:33:43	3-Dec-12		
38	53.5	66	51	1.0719	8:34:43	3-Dec-12	52.5	
39	51.1	66	51	1.077	8:35:43	3-Dec-12		
40	48	66.1	52	1.0865	8:36:43	3-Dec-12		
41	46.4	66.1	52	1.0131	8:37:43	3-Dec-12		
42	47.7	66.2	52	1.1771	8:38:43	3-Dec-12		
43	45.3	66.2	52	1.0765	8:39:43	3-Dec-12		
44	45.2	66.3	52	1.026	8:40:43	3-Dec-12		Drilling GTB-12
45	44.4	66.3	52	1.0237	8:41:43	3-Dec-12		
46	45.3	66.4	52	1.1274	8:42:43	3-Dec-12		
47	41.8	66.5	52	1.0924	8:43:43	3-Dec-12		
48	43.1	66.6	52	1.0696	8:44:43	3-Dec-12		
49	44	66.7	52	1.1033	8:45:43	3-Dec-12		
50	44.3	66.7	52	1.1015	8:46:43	3-Dec-12		
51	41.8	66.9	52	1.1466	8:47:43	3-Dec-12		
52	39.3	67	52	1.0572	8:48:43	3-Dec-12		
53	42.4	67.1	52	1.0536	8:49:43	3-Dec-12	42.0	
54	41.9	67.2	51	0.9817	8:50:43	3-Dec-12		
55	43.6	67.2	51	1.0779	8:51:43	3-Dec-12		
56	41	67.4	51	1.059	8:52:43	3-Dec-12		
57	45.4	67.5	51	1.2827	8:53:43	3-Dec-12		
58	40.4	67.6	51	1.159	8:54:43	3-Dec-12		
59	37.9	67.8	51	1.0859	8:55:43	3-Dec-12		
60	37.9	67.9	51	1.056	8:56:43	3-Dec-12		
61	38.2	68	51	1.0197	8:57:43	3-Dec-12		
62	37.6	68.1	51	1.0213	8:58:43	3-Dec-12		
63	36.6	68.2	51	1.0168	8:59:43	3-Dec-12		
64	36.4	68.3	51	0.9752	9:00:43	3-Dec-12		
65	38.5	68.4	50	1.0311	9:01:43	3-Dec-12		
66	39.5	68.5	50	1.0988	9:02:43	3-Dec-12		
67	36.8	68.7	50	1.0365	9:03:43	3-Dec-12		
68	36.4	68.8	50	1.002	9:04:43	3-Dec-12	36.7	
69	38.3	69	50	0.9548	9:05:43	3-Dec-12		
70	33.7	69.1	50	1.0188	9:06:43	3-Dec-12		
71	35.1	69.2	50	0.964	9:07:43	3-Dec-12		
72	39.4	69.3	50	1.01	9:08:43	3-Dec-12		
73	35.5	69.4	50	1.0232	9:09:43	3-Dec-12		
74	34	69.6	49	0.9321	9:10:43	3-Dec-12		
75	33.9	69.8	49	0.9567	9:11:43	3-Dec-12		

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
76	38.4	69.9	49	1.0016	9:12:43	3-Dec-12	37.9	Drilling GTB-12
77	43.7	70	49	1.1334	9:13:43	3-Dec-12		
78	44.9	70.1	49	1.2135	9:14:43	3-Dec-12		
79	34.9	70.2	49	1.0366	9:15:43	3-Dec-12		
80	40	70.3	49	1.0244	9:16:43	3-Dec-12		
81	39.4	70.5	48	1.1883	9:17:43	3-Dec-12		
82	35.9	70.6	48	1.0205	9:18:43	3-Dec-12		
83	37.8	70.7	48	1.0088	9:19:43	3-Dec-12		
84	37.8	70.8	48	1.0285	9:20:43	3-Dec-12		
85	34.8	70.9	48	1.0589	9:21:43	3-Dec-12		
86	35.5	71.1	48	1.0465	9:22:43	3-Dec-12		
87	35.9	71.2	48	1.0292	9:23:43	3-Dec-12		
88	36.5	71.3	47	0.9883	9:24:43	3-Dec-12		
89	36.6	71.5	47	1.0675	9:25:43	3-Dec-12		
90	36.9	71.6	47	0.9764	9:26:43	3-Dec-12		
91	35.6	71.7	47	0.9715	9:27:43	3-Dec-12		
92	39.5	71.8	47	0.9354	9:28:43	3-Dec-12		
93	39.8	71.9	47	1.0547	9:29:43	3-Dec-12		
94	35	72	47	0.9867	9:30:43	3-Dec-12		
95	41.9	72.2	47	0.9668	9:31:43	3-Dec-12		
96	34.2	72.3	46	0.9683	9:32:43	3-Dec-12		
97	34.5	72.5	46	0.9116	9:33:43	3-Dec-12		
98	38.2	72.6	46	1.016	9:34:43	3-Dec-12		
99	35.5	72.6	46	0.9896	9:35:43	3-Dec-12		
100	35.3	72.8	46	0.9161	9:36:43	3-Dec-12		
101	35.6	72.9	46	1.0166	9:37:43	3-Dec-12		
102	34.7	73	46	0.9787	9:38:43	3-Dec-12		
103	35.9	73.1	45	0.9589	9:39:43	3-Dec-12		
104	35.5	73.3	45	0.9735	9:40:43	3-Dec-12		
105	32.4	73.4	45	0.9126	9:41:43	3-Dec-12		
106	33.7	73.5	45	0.9241	9:42:43	3-Dec-12		
107	37.2	73.6	45	0.9845	9:43:43	3-Dec-12		
108	36.4	73.7	45	1.0088	9:44:43	3-Dec-12		
109	38.7	73.8	44	1.108	9:45:43	3-Dec-12		
110	33	73.9	45	1.0119	9:46:43	3-Dec-12		
111	37.2	74.1	44	0.9086	9:47:43	3-Dec-12		
112	37	74.3	44	0.8547	9:48:43	3-Dec-12		
113	44.6	74.4	44	0.8488	9:49:43	3-Dec-12		
114	36.5	74.5	44	0.8791	9:50:43	3-Dec-12		
115	38.2	74.6	44	0.9432	9:51:43	3-Dec-12		
116	35	74.7	44	0.9616	9:52:43	3-Dec-12		
117	33.2	74.8	44	0.8832	9:53:43	3-Dec-12		
118	40.3	75	43	0.9162	9:54:43	3-Dec-12		
119	32.9	75.1	43	0.9069	9:55:43	3-Dec-12		
120	32.7	75.3	43	0.8626	9:56:43	3-Dec-12		
121	32.7	75.4	43	0.9439	9:57:43	3-Dec-12		
122	32.7	75.5	43	0.8983	9:58:43	3-Dec-12		
123	32.2	75.6	43	0.961	9:59:43	3-Dec-12		
124	31.6	75.7	43	0.9222	10:00:43	3-Dec-12		
125	38	75.8	43	1.0885	10:01:43	3-Dec-12		
126	36.4	76	42	1.1375	10:02:43	3-Dec-12		
127	32.2	76.2	42	0.9013	10:03:43	3-Dec-12		
128	37.1	76.3	42	1.0155	10:04:43	3-Dec-12		
129	35.1	76.4	42	1.0296	10:05:43	3-Dec-12		
130	33.9	76.5	42	0.9323	10:06:43	3-Dec-12		
131	34.4	76.6	42	0.9387	10:07:43	3-Dec-12		
132	34	76.8	42	0.9661	10:08:43	3-Dec-12		
133	36.2	76.9	42	0.9984	10:09:43	3-Dec-12		
134	35.1	77.1	42	0.983	10:10:43	3-Dec-12		
135	34.3	77.2	41	0.9548	10:11:43	3-Dec-12		
136	34.4	77.3	41	0.9312	10:12:43	3-Dec-12		
137	37	77.5	41	1.0534	10:13:43	3-Dec-12		
138	35.7	77.6	41	0.91	10:14:43	3-Dec-12		
139	84.9	77.8	41	1.1727	10:15:43	3-Dec-12		
140	38	77.9	41	1.0792	10:16:43	3-Dec-12		
141	36	78	41	0.9431	10:17:43	3-Dec-12		
142	34.5	78.1	41	0.942	10:18:43	3-Dec-12		
143	35.9	78.1	41	0.9031	10:19:43	3-Dec-12		
144	34.5	78.2	40	0.8934	10:20:43	3-Dec-12		
145	35.6	78.3	40	0.9496	10:21:43	3-Dec-12		
146	34.1	78.4	40	0.9091	10:22:43	3-Dec-12		
147	33	78.4	40	0.8672	10:23:43	3-Dec-12		
148	33.1	78.4	40	0.8868	10:24:43	3-Dec-12		
149	33.9	78.5	40	0.9128	10:25:43	3-Dec-12		
150	34.1	78.5	39	0.9157	10:26:43	3-Dec-12		

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
151	34.7	78.7	39	0.9201	10:27:43	3-Dec-12	34.8	Setting up on GTB-13
152	35.3	78.6	39	1.0673	10:28:43	3-Dec-12		
153	35.2	78.7	39	1.0023	10:29:43	3-Dec-12		
154	34.5	78.7	39	0.9139	10:30:43	3-Dec-12		
155	35.7	78.7	39	0.9038	10:31:43	3-Dec-12		
156	39.3	78.7	39	0.9359	10:32:43	3-Dec-12		
157	38	78.7	39	0.989	10:33:43	3-Dec-12		
158	35.4	78.8	39	0.9139	10:34:43	3-Dec-12		
159	34.1	78.8	39	0.8513	10:35:43	3-Dec-12		
160	34.1	78.8	39	0.9082	10:36:43	3-Dec-12		
161	34.4	78.8	39	0.9296	10:37:43	3-Dec-12		
162	33.8	78.8	39	0.9103	10:38:43	3-Dec-12		
163	32.4	78.8	39	0.8863	10:39:43	3-Dec-12		
164	33	78.8	39	0.9609	10:40:43	3-Dec-12		
165	31.9	78.8	39	0.9086	10:41:43	3-Dec-12		
166	31.2	78.8	39	0.8657	10:42:43	3-Dec-12		
167	32.1	78.8	39	0.8419	10:43:43	3-Dec-12		
168	31.8	78.8	39	0.8484	10:44:43	3-Dec-12		
169	31.4	78.8	39	0.906	10:45:43	3-Dec-12		
170	30.5	78.8	39	0.86	10:46:43	3-Dec-12		
171	30.6	78.8	39	0.8853	10:47:43	3-Dec-12		
172	30.8	78.8	39	0.866	10:48:43	3-Dec-12		
173	31	78.8	39	0.8682	10:49:43	3-Dec-12		
174	31.7	78.8	39	0.8657	10:50:43	3-Dec-12		
175	31.4	78.9	39	0.8658	10:51:43	3-Dec-12		
176	32.2	78.9	39	0.879	10:52:43	3-Dec-12		
177	31.9	78.9	39	0.8966	10:53:43	3-Dec-12		
178	31.9	78.9	39	0.8996	10:54:43	3-Dec-12		
179	32.4	78.9	39	0.8886	10:55:43	3-Dec-12		
180	31.4	78.9	39	0.8451	10:56:43	3-Dec-12		
181	33	78.9	38	0.913	10:57:43	3-Dec-12		
182	31.8	79	38	0.893	10:58:43	3-Dec-12		
183	30.9	79	38	0.8647	10:59:43	3-Dec-12		
184	30.3	79	38	0.8784	11:00:43	3-Dec-12		
185	30.4	79.1	38	0.8452	11:01:43	3-Dec-12		
186	31	79	38	0.9023	11:02:43	3-Dec-12		
187	32	79	38	0.8987	11:03:43	3-Dec-12		
188	32.9	79.1	38	0.9406	11:04:43	3-Dec-12		
189	32	79.1	38	0.9274	11:05:43	3-Dec-12		
190	31.7	79.1	38	0.8621	11:06:43	3-Dec-12		
191	32.2	79.1	38	0.9098	11:07:43	3-Dec-12		
192	31.4	79.1	38	0.8831	11:08:43	3-Dec-12		
193	30.6	79.1	38	0.8613	11:09:43	3-Dec-12		
194	31.1	79.1	38	0.9195	11:10:43	3-Dec-12		
195	30.3	79.2	38	0.887	11:11:43	3-Dec-12		
196	30.6	79.2	37	0.8446	11:12:43	3-Dec-12		
197	31.7	79.2	37	0.8396	11:13:43	3-Dec-12		
198	32.1	79.2	37	0.9265	11:14:43	3-Dec-12		
199	31	79.2	37	0.8963	11:15:43	3-Dec-12		
200	30.6	79.3	37	0.8464	11:16:43	3-Dec-12		
201	33.4	79.3	37	0.9031	11:17:43	3-Dec-12		
202	30.7	79.3	37	0.9431	11:18:43	3-Dec-12		
203	31.4	79.4	37	0.8609	11:19:43	3-Dec-12		
204	31	79.4	37	0.8912	11:20:43	3-Dec-12		
205	33.1	79.4	37	0.9092	11:21:43	3-Dec-12		
206	31.4	79.4	37	0.886	11:22:43	3-Dec-12		
207	32.6	79.5	37	0.8697	11:23:43	3-Dec-12		
208	31.7	79.5	37	0.8693	11:24:43	3-Dec-12		
209	38.8	79.6	37	0.9797	11:25:43	3-Dec-12		
210	32.2	79.5	37	0.9549	11:26:43	3-Dec-12		
211	30.2	79.5	36	0.9489	11:27:43	3-Dec-12		
212	27.2	79.5	36	0.8267	11:28:43	3-Dec-12		
213	26.2	79.5	36	0.7866	11:29:43	3-Dec-12		
214	26.3	79.4	36	0.8286	11:30:43	3-Dec-12		
215	26.4	79.4	36	0.8259	11:31:43	3-Dec-12		
216	27	79.3	36	0.8617	11:32:43	3-Dec-12		
217	28.5	79.3	36	0.8654	11:33:43	3-Dec-12		
218	25.8	79.3	36	0.77	11:34:43	3-Dec-12		
219	26.6	79.2	36	0.8819	11:35:43	3-Dec-12		
220	26.5	79.1	36	0.9361	11:36:43	3-Dec-12		
221	24.2	79.1	36	0.8377	11:37:43	3-Dec-12		
222	26.1	79	36	0.8527	11:38:43	3-Dec-12		
223	27.7	79	36	0.8062	11:39:43	3-Dec-12		
224	24.3	78.9	35	0.8759	11:40:43	3-Dec-12		
225	22.2	78.9	36	0.8125	11:41:43	3-Dec-12		

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
226	30.9	78.8	36	0.9572	11:42:43	3-Dec-12	26.0	Drilling GTB-13
227	30.5	78.8	36	1.0515	11:43:43	3-Dec-12		
228	28.4	78.7	36	0.9166	11:44:43	3-Dec-12		
229	24.5	78.7	36	0.8167	11:45:43	3-Dec-12		
230	24.8	78.7	36	0.8809	11:46:43	3-Dec-12		
231	24	78.7	36	0.79	11:47:43	3-Dec-12		
232	25.2	78.6	36	0.8251	11:48:43	3-Dec-12		
233	24.9	78.6	36	0.8759	11:49:43	3-Dec-12		
234	24.3	78.5	36	0.8864	11:50:43	3-Dec-12		
235	22.2	78.5	36	0.8642	11:51:43	3-Dec-12		
236	14.3	77.2	36	0.5162	12:51:21	3-Dec-12	15.3	Lunch, Stopped monitors
237	15.6	77.2	35	0.7757	12:52:21	3-Dec-12		
238	15.6	77.2	35	0.8481	12:53:21	3-Dec-12		
239	15.3	77.2	35	0.8123	12:54:21	3-Dec-12		
240	15.5	77.2	35	0.729	12:55:21	3-Dec-12		
241	15.4	77.3	35	0.7436	12:56:21	3-Dec-12		
242	16.1	77.2	35	0.697	12:57:21	3-Dec-12		
243	15	77.2	35	0.6944	12:58:21	3-Dec-12		
244	16.2	77.3	35	0.7655	12:59:21	3-Dec-12		
245	15.9	77.3	35	0.8023	13:00:21	3-Dec-12		
246	15.2	77.3	35	0.6716	13:01:21	3-Dec-12	18.9	Started air monitors after lunch
247	18.5	77.3	35	0.7456	13:02:21	3-Dec-12		
248	16.4	77.4	35	0.7449	13:03:21	3-Dec-12		
249	17.2	77.4	35	0.8702	13:04:21	3-Dec-12		
250	27.5	77.4	35	1.1812	13:05:21	3-Dec-12		
251	47.7	77.5	35	2.5292	13:06:21	3-Dec-12		
252	16.9	77.5	35	0.9705	13:07:21	3-Dec-12		
253	15.5	77.5	35	0.7835	13:08:21	3-Dec-12		
254	14.8	77.6	35	0.7027	13:09:21	3-Dec-12		
255	14.6	77.7	35	0.631	13:10:21	3-Dec-12		
256	15.1	77.7	34	0.7061	13:11:21	3-Dec-12	15.7	
257	14.1	77.8	34	0.6252	13:12:21	3-Dec-12		
258	14.5	77.8	34	0.6431	13:13:21	3-Dec-12		
259	14.6	77.9	34	0.7263	13:14:21	3-Dec-12		
260	18.4	78	34	0.7969	13:15:21	3-Dec-12		
261	16.8	78	34	0.7685	13:16:21	3-Dec-12		
262	16.7	78	34	0.856	13:17:21	3-Dec-12		
263	18.2	78.1	34	0.8473	13:18:21	3-Dec-12		
264	15.5	78.1	34	0.7783	13:19:21	3-Dec-12		
265	14.8	78.2	34	0.7329	13:20:21	3-Dec-12		
266	14	78.2	34	0.6875	13:21:21	3-Dec-12	16.6	Drilling GTB-13
267	17.3	78.3	34	0.8341	13:22:21	3-Dec-12		
268	15.1	78.4	34	0.7326	13:23:21	3-Dec-12		
269	15.5	78.4	34	0.7058	13:24:21	3-Dec-12		
270	15	78.4	34	0.676	13:25:21	3-Dec-12		
271	18.3	78.5	34	0.7633	13:26:21	3-Dec-12		
272	16.2	78.6	34	0.7277	13:27:21	3-Dec-12		
273	15.6	78.7	34	0.7303	13:28:21	3-Dec-12		
274	17.4	78.7	33	0.6519	13:29:21	3-Dec-12		
275	14.3	78.8	34	0.6086	13:30:21	3-Dec-12		
276	15.6	78.9	34	0.7502	13:31:21	3-Dec-12	18.3	
277	16.1	78.9	33	0.6839	13:32:21	3-Dec-12		
278	17	78.9	33	0.7571	13:33:21	3-Dec-12		
279	16.4	79	33	0.777	13:34:21	3-Dec-12		
280	16	79.1	33	0.7506	13:35:21	3-Dec-12		
281	18.6	79.1	33	0.8464	13:36:21	3-Dec-12		
282	14.7	79.2	33	0.7511	13:37:21	3-Dec-12		
283	15.8	79.2	33	0.7113	13:38:21	3-Dec-12		
284	18.1	79.2	33	0.7564	13:39:21	3-Dec-12		
285	18.3	79.3	33	0.7714	13:40:21	3-Dec-12		
286	17.6	79.3	33	0.7614	13:41:21	3-Dec-12		
287	16.3	79.4	33	0.7242	13:42:21	3-Dec-12		
288	18.3	79.5	33	0.9122	13:43:21	3-Dec-12		
289	16.1	79.5	33	0.7387	13:44:21	3-Dec-12		
290	20.8	79.5	33	0.7976	13:45:21	3-Dec-12		
291	15.6	79.6	33	0.7397	13:46:21	3-Dec-12		
292	16.5	79.6	32	0.6565	13:47:21	3-Dec-12		
293	27.1	79.6	32	0.6603	13:48:21	3-Dec-12		
294	17.9	79.7	32	0.9027	13:49:21	3-Dec-12		
295	16.2	79.6	32	0.6789	13:50:21	3-Dec-12		
296	15.5	79.6	32	0.7376	13:51:21	3-Dec-12		
297	20.1	79.6	32	0.7275	13:52:21	3-Dec-12		
298	24.5	79.6	32	0.8247	13:53:21	3-Dec-12		
299	15.4	79.5	32	0.7763	13:54:21	3-Dec-12		
300	16.1	79.6	32	0.7499	13:55:21	3-Dec-12		

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
301	20.4	79.6	32	0.8266	13:56:21	3-Dec-12	17.4	
302	16	79.6	32	0.7761	13:57:21	3-Dec-12		
303	18.2	79.5	32	0.7532	13:58:21	3-Dec-12		
304	16.6	79.5	32	0.8288	13:59:21	3-Dec-12		
305	17.7	79.4	32	0.7627	14:00:21	3-Dec-12		
306	18	79.4	32	0.8183	14:01:21	3-Dec-12		
307	21.7	79.3	32	0.8246	14:02:21	3-Dec-12		
308	16.6	79.3	32	0.817	14:03:21	3-Dec-12		
309	16	79.3	32	0.8113	14:04:21	3-Dec-12		
310	17.3	79.2	33	0.7688	14:05:21	3-Dec-12		
311	16	79.1	32	0.7379	14:06:21	3-Dec-12		
312	16.5	79.1	32	0.736	14:07:21	3-Dec-12		
313	16.2	79	32	0.7453	14:08:21	3-Dec-12		
314	17.5	79	33	0.8447	14:09:21	3-Dec-12		
315	15.7	78.9	32	0.7314	14:10:21	3-Dec-12		
316	15.7	78.9	32	0.7584	14:11:21	3-Dec-12		
317	16.5	78.8	32	0.7576	14:12:21	3-Dec-12		
318	38.2	78.7	33	0.7675	14:13:21	3-Dec-12		
319	32.7	78.6	33	1.1019	14:14:21	3-Dec-12		
320	25.5	78.5	33	1.0032	14:15:21	3-Dec-12		
321	26.9	78.4	33	0.9231	14:16:21	3-Dec-12		
322	20.7	78.3	33	0.8334	14:17:21	3-Dec-12		
323	17.1	78.2	33	0.7735	14:18:21	3-Dec-12		
324	17.8	78.1	33	0.8348	14:19:21	3-Dec-12		
325	17	78.1	33	0.7616	14:20:21	3-Dec-12		
326	18.9	78	33	0.9006	14:21:21	3-Dec-12		
327	16.5	77.9	33	0.8607	14:22:21	3-Dec-12		
328	17.2	77.8	33	0.7985	14:23:21	3-Dec-12		
329	17.1	77.7	33	0.7936	14:24:21	3-Dec-12		
330	16.1	77.5	33	0.707	14:25:21	3-Dec-12		
331	16.7	77.5	33	0.7834	14:26:21	3-Dec-12		
332	18.6	77.3	33	0.7809	14:27:21	3-Dec-12		
333	20.8	77.3	33	1.0332	14:28:21	3-Dec-12		
334	19.7	77.2	33	1.1409	14:29:21	3-Dec-12		
335	17.4	77.1	33	0.8913	14:30:21	3-Dec-12		
336	18.1	77	33	0.7948	14:31:21	3-Dec-12		
337	17.6	76.9	34	0.8484	14:32:21	3-Dec-12		
338	16.1	76.7	34	0.7967	14:33:21	3-Dec-12		
339	18.9	76.6	34	0.9135	14:34:21	3-Dec-12		
340	17	76.5	34	0.8034	14:35:21	3-Dec-12		
341	16.3	76.4	34	0.7581	14:36:21	3-Dec-12		
342	17.8	76.3	34	0.7449	14:37:21	3-Dec-12		
343	17.9	76.2	34	0.8474	14:38:21	3-Dec-12		
344	15.3	76.1	34	0.7706	14:39:21	3-Dec-12		
345	16.1	75.9	34	0.7362	14:40:21	3-Dec-12		
346	16.3	75.9	34	0.7554	14:41:21	3-Dec-12		
347	16.5	75.7	35	0.8604	14:42:21	3-Dec-12		
348	16.6	75.6	35	0.833	14:43:21	3-Dec-12		
349	16.1	75.5	35	0.7642	14:44:21	3-Dec-12		
350	16.8	75.4	35	0.8639	14:45:21	3-Dec-12		
351	15.7	75.3	35	0.7304	14:46:21	3-Dec-12		
352	16.4	75.2	35	0.7574	14:47:21	3-Dec-12		
353	15.4	75.1	35	0.7513	14:48:21	3-Dec-12		
354	17.1	74.9	35	0.9068	14:49:21	3-Dec-12		
355	16.8	74.8	35	0.8123	14:50:21	3-Dec-12		
356	16	74.6	35	0.8035	14:51:21	3-Dec-12		
357	15.8	74.5	35	0.7697	14:52:21	3-Dec-12		
358	16.3	74.5	36	0.7712	14:53:21	3-Dec-12		
359	18.3	74.3	35	0.8411	14:54:21	3-Dec-12		
360	17.5	74.2	36	0.8469	14:55:21	3-Dec-12		
361	17.6	74.1	36	0.8798	14:56:21	3-Dec-12		
362	16.3	73.9	36	0.7879	14:57:21	3-Dec-12		
363	16.9	73.8	36	0.7738	14:58:21	3-Dec-12		
364	17.2	73.7	36	0.8084	14:59:21	3-Dec-12		
365	18.4	73.6	36	0.7901	15:00:21	3-Dec-12		
366	17.1	73.5	36	0.811	15:01:21	3-Dec-12		
367	17	73.4	36	0.9158	15:02:21	3-Dec-12		
368	17	73.3	36	0.8272	15:03:21	3-Dec-12		
369	16.1	73.2	36	0.7729	15:04:21	3-Dec-12		
370	16.8	73	36	0.7919	15:05:21	3-Dec-12		
371	17	73	36	0.8555	15:06:21	3-Dec-12		
372	16.4	72.8	37	0.7697	15:07:21	3-Dec-12		
373	16.9	72.7	37	0.7915	15:08:21	3-Dec-12		
374	17.3	72.6	37	0.8834	15:09:21	3-Dec-12		
375	16	72.5	37	0.7256	15:10:21	3-Dec-12		

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
376	16.7	72.4	37	0.8098	15:11:21	3-Dec-12	17.4	Backfilling GTB-13
377	16.8	72.3	37	0.8199	15:12:21	3-Dec-12		
378	16.4	72.1	37	0.8499	15:13:21	3-Dec-12		
379	17.7	72	37	0.8567	15:14:21	3-Dec-12		
380	17.3	71.9	37	0.7986	15:15:21	3-Dec-12		
381	17	71.8	37	0.8771	15:16:21	3-Dec-12		
382	16.9	71.7	37	0.8307	15:17:21	3-Dec-12		
383	20	71.6	37	0.8683	15:18:21	3-Dec-12		
384	20.1	71.5	38	0.8149	15:19:21	3-Dec-12		
385	16.7	71.4	38	0.8136	15:20:21	3-Dec-12		
386	16.5	71.2	38	0.7824	15:21:21	3-Dec-12		
387	19.9	71.1	38	0.8799	15:22:21	3-Dec-12		
388	15.7	71	38	0.8133	15:23:21	3-Dec-12		
389	16.3	70.9	38	0.7844	15:24:21	3-Dec-12		
390	16.4	70.8	38	0.787	15:25:21	3-Dec-12		
391	16.1	70.7	38	0.8277	15:26:21	3-Dec-12		
392	15.8	70.6	38	0.7766	15:27:21	3-Dec-12		
393	15.5	70.5	38	0.7535	15:28:21	3-Dec-12		
394	16	70.3	38	0.7815	15:29:21	3-Dec-12		
395	16.4	70.3	38	0.8018	15:30:21	3-Dec-12		
396	17.9	70.2	38	0.845	15:31:21	3-Dec-12		
397	16.5	70.1	39	0.8423	15:32:21	3-Dec-12		
398	16.4	70	39	0.9343	15:33:21	3-Dec-12		
399	16.2	69.9	39	0.8322	15:34:21	3-Dec-12		
400	16.4	69.9	39	0.8563	15:35:21	3-Dec-12		
401	15.7	69.7	39	0.7991	15:36:21	3-Dec-12		
402	15.6	69.6	39	0.8269	15:37:21	3-Dec-12		
403	15.7	69.5	39	0.8101	15:38:21	3-Dec-12		
404	16.7	69.4	39	0.8134	15:39:21	3-Dec-12		
405	16	69.4	39	0.7884	15:40:21	3-Dec-12		
406	16.9	69.2	39	0.8728	15:41:21	3-Dec-12		
407	16.5	69.2	40	0.972	15:42:21	3-Dec-12		
408	15.9	69.1	40	0.9204	15:43:21	3-Dec-12		
409	17.4	69	40	0.8836	15:44:21	3-Dec-12		
410	18.3	69	40	1.1124	15:45:21	3-Dec-12		
411	18.5	68.9	40	0.9576	15:46:21	3-Dec-12		
412	16.4	68.8	40	0.8881	15:47:21	3-Dec-12		
413	19.9	68.8	40	1.0335	15:48:21	3-Dec-12		
414	17.2	68.7	40	0.9585	15:49:21	3-Dec-12		
415	17	68.5	40	0.8997	15:50:21	3-Dec-12		
416	17	68.5	40	0.911	15:51:21	3-Dec-12		
417	16.8	68.4	40	0.855	15:52:21	3-Dec-12		
418	16.4	68.3	41	0.8768	15:53:21	3-Dec-12		
419	16.9	68.3	41	0.8819	15:54:21	3-Dec-12		
420	16.9	68.2	41	0.9284	15:55:21	3-Dec-12		
421	18.1	68.1	41	0.9461	15:56:21	3-Dec-12		
422	18.4	68.1	41	0.907	15:57:21	3-Dec-12		
423	18.7	68	41	1.2078	15:58:21	3-Dec-12		
424	17.7	67.9	41	1.0096	15:59:21	3-Dec-12		
425	17.3	67.9	42	1.0224	16:00:21	3-Dec-12		
426	18.6	67.7	42	1.1071	16:01:21	3-Dec-12		
427	17.4	67.7	42	0.8681	16:02:21	3-Dec-12		
428	18.5	67.6	42	0.9431	16:03:21	3-Dec-12		
429	17	67.5	42	0.8903	16:04:21	3-Dec-12		
430	17.2	67.4	42	0.9062	16:05:21	3-Dec-12		
431	16.5	67.4	42	0.9484	16:06:21	3-Dec-12		
432	16.3	67.3	42	0.8318	16:07:21	3-Dec-12		
433	16.1	67.2	42	0.8646	16:08:21	3-Dec-12		
434	17.2	67.2	43	0.826	16:09:21	3-Dec-12		



Instrument: MiniRAE 2000  
 User ID: 00000001  
 Data Points: 431  
 Last Calibration Time: 11/16/2012 16:38

Serial Number: 005343  
 Site ID: 00000130  
 Sample Period: 60 sec  
 Gas Name: Isobutylene

Measurement Type: Min (ppm) Avg (ppm) Max (ppm)  
 High Alarm Levels: 100 100 100  
 Low Alarm Levels: 50 50 50

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
1	12/3/2012 7:56	0		0		0			
2	12/3/2012 7:57	0		0		0			
3	12/3/2012 7:58	0		0		0			
4	12/3/2012 7:59	0		0		0			
5	12/3/2012 8:00	0		0		0			
6	12/3/2012 8:01	0		0		0			
7	12/3/2012 8:02	0		0		0			
8	12/3/2012 8:03	0		0		0		0.0	Setting up on GTB-12
9	12/3/2012 8:04	0		0		0			
10	12/3/2012 8:05	0		0		0			
11	12/3/2012 8:06	0		0		0			
12	12/3/2012 8:07	0		0		0			
13	12/3/2012 8:08	0		0		0			
14	12/3/2012 8:09	0		0		0			
15	12/3/2012 8:10	0		0		0			
16	12/3/2012 8:11	0		0		0			
17	12/3/2012 8:12	0		0		0			
18	12/3/2012 8:13	0		0		0			
19	12/3/2012 8:14	0		0		0			
20	12/3/2012 8:15	0		0		0			
21	12/3/2012 8:16	0		0		0			
22	12/3/2012 8:17	0		0		0			
23	12/3/2012 8:18	0		0		0		0.0	
24	12/3/2012 8:19	0		0		0			
25	12/3/2012 8:20	0		0		0			
26	12/3/2012 8:21	0		0		0			
27	12/3/2012 8:22	0		0		0			
28	12/3/2012 8:23	0		0		0			
29	12/3/2012 8:24	0		0		0			
30	12/3/2012 8:25	0		0		0			
31	12/3/2012 8:26	0		0		0			
32	12/3/2012 8:27	0		0		0			
33	12/3/2012 8:28	0		0		0			
34	12/3/2012 8:29	0		0		0			
35	12/3/2012 8:30	0		0		0			
36	12/3/2012 8:31	0		0		0			
37	12/3/2012 8:32	0		0		0			
38	12/3/2012 8:33	0		0		0		0.0	
39	12/3/2012 8:34	0		0		0			
40	12/3/2012 8:35	0		0		0			
41	12/3/2012 8:36	0		0		0			
42	12/3/2012 8:37	0		0		0			
43	12/3/2012 8:38	0		0		0			
44	12/3/2012 8:39	0		0		0			
45	12/3/2012 8:40	0		0		0			
46	12/3/2012 8:41	0		0		0			Drilling GTB-12
47	12/3/2012 8:42	0		0		0			
48	12/3/2012 8:43	0		0		0			
49	12/3/2012 8:44	0		0		0			
50	12/3/2012 8:45	0		0		0			
51	12/3/2012 8:46	0		0		0			
52	12/3/2012 8:47	0		0		0			
53	12/3/2012 8:48	0		0		0		0.0	
54	12/3/2012 8:49	0		0		0			
55	12/3/2012 8:50	0		0		0			
56	12/3/2012 8:51	0		0		0			
57	12/3/2012 8:52	0		0		0			
58	12/3/2012 8:53	0		0		0			
59	12/3/2012 8:54	0		0		0			
60	12/3/2012 8:55	0		0		0			
61	12/3/2012 8:56	0		0		0			
62	12/3/2012 8:57	0		0		0			
63	12/3/2012 8:58	0		0		0			
64	12/3/2012 8:59	0		0		0			
65	12/3/2012 9:00	0		0		0			
66	12/3/2012 9:01	0		0		0			
67	12/3/2012 9:02	0		0		0			
68	12/3/2012 9:03	0		0		0		0.0	
69	12/3/2012 9:04	0		0		0			
70	12/3/2012 9:05	0		0		0			
71	12/3/2012 9:06	0		0		0			
72	12/3/2012 9:07	0		0		0			
73	12/3/2012 9:08	0		0		0			
74	12/3/2012 9:09	0		0		0			
75	12/3/2012 9:10	0		0		0			

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
76	12/3/2012 9:11	0		0		0			
77	12/3/2012 9:12	0		0		0			
78	12/3/2012 9:13	0		0		0			
79	12/3/2012 9:14	0		0		0			
80	12/3/2012 9:15	0		0		0			Setting up to
81	12/3/2012 9:16	0		0		0			core GTB-12
82	12/3/2012 9:17	0		0		0		0.0	
83	12/3/2012 9:18	0		0		0			
84	12/3/2012 9:19	0		0		0			
85	12/3/2012 9:20	0		0		0			
86	12/3/2012 9:21	0		0		0			
87	12/3/2012 9:22	0		0		0			
88	12/3/2012 9:23	0		0		0			
89	12/3/2012 9:24	0		0		0			
90	12/3/2012 9:25	0		0		0			
91	12/3/2012 9:26	0		0		0			
92	12/3/2012 9:27	0		0		0			
93	12/3/2012 9:28	0		0		0			
94	12/3/2012 9:29	0		0		0			
95	12/3/2012 9:30	0		0		0			
96	12/3/2012 9:31	0		0		0			
97	12/3/2012 9:32	0		0		0			
98	12/3/2012 9:33	0		0		0		0.0	
99	12/3/2012 9:34	0		0		0			
100	12/3/2012 9:35	0		0		0			Coring
101	12/3/2012 9:36	0		0		0			GTB-12
102	12/3/2012 9:37	0		0		0			
103	12/3/2012 9:38	0		0		0			
104	12/3/2012 9:39	0		0		0			
105	12/3/2012 9:40	0		0		0			
106	12/3/2012 9:41	0		0		0			
107	12/3/2012 9:42	0		0		0			
108	12/3/2012 9:43	0		0		0			
109	12/3/2012 9:44	0		0		0			
110	12/3/2012 9:45	0		0		0			
111	12/3/2012 9:46	0		0		0			
112	12/3/2012 9:47	0		0		0			
113	12/3/2012 9:48	0		0		0		0.0	
114	12/3/2012 9:49	0		0		0			
115	12/3/2012 9:50	0		0		0			
116	12/3/2012 9:51	0		0		0			
117	12/3/2012 9:52	0		0		0			
118	12/3/2012 9:53	0		0		0			
119	12/3/2012 9:54	0		0		0			
120	12/3/2012 9:55	0		0		0			
121	12/3/2012 9:56	0		0		0			
122	12/3/2012 9:57	0		0		0			
123	12/3/2012 9:58	0		0		0			
124	12/3/2012 9:59	0		0		0			
125	12/3/2012 10:00	0		0		0			
126	12/3/2012 10:01	0		0		0			
127	12/3/2012 10:02	0		0		0			
128	12/3/2012 10:03	0		0		0		0.0	Backfilling
129	12/3/2012 10:04	0		0		0			GTB-12
130	12/3/2012 10:05	0		0		0			
131	12/3/2012 10:06	0		0		0			
132	12/3/2012 10:07	0		0		0			
133	12/3/2012 10:08	0		0		0			
134	12/3/2012 10:09	0		0		0			
135	12/3/2012 10:10	0		0		0			
136	12/3/2012 10:11	0		0		0			
137	12/3/2012 10:12	0		0		0			
138	12/3/2012 10:13	0		0		0			
139	12/3/2012 10:14	0		0		0			
140	12/3/2012 10:15	0		0		0			
141	12/3/2012 10:16	0		0		0			
142	12/3/2012 10:17	0		0		0			
143	12/3/2012 10:18	0		0		0		0.0	Moving air
144	12/3/2012 10:19	0		0		0			monitors and
145	12/3/2012 10:20	0		0		0			rig to GTB-13
146	12/3/2012 10:21	0		0		0			
147	12/3/2012 10:22	0		0		0			
148	12/3/2012 10:23	0		0		0			
149	12/3/2012 10:24	0		0		0			
150	12/3/2012 10:25	0		0		0			

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
151	12/3/2012 10:26	0		0		0			
152	12/3/2012 10:27	0		0		0			
153	12/3/2012 10:28	0		0		0			
154	12/3/2012 10:29	0		0		0			
155	12/3/2012 10:30	0		0		0			
156	12/3/2012 10:31	0		0		0			
157	12/3/2012 10:32	0		0		0			
158	12/3/2012 10:33	0		0		0		0.0	Setting up on GTB-13
159	12/3/2012 10:34	0		0		0			
160	12/3/2012 10:35	0		0		0			
161	12/3/2012 10:36	0		0		0			
162	12/3/2012 10:37	0		0		0			
163	12/3/2012 10:38	0		0		0			
164	12/3/2012 10:39	0		0		0			
165	12/3/2012 10:40	0		0		0			
166	12/3/2012 10:41	0		0		0			
167	12/3/2012 10:42	0		0		0			
168	12/3/2012 10:43	0		0		0			
169	12/3/2012 10:44	0		0		0			
170	12/3/2012 10:45	0		0		0			
171	12/3/2012 10:46	0		0		0			
172	12/3/2012 10:47	0		0		0			
173	12/3/2012 10:48	0		0		0		0.0	
174	12/3/2012 10:49	0		0		0			
175	12/3/2012 10:50	0		0		0			
176	12/3/2012 10:51	0		0		0			
177	12/3/2012 10:52	0		0		0			
178	12/3/2012 10:53	0		0		0			
179	12/3/2012 10:54	0		0		0			
180	12/3/2012 10:55	0		0		0			
181	12/3/2012 10:56	0		0		0			
182	12/3/2012 10:57	0		0		0			
183	12/3/2012 10:58	0		0		0			
184	12/3/2012 10:59	0		0		0			
185	12/3/2012 11:00	0		0		0			
186	12/3/2012 11:01	0		0		0			
187	12/3/2012 11:02	0		0		0			
188	12/3/2012 11:03	0		0		0		0.0	
189	12/3/2012 11:04	0		0		0			
190	12/3/2012 11:05	0		0		0			
191	12/3/2012 11:06	0		0		0			
192	12/3/2012 11:07	0		0		0			
193	12/3/2012 11:08	0		0		0			
194	12/3/2012 11:09	0		0		0			
195	12/3/2012 11:10	0		0		0			Drilling GTB-13
196	12/3/2012 11:11	0		0		0			
197	12/3/2012 11:12	0		0		0			
198	12/3/2012 11:13	0		0		0			
199	12/3/2012 11:14	0		0		0			
200	12/3/2012 11:15	0		0		0			
201	12/3/2012 11:16	0		0		0			
202	12/3/2012 11:17	0		0		0			
203	12/3/2012 11:18	0		0		0		0.0	
204	12/3/2012 11:19	0		0		0			
205	12/3/2012 11:20	0		0		0			
206	12/3/2012 11:21	0		0		0			
207	12/3/2012 11:22	0		0		0			
208	12/3/2012 11:23	0		0		0			
209	12/3/2012 11:24	0		0		0			
210	12/3/2012 11:25	0		0		0			
211	12/3/2012 11:26	0		0		0			
212	12/3/2012 11:27	0		0		0			
213	12/3/2012 11:28	0		0		0			
214	12/3/2012 11:29	0		0		0			
215	12/3/2012 11:30	0		0		0			
216	12/3/2012 11:31	0		0		0			
217	12/3/2012 11:32	0		0		0			
218	12/3/2012 11:33	0		0		0		0.0	
219	12/3/2012 11:34	0		0		0			
220	12/3/2012 11:35	0		0		0			
221	12/3/2012 11:36	0		0		0			
222	12/3/2012 11:37	0		0		0			
223	12/3/2012 11:38	0		0		0			
224	12/3/2012 11:39	0		0		0			
225	12/3/2012 11:40	0		0		0			

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
226	12/3/2012 11:41	0		0		0			
227	12/3/2012 11:42	0		0		0			
228	12/3/2012 11:43	0		0		0			
229	12/3/2012 11:44	0		0		0		0.0	Drilling GTB-13, shut down air monitors for lunch
230	12/3/2012 11:45	0		0		0			
231	12/3/2012 11:46	0		0		0			
232	12/3/2012 11:47	0		0		0			
233	12/3/2012 11:48	0		0		0			
234	12/3/2012 12:51	0		0		0			
235	12/3/2012 12:52	0		0		0		0.0	Started air monitors
236	12/3/2012 12:53	0		0		0			
237	12/3/2012 12:54	0		0		0			
238	12/3/2012 12:55	0		0		0			
239	12/3/2012 12:56	0		0		0			
240	12/3/2012 12:57	0		0		0			
241	12/3/2012 12:58	0		0		0			
242	12/3/2012 12:59	0		0		0			
243	12/3/2012 13:00	0		0		0		0.0	
244	12/3/2012 13:01	0		0		0			
245	12/3/2012 13:02	0		0		0			
246	12/3/2012 13:03	0		0		0			
247	12/3/2012 13:04	0		0		0			
248	12/3/2012 13:05	0		0		0			
249	12/3/2012 13:06	0		0		0			
250	12/3/2012 13:07	0		0		0			
251	12/3/2012 13:08	0		0		0			
252	12/3/2012 13:09	0		0		0			
253	12/3/2012 13:10	0		0		0			
254	12/3/2012 13:11	0		0		0			
255	12/3/2012 13:12	0		0		0			
256	12/3/2012 13:13	0		0		0			
257	12/3/2012 13:14	0		0		0			
258	12/3/2012 13:15	0		0		0			
259	12/3/2012 13:16	0		0		0			
260	12/3/2012 13:17	0		0		0			
261	12/3/2012 13:18	0		0		0			
262	12/3/2012 13:19	0		0		0			
263	12/3/2012 13:20	0		0		0		0.0	
264	12/3/2012 13:21	0		0		0			
265	12/3/2012 13:22	0		0		0			
266	12/3/2012 13:23	0		0		0			
267	12/3/2012 13:24	0		0		0			
268	12/3/2012 13:25	0		0		0			
269	12/3/2012 13:26	0		0		0			
270	12/3/2012 13:27	0		0		0			
271	12/3/2012 13:28	0		0		0			
272	12/3/2012 13:29	0		0		0			Drilling GTB-13
273	12/3/2012 13:30	0		0		0			
274	12/3/2012 13:31	0		0		0			
275	12/3/2012 13:32	0		0		0			
276	12/3/2012 13:33	0		0		0			
277	12/3/2012 13:34	0		0		0			
278	12/3/2012 13:35	0		0		0		0.0	
279	12/3/2012 13:36	0		0		0			
280	12/3/2012 13:37	0		0		0			
281	12/3/2012 13:38	0		0		0			
282	12/3/2012 13:39	0		0		0			
283	12/3/2012 13:40	0		0		0			
284	12/3/2012 13:41	0		0		0			
285	12/3/2012 13:42	0		0		0			
286	12/3/2012 13:43	0		0		0			
287	12/3/2012 13:44	0		0		0			
288	12/3/2012 13:45	0		0		0			
289	12/3/2012 13:46	0		0		0			
290	12/3/2012 13:47	0		0		0			
291	12/3/2012 13:48	0		0		0			
292	12/3/2012 13:49	0		0		0			
293	12/3/2012 13:50	0		0		0		0.0	
294	12/3/2012 13:51	0		0		0			
295	12/3/2012 13:52	0		0		0			
296	12/3/2012 13:53	0		0		0			
297	12/3/2012 13:54	0		0		0			
298	12/3/2012 13:55	0		0		0			
299	12/3/2012 13:56	0		0		0			
300	12/3/2012 13:57	0		0		0			

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
301	12/3/2012 13:58	0		0		0			
302	12/3/2012 13:59	0		0		0			
303	12/3/2012 14:00	0		0		0			
304	12/3/2012 14:01	0		0		0			
305	12/3/2012 14:02	0		0		0			
306	12/3/2012 14:03	0		0		0			
307	12/3/2012 14:04	0		0		0			
308	12/3/2012 14:05	0		0		0		0.0	
309	12/3/2012 14:06	0		0		0			
310	12/3/2012 14:07	0		0		0			
311	12/3/2012 14:08	0		0		0			
312	12/3/2012 14:09	0		0		0			
313	12/3/2012 14:10	0		0		0			
314	12/3/2012 14:11	0		0		0			
315	12/3/2012 14:12	0		0		0			
316	12/3/2012 14:13	0		0		0			Drilling
317	12/3/2012 14:14	0		0		0			GTB-13
318	12/3/2012 14:15	0		0		0			
319	12/3/2012 14:16	0		0		0			
320	12/3/2012 14:17	0		0		0			
321	12/3/2012 14:18	0		0		0			
322	12/3/2012 14:19	0		0		0			
323	12/3/2012 14:20	0		0		0		0.0	
324	12/3/2012 14:21	0		0		0			
325	12/3/2012 14:22	0		0		0			
326	12/3/2012 14:23	0		0		0			
327	12/3/2012 14:24	0		0		0			
328	12/3/2012 14:25	0		0		0			
329	12/3/2012 14:26	0		0		0			
330	12/3/2012 14:27	0		0		0			
331	12/3/2012 14:28	0		0		0			
332	12/3/2012 14:29	0		0		0			
333	12/3/2012 14:30	0		0		0			
334	12/3/2012 14:31	0		0		0			
335	12/3/2012 14:32	0		0		0			
336	12/3/2012 14:33	0		0		0			
337	12/3/2012 14:34	0		0		0			
338	12/3/2012 14:35	0		0		0		0.0	
339	12/3/2012 14:36	0		0		0			
340	12/3/2012 14:37	0		0		0			
341	12/3/2012 14:38	0		0		0			
342	12/3/2012 14:39	0		0		0			
343	12/3/2012 14:40	0		0		0			Roller bit on
344	12/3/2012 14:41	0		0		0			GTB-13
345	12/3/2012 14:42	0		0		0			
346	12/3/2012 14:43	0		0		0			
347	12/3/2012 14:44	0		0		0			
348	12/3/2012 14:45	0		0		0			
349	12/3/2012 14:46	0		0		0			
350	12/3/2012 14:47	0		0		0			
351	12/3/2012 14:48	0		0		0			
352	12/3/2012 14:49	0		0		0			
353	12/3/2012 14:50	0		0		0		0.0	
354	12/3/2012 14:51	0		0		0			
355	12/3/2012 14:52	0		0		0			
356	12/3/2012 14:53	0		0		0			
357	12/3/2012 14:54	0		0		0			
358	12/3/2012 14:55	0		0		0			
359	12/3/2012 14:56	0		0		0			
360	12/3/2012 14:57	0		0		0			
361	12/3/2012 14:58	0		0		0			
362	12/3/2012 14:59	0		0		0			
363	12/3/2012 15:00	0		0		0			
364	12/3/2012 15:01	0		0		0			Backfilling
365	12/3/2012 15:02	0		0		0			GTB-13
366	12/3/2012 15:03	0		0		0			
367	12/3/2012 15:04	0		0		0			
368	12/3/2012 15:05	0		0		0		0.0	
369	12/3/2012 15:06	0		0		0			
370	12/3/2012 15:07	0		0		0			
371	12/3/2012 15:08	0		0		0			
372	12/3/2012 15:09	0		0		0			
373	12/3/2012 15:10	0		0		0			
374	12/3/2012 15:11	0		0		0			
375	12/3/2012 15:12	0		0		0			

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
376	12/3/2012 15:13	0		0		0			
377	12/3/2012 15:14	0		0		0			
378	12/3/2012 15:15	0		0		0			
379	12/3/2012 15:16	0		0		0			Backfilling
380	12/3/2012 15:17	0		0		0			GTB-13
381	12/3/2012 15:18	0		0		0			
382	12/3/2012 15:19	0		0		0			
383	12/3/2012 15:20	0		0		0		0.0	
384	12/3/2012 15:21	0		0		0			
385	12/3/2012 15:22	0		0		0			
386	12/3/2012 15:23	0		0		0			
387	12/3/2012 15:24	0		0		0			
388	12/3/2012 15:25	0		0		0			Moving air
389	12/3/2012 15:26	0		0		0			monitors and
390	12/3/2012 15:27	0		0		0			rig to GTB-14
391	12/3/2012 15:28	0		0		0			
392	12/3/2012 15:29	0		0		0			
393	12/3/2012 15:30	0		0		0			
394	12/3/2012 15:31	0		0		0			
395	12/3/2012 15:32	0		0		0			
396	12/3/2012 15:33	0		0		0			
397	12/3/2012 15:34	0		0		0		0.0	
398	12/3/2012 15:35	0		0		0			
399	12/3/2012 15:36	0		0		0			
400	12/3/2012 15:37	0		0		0			
401	12/3/2012 15:38	0		0		0			
402	12/3/2012 15:39	0		0		0			
403	12/3/2012 15:40	0		0		0			
404	12/3/2012 15:41	0		0		0			
405	12/3/2012 15:42	0		0		0			
406	12/3/2012 15:43	0		0		0			
407	12/3/2012 15:44	0		0		0			
408	12/3/2012 15:45	0		0		0			
409	12/3/2012 15:46	0		0		0			
410	12/3/2012 15:47	0		0		0			
411	12/3/2012 15:48	0		0		0			
412	12/3/2012 15:49	0		0		0			
413	12/3/2012 15:50	0		0		0		0.0	Drilling
414	12/3/2012 15:51	0		0		0			GTB-14
415	12/3/2012 15:52	0		0		0			
416	12/3/2012 15:53	0		0		0			
417	12/3/2012 15:54	0		0		0			
418	12/3/2012 15:55	0		0		0			
419	12/3/2012 15:56	0		0		0			
420	12/3/2012 15:57	0		0		0			
421	12/3/2012 15:58	0		0		0			
422	12/3/2012 15:59	0		0		0			
423	12/3/2012 16:00	0		0		0			
424	12/3/2012 16:01	0		0		0			
425	12/3/2012 16:02	0		0		0			
426	12/3/2012 16:03	0		0		0		0.0	
427	12/3/2012 16:04	0		0		0			
428	12/3/2012 16:05	0		0		0			
429	12/3/2012 16:06	0		0		0			
430	12/3/2012 16:07	0		0		0			Shut down air
431	12/3/2012 16:08	0		0		0			monitors

Model Number	DataRAM 4	Temp. Units	F
Serial No.	D147!	Max Mass	117.9614
Device No.	1	Max Mass @	4 - 11:47:34
Tag Number	6	Avg Mass	58.84798
Start Time	11:43:34	Max Diam	2.817106
Start Date	4-Dec-12	Max Diam @	4 - 11:47:34
Log Period	0:01:00	Avg Diam	1.210428
Number	247	Alarm	ENABLED
Cal. Factor	1	Alarm Level	100
Unit	0	Auto Zero	DISABLED
Unit Name	(MASS) ug/m3	AZ Interval	1
Size Correct	DISABLED	Errors	0

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
1	76.8	66.1	41	0.9312	11:44:34	4-Dec-12	85.8	No air monitors in morning due to rain
2	82	66	43	1.5349	11:45:34	4-Dec-12		
3	89	66	45	1.4887	11:46:34	4-Dec-12		
4	118	66	47	2.8171	11:47:34	4-Dec-12		
5	85.3	66	48	2.1093	11:48:34	4-Dec-12		
6	84.6	65.9	49	1.7109	11:49:34	4-Dec-12		
7	84.6	65.9	50	1.6259	11:50:34	4-Dec-12		
8	84	65.9	51	1.6403	11:51:34	4-Dec-12		
9	87.9	65.9	52	1.6786	11:52:34	4-Dec-12		
10	87.1	65.9	53	1.6466	11:53:34	4-Dec-12		
11	85.3	65.8	53	1.6654	11:54:34	4-Dec-12		
12	80.9	65.8	54	1.4755	11:55:34	4-Dec-12		
13	81	65.9	54	1.3993	11:56:34	4-Dec-12		
14	79.8	65.8	54	1.4498	11:57:34	4-Dec-12		
15	81	65.8	55	1.4733	11:58:34	4-Dec-12		
16	80.7	65.9	55	1.4786	11:59:34	4-Dec-12		
17	82.8	65.9	56	1.4882	12:00:34	4-Dec-12		
18	107.1	65.9	56	1.4059	12:01:34	4-Dec-12		
19	109.3	65.9	56	1.271	12:02:34	4-Dec-12		
20	80.8	65.9	57	1.5933	12:03:34	4-Dec-12		
21	79.6	66	57	1.4979	12:04:34	4-Dec-12		
22	79.8	66	57	1.5071	12:05:34	4-Dec-12		
23	79.8	66.1	57	1.5032	12:06:34	4-Dec-12		
24	79.5	66.1	57	1.4618	12:07:34	4-Dec-12		
25	84.4	66.1	57	1.4769	12:08:34	4-Dec-12		
26	78.5	66.1	58	1.4409	12:09:34	4-Dec-12		
27	88.6	66.2	58	1.5608	12:10:34	4-Dec-12		
28	75.6	66.2	58	1.3724	12:11:34	4-Dec-12		
29	71.5	66.3	58	1.3328	12:12:34	4-Dec-12		
30	68.5	66.3	58	1.2097	12:13:34	4-Dec-12		
31	70.5	66.3	58	1.2917	12:14:34	4-Dec-12		
32	71.1	66.4	58	1.3461	12:15:34	4-Dec-12		
33	70	66.4	58	1.3312	12:16:34	4-Dec-12		
34	68.1	66.5	58	1.2133	12:17:34	4-Dec-12		
35	69.7	66.5	58	1.3357	12:18:34	4-Dec-12		
36	70	66.5	58	1.3361	12:19:34	4-Dec-12		
37	67.6	66.6	59	1.2652	12:20:34	4-Dec-12		
38	66.8	66.6	59	1.255	12:21:34	4-Dec-12		
39	68.4	66.6	59	1.2544	12:22:34	4-Dec-12		
40	69.1	66.6	59	1.3108	12:23:34	4-Dec-12		
41	67.8	66.7	59	1.3201	12:24:34	4-Dec-12		
42	73.1	66.7	59	1.368	12:25:34	4-Dec-12		
43	68.2	66.8	59	1.3598	12:26:34	4-Dec-12		
44	65.2	66.8	59	1.2501	12:27:34	4-Dec-12		
45	64	66.9	59	1.1854	12:28:34	4-Dec-12		
46	64.8	66.9	59	1.2126	12:29:34	4-Dec-12		
47	65.2	67	59	1.2329	12:30:34	4-Dec-12		
48	63.2	67	59	1.1901	12:31:34	4-Dec-12		
49	63.5	67	59	1.2186	12:32:34	4-Dec-12		
50	61.7	67.1	59	1.1937	12:33:34	4-Dec-12		
51	62	67.2	59	1.1421	12:34:34	4-Dec-12		
52	60.1	67.2	59	1.1743	12:35:34	4-Dec-12		
53	60.2	67.2	59	1.1472	12:36:34	4-Dec-12		
54	60.9	67.2	59	1.2047	12:37:34	4-Dec-12		
55	60.7	67.3	59	1.2563	12:38:34	4-Dec-12		
56	60	67.3	59	1.1703	12:39:34	4-Dec-12		
57	60.1	67.3	59	1.193	12:40:34	4-Dec-12		
58	59.1	67.4	59	1.1859	12:41:34	4-Dec-12		
59	60.3	67.4	59	1.2017	12:42:34	4-Dec-12		
60	60.3	67.5	59	1.1752	12:43:34	4-Dec-12		
61	60.9	67.5	59	1.2195	12:44:34	4-Dec-12		
62	60.3	67.5	59	1.1748	12:45:34	4-Dec-12		
63	61	67.6	59	1.1698	12:46:34	4-Dec-12		
64	61	67.6	59	1.1744	12:47:34	4-Dec-12		
65	58.8	67.6	59	1.1404	12:48:34	4-Dec-12		
66	58.2	67.6	59	1.163	12:49:34	4-Dec-12		
67	58.7	67.7	59	1.138	12:50:34	4-Dec-12		
68	58.9	67.8	59	1.1255	12:51:34	4-Dec-12		
69	59.6	67.8	59	1.1642	12:52:34	4-Dec-12		
70	58.7	67.9	59	1.1272	12:53:34	4-Dec-12		
71	58.8	67.9	59	1.1236	12:54:34	4-Dec-12		
72	59.2	67.9	59	1.1202	12:55:34	4-Dec-12		
73	58	68	59	1.0901	12:56:34	4-Dec-12		
74	56.4	68.1	59	1.0896	12:57:34	4-Dec-12		
75	56.4	68.1	59	1.1325	12:58:34	4-Dec-12		

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
76	56	68.1	59	1.1346	12:59:34	4-Dec-12	54.6	Lunch, no activity
77	54.5	68.1	59	1.0564	13:00:34	4-Dec-12		
78	58.4	68.2	59	1.1373	13:01:34	4-Dec-12		
79	57.6	68.2	59	1.0802	13:02:34	4-Dec-12		
80	56.4	68.3	59	1.1038	13:03:34	4-Dec-12		
81	54.1	68.3	59	1.0888	13:04:34	4-Dec-12		
82	54	68.3	59	1.0635	13:05:34	4-Dec-12		
83	53.7	68.4	59	1.0927	13:06:34	4-Dec-12		
84	54.5	68.4	59	1.0855	13:07:34	4-Dec-12		
85	53.4	68.4	59	1.075	13:08:34	4-Dec-12		
86	53.8	68.5	58	1.1148	13:09:34	4-Dec-12		
87	53.5	68.6	58	1.0615	13:10:34	4-Dec-12		
88	53.6	68.6	58	1.1483	13:11:34	4-Dec-12		
89	52.8	68.7	58	1.0949	13:12:34	4-Dec-12		
90	53.2	68.8	58	1.0749	13:13:34	4-Dec-12		
91	52.9	68.8	58	1.0205	13:14:34	4-Dec-12		
92	68.7	68.9	58	1.0411	13:15:34	4-Dec-12		
93	73.9	68.9	58	0.9786	13:16:34	4-Dec-12		
94	57.6	69	58	1.0597	13:17:34	4-Dec-12		
95	53.7	69	58	1.0887	13:18:34	4-Dec-12		
96	52.7	69.1	58	1.0386	13:19:34	4-Dec-12		
97	55	69.1	58	1.1325	13:20:34	4-Dec-12		
98	56.4	69.2	58	1.1349	13:21:34	4-Dec-12		
99	56.2	69.2	58	1.121	13:22:34	4-Dec-12		
100	56.9	69.2	58	1.1376	13:23:34	4-Dec-12		
101	59.2	69.3	58	1.1177	13:24:34	4-Dec-12		
102	55.1	69.4	57	1.1003	13:25:34	4-Dec-12		
103	60.9	69.4	57	1.2036	13:26:34	4-Dec-12		
104	54.1	69.4	57	1.0945	13:27:34	4-Dec-12		
105	56	69.5	57	1.1055	13:28:34	4-Dec-12		
106	56.4	69.6	57	1.1544	13:29:34	4-Dec-12		
107	53.7	69.6	57	1.0701	13:30:34	4-Dec-12		
108	63.1	69.7	57	1.2606	13:31:34	4-Dec-12		
109	65.7	69.8	57	1.3976	13:32:34	4-Dec-12		
110	54.5	69.8	57	1.211	13:33:34	4-Dec-12		
111	54.5	69.8	57	1.0798	13:34:34	4-Dec-12		
112	62.5	69.8	57	1.3267	13:35:34	4-Dec-12		
113	56.9	69.9	57	1.1681	13:36:34	4-Dec-12		
114	53.6	69.9	57	1.066	13:37:34	4-Dec-12		
115	53.7	70	57	1.0875	13:38:34	4-Dec-12		
116	52.8	70	57	1.0753	13:39:34	4-Dec-12		
117	53.6	70.1	57	1.0813	13:40:34	4-Dec-12		
118	55.7	70.1	57	1.1291	13:41:34	4-Dec-12		
119	53.7	70.1	57	1.0349	13:42:34	4-Dec-12		
120	53.8	70.1	57	1.0908	13:43:34	4-Dec-12		
121	58	70.2	57	1.1485	13:44:34	4-Dec-12		
122	56.3	70.2	57	1.1335	13:45:34	4-Dec-12		
123	54.1	70.3	57	1.1153	13:46:34	4-Dec-12		
124	53	70.3	57	1.0789	13:47:34	4-Dec-12		
125	51.5	70.3	57	1.0324	13:48:34	4-Dec-12		
126	55.2	70.3	56	1.0545	13:49:34	4-Dec-12		
127	52.5	70.3	56	1.0948	13:50:34	4-Dec-12		
128	52.5	70.3	56	1.0254	13:51:34	4-Dec-12		
129	53.2	70.3	56	1.1371	13:52:34	4-Dec-12		
130	56.2	70.4	56	1.1226	13:53:34	4-Dec-12		
131	53.9	70.4	56	1.0491	13:54:34	4-Dec-12		
132	52.6	70.4	56	1.0704	13:55:34	4-Dec-12		
133	56.6	70.4	56	1.0641	13:56:34	4-Dec-12		
134	53.2	70.4	56	1.0793	13:57:34	4-Dec-12		
135	61.8	70.4	56	1.1767	13:58:34	4-Dec-12		
136	54.8	70.4	56	1.0326	13:59:34	4-Dec-12		
137	55.8	70.4	56	1.0828	14:00:34	4-Dec-12		
138	60.9	70.4	56	1.2497	14:01:34	4-Dec-12		
139	55.6	70.4	56	1.2444	14:02:34	4-Dec-12		
140	53	70.4	56	1.1203	14:03:34	4-Dec-12		
141	51.4	70.4	56	1.0911	14:04:34	4-Dec-12		
142	56.6	70.4	56	1.1408	14:05:34	4-Dec-12		
143	51.7	70.4	56	1.1088	14:06:34	4-Dec-12		
144	49.9	70.3	56	1.0771	14:07:34	4-Dec-12		
145	51.4	70.3	56	1.0665	14:08:34	4-Dec-12		
146	54.5	70.3	56	1.2619	14:09:34	4-Dec-12		
147	51.8	70.3	56	1.1025	14:10:34	4-Dec-12		
148	54.6	70.3	56	1.2154	14:11:34	4-Dec-12		
149	56.2	70.3	56	1.2559	14:12:34	4-Dec-12		
150	56.4	70.2	56	1.2305	14:13:34	4-Dec-12		



Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
151	55.7	70.2	56	1.1486	14:14:34	4-Dec-12	57.5	
152	57.6	70.2	56	1.2183	14:15:34	4-Dec-12		
153	58.7	70.1	55	1.2236	14:16:34	4-Dec-12		
154	53.3	70.1	56	1.1728	14:17:34	4-Dec-12		
155	57.5	70.1	55	1.1966	14:18:34	4-Dec-12		
156	55.7	70	56	1.2332	14:19:34	4-Dec-12		
157	53.3	70	55	1.186	14:20:34	4-Dec-12		
158	54	70	55	1.2373	14:21:34	4-Dec-12		
159	64.2	69.9	55	1.5126	14:22:34	4-Dec-12		
160	58.5	69.9	56	1.4772	14:23:34	4-Dec-12		
161	55	69.9	55	1.2685	14:24:34	4-Dec-12		
162	59.4	69.8	56	1.2708	14:25:34	4-Dec-12		
163	63.8	69.8	56	1.3968	14:26:34	4-Dec-12		
164	59.2	69.7	56	1.3773	14:27:34	4-Dec-12		
165	56	69.7	56	1.3023	14:28:34	4-Dec-12		
166	57.7	69.6	56	1.228	14:29:34	4-Dec-12		
167	75.6	69.6	56	1.7436	14:30:34	4-Dec-12		
168	53.9	69.5	56	1.3663	14:31:34	4-Dec-12		
169	60.7	69.4	56	1.3588	14:32:34	4-Dec-12		
170	53.5	69.4	56	1.2387	14:33:34	4-Dec-12		
171	51.9	69.3	56	1.2007	14:34:34	4-Dec-12		
172	51.4	69.3	56	1.1056	14:35:34	4-Dec-12		
173	53.8	69.2	56	1.3032	14:36:34	4-Dec-12		
174	60.8	69.2	56	1.3796	14:37:34	4-Dec-12		
175	55.4	69.1	56	1.4464	14:38:34	4-Dec-12		
176	58.9	69	56	1.4705	14:39:34	4-Dec-12		
177	51.6	69	56	1.2847	14:40:34	4-Dec-12		
178	56.3	69	56	1.2496	14:41:34	4-Dec-12		
179	59.2	68.9	57	1.2995	14:42:34	4-Dec-12		
180	52.7	68.8	57	1.1592	14:43:34	4-Dec-12		
181	52.4	68.8	57	1.0185	14:44:34	4-Dec-12		
182	53	68.7	57	1.0345	14:45:34	4-Dec-12		
183	50.1	68.7	57	1.1218	14:46:34	4-Dec-12		
184	48.3	68.6	57	1.1156	14:47:34	4-Dec-12		
185	48.3	68.6	57	1.106	14:48:34	4-Dec-12		
186	48.2	68.5	57	1.0302	14:49:34	4-Dec-12		
187	48.9	68.5	57	1.0959	14:50:34	4-Dec-12		
188	49.1	68.4	57	1.0545	14:51:34	4-Dec-12		
189	49.7	68.4	57	1.0774	14:52:34	4-Dec-12		
190	51	68.3	58	1.0731	14:53:34	4-Dec-12		
191	53.3	68.3	57	1.201	14:54:34	4-Dec-12		
192	53.5	68.2	57	1.2042	14:55:34	4-Dec-12		
193	53.3	68.2	57	1.1948	14:56:34	4-Dec-12		
194	51.4	68.1	57	1.2009	14:57:34	4-Dec-12		
195	51.7	68	58	1.2211	14:58:34	4-Dec-12		
196	52.4	68	58	1.1565	14:59:34	4-Dec-12		
197	51.8	67.9	58	1.1526	15:00:34	4-Dec-12		
198	51.1	67.9	58	1.1636	15:01:34	4-Dec-12		
199	51.6	67.8	58	1.176	15:02:34	4-Dec-12		
200	51.4	67.7	58	1.1465	15:03:34	4-Dec-12		
201	53.1	67.6	58	1.1743	15:04:34	4-Dec-12		
202	49.7	67.6	58	1.0756	15:05:34	4-Dec-12		
203	58.5	67.5	58	1.3246	15:06:34	4-Dec-12		
204	55.1	67.5	58	1.3526	15:07:34	4-Dec-12		
205	51	67.4	58	1.1966	15:08:34	4-Dec-12		
206	49.4	67.4	59	1.1136	15:09:34	4-Dec-12		
207	48.6	67.3	59	1.0835	15:10:34	4-Dec-12		
208	51.6	67.3	59	1.1281	15:11:34	4-Dec-12		
209	49.7	67.2	59	1.1415	15:12:34	4-Dec-12		
210	52.9	67.2	59	1.2815	15:13:34	4-Dec-12		
211	50.1	67.1	59	1.1757	15:14:34	4-Dec-12		
212	52.4	67	59	1.2045	15:15:34	4-Dec-12		
213	55.2	67	59	1.3051	15:16:34	4-Dec-12		
214	58.5	66.9	59	1.3973	15:17:34	4-Dec-12		
215	51.7	66.8	59	1.1839	15:18:34	4-Dec-12		
216	52.2	66.7	59	1.1699	15:19:34	4-Dec-12		
217	48.8	66.7	59	1.2209	15:20:34	4-Dec-12		
218	49.7	66.6	59	1.1832	15:21:34	4-Dec-12		
219	48.2	66.6	59	1.1681	15:22:34	4-Dec-12		
220	50	66.5	60	1.1903	15:23:34	4-Dec-12		
221	46.3	66.5	60	1.1056	15:24:34	4-Dec-12		
222	48.1	66.4	60	1.1707	15:25:34	4-Dec-12		
223	49	66.3	60	1.1606	15:26:34	4-Dec-12		
224	49	66.3	60	1.2614	15:27:34	4-Dec-12		
225	48.2	66.2	60	1.2031	15:28:34	4-Dec-12		

Drilling  
GTB-15

Coring  
GTB-15

Backfilling and  
grouting hole

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
226	49.3	66.2	60	1.2741	15:29:34	4-Dec-12	46.6	Backfilling and grouting hole and restoring cover conditions
227	47.2	66.1	60	1.1553	15:30:34	4-Dec-12		
228	47.8	66.1	60	1.1129	15:31:34	4-Dec-12		
229	49	66	60	1.1658	15:32:34	4-Dec-12		
230	48.6	66	61	1.2369	15:33:34	4-Dec-12		
231	43.4	65.9	61	1.1189	15:34:34	4-Dec-12		
232	45.5	65.8	61	0.9642	15:35:34	4-Dec-12		
233	49.4	65.8	61	0.8832	15:36:34	4-Dec-12		
234	56.4	65.7	61	1.0233	15:37:34	4-Dec-12		
235	44.2	65.6	61	1.0275	15:38:34	4-Dec-12		
236	48.5	65.6	61	1.0361	15:39:34	4-Dec-12		
237	43.3	65.5	61	1.0441	15:40:34	4-Dec-12		
238	40.4	65.5	61	0.9577	15:41:34	4-Dec-12		
239	41.4	65.5	61	0.9848	15:42:34	4-Dec-12		
240	45	65.4	61	1.0258	15:43:34	4-Dec-12		
241	40.6	65.4	61	0.9777	15:44:34	4-Dec-12	40.6	Shut down air monitors
242	40.8	65.3	61	1.0117	15:45:34	4-Dec-12		
243	40.4	65.3	61	0.9862	15:46:34	4-Dec-12		
244	40	65.2	61	0.9823	15:47:34	4-Dec-12		
245	41.6	65.1	61	1.0345	15:48:34	4-Dec-12		
246	40.6	65.1	61	1.0484	15:49:34	4-Dec-12		
247	40.4	65	61	0.9466	15:50:34	4-Dec-12		

Instrument: MiniRAE 2000  
 User ID: 00000001  
 Data Points: 246  
 Last Calibration Time: 11/16/2012 16:38

Serial Number: 005343  
 Site ID: 00000132  
 Sample Period: 60 sec  
 Gas Name: Isobutylene

Measurement Type: Min (ppm) Avg (ppm) Max (ppm)  
 High Alarm Levels: 100 100 100  
 Low Alarm Levels: 50 50 50

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
1	12/4/2012 11:44	0		0		0			No air monitoring in morning due to rain
2	12/4/2012 11:45	0		0		0			
3	12/4/2012 11:46	0		0		0			
4	12/4/2012 11:47	0		0		0			
5	12/4/2012 11:48	0		0		0			
6	12/4/2012 11:49	0		0		0			
7	12/4/2012 11:50	0		0		0			
8	12/4/2012 11:51	0		0		0		0.0	
9	12/4/2012 11:52	0		0		0			
10	12/4/2012 11:53	0		0		0			
11	12/4/2012 11:54	0		0		0			
12	12/4/2012 11:55	0		0		0			
13	12/4/2012 11:56	0		0		0			
14	12/4/2012 11:57	0		0		0			
15	12/4/2012 11:58	0		0		0			
16	12/4/2012 11:59	0		0		0			
17	12/4/2012 12:00	0		0		0			
18	12/4/2012 12:01	0		0		0			
19	12/4/2012 12:02	0		0		0			
20	12/4/2012 12:03	0		0		0			
21	12/4/2012 12:04	0		0		0			
22	12/4/2012 12:05	0		0		0			
23	12/4/2012 12:06	0		0		0		0.0	
24	12/4/2012 12:07	0		0		0			
25	12/4/2012 12:08	0		0		0			
26	12/4/2012 12:09	0		0		0			
27	12/4/2012 12:10	0		0		0			
28	12/4/2012 12:11	0		0		0			
29	12/4/2012 12:12	0		0		0			
30	12/4/2012 12:13	0		0		0			
31	12/4/2012 12:14	0		0		0			
32	12/4/2012 12:15	0		0		0			
33	12/4/2012 12:16	0		0		0			
34	12/4/2012 12:17	0		0		0			
35	12/4/2012 12:18	0		0		0			
36	12/4/2012 12:19	0		0		0			
37	12/4/2012 12:20	0		0		0			
38	12/4/2012 12:21	0		0		0		0.0	
39	12/4/2012 12:22	0		0		0			
40	12/4/2012 12:23	0		0		0			
41	12/4/2012 12:24	0		0		0			
42	12/4/2012 12:25	0		0		0			
43	12/4/2012 12:26	0		0		0			
44	12/4/2012 12:27	0		0		0			
45	12/4/2012 12:28	0		0		0			
46	12/4/2012 12:29	0		0		0			
47	12/4/2012 12:30	0		0		0			
48	12/4/2012 12:31	0		0		0			
49	12/4/2012 12:32	0		0		0			
50	12/4/2012 12:33	0		0		0			
51	12/4/2012 12:34	0		0		0			
52	12/4/2012 12:35	0		0		0			
53	12/4/2012 12:36	0		0		0		0.0	
54	12/4/2012 12:37	0		0		0			
55	12/4/2012 12:38	0		0		0			
56	12/4/2012 12:39	0		0		0			
57	12/4/2012 12:40	0		0		0			
58	12/4/2012 12:41	0		0		0			
59	12/4/2012 12:42	0		0		0			
60	12/4/2012 12:43	0		0		0			
61	12/4/2012 12:44	0		0		0			
62	12/4/2012 12:45	0		0		0			
63	12/4/2012 12:46	0		0		0			
64	12/4/2012 12:47	0		0		0			
65	12/4/2012 12:48	0		0		0			
66	12/4/2012 12:49	0		0		0			
67	12/4/2012 12:50	0		0		0			
68	12/4/2012 12:51	0		0		0		0.0	
69	12/4/2012 12:52	0		0		0			
70	12/4/2012 12:53	0		0		0			
71	12/4/2012 12:54	0		0		0			
72	12/4/2012 12:55	0		0		0			
73	12/4/2012 12:56	0		0		0			
74	12/4/2012 12:57	0		0		0			
75	12/4/2012 12:58	0		0		0			

Lunch, no activity

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
76	12/4/2012 12:59	0		0		0			
77	12/4/2012 13:00	0		0		0			
78	12/4/2012 13:01	0		0		0			
79	12/4/2012 13:02	0		0		0			
80	12/4/2012 13:03	0		0		0			
81	12/4/2012 13:04	0		0		0			
82	12/4/2012 13:05	0		0		0			
83	12/4/2012 13:06	0		0		0		0.0	Lunch, no activity
84	12/4/2012 13:07	0		0		0			
85	12/4/2012 13:08	0		0		0			
86	12/4/2012 13:09	0		0		0			
87	12/4/2012 13:10	0		0		0			
88	12/4/2012 13:11	0		0		0			
89	12/4/2012 13:12	0		0		0			
90	12/4/2012 13:13	0		0		0			
91	12/4/2012 13:14	0		0		0			
92	12/4/2012 13:15	0		0		0			
93	12/4/2012 13:16	0		0		0			
94	12/4/2012 13:17	0		0		0			
95	12/4/2012 13:18	0		0		0			
96	12/4/2012 13:19	0		0		0			
97	12/4/2012 13:20	0		0		0			
98	12/4/2012 13:21	0		0		0		0.0	
99	12/4/2012 13:22	0		0		0			
100	12/4/2012 13:23	0		0		0			
101	12/4/2012 13:24	0		0		0			
102	12/4/2012 13:25	0		0		0			
103	12/4/2012 13:26	0		0		0			
104	12/4/2012 13:27	0		0		0			
105	12/4/2012 13:28	0		0		0			
106	12/4/2012 13:29	0		0		0			
107	12/4/2012 13:30	0		0		0			
108	12/4/2012 13:31	0		0		0			
109	12/4/2012 13:32	0		0		0			
110	12/4/2012 13:33	0		0		0			
111	12/4/2012 13:34	0		0		0			
112	12/4/2012 13:35	0		0		0			
113	12/4/2012 13:36	0		0		0		0.0	
114	12/4/2012 13:37	0		0		0			
115	12/4/2012 13:38	0		0		0			
116	12/4/2012 13:39	0		0		0			
117	12/4/2012 13:40	0		0		0			
118	12/4/2012 13:41	0		0		0			
119	12/4/2012 13:42	0		0		0			
120	12/4/2012 13:43	0		0		0			
121	12/4/2012 13:44	0		0		0			
122	12/4/2012 13:45	0		0		0			Drilling GTB-15
123	12/4/2012 13:46	0		0		0			
124	12/4/2012 13:47	0		0		0			
125	12/4/2012 13:48	0		0		0			
126	12/4/2012 13:49	0		0		0			
127	12/4/2012 13:50	0		0		0			
128	12/4/2012 13:51	0		0		0		0.0	
129	12/4/2012 13:52	0		0		0			
130	12/4/2012 13:53	0		0		0			
131	12/4/2012 13:54	0		0		0			
132	12/4/2012 13:55	0		0		0			
133	12/4/2012 13:56	0		0		0			
134	12/4/2012 13:57	0		0		0			
135	12/4/2012 13:58	0		0		0			
136	12/4/2012 13:59	0		0		0			
137	12/4/2012 14:00	0		0		0			
138	12/4/2012 14:01	0		0		0			
139	12/4/2012 14:02	0		0		0			
140	12/4/2012 14:03	0		0		0			
141	12/4/2012 14:04	0		0		0			
142	12/4/2012 14:05	0		0		0			
143	12/4/2012 14:06	0		0		0		0.0	
144	12/4/2012 14:07	0		0		0			
145	12/4/2012 14:08	0		0		0			
146	12/4/2012 14:09	0		0		0			
147	12/4/2012 14:10	0		0		0			
148	12/4/2012 14:11	0		0		0			
149	12/4/2012 14:12	0		0		0			
150	12/4/2012 14:13	0		0		0			

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
151	12/4/2012 14:14	0		0		0			
152	12/4/2012 14:15	0		0		0			
153	12/4/2012 14:16	0		0		0			
154	12/4/2012 14:17	0		0		0			
155	12/4/2012 14:18	0		0		0			
156	12/4/2012 14:19	0		0		0			
157	12/4/2012 14:20	0		0		0			
158	12/4/2012 14:21	0		0		0		0.0	
159	12/4/2012 14:22	0		0		0			
160	12/4/2012 14:23	0		0		0			
161	12/4/2012 14:24	0		0		0			
162	12/4/2012 14:25	0		0		0			
163	12/4/2012 14:26	0		0		0			
164	12/4/2012 14:27	0		0		0			
165	12/4/2012 14:28	0		0		0			
166	12/4/2012 14:29	0		0		0			
167	12/4/2012 14:30	0		0		0			
168	12/4/2012 14:31	0		0		0			
169	12/4/2012 14:32	0		0		0			
170	12/4/2012 14:33	0		0		0			
171	12/4/2012 14:34	0		0		0			Drilling
172	12/4/2012 14:35	0		0		0			GTB-15
173	12/4/2012 14:36	0		0		0		0.0	
174	12/4/2012 14:37	0		0		0			
175	12/4/2012 14:38	0		0		0			
176	12/4/2012 14:39	0		0		0			
177	12/4/2012 14:40	0		0		0			
178	12/4/2012 14:41	0		0		0			
179	12/4/2012 14:42	0		0		0			
180	12/4/2012 14:43	0		0		0			
181	12/4/2012 14:44	0		0		0			
182	12/4/2012 14:45	0		0		0			
183	12/4/2012 14:46	0		0		0			
184	12/4/2012 14:47	0		0		0			
185	12/4/2012 14:48	0		0		0			
186	12/4/2012 14:49	0		0		0			
187	12/4/2012 14:50	0		0		0			
188	12/4/2012 14:51	0		0		0		0.0	
189	12/4/2012 14:52	0		0		0			
190	12/4/2012 14:53	0		0		0			
191	12/4/2012 14:54	0		0		0			
192	12/4/2012 14:55	0		0		0			
193	12/4/2012 14:56	0		0		0			
194	12/4/2012 14:57	0		0		0			
195	12/4/2012 14:58	0		0		0			
196	12/4/2012 14:59	0		0		0			
197	12/4/2012 15:00	0		0		0			
198	12/4/2012 15:01	0		0		0			
199	12/4/2012 15:02	0		0		0			
200	12/4/2012 15:03	0		0		0			
201	12/4/2012 15:04	0		0		0			
202	12/4/2012 15:05	0		0		0			
203	12/4/2012 15:06	0		0		0		0.0	Coring
204	12/4/2012 15:07	0		0		0			GTB-15
205	12/4/2012 15:08	0		0		0			
206	12/4/2012 15:09	0		0		0			
207	12/4/2012 15:10	0		0		0			
208	12/4/2012 15:11	0		0		0			
209	12/4/2012 15:12	0		0		0			
210	12/4/2012 15:13	0		0		0			
211	12/4/2012 15:14	0		0		0			
212	12/4/2012 15:15	0		0		0			
213	12/4/2012 15:16	0		0		0			
214	12/4/2012 15:17	0		0		0			
215	12/4/2012 15:18	0		0		0			
216	12/4/2012 15:19	0		0		0			
217	12/4/2012 15:20	0		0		0			
218	12/4/2012 15:21	0		0		0		0.0	Backfilling and
219	12/4/2012 15:22	0		0		0			grouting hole,
220	12/4/2012 15:23	0		0		0			restoring cover
221	12/4/2012 15:24	0		0		0			conditions
222	12/4/2012 15:25	0		0		0			
223	12/4/2012 15:26	0		0		0			
224	12/4/2012 15:27	0		0		0			
225	12/4/2012 15:28	0		0		0			

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
226	12/4/2012 15:29	0		0		0			
227	12/4/2012 15:30	0		0		0			
228	12/4/2012 15:31	0		0		0			
229	12/4/2012 15:32	0		0		0			
230	12/4/2012 15:33	0		0		0			
231	12/4/2012 15:34	0		0		0			
232	12/4/2012 15:35	0		0		0			
233	12/4/2012 15:36	0		0		0		0.0	
234	12/4/2012 15:37	0		0		0			Backfilling and grouting hole, restoring cover conditions
235	12/4/2012 15:38	0		0		0			
236	12/4/2012 15:39	0		0		0			
237	12/4/2012 15:40	0		0		0			
238	12/4/2012 15:41	0		0		0			
239	12/4/2012 15:42	0		0		0			
240	12/4/2012 15:43	0		0		0			
241	12/4/2012 15:44	0		0		0			
242	12/4/2012 15:45	0		0		0			
243	12/4/2012 15:46	0		0		0		0.0	
244	12/4/2012 15:47	0		0		0			
245	12/4/2012 15:48	0		0		0			Shut down air monitors
246	12/4/2012 15:49	0		0		0			

Model Number	DataRAM 4	Temp. Units	F
Serial No.	D147 !	Max Mass	66.62492
Device No.	1	Max Mass @	401 - 14:53:22
Tag Number	7	Avg Mass	6.336814
Start Time	8:12:22	Max Diam	3.829682
Start Date	5-Dec-12	Max Diam @	6 - 8:18:22
Log Period	0:01:00	Avg Diam	0.734237
Number	474	Alarm	ENABLED
Cal. Factor	1	Alarm Level	100
Unit	0	Auto Zero	DISABLED
Unit Name	(MASS) ug/m3	AZ Interval	1
Size Correct	DISABLED	Errors	0

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
1	14.9	68.2	54	0.6024	8:13:22	5-Dec-12	8.8	Setting up on GTB-16
2	8.7	68	52	1.0532	8:14:22	5-Dec-12		
3	10.4	67.8	51	2.1106	8:15:22	5-Dec-12		
4	4.5	67.5	50	1.1702	8:16:22	5-Dec-12		
5	13.2	67.4	49	2.6999	8:17:22	5-Dec-12		
6	43.2	67.2	48	3.8297	8:18:22	5-Dec-12		
7	16.7	67	47	2.0273	8:19:22	5-Dec-12		
8	3.5	66.8	47	0.7554	8:20:22	5-Dec-12		
9	4.8	66.6	46	0.809	8:21:22	5-Dec-12		
10	2.2	66.5	46	0.4444	8:22:22	5-Dec-12		
11	1.9	66.4	46	0.4307	8:23:22	5-Dec-12		
12	2.1	66.3	46	0.4392	8:24:22	5-Dec-12		
13	1.7	66.2	45	0.4218	8:25:22	5-Dec-12		
14	1.7	66	45	0.4194	8:26:22	5-Dec-12		
15	1.9	65.9	45	0.4385	8:27:22	5-Dec-12		
16	3.5	65.8	45	0.5254	8:28:22	5-Dec-12		
17	1.8	65.6	45	0.4367	8:29:22	5-Dec-12		
18	1.9	65.6	45	0.4318	8:30:22	5-Dec-12		
19	1.7	65.5	45	0.4102	8:31:22	5-Dec-12		
20	1.6	65.4	45	0.4073	8:32:22	5-Dec-12		
21	48.3	65.3	45	0.4781	8:33:22	5-Dec-12		
22	29.1	65.2	44	0.4955	8:34:22	5-Dec-12		
23	42.5	65.2	44	0.9344	8:35:22	5-Dec-12		
24	3.9	65.1	44	0.5741	8:36:22	5-Dec-12		
25	3.2	65	44	0.475	8:37:22	5-Dec-12		
26	1.9	65	44	0.4044	8:38:22	5-Dec-12		
27	10.4	64.9	44	0.5327	8:39:22	5-Dec-12		
28	2.4	64.9	44	0.4419	8:40:22	5-Dec-12		
29	3.1	64.8	44	0.479	8:41:22	5-Dec-12		
30	10.5	64.8	44	1.6838	8:42:22	5-Dec-12		
31	7.1	64.7	44	1.5241	8:43:22	5-Dec-12		
32	2.4	64.7	44	0.5601	8:44:22	5-Dec-12		
33	12.7	64.7	44	1.8163	8:45:22	5-Dec-12		
34	6.8	64.6	44	1.7519	8:46:22	5-Dec-12		
35	2.7	64.6	44	0.6002	8:47:22	5-Dec-12		
36	4.9	64.5	44	1.3944	8:48:22	5-Dec-12		
37	17.6	64.5	44	3.2415	8:49:22	5-Dec-12		
38	7.7	64.5	44	1.462	8:50:22	5-Dec-12		
39	26.1	64.5	44	3.0083	8:51:22	5-Dec-12		
40	3.2	64.4	44	0.6254	8:52:22	5-Dec-12		
41	2.7	64.4	44	0.5643	8:53:22	5-Dec-12		
42	2.1	64.4	44	0.5034	8:54:22	5-Dec-12		
43	5.3	64.3	44	0.6564	8:55:22	5-Dec-12		
44	4.6	64.3	44	0.565	8:56:22	5-Dec-12		
45	3.3	64.3	44	0.51	8:57:22	5-Dec-12		
46	2.3	64.2	44	0.4527	8:58:22	5-Dec-12		
47	3	64.1	44	0.4979	8:59:22	5-Dec-12		
48	2.2	64.1	44	0.4332	9:00:22	5-Dec-12		
49	2	64	44	0.4198	9:01:22	5-Dec-12		
50	2.6	64	44	0.4523	9:02:22	5-Dec-12		
51	4.5	64	44	0.6696	9:03:22	5-Dec-12		
52	5.3	63.9	44	0.8835	9:04:22	5-Dec-12		
53	3.3	63.9	44	0.5982	9:05:22	5-Dec-12		
54	4.6	63.9	44	0.806	9:06:22	5-Dec-12		
55	5.4	63.8	44	1.0766	9:07:22	5-Dec-12		
56	2	63.8	44	0.4708	9:08:22	5-Dec-12		
57	5.4	63.8	44	0.8519	9:09:22	5-Dec-12		
58	2.6	63.8	43	0.5477	9:10:22	5-Dec-12		
59	3.5	63.7	43	0.8054	9:11:22	5-Dec-12		
60	2.6	63.7	43	0.5531	9:12:22	5-Dec-12		
61	4.9	63.6	43	0.7025	9:13:22	5-Dec-12		
62	9.9	63.6	43	0.7421	9:14:22	5-Dec-12		
63	2.5	63.6	43	0.4269	9:15:22	5-Dec-12		
64	2.1	63.6	43	0.4119	9:16:22	5-Dec-12		
65	1.9	63.5	43	0.4052	9:17:22	5-Dec-12		
66	5.1	63.5	43	0.6679	9:18:22	5-Dec-12		
67	2.8	63.4	43	0.5192	9:19:22	5-Dec-12		
68	4.3	63.4	43	0.702	9:20:22	5-Dec-12		
69	3.2	63.4	43	0.6305	9:21:22	5-Dec-12		
70	3.8	63.3	43	0.6582	9:22:22	5-Dec-12		
71	3.6	63.2	43	0.578	9:23:22	5-Dec-12		
72	3.1	63.1	43	0.5139	9:24:22	5-Dec-12		
73	4.7	63.1	43	0.7065	9:25:22	5-Dec-12		
74	6.2	63.1	43	0.7645	9:26:22	5-Dec-12		
75	3	63	43	0.5137	9:27:22	5-Dec-12		

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
76	3.4	63	43	0.5461	9:28:22	5-Dec-12	3.4	Drilling GTB-16
77	3.5	62.9	43	0.5641	9:29:22	5-Dec-12		
78	2.3	62.9	44	0.4696	9:30:22	5-Dec-12		
79	3.1	62.8	43	0.5667	9:31:22	5-Dec-12		
80	3.3	62.8	44	0.6332	9:32:22	5-Dec-12		
81	2.5	62.7	44	0.5269	9:33:22	5-Dec-12		
82	2.4	62.7	44	0.5137	9:34:22	5-Dec-12		
83	2.9	62.6	44	0.5705	9:35:22	5-Dec-12		
84	5.5	62.6	44	1.2705	9:36:22	5-Dec-12		
85	4.1	62.5	44	0.6716	9:37:22	5-Dec-12		
86	3.7	62.5	44	0.5477	9:38:22	5-Dec-12		
87	2.8	62.4	44	0.4815	9:39:22	5-Dec-12		
88	2.7	62.3	44	0.4738	9:40:22	5-Dec-12		
89	2.6	62.3	44	0.467	9:41:22	5-Dec-12		
90	5.9	62.2	44	0.5398	9:42:22	5-Dec-12		
91	5.3	62.2	44	0.5226	9:43:22	5-Dec-12		
92	2.9	62.1	44	0.4322	9:44:22	5-Dec-12		
93	3.1	62	44	0.4279	9:45:22	5-Dec-12		
94	3.1	62	44	0.4148	9:46:22	5-Dec-12		
95	2.6	62	44	0.3995	9:47:22	5-Dec-12		
96	2.7	61.9	43	0.4021	9:48:22	5-Dec-12		
97	2.5	61.9	44	0.3983	9:49:22	5-Dec-12		
98	2.4	61.8	44	0.3956	9:50:22	5-Dec-12		
99	3.4	61.8	44	0.4251	9:51:22	5-Dec-12		
100	3.2	61.7	44	0.4273	9:52:22	5-Dec-12		
101	5.2	61.7	43	0.5719	9:53:22	5-Dec-12		
102	4.6	61.7	43	0.6554	9:54:22	5-Dec-12		
103	4	61.6	43	0.7106	9:55:22	5-Dec-12		
104	4.9	61.5	43	0.6546	9:56:22	5-Dec-12		
105	4.6	61.5	43	0.5463	9:57:22	5-Dec-12		
106	5.7	61.4	43	0.6669	9:58:22	5-Dec-12		
107	5.8	61.3	43	0.7727	9:59:22	5-Dec-12		
108	7	61.3	43	0.9223	10:00:22	5-Dec-12		
109	4.2	61.2	43	0.647	10:01:22	5-Dec-12		
110	2.9	61.2	43	0.5498	10:02:22	5-Dec-12		
111	3.6	61.1	43	0.6238	10:03:22	5-Dec-12		
112	12.4	61.1	43	0.7483	10:04:22	5-Dec-12		
113	3.6	61	43	0.5024	10:05:22	5-Dec-12		
114	4.2	61	43	0.5682	10:06:22	5-Dec-12		
115	3.9	60.9	43	0.6931	10:07:22	5-Dec-12		
116	3.5	60.9	43	0.751	10:08:22	5-Dec-12		
117	3.6	60.8	43	0.9096	10:09:22	5-Dec-12		
118	3.3	60.8	43	0.7935	10:10:22	5-Dec-12		
119	4	60.7	43	0.7509	10:11:22	5-Dec-12		
120	6.7	60.7	43	0.7509	10:12:22	5-Dec-12		
121	9	60.6	43	0.9065	10:13:22	5-Dec-12		
122	3.5	60.6	43	0.5013	10:14:22	5-Dec-12		
123	5.5	60.5	43	0.6786	10:15:22	5-Dec-12		
124	3.4	60.5	43	0.5425	10:16:22	5-Dec-12		
125	5.4	60.4	43	0.6142	10:17:22	5-Dec-12		
126	5.6	60.4	43	0.5696	10:18:22	5-Dec-12		
127	5.9	60.4	43	0.698	10:19:22	5-Dec-12		
128	5.9	60.3	43	1.0147	10:20:22	5-Dec-12		
129	6.7	60.3	43	1.3707	10:21:22	5-Dec-12		
130	8.8	60.3	43	1.9578	10:22:22	5-Dec-12		
131	5.6	60.2	43	0.8389	10:23:22	5-Dec-12		
132	6.1	60.2	43	1.0961	10:24:22	5-Dec-12		
133	5.1	60.2	43	0.7551	10:25:22	5-Dec-12		
134	4.9	60.2	44	0.591	10:26:22	5-Dec-12		
135	4	60.1	43	0.5969	10:27:22	5-Dec-12		
136	8.6	60.1	43	0.7642	10:28:22	5-Dec-12		
137	7.1	60	43	0.6867	10:29:22	5-Dec-12		
138	6.1	60	43	0.765	10:30:22	5-Dec-12		
139	3.9	60	43	0.5831	10:31:22	5-Dec-12		
140	3.5	59.9	44	0.5515	10:32:22	5-Dec-12		
141	5.1	59.9	43	0.5368	10:33:22	5-Dec-12		
142	4.3	59.9	43	0.5582	10:34:22	5-Dec-12		
143	5.1	59.8	44	0.6248	10:35:22	5-Dec-12		
144	4.1	59.8	44	0.559	10:36:22	5-Dec-12		
145	7.3	59.8	44	1.1869	10:37:22	5-Dec-12		
146	5.6	59.7	44	0.8735	10:38:22	5-Dec-12		
147	4.1	59.7	44	0.5211	10:39:22	5-Dec-12		
148	7.7	59.7	44	0.8382	10:40:22	5-Dec-12		
149	4.8	59.6	44	0.7013	10:41:22	5-Dec-12		
150	4.3	59.6	44	0.5768	10:42:22	5-Dec-12		



Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
151	5.6	59.5	44	0.6332	10:43:22	5-Dec-12	5.7	Backfilling and grouting hole and restoring cover conditions
152	4.6	59.5	44	0.529	10:44:22	5-Dec-12		
153	4.6	59.5	44	0.55	10:45:22	5-Dec-12		
154	6.3	59.5	43	0.7422	10:46:22	5-Dec-12		
155	5.3	59.5	43	0.5463	10:47:22	5-Dec-12		
156	6.1	59.5	43	0.6324	10:48:22	5-Dec-12		
157	4.8	59.5	43	0.5507	10:49:22	5-Dec-12		
158	8.4	59.5	43	0.8085	10:50:22	5-Dec-12		
159	5.8	59.4	43	0.6475	10:51:22	5-Dec-12		
160	6.3	59.5	43	0.9378	10:52:22	5-Dec-12		
161	5.9	59.4	43	0.7812	10:53:22	5-Dec-12		
162	5.6	59.4	43	0.6741	10:54:22	5-Dec-12		
163	6.1	59.4	43	0.9058	10:55:22	5-Dec-12		
164	5.2	59.4	44	0.7079	10:56:22	5-Dec-12		
165	4.9	59.4	43	0.5523	10:57:22	5-Dec-12		
166	4.6	59.4	43	0.5387	10:58:22	5-Dec-12		
167	4.4	59.4	43	0.5296	10:59:22	5-Dec-12		
168	5	59.4	43	0.5124	11:00:22	5-Dec-12		
169	24.4	59.4	43	2.7161	11:01:22	5-Dec-12		
170	6.4	59.4	43	1.2162	11:02:22	5-Dec-12		
171	5	59.5	43	0.5504	11:03:22	5-Dec-12		
172	7.2	59.5	43	1.0574	11:04:22	5-Dec-12		
173	5	59.4	43	0.6673	11:05:22	5-Dec-12		
174	4.4	59.5	43	0.4805	11:06:22	5-Dec-12		
175	4.8	59.5	43	0.5384	11:07:22	5-Dec-12		
176	5.1	59.5	43	0.7016	11:08:22	5-Dec-12		
177	5.1	59.5	43	0.553	11:09:22	5-Dec-12		
178	4.3	59.5	43	0.4644	11:10:22	5-Dec-12		
179	4.4	59.6	43	0.4889	11:11:22	5-Dec-12		
180	4.2	59.6	43	0.5216	11:12:22	5-Dec-12		
181	4.2	59.7	43	0.4947	11:13:22	5-Dec-12		
182	4.4	59.7	43	0.5378	11:14:22	5-Dec-12		
183	5.9	59.7	43	0.515	11:15:22	5-Dec-12		
184	6.3	59.7	43	0.5885	11:16:22	5-Dec-12		
185	10.5	59.7	43	0.9705	11:17:22	5-Dec-12		
186	12.8	59.7	42	1.0285	11:18:22	5-Dec-12		
187	15.2	59.7	42	2.304	11:19:22	5-Dec-12		
188	12.5	59.7	42	1.9619	11:20:22	5-Dec-12		
189	13.9	59.7	43	1.703	11:21:22	5-Dec-12		
190	9.3	59.8	43	1.9184	11:22:22	5-Dec-12		
191	12.6	59.7	42	3.1033	11:23:22	5-Dec-12		
192	6.9	59.7	42	1.0772	11:24:22	5-Dec-12		
193	8.7	59.8	43	1.7061	11:25:22	5-Dec-12		
194	17.5	59.8	42	2.6122	11:26:22	5-Dec-12		
195	7.1	59.8	42	0.8503	11:27:22	5-Dec-12		
196	5.1	59.8	42	0.765	11:28:22	5-Dec-12		
197	5.1	59.9	42	0.6613	11:29:22	5-Dec-12		
198	7.4	59.8	42	0.5576	11:30:22	5-Dec-12		
199	6.8	59.9	42	1.0595	11:31:22	5-Dec-12		
200	7.7	59.9	42	0.9733	11:32:22	5-Dec-12		
201	5.6	59.9	42	0.5709	11:33:22	5-Dec-12		
202	5.5	60	43	0.65	11:34:22	5-Dec-12		
203	4.5	60	42	0.5468	11:35:22	5-Dec-12		
204	4.6	60.1	43	0.5822	11:36:22	5-Dec-12		
205	3.8	60.1	42	0.4822	11:37:22	5-Dec-12		
206	3.9	60.1	42	0.4816	11:38:22	5-Dec-12		
207	3.8	60.2	42	0.472	11:39:22	5-Dec-12		
208	3.9	60.2	42	0.4562	11:40:22	5-Dec-12		
209	3.8	60.2	42	0.4084	11:41:22	5-Dec-12		
210	3.9	60.3	42	0.4167	11:42:22	5-Dec-12		
211	3.7	60.3	42	0.4333	11:43:22	5-Dec-12		
212	3.8	60.4	42	0.4418	11:44:22	5-Dec-12		
213	4	60.3	42	0.4506	11:45:22	5-Dec-12		
214	3.8	60.4	42	0.4466	11:46:22	5-Dec-12		
215	4	60.4	42	0.4764	11:47:22	5-Dec-12		
216	3.9	60.4	42	0.485	11:48:22	5-Dec-12		
217	3.7	60.5	42	0.4906	11:49:22	5-Dec-12		
218	4.5	60.4	41	0.5316	11:50:22	5-Dec-12		
219	4.1	60.4	41	0.461	11:51:22	5-Dec-12		
220	3.7	60.5	41	0.4431	11:52:22	5-Dec-12		
221	4	60.5	41	0.45	11:53:22	5-Dec-12		
222	3.8	60.5	41	0.4507	11:54:22	5-Dec-12		
223	4.1	60.6	41	0.4632	11:55:22	5-Dec-12		
224	4	60.6	41	0.4563	11:56:22	5-Dec-12		
225	3.8	60.7	41	0.4545	11:57:22	5-Dec-12		

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
226	4.2	60.7	41	0.5378	11:58:22	5-Dec-12	3.8	
227	3.7	60.7	41	0.4679	11:59:22	5-Dec-12		
228	3.7	60.7	41	0.4685	12:00:22	5-Dec-12		
229	3.8	60.7	40	0.4069	12:01:22	5-Dec-12		
230	3.5	60.7	40	0.3684	12:02:22	5-Dec-12		
231	3.5	60.7	40	0.3732	12:03:22	5-Dec-12		
232	3.8	60.7	40	0.4007	12:04:22	5-Dec-12		
233	3.9	60.7	40	0.4501	12:05:22	5-Dec-12		
234	3.6	60.7	40	0.4484	12:06:22	5-Dec-12		
235	4.1	60.6	40	0.4852	12:07:22	5-Dec-12		
236	3.8	60.6	40	0.4846	12:08:22	5-Dec-12		
237	3.9	60.6	40	0.5106	12:09:22	5-Dec-12		
238	4	60.6	40	0.5502	12:10:22	5-Dec-12		
239	4.3	60.5	40	0.5401	12:11:22	5-Dec-12		
240	3.7	60.5	40	0.5084	12:12:22	5-Dec-12		
241	3.7	60.5	40	0.5082	12:13:22	5-Dec-12	Drillers offsite, lunch, no activity	
242	4.6	60.4	40	0.5953	12:14:22	5-Dec-12		
243	4	60.4	40	0.5165	12:15:22	5-Dec-12		
244	3.9	60.4	40	0.4891	12:16:22	5-Dec-12		
245	4.4	60.4	40	0.5209	12:17:22	5-Dec-12		
246	4.1	60.3	40	0.5049	12:18:22	5-Dec-12		
247	4.8	60.3	39	0.6405	12:19:22	5-Dec-12		
248	4.3	60.3	39	0.5759	12:20:22	5-Dec-12		
249	4.9	60.3	39	0.5059	12:21:22	5-Dec-12		
250	4.8	60.2	39	0.4774	12:22:22	5-Dec-12		
251	4.9	60.2	39	0.4963	12:23:22	5-Dec-12		
252	4.6	60.2	39	0.4719	12:24:22	5-Dec-12		
253	4	60.2	39	0.4081	12:25:22	5-Dec-12		
254	4.4	60.1	39	0.4452	12:26:22	5-Dec-12		
255	3.9	60.1	39	0.4223	12:27:22	5-Dec-12		
256	4.5	60.1	39	0.4752	12:28:22	5-Dec-12		
257	5	60.1	39	0.5224	12:29:22	5-Dec-12		
258	10.6	60.1	39	0.6337	12:30:22	5-Dec-12		
259	4.7	60.1	40	0.5415	12:31:22	5-Dec-12		
260	5.5	60.1	40	0.5804	12:32:22	5-Dec-12		
261	8.9	60.1	40	0.6669	12:33:22	5-Dec-12		
262	6.3	60.1	40	0.6124	12:34:22	5-Dec-12		
263	10	60.1	40	0.749	12:35:22	5-Dec-12		
264	4.7	60.2	40	0.5126	12:36:22	5-Dec-12		
265	4.4	60.2	39	0.463	12:37:22	5-Dec-12		
266	11.1	60.2	39	1.2024	12:38:22	5-Dec-12		
267	9.3	60.2	39	1.7423	12:39:22	5-Dec-12		
268	8.5	60.2	40	1.4355	12:40:22	5-Dec-12		
269	7.2	60.3	40	0.9166	12:41:22	5-Dec-12		
270	4.2	60.3	39	0.5928	12:42:22	5-Dec-12		
271	12.6	60.4	39	1.0027	12:43:22	5-Dec-12		
272	13.9	60.4	39	1.6088	12:44:22	5-Dec-12		
273	6.7	60.4	39	1.1392	12:45:22	5-Dec-12		
274	10.3	60.5	39	2.175	12:46:22	5-Dec-12		
275	12.6	60.6	39	2.6404	12:47:22	5-Dec-12		
276	7.3	60.6	39	1.1914	12:48:22	5-Dec-12		
277	10.2	60.7	39	1.0256	12:49:22	5-Dec-12		
278	12.4	60.7	39	0.8855	12:50:22	5-Dec-12		
279	4.6	60.8	39	0.5388	12:51:22	5-Dec-12		
280	7.1	60.9	39	0.6768	12:52:22	5-Dec-12		
281	6.7	60.9	39	0.5334	12:53:22	5-Dec-12		
282	7.6	60.9	39	0.6951	12:54:22	5-Dec-12		
283	7	61	39	0.8697	12:55:22	5-Dec-12		
284	5.7	61	39	0.8205	12:56:22	5-Dec-12		
285	6.5	61.1	39	0.6259	12:57:22	5-Dec-12		
286	6.3	61.1	39	0.7588	12:58:22	5-Dec-12		
287	7.4	61.2	39	0.661	12:59:22	5-Dec-12		
288	6	61.3	39	0.6613	13:00:22	5-Dec-12		
289	6.4	61.3	39	0.8138	13:01:22	5-Dec-12		
290	10.4	61.4	39	0.8511	13:02:22	5-Dec-12		
291	5.9	61.5	39	0.7057	13:03:22	5-Dec-12		
292	5.6	61.6	39	0.6796	13:04:22	5-Dec-12		
293	4.2	61.6	39	0.5214	13:05:22	5-Dec-12		
294	4.7	61.7	39	0.591	13:06:22	5-Dec-12		
295	7	61.8	39	0.9723	13:07:22	5-Dec-12		
296	6	61.8	39	0.8584	13:08:22	5-Dec-12		
297	6.1	61.9	39	0.6758	13:09:22	5-Dec-12		
298	7.1	62	39	0.9406	13:10:22	5-Dec-12		
299	6.4	62	39	0.5996	13:11:22	5-Dec-12		
300	8.3	62.1	39	0.5309	13:12:22	5-Dec-12		

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
301	4.3	62.2	39	0.4575	13:13:22	5-Dec-12	7.3	
302	5.7	62.2	39	0.5117	13:14:22	5-Dec-12		
303	4.7	62.3	39	0.6128	13:15:22	5-Dec-12		
304	4.4	62.4	39	0.573	13:16:22	5-Dec-12		
305	8.3	62.5	38	0.9463	13:17:22	5-Dec-12		
306	29.8	62.5	38	0.7865	13:18:22	5-Dec-12		
307	8.9	62.6	38	0.5826	13:19:22	5-Dec-12		
308	9.4	62.7	38	0.6062	13:20:22	5-Dec-12		
309	5.4	62.7	38	0.561	13:21:22	5-Dec-12		
310	4.4	62.8	38	0.4671	13:22:22	5-Dec-12		
311	4.4	62.9	38	0.4653	13:23:22	5-Dec-12		
312	3.6	62.9	38	0.4447	13:24:22	5-Dec-12		
313	3.8	62.9	38	0.4805	13:25:22	5-Dec-12		
314	8	63	38	0.5456	13:26:22	5-Dec-12		
315	4	63.1	38	0.4615	13:27:22	5-Dec-12		
316	9	63.1	38	0.5765	13:28:22	5-Dec-12		
317	14	63.1	38	0.6413	13:29:22	5-Dec-12		
318	4.2	63.3	37	0.422	13:30:22	5-Dec-12		
319	4.9	63.3	37	0.3991	13:31:22	5-Dec-12		
320	6.8	63.4	37	0.5103	13:32:22	5-Dec-12		
321	4.6	63.4	37	0.4333	13:33:22	5-Dec-12		
322	4.1	63.5	37	0.4444	13:34:22	5-Dec-12		
323	4.1	63.5	37	0.5887	13:35:22	5-Dec-12		
324	4.2	63.6	37	0.5957	13:36:22	5-Dec-12		
325	4	63.6	37	0.498	13:37:22	5-Dec-12		
326	4.2	63.7	37	0.5551	13:38:22	5-Dec-12		
327	4.9	63.7	37	0.6084	13:39:22	5-Dec-12		
328	9	63.8	37	0.816	13:40:22	5-Dec-12		
329	5	63.8	37	0.6247	13:41:22	5-Dec-12		
330	5	63.9	37	0.5475	13:42:22	5-Dec-12		
331	5	63.9	37	0.6128	13:43:22	5-Dec-12		
332	6.7	63.9	37	0.5335	13:44:22	5-Dec-12		
333	7.8	64	37	0.8242	13:45:22	5-Dec-12		
334	9.9	64	37	0.9517	13:46:22	5-Dec-12		
335	7.2	64	37	0.7759	13:47:22	5-Dec-12		
336	5.2	64	37	0.6144	13:48:22	5-Dec-12		
337	4.8	64.1	37	0.5395	13:49:22	5-Dec-12		
338	7.9	64.1	37	1.0192	13:50:22	5-Dec-12		
339	8.6	64.1	36	1.4991	13:51:22	5-Dec-12		
340	7	64.1	36	1.0437	13:52:22	5-Dec-12		
341	8.6	64.1	36	1.9318	13:53:22	5-Dec-12		
342	16.8	64.1	36	2.3015	13:54:22	5-Dec-12		
343	9.9	64.1	36	1.0093	13:55:22	5-Dec-12		
344	8.8	64.1	36	0.8951	13:56:22	5-Dec-12		
345	8.5	64.1	36	0.7882	13:57:22	5-Dec-12		
346	8.9	64	36	0.9134	13:58:22	5-Dec-12		
347	14.6	64	36	1.4418	13:59:22	5-Dec-12		
348	15.6	64	36	3.2016	14:00:22	5-Dec-12		
349	38.6	64.1	36	2.9367	14:01:22	5-Dec-12		
350	28.4	64.1	35	3.5853	14:02:22	5-Dec-12		
351	8.4	64	35	0.9576	14:03:22	5-Dec-12		
352	5.8	64	35	0.6516	14:04:22	5-Dec-12		
353	6.1	64	35	0.668	14:05:22	5-Dec-12		
354	4.6	64	35	0.5612	14:06:22	5-Dec-12		
355	8.3	64	35	0.6708	14:07:22	5-Dec-12		
356	7.4	64.1	35	0.7742	14:08:22	5-Dec-12		
357	5	64.1	35	0.577	14:09:22	5-Dec-12		
358	6.5	64	35	0.6594	14:10:22	5-Dec-12		
359	9.4	64	35	0.9499	14:11:22	5-Dec-12		
360	6.5	64	35	0.8471	14:12:22	5-Dec-12		
361	8	64	35	0.7026	14:13:22	5-Dec-12		
362	22.4	64	35	0.786	14:14:22	5-Dec-12		
363	11.9	64	35	0.6278	14:15:22	5-Dec-12		
364	11	64	35	0.6774	14:16:22	5-Dec-12		
365	7.1	64	35	0.6717	14:17:22	5-Dec-12		
366	6.5	64	35	0.575	14:18:22	5-Dec-12		
367	4.2	64	35	0.4466	14:19:22	5-Dec-12		
368	5.2	64	34	0.5388	14:20:22	5-Dec-12		
369	4.9	64	34	0.4563	14:21:22	5-Dec-12		
370	5	64	34	0.5606	14:22:22	5-Dec-12		
371	6.5	64	34	0.6473	14:23:22	5-Dec-12		
372	5.1	64	34	0.5047	14:24:22	5-Dec-12		
373	4	63.9	34	0.4755	14:25:22	5-Dec-12		
374	4.3	63.9	34	0.4948	14:26:22	5-Dec-12		
375	8.6	63.9	34	0.4433	14:27:22	5-Dec-12		

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
376	5	63.9	34	0.4503	14:28:22	5-Dec-12	7.5	Backfilling and grouting hole and restoring cover conditions
377	5.4	63.8	34	0.5964	14:29:22	5-Dec-12		
378	8	63.8	34	0.9989	14:30:22	5-Dec-12		
379	6.9	63.8	34	0.9291	14:31:22	5-Dec-12		
380	9.1	63.7	34	0.9053	14:32:22	5-Dec-12		
381	16.8	63.7	34	2.771	14:33:22	5-Dec-12		
382	5.8	63.7	34	0.7223	14:34:22	5-Dec-12		
383	7.6	63.7	34	0.8819	14:35:22	5-Dec-12		
384	8	63.6	34	0.7585	14:36:22	5-Dec-12		
385	4.8	63.6	34	0.6474	14:37:22	5-Dec-12		
386	6.7	63.6	34	0.6795	14:38:22	5-Dec-12		
387	7.6	63.6	34	1.0563	14:39:22	5-Dec-12		
388	5.7	63.6	34	0.6709	14:40:22	5-Dec-12		
389	6.6	63.5	34	0.7189	14:41:22	5-Dec-12		
390	8.9	63.5	34	0.6989	14:42:22	5-Dec-12		
391	4.6	63.5	34	0.502	14:43:22	5-Dec-12	10.4	
392	6.4	63.4	34	0.7021	14:44:22	5-Dec-12		
393	6.1	63.4	34	0.7814	14:45:22	5-Dec-12		
394	4.5	63.4	34	0.5405	14:46:22	5-Dec-12		
395	8.4	63.4	34	1.0145	14:47:22	5-Dec-12		
396	5.8	63.3	34	0.7203	14:48:22	5-Dec-12		
397	6.3	63.3	34	0.802	14:49:22	5-Dec-12		
398	6.1	63.3	35	0.6168	14:50:22	5-Dec-12		
399	6.8	63.3	35	1.1164	14:51:22	5-Dec-12		
400	5.9	63.2	35	0.947	14:52:22	5-Dec-12		
401	66.6	63.2	35	0.6899	14:53:22	5-Dec-12		
402	15.2	63.2	35	0.3754	14:54:22	5-Dec-12		
403	4	63.1	35	0.4167	14:55:22	5-Dec-12		
404	4.5	63.1	35	0.4748	14:56:22	5-Dec-12		
405	5	63.1	35	0.5159	14:57:22	5-Dec-12		
406	4.7	63	35	0.491	14:58:22	5-Dec-12	4.7	
407	4.2	63	35	0.5309	14:59:22	5-Dec-12		
408	4	62.9	35	0.5135	15:00:22	5-Dec-12		
409	7.4	62.9	35	0.6327	15:01:22	5-Dec-12		
410	3.9	62.9	35	0.4762	15:02:22	5-Dec-12		
411	4.1	62.8	35	0.5174	15:03:22	5-Dec-12		
412	3.9	62.7	35	0.4916	15:04:22	5-Dec-12		
413	4	62.7	35	0.4897	15:05:22	5-Dec-12		
414	4.4	62.6	35	0.483	15:06:22	5-Dec-12		
415	3.8	62.6	35	0.4381	15:07:22	5-Dec-12		
416	4	62.5	35	0.4495	15:08:22	5-Dec-12		
417	4.9	62.4	35	0.5309	15:09:22	5-Dec-12		
418	5.5	62.3	35	0.4924	15:10:22	5-Dec-12		
419	4.5	62.2	35	0.4316	15:11:22	5-Dec-12		
420	6.7	62.1	35	0.6054	15:12:22	5-Dec-12		
421	7.5	62.1	35	0.9045	15:13:22	5-Dec-12	4.9	
422	4.7	62	35	0.5217	15:14:22	5-Dec-12		
423	5.4	62	35	0.5339	15:15:22	5-Dec-12		
424	4.7	61.9	35	0.5833	15:16:22	5-Dec-12		
425	5.5	61.8	35	0.6536	15:17:22	5-Dec-12		
426	4	61.7	35	0.5077	15:18:22	5-Dec-12		
427	4.5	61.6	36	0.5774	15:19:22	5-Dec-12		
428	4.6	61.5	35	0.5541	15:20:22	5-Dec-12		
429	4.1	61.4	35	0.4865	15:21:22	5-Dec-12		
430	4.5	61.3	36	0.5146	15:22:22	5-Dec-12		
431	4.5	61.2	36	0.5357	15:23:22	5-Dec-12		
432	4.9	61.1	36	0.4651	15:24:22	5-Dec-12		
433	4.9	61	36	0.5623	15:25:22	5-Dec-12		
434	5	60.9	36	0.6476	15:26:22	5-Dec-12		
435	4.3	60.8	36	0.4779	15:27:22	5-Dec-12		
436	3.7	60.8	36	0.4281	15:28:22	5-Dec-12		
437	5	60.7	36	0.5984	15:29:22	5-Dec-12		
438	4.2	60.5	36	0.5079	15:30:22	5-Dec-12		
439	3.7	60.3	36	0.4611	15:31:22	5-Dec-12		
440	5.6	60.3	36	0.6231	15:32:22	5-Dec-12		
441	4.1	60.2	36	0.4423	15:33:22	5-Dec-12		
442	5	60.1	36	0.5117	15:34:22	5-Dec-12		
443	7.5	60	36	0.5687	15:35:22	5-Dec-12		
444	5.3	59.9	36	0.6077	15:36:22	5-Dec-12		
445	4.3	59.8	36	0.5218	15:37:22	5-Dec-12		
446	4.5	59.7	36	0.5458	15:38:22	5-Dec-12		
447	4.2	59.6	36	0.4818	15:39:22	5-Dec-12		
448	5.1	59.5	36	0.5068	15:40:22	5-Dec-12		
449	4.8	59.4	36	0.5154	15:41:22	5-Dec-12		
450	5.2	59.3	36	0.657	15:42:22	5-Dec-12		

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
451	4.6	59.2	37	0.5103	15:43:22	5-Dec-12	5.4	Drilling GTB-18
452	4.3	59.2	37	0.5022	15:44:22	5-Dec-12		
453	8.6	59.1	37	0.7531	15:45:22	5-Dec-12		
454	6.6	58.9	37	0.7372	15:46:22	5-Dec-12		
455	4.8	58.9	37	0.568	15:47:22	5-Dec-12		
456	4.6	58.7	37	0.6092	15:48:22	5-Dec-12		
457	4.3	58.6	37	0.5978	15:49:22	5-Dec-12		
458	7	58.5	37	0.7064	15:50:22	5-Dec-12		
459	4.8	58.4	37	0.5771	15:51:22	5-Dec-12		
460	5.4	58.4	37	0.556	15:52:22	5-Dec-12		
461	4.3	58.2	37	0.461	15:53:22	5-Dec-12		
462	5.3	58.1	37	0.5556	15:54:22	5-Dec-12		
463	5.9	58.1	37	0.5871	15:55:22	5-Dec-12		
464	4.5	57.9	37	0.5563	15:56:22	5-Dec-12		
465	5.3	57.8	38	0.577	15:57:22	5-Dec-12		
466	5.2	57.6	38	0.5431	15:58:22	5-Dec-12		
467	5.5	57.6	38	0.5061	15:59:22	5-Dec-12		
468	5.2	57.5	38	0.5528	16:00:22	5-Dec-12		
469	5.8	57.4	38	0.5842	16:01:22	5-Dec-12		
470	4.4	57.3	38	0.5221	16:02:22	5-Dec-12		
471	6.2	57.2	38	0.8129	16:03:22	5-Dec-12		
472	4.3	57.1	38	0.5852	16:04:22	5-Dec-12		
473	4.2	56.9	38	0.5156	16:05:22	5-Dec-12		
474	4.9	56.8	38	0.5207	16:06:22	5-Dec-12		

Instrument: MiniRAE 2000  
 User ID: 00000001  
 Data Points: 472  
 Last Calibration Time: 11/16/2012 16:38

Serial Number: 005343  
 Site ID: 00000133  
 Sample Period: 60 sec  
 Gas Name: Isobutylene

Measurement Type: Min (ppm) Avg (ppm) Max (ppm)  
 High Alarm Levels: 100 100 100  
 Low Alarm Levels: 50 50 50

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
1	12/5/2012 8:12	0		0		0			
2	12/5/2012 8:13	0		0		0			Setting up on GTB-16
3	12/5/2012 8:14	0		0		0			
4	12/5/2012 8:15	0		0		0			
5	12/5/2012 8:16	0		0		0			
6	12/5/2012 8:17	0		0		0			
7	12/5/2012 8:18	0		0		0			
8	12/5/2012 8:19	0		0		0		0.0	
9	12/5/2012 8:20	0		0		0			
10	12/5/2012 8:21	0		0		0			
11	12/5/2012 8:22	0		0		0			
12	12/5/2012 8:23	0		0		0			
13	12/5/2012 8:24	0		0		0			
14	12/5/2012 8:25	0		0		0			
15	12/5/2012 8:26	0		0		0			
16	12/5/2012 8:27	0		0		0			
17	12/5/2012 8:28	0		0		0			Digging down to demarcation layer with backhoe and backfilling hole around augers
18	12/5/2012 8:29	0		0		0			
19	12/5/2012 8:30	0		0		0			
20	12/5/2012 8:31	0		0		0			
21	12/5/2012 8:32	0		0		0			
22	12/5/2012 8:33	0		0		0			
23	12/5/2012 8:34	0		0		0		0.0	
24	12/5/2012 8:35	0		0		0			
25	12/5/2012 8:36	0		0		0			
26	12/5/2012 8:37	0		0		0			
27	12/5/2012 8:38	0		0		0			
28	12/5/2012 8:39	0		0		0			
29	12/5/2012 8:40	0		0		0			
30	12/5/2012 8:41	0		0		0			
31	12/5/2012 8:42	0		0		0			
32	12/5/2012 8:43	0		0		0			
33	12/5/2012 8:44	0		0		0			
34	12/5/2012 8:45	0		0		0			
35	12/5/2012 8:46	0		0		0			
36	12/5/2012 8:47	0		0		0			
37	12/5/2012 8:48	0		0		0			
38	12/5/2012 8:49	0		0		0		0.0	
39	12/5/2012 8:50	0		0		0			
40	12/5/2012 8:51	0		0		0			
41	12/5/2012 8:52	0		0		0			
42	12/5/2012 8:53	0		0		0			
43	12/5/2012 8:54	0		0		0			
44	12/5/2012 8:55	0		0		0			
45	12/5/2012 8:56	0		0		0			
46	12/5/2012 8:57	0		0		0			
47	12/5/2012 8:58	0		0		0			
48	12/5/2012 8:59	0		0		0			
49	12/5/2012 9:00	0		0		0			
50	12/5/2012 9:01	0		0		0			
51	12/5/2012 9:02	0		0		0			
52	12/5/2012 9:03	0		0		0			
53	12/5/2012 9:04	0		0		0		0.0	
54	12/5/2012 9:05	0		0		0			
55	12/5/2012 9:06	0		0		0			
56	12/5/2012 9:07	0		0		0			Drilling GTB-16
57	12/5/2012 9:08	0		0		0			
58	12/5/2012 9:09	0		0		0			
59	12/5/2012 9:10	0		0		0			
60	12/5/2012 9:11	0		0		0			
61	12/5/2012 9:12	0		0		0			
62	12/5/2012 9:13	0		0		0			
63	12/5/2012 9:14	0		0		0			
64	12/5/2012 9:15	0		0		0			
65	12/5/2012 9:16	0		0		0			
66	12/5/2012 9:17	0		0		0			
67	12/5/2012 9:18	0		0		0			
68	12/5/2012 9:19	0		0		0		0.0	
69	12/5/2012 9:20	0		0		0			
70	12/5/2012 9:21	0		0		0			
71	12/5/2012 9:22	0		0		0			
72	12/5/2012 9:23	0		0		0			
73	12/5/2012 9:24	0		0		0			
74	12/5/2012 9:25	0		0		0			
75	12/5/2012 9:26	0		0		0			

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
76	12/5/2012 9:27	0		0		0			
77	12/5/2012 9:28	0		0		0			
78	12/5/2012 9:29	0		0		0			
79	12/5/2012 9:30	0		0		0			
80	12/5/2012 9:31	0		0		0			
81	12/5/2012 9:32	0		0		0			
82	12/5/2012 9:33	0		0		0			
83	12/5/2012 9:34	0		0		0		0.0	
84	12/5/2012 9:35	0		0		0			
85	12/5/2012 9:36	0		0		0			
86	12/5/2012 9:37	0		0		0			
87	12/5/2012 9:38	0		0		0			
88	12/5/2012 9:39	0		0		0			
89	12/5/2012 9:40	0		0		0			
90	12/5/2012 9:41	0		0		0			
91	12/5/2012 9:42	0		0		0			
92	12/5/2012 9:43	0		0		0			
93	12/5/2012 9:44	0		0		0			
94	12/5/2012 9:45	0		0		0			
95	12/5/2012 9:46	0		0		0			
96	12/5/2012 9:47	0		0		0			
97	12/5/2012 9:48	0		0		0			
98	12/5/2012 9:49	0		0		0		0.0	
99	12/5/2012 9:50	0		0		0			
100	12/5/2012 9:51	0		0		0			
101	12/5/2012 9:52	0		0		0			
102	12/5/2012 9:53	0		0		0			
103	12/5/2012 9:54	0		0		0			
104	12/5/2012 9:55	0		0		0			
105	12/5/2012 9:56	0		0		0			
106	12/5/2012 9:57	0		0		0			
107	12/5/2012 9:58	0		0		0			
108	12/5/2012 9:59	0		0		0			
109	12/5/2012 10:00	0		0		0			
110	12/5/2012 10:01	0		0		0			
111	12/5/2012 10:02	0		0		0			
112	12/5/2012 10:03	0		0		0			
113	12/5/2012 10:04	0		0		0		0.0	Drilling
114	12/5/2012 10:05	0		0		0			GTB-16
115	12/5/2012 10:06	0		0		0			
116	12/5/2012 10:07	0		0		0			
117	12/5/2012 10:08	0		0		0			
118	12/5/2012 10:09	0		0		0			
119	12/5/2012 10:10	0		0		0			
120	12/5/2012 10:11	0		0		0			
121	12/5/2012 10:12	0		0		0			
122	12/5/2012 10:13	0		0		0			
123	12/5/2012 10:14	0		0		0			
124	12/5/2012 10:15	0		0		0			
125	12/5/2012 10:16	0		0		0			
126	12/5/2012 10:17	0		0		0			
127	12/5/2012 10:18	0		0		0			
128	12/5/2012 10:19	0		0		0		0.0	
129	12/5/2012 10:20	0		0		0			
130	12/5/2012 10:21	0		0		0			
131	12/5/2012 10:22	0		0		0			
132	12/5/2012 10:23	0		0		0			
133	12/5/2012 10:24	0		0		0			
134	12/5/2012 10:25	0		0		0			
135	12/5/2012 10:26	0		0		0			
136	12/5/2012 10:27	0		0		0			
137	12/5/2012 10:28	0		0		0			
138	12/5/2012 10:29	0		0		0			
139	12/5/2012 10:30	0		0		0			
140	12/5/2012 10:31	0		0		0			
141	12/5/2012 10:32	0		0		0			
142	12/5/2012 10:33	0		0		0			
143	12/5/2012 10:34	0		0		0		0.0	
144	12/5/2012 10:35	0		0		0			
145	12/5/2012 10:36	0		0		0			
146	12/5/2012 10:37	0		0		0			
147	12/5/2012 10:38	0		0		0			
148	12/5/2012 10:39	0		0		0			
149	12/5/2012 10:40	0		0		0			
150	12/5/2012 10:41	0		0		0			

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
151	12/5/2012 10:42	0		0		0			
152	12/5/2012 10:43	0		0		0			
153	12/5/2012 10:44	0		0		0			
154	12/5/2012 10:45	0		0		0			
155	12/5/2012 10:46	0		0		0			
156	12/5/2012 10:47	0		0		0			
157	12/5/2012 10:48	0		0		0			
158	12/5/2012 10:49	0		0		0		0.0	
159	12/5/2012 10:50	0		0		0			
160	12/5/2012 10:51	0		0		0			
161	12/5/2012 10:52	0		0		0			
162	12/5/2012 10:53	0		0		0			
163	12/5/2012 10:54	0		0		0			
164	12/5/2012 10:55	0		0		0			
165	12/5/2012 10:56	0		0		0			Backfilling hole and grouting, cover
166	12/5/2012 10:57	0		0		0			conditions
167	12/5/2012 10:58	0		0		0			restored
168	12/5/2012 10:59	0		0		0			
169	12/5/2012 11:00	0		0		0			
170	12/5/2012 11:01	0		0		0			
171	12/5/2012 11:02	0		0		0			
172	12/5/2012 11:03	0		0		0			
173	12/5/2012 11:04	0		0		0		0.0	
174	12/5/2012 11:05	0		0		0			
175	12/5/2012 11:06	0		0		0			
176	12/5/2012 11:07	0		0		0			
177	12/5/2012 11:08	0		0		0			
178	12/5/2012 11:09	0		0		0			
179	12/5/2012 11:10	0		0		0			
180	12/5/2012 11:11	0		0		0			
181	12/5/2012 11:12	0		0		0			Moving air
182	12/5/2012 11:13	0		0		0			monitors and
183	12/5/2012 11:14	0		0		0			rig to GTB-17
184	12/5/2012 11:15	0		0		0			
185	12/5/2012 11:16	0		0		0			
186	12/5/2012 11:17	0		0		0			
187	12/5/2012 11:18	0		0		0			
188	12/5/2012 11:19	0		0		0		0.0	
189	12/5/2012 11:20	0		0		0			
190	12/5/2012 11:21	0		0		0			Digging down
191	12/5/2012 11:22	0		0		0			to demarcation
192	12/5/2012 11:23	0		0		0			layer with
193	12/5/2012 11:24	0		0		0			backhoe
194	12/5/2012 11:25	0		0		0			
195	12/5/2012 11:26	0		0		0			
196	12/5/2012 11:27	0		0		0			
197	12/5/2012 11:28	0		0		0			
198	12/5/2012 11:29	0		0		0			
199	12/5/2012 11:30	0		0		0			
200	12/5/2012 11:31	0		0		0			
201	12/5/2012 11:32	0		0		0			
202	12/5/2012 11:33	0		0		0			
203	12/5/2012 11:34	0		0		0		0.0	
204	12/5/2012 11:35	0		0		0			
205	12/5/2012 11:36	0		0		0			
206	12/5/2012 11:37	0		0		0			
207	12/5/2012 11:38	0		0		0			
208	12/5/2012 11:39	0		0		0			
209	12/5/2012 11:40	0		0		0			
210	12/5/2012 11:41	0		0		0			
211	12/5/2012 11:42	0		0		0			
212	12/5/2012 11:43	0		0		0			Lunch, no
213	12/5/2012 11:44	0		0		0			activity
214	12/5/2012 11:45	0		0		0			
215	12/5/2012 11:46	0		0		0			
216	12/5/2012 11:47	0		0		0			
217	12/5/2012 11:48	0		0		0			
218	12/5/2012 11:49	0		0		0		0.0	
219	12/5/2012 11:50	0		0		0			
220	12/5/2012 11:51	0		0		0			
221	12/5/2012 11:52	0		0		0			
222	12/5/2012 11:53	0		0		0			
223	12/5/2012 11:54	0		0		0			
224	12/5/2012 11:55	0		0		0			
225	12/5/2012 11:56	0		0		0			



Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
226	12/5/2012 11:57	0		0		0			
227	12/5/2012 11:58	0		0		0			
228	12/5/2012 11:59	0		0		0			
229	12/5/2012 12:00	0		0		0			
230	12/5/2012 12:01	0		0		0			
231	12/5/2012 12:02	0		0		0			
232	12/5/2012 12:03	0		0		0			
233	12/5/2012 12:04	0		0		0		0.0	
234	12/5/2012 12:05	0		0		0			
235	12/5/2012 12:06	0		0		0			
236	12/5/2012 12:07	0		0		0			
237	12/5/2012 12:08	0		0		0			
238	12/5/2012 12:09	0		0		0			
239	12/5/2012 12:10	0		0		0			
240	12/5/2012 12:11	0		0		0			
241	12/5/2012 12:12	0		0		0			
242	12/5/2012 12:13	0		0		0			Lunch, no activity
243	12/5/2012 12:14	0		0		0			
244	12/5/2012 12:15	0		0		0			
245	12/5/2012 12:16	0		0		0			
246	12/5/2012 12:17	0		0		0			
247	12/5/2012 12:18	0		0		0			
248	12/5/2012 12:19	0		0		0		0.0	
249	12/5/2012 12:20	0		0		0			
250	12/5/2012 12:21	0		0		0			
251	12/5/2012 12:22	0		0		0			
252	12/5/2012 12:23	0		0		0			
253	12/5/2012 12:24	0		0		0			
254	12/5/2012 12:25	0		0		0			
255	12/5/2012 12:26	0		0		0			
256	12/5/2012 12:27	0		0		0			
257	12/5/2012 12:28	0		0		0			
258	12/5/2012 12:29	0		0		0			
259	12/5/2012 12:30	0		0		0			
260	12/5/2012 12:31	0		0		0			
261	12/5/2012 12:32	0		0		0			
262	12/5/2012 12:33	0		0		0			
263	12/5/2012 12:34	0		0		0		0.0	
264	12/5/2012 12:35	0		0		0			
265	12/5/2012 12:36	0		0		0			
266	12/5/2012 12:37	0		0		0			Backfilling hole around augers
267	12/5/2012 12:38	0		0		0			
268	12/5/2012 12:39	0		0		0			
269	12/5/2012 12:40	0		0		0			
270	12/5/2012 12:41	0		0		0			
271	12/5/2012 12:42	0		0		0			
272	12/5/2012 12:43	0		0		0			
273	12/5/2012 12:44	0		0		0			
274	12/5/2012 12:45	0		0		0			
275	12/5/2012 12:46	0		0		0			
276	12/5/2012 12:47	0		0		0			
277	12/5/2012 12:48	0		0		0			
278	12/5/2012 12:49	0		0		0		0.0	
279	12/5/2012 12:50	0		0		0			
280	12/5/2012 12:51	0		0		0			
281	12/5/2012 12:52	0		0		0			
282	12/5/2012 12:53	0		0		0			
283	12/5/2012 12:54	0		0		0			
284	12/5/2012 12:55	0		0		0			
285	12/5/2012 12:56	0		0		0			
286	12/5/2012 12:57	0		0		0			
287	12/5/2012 12:58	0		0		0			
288	12/5/2012 12:59	0		0		0			Drilling GTB-17
289	12/5/2012 13:00	0		0		0			
290	12/5/2012 13:01	0		0		0			
291	12/5/2012 13:02	0		0		0			
292	12/5/2012 13:03	0		0		0			
293	12/5/2012 13:04	0		0		0		0.0	
294	12/5/2012 13:05	0		0		0			
295	12/5/2012 13:06	0		0		0			
296	12/5/2012 13:07	0		0		0			
297	12/5/2012 13:08	0		0		0			
298	12/5/2012 13:09	0		0		0			
299	12/5/2012 13:10	0		0		0			
300	12/5/2012 13:11	0		0		0			

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
301	12/5/2012 13:12	0		0		0			
302	12/5/2012 13:13	0		0		0			
303	12/5/2012 13:14	0		0		0			
304	12/5/2012 13:15	0		0		0			
305	12/5/2012 13:16	0		0		0			
306	12/5/2012 13:17	0		0		0			
307	12/5/2012 13:18	0		0		0			
308	12/5/2012 13:19	0		0		0		0.0	
309	12/5/2012 13:20	0		0		0			
310	12/5/2012 13:21	0		0		0			
311	12/5/2012 13:22	0		0		0			
312	12/5/2012 13:23	0		0		0			
313	12/5/2012 13:24	0		0		0			
314	12/5/2012 13:25	0		0		0			
315	12/5/2012 13:26	0		0		0			
316	12/5/2012 13:27	0		0		0			
317	12/5/2012 13:28	0		0		0			
318	12/5/2012 13:29	0		0		0			
319	12/5/2012 13:30	0		0		0			
320	12/5/2012 13:31	0		0		0			
321	12/5/2012 13:32	0		0		0			
322	12/5/2012 13:33	0		0		0			
323	12/5/2012 13:34	0		0		0		0.0	
324	12/5/2012 13:35	0		0		0			
325	12/5/2012 13:36	0		0		0			
326	12/5/2012 13:37	0		0		0			
327	12/5/2012 13:38	0		0		0			
328	12/5/2012 13:39	0		0		0			
329	12/5/2012 13:40	0		0		0			
330	12/5/2012 13:41	0		0		0			
331	12/5/2012 13:42	0		0		0			
332	12/5/2012 13:43	0		0		0			
333	12/5/2012 13:44	0		0		0			
334	12/5/2012 13:45	0		0		0			
335	12/5/2012 13:46	0		0		0			
336	12/5/2012 13:47	0		0		0			
337	12/5/2012 13:48	0		0		0			
338	12/5/2012 13:49	0		0		0		0.0	Drilling GTB-17
339	12/5/2012 13:50	0		0		0			
340	12/5/2012 13:51	0		0		0			
341	12/5/2012 13:52	0		0		0			
342	12/5/2012 13:53	0		0		0			
343	12/5/2012 13:54	0		0		0			
344	12/5/2012 13:55	0		0		0			
345	12/5/2012 13:56	0		0		0			
346	12/5/2012 13:57	0		0		0			
347	12/5/2012 13:58	0		0		0			
348	12/5/2012 13:59	0		0		0			
349	12/5/2012 14:00	0		0		0			
350	12/5/2012 14:01	0		0		0			
351	12/5/2012 14:02	0		0		0			
352	12/5/2012 14:03	0		0		0			
353	12/5/2012 14:04	0		0		0		0.0	
354	12/5/2012 14:05	0		0		0			
355	12/5/2012 14:06	0		0		0			
356	12/5/2012 14:07	0		0		0			
357	12/5/2012 14:08	0		0		0			
358	12/5/2012 14:09	0		0		0			
359	12/5/2012 14:10	0		0		0			
360	12/5/2012 14:11	0		0		0			
361	12/5/2012 14:12	0		0		0			
362	12/5/2012 14:13	0		0		0			
363	12/5/2012 14:14	0		0		0			
364	12/5/2012 14:15	0		0		0			
365	12/5/2012 14:16	0		0		0			
366	12/5/2012 14:17	0		0		0			
367	12/5/2012 14:18	0		0		0			
368	12/5/2012 14:19	0		0		0		0.0	
369	12/5/2012 14:20	0		0		0			
370	12/5/2012 14:21	0		0		0			
371	12/5/2012 14:22	0		0		0			
372	12/5/2012 14:23	0		0		0			
373	12/5/2012 14:24	0		0		0			
374	12/5/2012 14:25	0		0		0			
375	12/5/2012 14:26	0		0		0			

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
376	12/5/2012 14:27	0		0		0			
377	12/5/2012 14:28	0		0		0			
378	12/5/2012 14:29	0		0		0			
379	12/5/2012 14:30	0		0		0			
380	12/5/2012 14:31	0		0		0			
381	12/5/2012 14:32	0		0		0			
382	12/5/2012 14:33	0		0		0			
383	12/5/2012 14:34	0		0		0		0.0	
384	12/5/2012 14:35	0		0		0			
385	12/5/2012 14:36	0		0		0			
386	12/5/2012 14:37	0		0		0			
387	12/5/2012 14:38	0		0		0			
388	12/5/2012 14:39	0		0		0			
389	12/5/2012 14:40	0		0		0			
390	12/5/2012 14:41	0		0		0			
391	12/5/2012 14:42	0		0		0			
392	12/5/2012 14:43	0		0		0			
393	12/5/2012 14:44	0		0		0			
394	12/5/2012 14:45	0		0		0			
395	12/5/2012 14:46	0		0		0			
396	12/5/2012 14:47	0		0		0			
397	12/5/2012 14:48	0		0		0			
398	12/5/2012 14:49	0		0		0		0.0	
399	12/5/2012 14:50	0		0		0			
400	12/5/2012 14:51	0		0		0			
401	12/5/2012 14:52	0		0		0			
402	12/5/2012 14:53	0		0		0			
403	12/5/2012 14:54	0		0		0			
404	12/5/2012 14:55	0		0		0			
405	12/5/2012 14:56	0		0		0			
406	12/5/2012 14:57	0		0		0			
407	12/5/2012 14:58	0		0		0			
408	12/5/2012 14:59	0		0		0			
409	12/5/2012 15:00	0		0		0			
410	12/5/2012 15:01	0		0		0			
411	12/5/2012 15:02	0		0		0			
412	12/5/2012 15:03	0		0		0			
413	12/5/2012 15:04	0		0		0		0.0	
414	12/5/2012 15:05	0		0		0			
415	12/5/2012 15:06	0		0		0			
416	12/5/2012 15:07	0		0		0			
417	12/5/2012 15:08	0		0		0			
418	12/5/2012 15:09	0		0		0			
419	12/5/2012 15:10	0		0		0			
420	12/5/2012 15:11	0		0		0			
421	12/5/2012 15:12	0		0		0			
422	12/5/2012 15:13	0		0		0			
423	12/5/2012 15:14	0		0		0			
424	12/5/2012 15:15	0		0		0			
425	12/5/2012 15:16	0		0		0			
426	12/5/2012 15:17	0		0		0			
427	12/5/2012 15:18	0		0		0			
428	12/5/2012 15:19	0		0		0		0.0	
429	12/5/2012 15:20	0		0		0			
430	12/5/2012 15:21	0		0		0			
431	12/5/2012 15:22	0		0		0			
432	12/5/2012 15:23	0		0		0			
433	12/5/2012 15:24	0		0		0			
434	12/5/2012 15:25	0		0		0			
435	12/5/2012 15:26	0		0		0			
436	12/5/2012 15:27	0		0		0			
437	12/5/2012 15:28	0		0		0			
438	12/5/2012 15:29	0		0		0			
439	12/5/2012 15:30	0		0		0			
440	12/5/2012 15:31	0		0		0			
441	12/5/2012 15:32	0		0		0			
442	12/5/2012 15:33	0		0		0			
443	12/5/2012 15:34	0		0		0		0.0	
444	12/5/2012 15:35	0		0		0			
445	12/5/2012 15:36	0		0		0			
446	12/5/2012 15:37	0		0		0			
447	12/5/2012 15:38	0		0		0			
448	12/5/2012 15:39	0		0		0			
449	12/5/2012 15:40	0		0		0			
450	12/5/2012 15:41	0		0		0			

Backfilling hole and grouting, cover conditions restored

Moving air monitors and rig to GTB-18

Digging down to demarcation layer with backhoe and backfilling hole around augers

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
451	12/5/2012 15:42	0		0		0			
452	12/5/2012 15:43	0		0		0			
453	12/5/2012 15:44	0		0		0			
454	12/5/2012 15:45	0		0		0			
455	12/5/2012 15:46	0		0		0			
456	12/5/2012 15:47	0		0		0			
457	12/5/2012 15:48	0		0		0			
458	12/5/2012 15:49	0		0		0		0.0	
459	12/5/2012 15:50	0		0		0			
460	12/5/2012 15:51	0		0		0			
461	12/5/2012 15:52	0		0		0			Drilling
462	12/5/2012 15:53	0		0		0			GTB-18
463	12/5/2012 15:54	0		0		0			
464	12/5/2012 15:55	0		0		0			
465	12/5/2012 15:56	0		0		0			
466	12/5/2012 15:57	0		0		0			
467	12/5/2012 15:58	0		0		0			
468	12/5/2012 15:59	0		0		0			
469	12/5/2012 16:00	0		0		0		0.0	
470	12/5/2012 16:01	0		0		0			
471	12/5/2012 16:02	0		0		0			Shut down air
472	12/5/2012 16:03	0		0		0			monitors

Model Number DataRAM 4  
 Serial No. D147!  
 Device No. 1  
 Tag Number 8  
 Start Time 7:27:30  
 Start Date 6-Dec-12  
 Log Period 0:01:00  
 Number 452  
 Cal. Factor 1  
 Unit 0  
 Unit Name (MASS) ug/m3  
 Size Correct DISABLED  
 Temp. Units F  
 Max Mass 82.68816  
 Max Mass @ 260 - 12:22:57  
 Avg Mass 8.278019  
 Max Diam 4.127007  
 Max Diam @ 276 - 12:38:57  
 Avg Diam 1.603719  
 Alarm ENABLED  
 Alarm Level 100  
 Auto Zero DISABLED  
 AZ Interval 1  
 Errors 0

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
1	3.3	67.8	37	0.3135	7:28:30	6-Dec-12	3.7	Setup air monitors
2	4.8	67.4	35	0.3504	7:29:30	6-Dec-12		
3	2.4	67.1	33	0.3688	7:30:30	6-Dec-12		
4	3.5	66.7	32	0.4352	7:31:30	6-Dec-12		
5	2.2	66.3	31	0.4062	7:32:30	6-Dec-12		
6	3.9	65.9	30	0.4819	7:33:30	6-Dec-12		
7	3	65.6	29	0.4939	7:34:30	6-Dec-12		
8	2.6	65.3	29	0.4709	7:35:30	6-Dec-12		
9	2.7	65	28	0.4785	7:36:30	6-Dec-12		
10	2.5	64.6	28	0.4664	7:37:30	6-Dec-12		
11	2.5	64.3	27	0.4636	7:38:30	6-Dec-12		
12	2.6	63.9	27	0.4671	7:39:30	6-Dec-12		
13	3	63.6	27	0.4967	7:40:30	6-Dec-12		
14	3	63.3	26	0.5255	7:41:30	6-Dec-12		
15	13.1	62.9	26	1.2537	7:42:30	6-Dec-12		
16	6.2	62.7	26	1.0076	7:43:30	6-Dec-12		
17	7.5	62.4	26	1.815	7:44:30	6-Dec-12		
18	11.4	62.1	26	1.4369	7:45:30	6-Dec-12		
19	4.6	61.8	25	0.583	7:46:30	6-Dec-12		
20	4.9	61.6	25	0.5646	7:47:30	6-Dec-12		
21	3.5	61.2	25	0.5661	7:48:30	6-Dec-12		
22	8.1	61	25	1.0521	7:49:30	6-Dec-12		
23	11.8	60.8	25	2.1072	7:50:30	6-Dec-12		
24	7.1	60.4	25	2.4869	7:51:30	6-Dec-12		
25	4.7	60.2	25	0.7789	7:52:30	6-Dec-12		
26	3.4	60	25	0.6697	7:53:30	6-Dec-12		
27	5.1	59.7	25	1.4639	7:54:30	6-Dec-12		
28	6.9	59.4	25	1.6247	7:55:30	6-Dec-12		
29	3.5	59.2	25	0.7501	7:56:30	6-Dec-12		
30	5.1	58.9	25	1.1886	7:57:30	6-Dec-12		
31	6	58.6	25	1.2643	7:58:30	6-Dec-12		
32	8.1	58.4	25	1.7125	7:59:30	6-Dec-12		
33	7.3	58.1	25	1.8086	8:00:30	6-Dec-12		
34	7.6	57.9	25	2.705	8:01:30	6-Dec-12		
35	5.9	57.6	25	1.728	8:02:30	6-Dec-12		
36	4.9	57.5	25	0.9674	8:03:30	6-Dec-12		
37	6.2	57.2	25	1.8817	8:04:30	6-Dec-12		
38	3.8	57	25	0.6862	8:05:30	6-Dec-12		
39	4.3	56.7	25	0.6794	8:06:30	6-Dec-12		
40	10.6	56.5	25	1.2566	8:07:30	6-Dec-12		
41	13.3	56.3	25	1.3	8:08:30	6-Dec-12		
42	3.1	56.1	25	0.584	8:09:30	6-Dec-12		
43	2.8	55.8	25	0.5519	8:10:30	6-Dec-12		
44	3.4	55.6	25	0.6107	8:11:30	6-Dec-12		
45	3.4	55.4	25	0.6553	8:12:30	6-Dec-12		
46	5.7	55.2	25	0.8573	8:13:30	6-Dec-12		
47	4.4	55	25	0.7433	8:14:30	6-Dec-12		
48	3.7	54.8	25	0.5947	8:15:30	6-Dec-12		
49	3.2	54.6	25	0.6611	8:16:30	6-Dec-12		
50	3.5	54.5	25	0.7606	8:17:30	6-Dec-12		
51	5.1	54.2	25	1.3517	8:18:30	6-Dec-12		
52	6.3	54	25	1.8893	8:19:30	6-Dec-12		
53	4.9	53.8	26	1.1408	8:20:30	6-Dec-12		
54	4.2	53.7	26	0.7564	8:21:30	6-Dec-12		
55	4.6	53.5	26	1.0714	8:22:30	6-Dec-12		
56	9.6	53.2	26	3.6475	8:23:30	6-Dec-12		
57	3.6	53.1	26	1.1533	8:24:30	6-Dec-12		
58	4.8	52.9	26	1.45	8:25:30	6-Dec-12		
59	10.5	52.8	26	3.2655	8:26:30	6-Dec-12		
60	3	52.6	26	0.6819	8:27:30	6-Dec-12		
61	3.8	52.4	26	0.771	8:28:30	6-Dec-12		
62	6	52.2	26	1.3792	8:29:30	6-Dec-12		
63	4.6	52.1	26	1.052	8:30:30	6-Dec-12		
64	7.8	51.9	26	2.2597	8:31:30	6-Dec-12		
65	5.7	51.7	26	1.5632	8:32:30	6-Dec-12		
66	5.2	51.5	26	1.4639	8:33:30	6-Dec-12		
67	3.6	51.3	26	0.6048	8:34:30	6-Dec-12		
68	4.1	51.1	27	0.7052	8:35:30	6-Dec-12		
69	4.6	51	26	1.0319	8:36:30	6-Dec-12		
70	4.8	50.8	26	1.3136	8:37:30	6-Dec-12		
71	5	50.6	26	1.2502	8:38:30	6-Dec-12		
72	4.3	50.4	26	0.9915	8:39:30	6-Dec-12		
73	4.9	50.3	27	1.736	8:40:30	6-Dec-12		
74	3.4	50.1	27	0.9224	8:41:30	6-Dec-12		
75	5.2	50	27	1.4416	8:42:30	6-Dec-12		

Drilling  
 GTB-18  
 Backfilling and  
 grouting hole  
 and restoring  
 cover  
 conditions

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
76	3.9	49.8	27	0.8773	8:43:30	6-Dec-12	6.3	Backfilling and grouting hole and restoring cover conditions
77	5.6	49.6	27	1.403	8:44:30	6-Dec-12		
78	16.9	49.4	27	3.8079	8:45:30	6-Dec-12		
79	10	49.2	27	2.8462	8:46:30	6-Dec-12		
80	8.5	49.1	27	2.5672	8:47:30	6-Dec-12		
81	4.1	48.9	27	0.8893	8:48:30	6-Dec-12		
82	4.7	48.6	27	1.1285	8:49:30	6-Dec-12		
83	4.2	48.5	27	0.6568	8:50:30	6-Dec-12		
84	5.2	48.3	27	1.431	8:51:30	6-Dec-12		
85	3.9	48.1	27	0.8959	8:52:30	6-Dec-12		
86	4.7	47.9	28	1.3676	8:53:30	6-Dec-12		
87	5.1	47.7	28	1.7729	8:54:30	6-Dec-12		
88	5.5	47.6	28	2.0125	8:55:30	6-Dec-12		
89	4.7	47.4	28	1.0266	8:56:30	6-Dec-12		
90	7.1	47.2	28	2.5627	8:57:30	6-Dec-12		
91	4.5	47	28	1.5181	8:58:30	6-Dec-12		
92	4.5	46.9	28	1.01	8:59:30	6-Dec-12		
93	4.5	46.7	28	1.0858	9:00:30	6-Dec-12		
94	4.8	46.6	28	0.8965	9:01:30	6-Dec-12		
95	4.3	46.5	28	0.9554	9:02:30	6-Dec-12		
96	4	46.4	28	0.7482	9:03:30	6-Dec-12		
97	3.9	46.2	28	0.8306	9:04:30	6-Dec-12		
98	4	46.1	29	0.8489	9:05:30	6-Dec-12		
99	3.7	46	29	0.7886	9:06:30	6-Dec-12		
100	4	45.9	29	0.8816	9:07:30	6-Dec-12		
101	4.2	45.7	29	0.9162	9:08:30	6-Dec-12		
102	3.8	45.7	29	0.7977	9:09:30	6-Dec-12		
103	4.4	45.6	29	0.8398	9:10:30	6-Dec-12		
104	4.1	45.5	29	0.7461	9:11:30	6-Dec-12		
105	3.9	45.4	29	0.7128	9:12:30	6-Dec-12		
106	4.6	45.2	29	1.0917	9:13:30	6-Dec-12		
107	4	45.1	29	0.9523	9:14:30	6-Dec-12		
108	4.1	45	30	0.9978	9:15:30	6-Dec-12		
109	4.1	44.9	30	0.9254	9:16:30	6-Dec-12		
110	4.3	44.8	30	0.9529	9:17:30	6-Dec-12		
111	4.1	44.7	30	0.8665	9:18:30	6-Dec-12		
112	4.2	44.7	30	0.8322	9:19:30	6-Dec-12		
113	5.7	44.6	30	1.5626	9:20:30	6-Dec-12		
114	5.6	44.5	30	0.9106	9:21:30	6-Dec-12		
115	4.4	44.4	30	0.7125	9:22:30	6-Dec-12		
116	4.2	44.3	30	0.7159	9:23:30	6-Dec-12		
117	3.8	44.2	30	0.6697	9:24:30	6-Dec-12		
118	4.1	44.2	31	0.7955	9:25:30	6-Dec-12		
119	4	44.1	31	0.7641	9:26:30	6-Dec-12		
120	3.6	44	31	0.6512	9:27:30	6-Dec-12		
121	3.8	43.9	31	0.6388	9:28:30	6-Dec-12		
122	3.8	43.9	31	0.6202	9:29:30	6-Dec-12		
123	3.9	43.8	31	0.7108	9:30:30	6-Dec-12		
124	3.9	43.8	31	0.6401	9:31:30	6-Dec-12		
125	4.3	43.7	31	0.668	9:32:30	6-Dec-12		
126	4	43.7	31	0.7323	9:33:30	6-Dec-12		
127	4.4	43.6	31	0.7374	9:34:30	6-Dec-12		
128	3.7	43.6	32	0.6649	9:35:30	6-Dec-12		
129	4.1	43.6	32	0.7639	9:36:30	6-Dec-12		
130	5	43.5	32	1.2462	9:37:30	6-Dec-12		
131	4.7	43.5	32	0.8801	9:38:30	6-Dec-12		
132	4.6	43.4	32	1.4269	9:39:30	6-Dec-12		
133	4.2	43.3	32	1.0965	9:40:30	6-Dec-12		
134	11.8	43.3	32	1.057	9:41:30	6-Dec-12		
135	3.6	43.3	32	0.6771	9:42:30	6-Dec-12		
136	14.7	43.2	32	2.1333	9:43:30	6-Dec-12		
137	9.5	43.1	32	1.0339	9:44:30	6-Dec-12		
138	4.5	43.1	32	0.8693	9:45:30	6-Dec-12		
139	6.3	43.1	32	1.4634	9:46:30	6-Dec-12		
140	6.5	43.1	32	1.7767	9:47:30	6-Dec-12		
141	14.6	43.1	33	3.4879	9:48:30	6-Dec-12		
142	8.2	43.1	33	2.1064	9:49:30	6-Dec-12		
143	16.4	43.1	33	3.6197	9:50:30	6-Dec-12		
144	30.2	43	33	4.0864	9:51:30	6-Dec-12		
145	17.8	43	33	3.9452	9:52:30	6-Dec-12		
146	34.8	43	33	4.0978	9:53:30	6-Dec-12		
147	4.9	43	33	1.5651	9:54:30	6-Dec-12		
148	13.1	43	33	2.4895	9:55:30	6-Dec-12		
149	18	43	33	3.4147	9:56:30	6-Dec-12		
150	6.2	42.9	33	2.0056	9:57:30	6-Dec-12		

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
151	18.5	42.9	33	3.6807	9:58:30	6-Dec-12	12.4	
152	12.1	42.9	33	2.3182	9:59:30	6-Dec-12		
153	4.6	42.9	33	1.0227	10:00:30	6-Dec-12		
154	12.1	42.9	33	2.6424	10:01:30	6-Dec-12		
155	8.7	42.8	33	2.2454	10:02:30	6-Dec-12		
156	8.7	42.8	34	2.4498	10:03:30	6-Dec-12		
157	11.2	42.8	33	2.2535	10:04:30	6-Dec-12		
158	40.9	42.8	34	4.127	10:05:30	6-Dec-12		
159	34	42.7	34	3.615	10:06:30	6-Dec-12		
160	5.5	42.7	34	1.2385	10:07:30	6-Dec-12		
161	5.4	42.7	34	1.2486	10:08:30	6-Dec-12		
162	5.5	42.7	34	0.989	10:09:30	6-Dec-12		
163	4.2	42.7	34	0.8297	10:10:30	6-Dec-12		
164	5.6	42.7	34	1.4792	10:11:30	6-Dec-12		
165	9.1	42.7	34	2.9879	10:12:30	6-Dec-12		
166	16.8	42.7	34	0.9372	10:13:30	6-Dec-12		
167	5.1	42.7	34	0.5653	10:14:30	6-Dec-12	Digging down to demarcation layer with backhoe and backfilling around auger	
168	13.2	42.7	34	1.4144	10:15:30	6-Dec-12		
169	10	42.7	34	2.4639	10:16:30	6-Dec-12		
170	12.2	42.7	34	3.1811	10:17:30	6-Dec-12		
171	16.6	42.7	34	4.127	10:18:30	6-Dec-12		
172	21.9	42.7	35	4.104	10:19:30	6-Dec-12		
173	19.3	42.7	35	3.7152	10:20:30	6-Dec-12		
174	13	42.7	35	3.0009	10:21:30	6-Dec-12		
175	46.5	42.7	35	4.127	10:22:30	6-Dec-12		
176	18.2	42.8	35	3.9215	10:23:30	6-Dec-12		
177	17.3	42.8	35	3.354	10:24:30	6-Dec-12		
178	15.9	42.8	35	4.035	10:25:30	6-Dec-12		
179	21.5	42.8	35	4.0608	10:26:30	6-Dec-12		
180	22.4	42.8	35	4.127	10:27:30	6-Dec-12		
181	19.3	42.8	35	4.127	10:28:30	6-Dec-12		
182	6	42.8	35	1.7951	10:29:30	6-Dec-12		15.9
183	17.9	42.7	35	3.8098	10:30:30	6-Dec-12		
184	4.9	42.8	35	1.6105	10:31:30	6-Dec-12		
185	16.2	42.7	35	1.2983	10:32:30	6-Dec-12		
186	5.6	42.7	35	0.7798	10:33:30	6-Dec-12		
187	6.1	42.7	35	0.8151	10:34:30	6-Dec-12		
188	10.4	42.7	35	1.1728	10:35:30	6-Dec-12		
189	5.1	42.7	35	1.074	10:36:30	6-Dec-12		
190	9	42.7	35	2.3157	10:37:30	6-Dec-12		
191	24.3	42.7	35	2.3802	10:38:30	6-Dec-12		
192	19.8	42.8	35	1.7859	10:39:30	6-Dec-12		
193	80.5	42.8	35	1.6844	10:40:30	6-Dec-12		
194	4.6	42.8	35	0.8658	10:41:30	6-Dec-12		
195	9.3	42.8	35	1.2615	10:42:30	6-Dec-12		
196	6.2	42.8	35	1.5783	10:43:30	6-Dec-12		
197	4.9	42.8	35	0.9468	10:44:30	6-Dec-12		
198	5.4	42.8	35	1.3262	10:45:30	6-Dec-12		
199	5.2	42.8	35	1.4909	10:46:30	6-Dec-12		
200	7.5	42.8	35	2.9829	10:47:30	6-Dec-12		
201	6.8	42.8	35	2.4555	10:48:30	6-Dec-12		
202	8	42.8	36	2.5378	10:49:30	6-Dec-12		
203	13.5	42.8	35	2.8149	10:50:30	6-Dec-12		
204	9.5	42.8	36	2.3929	10:51:30	6-Dec-12		
205	6.7	42.9	35	2.3733	10:52:30	6-Dec-12		
206	6.2	42.9	35	1.6523	10:53:30	6-Dec-12		
207	5.5	42.9	36	1.4613	10:54:30	6-Dec-12		
208	8.1	42.9	36	2.6935	10:55:30	6-Dec-12		
209	7	42.9	36	1.982	10:56:30	6-Dec-12		
210	4.1	42.9	36	0.8083	10:57:30	6-Dec-12		
211	8.6	42.9	36	2.9172	10:58:30	6-Dec-12		
212	4.3	42.9	36	1.0657	10:59:30	6-Dec-12		
213	4.1	43	36	0.8616	11:00:30	6-Dec-12		
214	4.1	43	36	0.7904	11:01:30	6-Dec-12		
215	4.2	43	36	0.8658	11:02:30	6-Dec-12		
216	3.7	43	36	0.7361	11:03:30	6-Dec-12		
217	4.5	43	36	0.9249	11:04:30	6-Dec-12		
218	6.2	43	36	0.9745	11:05:30	6-Dec-12		
219	5.6	43	36	0.9296	11:06:30	6-Dec-12		
220	3.9	43.1	36	0.5992	11:07:30	6-Dec-12		
221	4.7	43.1	36	0.7143	11:08:30	6-Dec-12		
222	4	43.1	36	0.7122	11:09:30	6-Dec-12		
223	4.6	43.1	36	1.1071	11:10:30	6-Dec-12		
224	3.9	43.2	36	0.7334	11:11:30	6-Dec-12		
225	4.9	43.2	36	0.9476	11:12:30	6-Dec-12		

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
226	3.8	43.2	36	0.7954	11:13:30	6-Dec-12	6.3	Drilling GTB-19
227	4.9	43.2	36	0.9841	11:14:30	6-Dec-12		
228	4.6	43.2	36	0.7807	11:15:30	6-Dec-12		
229	4.2	43.3	36	0.8155	11:16:30	6-Dec-12		
230	4.1	43.3	36	0.7195	11:17:30	6-Dec-12		
231	9.4	43.3	36	1.8697	11:18:30	6-Dec-12		
232	6.7	43.3	36	1.1705	11:19:30	6-Dec-12		
233	5.9	43.4	36	1.3934	11:20:30	6-Dec-12		
234	4.9	43.5	36	1.1306	11:21:30	6-Dec-12		
235	4.7	43.6	36	0.9223	11:22:30	6-Dec-12		
236	7.1	43.6	36	2.4602	11:23:30	6-Dec-12		
237	11.5	43.6	36	3.693	11:24:30	6-Dec-12		
238	11.5	43.7	36	2.5579	11:25:30	6-Dec-12		
239	5.9	43.7	36	1.33	11:26:30	6-Dec-12		
240	5.6	43.8	36	1.6974	11:27:30	6-Dec-12		
241	7.2	43.8	36	2.1716	11:28:30	6-Dec-12		
242	6.7	43.8	36	2.0522	11:29:30	6-Dec-12		
243	4.7	43.8	36	1.2401	11:30:30	6-Dec-12		
244	4.8	44.1	36	0.3834	12:06:57	6-Dec-12		
245	4.6	44.1	35	0.6031	12:07:57	6-Dec-12		
246	4.4	44.1	35	0.5921	12:08:57	6-Dec-12		
247	3.5	44.1	35	0.5198	12:09:57	6-Dec-12		
248	3.7	44.2	35	0.5309	12:10:57	6-Dec-12		
249	3.6	44.1	35	0.5229	12:11:57	6-Dec-12		
250	3.6	44.2	35	0.5232	12:12:57	6-Dec-12		
251	3.4	44.1	35	0.5288	12:13:57	6-Dec-12		
252	3.6	44.1	35	0.5682	12:14:57	6-Dec-12		
253	4.1	44.1	35	0.7729	12:15:57	6-Dec-12		
254	3.8	44.1	35	1.0116	12:16:57	6-Dec-12		
255	4.6	44.1	35	0.9224	12:17:57	6-Dec-12		
256	4.2	44	35	0.8938	12:18:57	6-Dec-12		
257	3.9	44.1	35	0.8878	12:19:57	6-Dec-12		
258	6.4	44	35	1.421	12:20:57	6-Dec-12		
259	8	44	35	1.6191	12:21:57	6-Dec-12		
260	82.7	44	35	4.0989	12:22:57	6-Dec-12		
261	21.5	44	35	3.7653	12:23:57	6-Dec-12		
262	5.3	44	35	1.314	12:24:57	6-Dec-12		
263	18.3	44	35	2.3972	12:25:57	6-Dec-12		
264	7.3	44	35	1.1548	12:26:57	6-Dec-12		
265	4.8	44	35	1.1079	12:27:57	6-Dec-12		
266	5.4	44	35	1.8277	12:28:57	6-Dec-12		
267	5.2	44	35	1.9579	12:29:57	6-Dec-12		
268	9.2	43.9	35	3.793	12:30:57	6-Dec-12		
269	10.5	44	35	4.1197	12:31:57	6-Dec-12		
270	8.5	44	36	4.0331	12:32:57	6-Dec-12		
271	16.9	44	37	4.0019	12:33:57	6-Dec-12		
272	7.3	44	37	1.8654	12:34:57	6-Dec-12		
273	9.9	44	37	2.0323	12:35:57	6-Dec-12		
274	35	44.1	37	3.7486	12:36:57	6-Dec-12		
275	25.4	44.1	37	4.0306	12:37:57	6-Dec-12		
276	45.7	44.1	36	4.127	12:38:57	6-Dec-12		
277	24.3	44.1	36	3.8477	12:39:57	6-Dec-12		
278	19	44.1	36	3.9403	12:40:57	6-Dec-12		
279	8.3	44.1	36	2.6835	12:41:57	6-Dec-12		
280	9.5	44.1	36	2.7673	12:42:57	6-Dec-12		
281	5.9	44.2	36	2.0793	12:43:57	6-Dec-12		
282	14.6	44.2	36	3.1297	12:44:57	6-Dec-12		
283	13.4	44.2	36	3.0893	12:45:57	6-Dec-12		
284	6.1	44.3	36	1.978	12:46:57	6-Dec-12		
285	4.8	44.3	36	1.5167	12:47:57	6-Dec-12		
286	6.1	44.4	36	2.2891	12:48:57	6-Dec-12		
287	5	44.5	36	2.0013	12:49:57	6-Dec-12		
288	10.1	44.5	36	2.9113	12:50:57	6-Dec-12		
289	20	44.5	35	0.8266	12:51:57	6-Dec-12		
290	17	44.5	36	0.8024	12:52:57	6-Dec-12		
291	10.6	44.6	35	0.9512	12:53:57	6-Dec-12		
292	6.4	44.6	35	0.8148	12:54:57	6-Dec-12		
293	7.4	44.7	35	0.8852	12:55:57	6-Dec-12		
294	3.5	44.7	35	0.5877	12:56:57	6-Dec-12		
295	5.3	44.7	35	0.9277	12:57:57	6-Dec-12		
296	21.4	44.7	35	2.6944	12:58:57	6-Dec-12		
297	6	44.8	35	1.7961	12:59:57	6-Dec-12		
298	7	44.8	35	0.97	13:00:57	6-Dec-12		
299	5.9	44.8	35	0.9293	13:01:57	6-Dec-12		
300	8.4	44.9	34	2.7911	13:02:57	6-Dec-12		



Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
301	4.9	44.9	34	1.3185	13:03:57	6-Dec-12	11.9	Digging down to demarcation layer with backhoe and backfilling around auger
302	11.4	44.9	34	2.9034	13:04:57	6-Dec-12		
303	18.6	44.9	34	3.8318	13:05:57	6-Dec-12		
304	10.7	44.9	34	2.4478	13:06:57	6-Dec-12		
305	14.7	45	34	3.4686	13:07:57	6-Dec-12		
306	31.1	45	34	3.7104	13:08:57	6-Dec-12		
307	19.9	45	34	3.315	13:09:57	6-Dec-12		
308	4.5	45	34	1.0276	13:10:57	6-Dec-12		
309	5.9	45.1	34	1.4195	13:11:57	6-Dec-12		
310	5.5	45	34	1.477	13:12:57	6-Dec-12		
311	5.3	45.1	34	1.72	13:13:57	6-Dec-12		
312	14.6	45.1	34	1.9339	13:14:57	6-Dec-12		
313	3.8	45.1	34	0.9061	13:15:57	6-Dec-12		
314	13.5	45.1	34	1.6961	13:16:57	6-Dec-12		
315	13.9	45.1	34	3.1125	13:17:57	6-Dec-12		
316	4.8	45.2	34	1.2015	13:18:57	6-Dec-12		
317	5.3	45.2	34	1.9391	13:19:57	6-Dec-12		
318	4.3	45.2	34	1.433	13:20:57	6-Dec-12		
319	4.7	45.3	34	1.9324	13:21:57	6-Dec-12		
320	4.9	45.3	34	1.0467	13:22:57	6-Dec-12		
321	4.3	45.3	34	0.8654	13:23:57	6-Dec-12		
322	7.2	45.3	34	1.2498	13:24:57	6-Dec-12		
323	6.7	45.4	34	1.9145	13:25:57	6-Dec-12		
324	4.6	45.4	34	0.8236	13:26:57	6-Dec-12		
325	14.3	45.4	34	1.2838	13:27:57	6-Dec-12		
326	27.7	45.4	34	0.745	13:28:57	6-Dec-12		
327	17.4	45.4	34	0.8205	13:29:57	6-Dec-12		
328	11.3	45.4	34	0.867	13:30:57	6-Dec-12		
329	15.6	45.4	34	1.1528	13:31:57	6-Dec-12		
330	6	45.4	34	0.6938	13:32:57	6-Dec-12		
331	4	45.4	34	0.6014	13:33:57	6-Dec-12		
332	3.6	45.4	34	0.6017	13:34:57	6-Dec-12		
333	3.7	45.5	34	0.6103	13:35:57	6-Dec-12		
334	3.8	45.5	34	0.6477	13:36:57	6-Dec-12		
335	6.5	45.5	34	1.4931	13:37:57	6-Dec-12		
336	6.4	45.5	34	1.773	13:38:57	6-Dec-12		
337	5.2	45.5	34	1.1533	13:39:57	6-Dec-12		
338	5.6	45.5	34	1.7405	13:40:57	6-Dec-12		
339	11	45.6	34	2.0403	13:41:57	6-Dec-12		
340	8	45.6	34	2.4305	13:42:57	6-Dec-12		
341	4.8	45.6	34	1.0645	13:43:57	6-Dec-12		
342	3.8	45.6	34	0.7929	13:44:57	6-Dec-12		
343	6.1	45.6	33	1.6	13:45:57	6-Dec-12		
344	5.9	45.6	34	1.8825	13:46:57	6-Dec-12		
345	7.6	45.6	33	2.3828	13:47:57	6-Dec-12		
346	4.1	45.6	34	1.1624	13:48:57	6-Dec-12		
347	4	45.6	33	0.8804	13:49:57	6-Dec-12		
348	5.5	45.6	33	1.6251	13:50:57	6-Dec-12		
349	5.6	45.6	33	2.1403	13:51:57	6-Dec-12		
350	12.1	45.6	33	3.8391	13:52:57	6-Dec-12		
351	15.1	45.6	33	3.2964	13:53:57	6-Dec-12		
352	13.6	45.6	33	1.8446	13:54:57	6-Dec-12		
353	5.7	45.6	33	1.0441	13:55:57	6-Dec-12		
354	4.4	45.6	33	0.915	13:56:57	6-Dec-12		
355	10.4	45.6	33	2.7476	13:57:57	6-Dec-12		
356	6.8	45.6	33	1.772	13:58:57	6-Dec-12		
357	4.4	45.6	33	0.9568	13:59:57	6-Dec-12		
358	4	45.6	33	0.8014	14:00:57	6-Dec-12		
359	6.8	45.6	33	1.2719	14:01:57	6-Dec-12		
360	4.4	45.6	33	0.812	14:02:57	6-Dec-12		
361	4.2	45.6	34	0.7773	14:03:57	6-Dec-12		
362	5.2	45.6	33	1.2137	14:04:57	6-Dec-12		
363	4	45.6	33	0.7355	14:05:57	6-Dec-12		
364	5.1	45.6	33	1.1394	14:06:57	6-Dec-12		
365	9.5	45.6	33	2.263	14:07:57	6-Dec-12		
366	13.4	45.7	33	3.7704	14:08:57	6-Dec-12		
367	14.4	45.7	33	2.7828	14:09:57	6-Dec-12		
368	13	45.7	33	3.1288	14:10:57	6-Dec-12		
369	13.8	45.7	33	2.4583	14:11:57	6-Dec-12		
370	11.5	45.7	34	2.0198	14:12:57	6-Dec-12		
371	11.4	45.7	33	1.5206	14:13:57	6-Dec-12		
372	7.9	45.7	34	2.5947	14:14:57	6-Dec-12		
373	5.8	45.6	34	2.2521	14:15:57	6-Dec-12		
374	7.5	45.7	34	1.4045	14:16:57	6-Dec-12		
375	72.7	45.6	33	3.5098	14:17:57	6-Dec-12		

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
376	12.2	45.6	33	3.1597	14:18:57	6-Dec-12	6.6	Drilling GTB-20
377	13.1	45.6	34	3.9271	14:19:57	6-Dec-12		
378	9.8	45.6	34	3.413	14:20:57	6-Dec-12		
379	9.5	45.6	34	2.8238	14:21:57	6-Dec-12		
380	6.1	45.6	34	1.284	14:22:57	6-Dec-12		
381	6	45.6	34	1.4156	14:23:57	6-Dec-12		
382	5.9	45.6	34	0.9163	14:24:57	6-Dec-12		
383	4.3	45.5	34	0.7118	14:25:57	6-Dec-12		
384	4.2	45.5	34	0.7901	14:26:57	6-Dec-12		
385	4.9	45.5	34	1.0329	14:27:57	6-Dec-12		
386	4.6	45.5	34	0.9103	14:28:57	6-Dec-12		
387	4.5	45.5	34	0.8898	14:29:57	6-Dec-12		
388	4.6	45.5	34	0.7524	14:30:57	6-Dec-12		
389	4.7	45.5	34	0.6943	14:31:57	6-Dec-12		
390	5.3	45.5	34	0.7891	14:32:57	6-Dec-12		
391	5	45.5	34	0.8345	14:33:57	6-Dec-12		
392	5.3	45.5	34	0.9418	14:34:57	6-Dec-12		
393	4.7	45.5	34	0.9956	14:35:57	6-Dec-12		
394	4.6	45.5	34	0.8366	14:36:57	6-Dec-12		
395	4.5	45.5	34	0.7418	14:37:57	6-Dec-12		
396	4.6	45.4	34	0.8356	14:38:57	6-Dec-12		
397	4.2	45.4	34	0.695	14:39:57	6-Dec-12		
398	4.2	45.4	34	0.6098	14:40:57	6-Dec-12		
399	5.2	45.4	34	0.7182	14:41:57	6-Dec-12		
400	5.1	45.4	34	0.8762	14:42:57	6-Dec-12		
401	4.7	45.4	34	0.8625	14:43:57	6-Dec-12		
402	7.4	45.4	34	1.6419	14:44:57	6-Dec-12		
403	16.5	45.4	34	1.8397	14:45:57	6-Dec-12		
404	6.4	45.4	34	0.9522	14:46:57	6-Dec-12		
405	13.6	45.4	34	3.1485	14:47:57	6-Dec-12		
406	12.8	45.3	34	2.4319	14:48:57	6-Dec-12		
407	10.3	45.3	34	2.2463	14:49:57	6-Dec-12		
408	8	45.3	34	1.747	14:50:57	6-Dec-12		
409	5.9	45.3	34	1.3804	14:51:57	6-Dec-12		
410	5	45.3	34	0.9482	14:52:57	6-Dec-12		
411	5.3	45.4	34	1.541	14:53:57	6-Dec-12		
412	8.7	45.3	34	2.0668	14:54:57	6-Dec-12		
413	15.8	45.3	34	3.5912	14:55:57	6-Dec-12		
414	7	45.4	34	2.6192	14:56:57	6-Dec-12		
415	6.4	45.3	34	1.1621	14:57:57	6-Dec-12		
416	11.3	45.3	35	3.2775	14:58:57	6-Dec-12		
417	5.5	45.3	34	1.9938	14:59:57	6-Dec-12		
418	5.7	45.4	35	1.6877	15:00:57	6-Dec-12		
419	8.9	45.4	35	2.1114	15:01:57	6-Dec-12		
420	9.5	45.4	35	3.6123	15:02:57	6-Dec-12		
421	6.9	45.4	35	2.2439	15:03:57	6-Dec-12		
422	9.8	45.5	35	2.9697	15:04:57	6-Dec-12		
423	7.7	45.5	35	2.6964	15:05:57	6-Dec-12		
424	6.4	45.5	35	1.6401	15:06:57	6-Dec-12		
425	5	45.6	35	1.1693	15:07:57	6-Dec-12		
426	4.1	45.6	35	0.7484	15:08:57	6-Dec-12		
427	5.9	45.6	35	1.0678	15:09:57	6-Dec-12		
428	5.2	45.7	35	1.2397	15:10:57	6-Dec-12		
429	4.8	45.7	35	0.8961	15:11:57	6-Dec-12		
430	5.1	45.8	35	1.1533	15:12:57	6-Dec-12		
431	4.5	45.8	35	0.9403	15:13:57	6-Dec-12		
432	6.5	45.9	35	1.6795	15:14:57	6-Dec-12		
433	6	45.9	35	1.6377	15:15:57	6-Dec-12		
434	4.1	46	35	0.8365	15:16:57	6-Dec-12		
435	5.7	46	35	1.7023	15:17:57	6-Dec-12		
436	5.4	46	35	1.2048	15:18:57	6-Dec-12		
437	9.7	46.1	35	3.2581	15:19:57	6-Dec-12		
438	6.4	46.1	35	1.4478	15:20:57	6-Dec-12		
439	4.7	46.2	35	1.2496	15:21:57	6-Dec-12		
440	4.4	46.3	35	0.8243	15:22:57	6-Dec-12		
441	4.1	46.3	35	0.7108	15:23:57	6-Dec-12		
442	5.5	46.3	35	1.1527	15:24:57	6-Dec-12		
443	8.4	46.4	35	2.985	15:25:57	6-Dec-12		
444	4.5	46.4	34	1.1113	15:26:57	6-Dec-12		
445	5.8	46.5	35	1.3262	15:27:57	6-Dec-12		
446	4.4	46.4	34	1.0356	15:28:57	6-Dec-12		
447	5.2	46.5	34	1.2424	15:29:57	6-Dec-12		
448	4.8	46.5	34	0.7493	15:30:57	6-Dec-12		
449	7.9	46.5	34	2.2253	15:31:57	6-Dec-12		
450	4.4	46.5	34	0.8879	15:32:57	6-Dec-12		
451	4.9	46.5	34	0.7211	15:33:57	6-Dec-12		
452	6.6	46.5	34	0.9676	15:34:57	6-Dec-12		

Instrument: MiniRAE 2000  
 User ID: 00000001  
 Data Points: 448  
 Last Calibration Time: 11/16/2012 16:38

Serial Number: 005343  
 Site ID: 00000134  
 Sample Period: 60 sec  
 Gas Name: Isobutylene

Measurement Type: Min (ppm) Avg (ppm) Max (ppm)  
 High Alarm Levels: 100 100 100  
 Low Alarm Levels: 50 50 50

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
1	12/6/2012 7:26	0		0		0			
2	12/6/2012 7:27	0		0		0			
3	12/6/2012 7:28	0		0		0			
4	12/6/2012 7:29	0		0		0			
5	12/6/2012 7:30	0		0		0			
6	12/6/2012 7:31	0		0		0			
7	12/6/2012 7:32	0		0		0			
8	12/6/2012 7:33	0		0		0		0.0	Setup air monitors, warming up equipment
9	12/6/2012 7:34	0		0		0			
10	12/6/2012 7:35	0		0		0			
11	12/6/2012 7:36	0		0		0			
12	12/6/2012 7:37	0		0		0			
13	12/6/2012 7:38	0		0		0			
14	12/6/2012 7:39	0		0		0			
15	12/6/2012 7:40	0		0		0			
16	12/6/2012 7:41	0		0		0			
17	12/6/2012 7:42	0		0		0			
18	12/6/2012 7:43	0		0		0			
19	12/6/2012 7:44	0		0		0			
20	12/6/2012 7:45	0		0		0			
21	12/6/2012 7:46	0		0		0			
22	12/6/2012 7:47	0		0		0			
23	12/6/2012 7:48	0		0		0		0.0	
24	12/6/2012 7:49	0		0		0			
25	12/6/2012 7:50	0		0		0			
26	12/6/2012 7:51	0		0		0			
27	12/6/2012 7:52	0		0		0			
28	12/6/2012 7:53	0		0		0			
29	12/6/2012 7:54	0		0		0			
30	12/6/2012 7:55	0		0		0			
31	12/6/2012 7:56	0		0		0			
32	12/6/2012 7:57	0		0		0			
33	12/6/2012 7:58	0		0		0			
34	12/6/2012 7:59	0		0		0			
35	12/6/2012 8:00	0		0		0			Drilling GTB-18
36	12/6/2012 8:01	0		0		0			
37	12/6/2012 8:02	0		0		0			
38	12/6/2012 8:03	0		0		0		0.0	
39	12/6/2012 8:04	0		0		0			
40	12/6/2012 8:05	0		0		0			
41	12/6/2012 8:06	0		0		0			
42	12/6/2012 8:07	0		0		0			
43	12/6/2012 8:08	0		0		0			
44	12/6/2012 8:09	0		0		0			
45	12/6/2012 8:10	0		0		0			
46	12/6/2012 8:11	0		0		0			
47	12/6/2012 8:12	0		0		0			
48	12/6/2012 8:13	0		0		0			
49	12/6/2012 8:14	0		0		0			
50	12/6/2012 8:15	0		0		0			
51	12/6/2012 8:16	0		0		0			
52	12/6/2012 8:17	0		0		0			
53	12/6/2012 8:18	0		0		0		0.0	
54	12/6/2012 8:19	0		0		0			
55	12/6/2012 8:20	0		0		0			
56	12/6/2012 8:21	0		0		0			
57	12/6/2012 8:22	0		0		0			
58	12/6/2012 8:23	0		0		0			
59	12/6/2012 8:24	0		0		0			
60	12/6/2012 8:25	0		0		0			
61	12/6/2012 8:26	0		0		0			
62	12/6/2012 8:27	0		0		0			
63	12/6/2012 8:28	0		0		0			
64	12/6/2012 8:29	0		0		0			
65	12/6/2012 8:30	0		0		0			
66	12/6/2012 8:31	0		0		0			Backfilling and grouting hole
67	12/6/2012 8:32	0		0		0			
68	12/6/2012 8:33	0		0		0		0.0	
69	12/6/2012 8:34	0		0		0			
70	12/6/2012 8:35	0		0		0			
71	12/6/2012 8:36	0		0		0			
72	12/6/2012 8:37	0		0		0			
73	12/6/2012 8:38	0		0		0			
74	12/6/2012 8:39	0		0		0			
75	12/6/2012 8:40	0		0		0			

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
76	12/6/2012 8:41	0		0		0			
77	12/6/2012 8:42	0		0		0			
78	12/6/2012 8:43	0		0		0			
79	12/6/2012 8:44	0		0		0			
80	12/6/2012 8:45	0		0		0			
81	12/6/2012 8:46	0		0		0			
82	12/6/2012 8:47	0		0		0			
83	12/6/2012 8:48	0		0		0		0.0	
84	12/6/2012 8:49	0		0		0			
85	12/6/2012 8:50	0		0		0			Restore cover conditions
86	12/6/2012 8:51	0		0		0			
87	12/6/2012 8:52	0		0		0			
88	12/6/2012 8:53	0		0		0			
89	12/6/2012 8:54	0		0		0			
90	12/6/2012 8:55	0		0		0			
91	12/6/2012 8:56	0		0		0			
92	12/6/2012 8:57	0		0		0			
93	12/6/2012 8:58	0		0		0			
94	12/6/2012 8:59	0		0		0			
95	12/6/2012 9:00	0		0		0			
96	12/6/2012 9:01	0		0		0			
97	12/6/2012 9:02	0		0		0		0.0	
98	12/6/2012 9:03	0		0		0			
99	12/6/2012 9:04	0		0		0			
100	12/6/2012 9:05	0		0		0			
101	12/6/2012 9:06	0		0		0			
102	12/6/2012 9:07	0		0		0			
103	12/6/2012 9:08	0		0		0			
104	12/6/2012 9:09	0		0		0			
105	12/6/2012 9:10	0		0		0			Break, no activity
106	12/6/2012 9:11	0		0		0			
107	12/6/2012 9:12	0		0		0			
108	12/6/2012 9:13	0		0		0			
109	12/6/2012 9:14	0		0		0			
110	12/6/2012 9:15	0		0		0			
111	12/6/2012 9:16	0		0		0			
112	12/6/2012 9:17	0		0		0		0.0	
113	12/6/2012 9:18	0		0		0			
114	12/6/2012 9:19	0		0		0			
115	12/6/2012 9:20	0		0		0			
116	12/6/2012 9:21	0		0		0			
117	12/6/2012 9:22	0		0		0			
118	12/6/2012 9:23	0		0		0			
119	12/6/2012 9:24	0		0		0			
120	12/6/2012 9:25	0		0		0			
121	12/6/2012 9:26	0		0		0			
122	12/6/2012 9:27	0		0		0			
123	12/6/2012 9:28	0		0		0			
124	12/6/2012 9:29	0		0		0			Moving air monitors and rig to GTB-19
125	12/6/2012 9:30	0		0		0			
126	12/6/2012 9:31	0		0		0			
127	12/6/2012 9:32	0		0		0			
128	12/6/2012 9:33	0		0		0		0.0	
129	12/6/2012 9:34	0		0		0			
130	12/6/2012 9:35	0		0		0			
131	12/6/2012 9:36	0		0		0			
132	12/6/2012 9:37	0		0		0			
133	12/6/2012 9:38	0		0		0			
134	12/6/2012 9:39	0		0		0			
135	12/6/2012 9:40	0		0		0			
136	12/6/2012 9:41	0		0		0			
137	12/6/2012 9:42	0		0		0			
138	12/6/2012 9:43	0		0		0			
139	12/6/2012 9:44	0		0		0			
140	12/6/2012 9:45	0		0		0			
141	12/6/2012 9:46	0		0		0			Digging down to demarcation layer with backhoe and backfilling hole around augers
142	12/6/2012 9:47	0		0		0			
143	12/6/2012 9:48	0		0		0		0.0	
144	12/6/2012 9:49	0		0		0			
145	12/6/2012 9:50	0		0		0			
146	12/6/2012 9:51	0		0		0			
147	12/6/2012 9:52	0		0		0			
148	12/6/2012 9:53	0		0		0			
149	12/6/2012 9:54	0		0		0			
150	12/6/2012 9:55	0		0		0			

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
151	12/6/2012 9:56	0		0		0			
152	12/6/2012 9:57	0		0		0			
153	12/6/2012 9:58	0		0		0			
154	12/6/2012 9:59	0		0		0			
155	12/6/2012 10:00	0		0		0			
156	12/6/2012 10:01	0		0		0			
157	12/6/2012 10:02	0		0		0			
158	12/6/2012 10:03	0		0		0		0.0	
159	12/6/2012 10:04	0		0		0			
160	12/6/2012 10:05	0		0		0			
161	12/6/2012 10:06	0		0		0			
162	12/6/2012 10:07	0		0		0			
163	12/6/2012 10:08	0		0		0			
164	12/6/2012 10:09	0		0		0			
165	12/6/2012 10:10	0		0		0			
166	12/6/2012 10:11	0		0		0			
167	12/6/2012 10:12	0		0		0			
168	12/6/2012 10:13	0		0		0			
169	12/6/2012 10:14	0		0		0			
170	12/6/2012 10:15	0		0		0			
171	12/6/2012 10:16	0		0		0			
172	12/6/2012 10:17	0		0		0			
173	12/6/2012 10:18	0		0		0		0.0	
174	12/6/2012 10:19	0		0		0			
175	12/6/2012 10:20	0		0		0			
176	12/6/2012 10:21	0		0		0			
177	12/6/2012 10:22	0		0		0			
178	12/6/2012 10:23	0		0		0			
179	12/6/2012 10:24	0		0		0			
180	12/6/2012 10:25	0		0		0			
181	12/6/2012 10:26	0		0		0			
182	12/6/2012 10:27	0		0		0			
183	12/6/2012 10:28	0		0		0			
184	12/6/2012 10:29	0		0		0			
185	12/6/2012 10:30	0		0		0			
186	12/6/2012 10:31	0		0		0			
187	12/6/2012 10:32	0		0		0			
188	12/6/2012 10:33	0		0		0		0.0	
189	12/6/2012 10:34	0		0		0			
190	12/6/2012 10:35	0		0		0			
191	12/6/2012 10:36	0		0		0.2			
192	12/6/2012 10:37	0		0		0			
193	12/6/2012 10:38	0		0		0			
194	12/6/2012 10:39	0		0		0			
195	12/6/2012 10:40	0		0		0			
196	12/6/2012 10:41	0		0		0			
197	12/6/2012 10:42	0		0		0			
198	12/6/2012 10:43	0		0		0			
199	12/6/2012 10:44	0		0		0			
200	12/6/2012 10:45	0		0		0			
201	12/6/2012 10:46	0		0		0			
202	12/6/2012 10:47	0		0		0			
203	12/6/2012 10:48	0		0		0		0.0	
204	12/6/2012 10:49	0		0		0			
205	12/6/2012 10:50	0		0		0			
206	12/6/2012 10:51	0		0		0			
207	12/6/2012 10:52	0		0		0			
208	12/6/2012 10:53	0		0		0			
209	12/6/2012 10:54	0		0		0			
210	12/6/2012 10:55	0		0		0			
211	12/6/2012 10:56	0		0		0			
212	12/6/2012 10:57	0		0		0			
213	12/6/2012 10:58	0		0		0			
214	12/6/2012 10:59	0		0		0			
215	12/6/2012 11:00	0		0		0			
216	12/6/2012 11:01	0		0		0			
217	12/6/2012 11:02	0		0		0			
218	12/6/2012 11:03	0		0		0		0.0	
219	12/6/2012 11:04	0		0		0			
220	12/6/2012 11:05	0		0		0			
221	12/6/2012 11:06	0		0		0			
222	12/6/2012 11:07	0		0		0			
223	12/6/2012 11:08	0		0		0			
224	12/6/2012 11:09	0		0		0			
225	12/6/2012 11:10	0		0		0			

Digging down to demarcation layer with backhoe and backfilling hole around augers

Drilling GTB-19

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
226	12/6/2012 11:11	0		0		0			
227	12/6/2012 11:12	0		0		0			
228	12/6/2012 11:13	0		0		0			
229	12/6/2012 11:14	0		0		0			
230	12/6/2012 11:15	0		0		0			
231	12/6/2012 11:16	0		0		0			
232	12/6/2012 11:17	0		0		0			
233	12/6/2012 11:18	0		0		0		0.0	Drilling
234	12/6/2012 11:19	0		0		0			GTB-19, shut
235	12/6/2012 11:20	0		0		0			down air
236	12/6/2012 11:21	0		0		0			monitors
237	12/6/2012 11:22	0		0		0			during lunch
238	12/6/2012 11:23	0		0		0			
239	12/6/2012 11:24	0		0		0			
240	12/6/2012 11:25	0		0		0			
241	12/6/2012 11:26	0		0		0			
242	12/6/2012 12:05	0		0		0			
243	12/6/2012 12:06	0		0		0			
244	12/6/2012 12:07	0		0		0			
245	12/6/2012 12:08	0		0		0			
246	12/6/2012 12:09	0		0		0			
247	12/6/2012 12:10	0		0		0			
248	12/6/2012 12:11	0		0		0		0.0	Started air
249	12/6/2012 12:12	0		0		0			monitors
250	12/6/2012 12:13	0		0		0			
251	12/6/2012 12:14	0		0		0			
252	12/6/2012 12:15	0		0		0			
253	12/6/2012 12:16	0		0		0			
254	12/6/2012 12:17	0		0		0			
255	12/6/2012 12:18	0		0		0			
256	12/6/2012 12:19	0		0		0			
257	12/6/2012 12:20	0		0		0			
258	12/6/2012 12:21	0		0		0			
259	12/6/2012 12:22	0		0		0			
260	12/6/2012 12:23	0		0		0			Backfilling hole
261	12/6/2012 12:24	0		0		0			and grouting,
262	12/6/2012 12:25	0		0		0			restore cover
263	12/6/2012 12:26	0		0		0		0.0	conditions
264	12/6/2012 12:27	0		0		0			
265	12/6/2012 12:28	0		0		0			
266	12/6/2012 12:29	0		0		0			
267	12/6/2012 12:30	0		0		0			
268	12/6/2012 12:31	0		0		0			
269	12/6/2012 12:32	0		0		0			
270	12/6/2012 12:33	0		0		0			Moving air
271	12/6/2012 12:34	0		0		0			monitors and
272	12/6/2012 12:35	0		0		0			rig to GTB-20
273	12/6/2012 12:36	0		0		0			
274	12/6/2012 12:37	0		0		0			
275	12/6/2012 12:38	0		0		0			
276	12/6/2012 12:39	0		0		0			
277	12/6/2012 12:40	0		0		0			
278	12/6/2012 12:41	0		0		0		0.0	
279	12/6/2012 12:42	0		0		0			
280	12/6/2012 12:43	0		0		0			
281	12/6/2012 12:44	0		0		0			
282	12/6/2012 12:45	0		0		0			
283	12/6/2012 12:46	0		0		0			
284	12/6/2012 12:47	0		0		0			
285	12/6/2012 12:48	0		0		0			
286	12/6/2012 12:49	0		0		0			Digging down
287	12/6/2012 12:50	0		0		0			to demarcation
288	12/6/2012 12:51	0		0		0			layer with
289	12/6/2012 12:52	0		0		0			backhoe and
290	12/6/2012 12:53	0		0		0			backfilling hole
291	12/6/2012 12:54	0		0		0			around augers
292	12/6/2012 12:55	0		0		0			
293	12/6/2012 12:56	0		0		0		0.0	
294	12/6/2012 12:57	0		0		0			
295	12/6/2012 12:58	0		0		0			
296	12/6/2012 12:59	0		0		0			
297	12/6/2012 13:00	0		0		0			
298	12/6/2012 13:01	0		0		0			
299	12/6/2012 13:02	0		0		0			
300	12/6/2012 13:03	0		0		0			

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
301	12/6/2012 13:04	0		0		0			
302	12/6/2012 13:05	0		0		0			
303	12/6/2012 13:06	0		0		0			
304	12/6/2012 13:07	0		0		0			
305	12/6/2012 13:08	0		0		0			
306	12/6/2012 13:09	0		0		0			
307	12/6/2012 13:10	0		0		0			
308	12/6/2012 13:11	0		0		0		0.0	
309	12/6/2012 13:12	0		0		0			
310	12/6/2012 13:13	0		0		0			
311	12/6/2012 13:14	0		0		0			
312	12/6/2012 13:15	0		0		0			
313	12/6/2012 13:16	0		0		0			
314	12/6/2012 13:17	0		0		0			
315	12/6/2012 13:18	0		0		0			
316	12/6/2012 13:19	0		0		0			
317	12/6/2012 13:20	0		0		0			
318	12/6/2012 13:21	0		0		0			
319	12/6/2012 13:22	0		0		0			
320	12/6/2012 13:23	0		0		0			
321	12/6/2012 13:24	0		0		0			
322	12/6/2012 13:25	0		0		0			
323	12/6/2012 13:26	0		0		0		0.0	
324	12/6/2012 13:27	0		0		0			
325	12/6/2012 13:28	0		0		0			
326	12/6/2012 13:29	0		0		0			
327	12/6/2012 13:30	0		0		0			
328	12/6/2012 13:31	0		0		0			
329	12/6/2012 13:32	0		0		0			
330	12/6/2012 13:33	0		0		0			
331	12/6/2012 13:34	0		0		0			
332	12/6/2012 13:35	0		0		0			
333	12/6/2012 13:36	0		0		0			
334	12/6/2012 13:37	0		0		0			
335	12/6/2012 13:38	0		0		0			
336	12/6/2012 13:39	0		0		0			
337	12/6/2012 13:40	0		0		0			
338	12/6/2012 13:41	0		0		0		0.0	
339	12/6/2012 13:42	0		0		0			
340	12/6/2012 13:43	0		0		0			
341	12/6/2012 13:44	0		0		0			
342	12/6/2012 13:45	0		0		0			
343	12/6/2012 13:46	0		0		0			
344	12/6/2012 13:47	0		0		0			
345	12/6/2012 13:48	0		0		0			
346	12/6/2012 13:49	0		0		0			
347	12/6/2012 13:50	0		0		0			
348	12/6/2012 13:51	0		0		0			
349	12/6/2012 13:52	0		0		0			
350	12/6/2012 13:53	0		0		0			
351	12/6/2012 13:54	0		0		0			
352	12/6/2012 13:55	0		0		0			
353	12/6/2012 13:56	0		0		0		0.0	
354	12/6/2012 13:57	0		0		0			
355	12/6/2012 13:58	0		0		0			
356	12/6/2012 13:59	0		0		0			
357	12/6/2012 14:00	0		0		0			
358	12/6/2012 14:01	0		0		0			
359	12/6/2012 14:02	0		0		0			
360	12/6/2012 14:03	0		0		0			
361	12/6/2012 14:04	0		0		0			
362	12/6/2012 14:05	0		0		0			
363	12/6/2012 14:06	0		0		0			
364	12/6/2012 14:07	0		0		0			
365	12/6/2012 14:08	0		0		0			
366	12/6/2012 14:09	0		0		0			
367	12/6/2012 14:10	0		0		0			
368	12/6/2012 14:11	0		0		0		0.0	
369	12/6/2012 14:12	0		0		0			
370	12/6/2012 14:13	0		0		0			
371	12/6/2012 14:14	0		0		0			
372	12/6/2012 14:15	0		0		0			
373	12/6/2012 14:16	0		0		0			
374	12/6/2012 14:17	0		0		0			
375	12/6/2012 14:18	0		0		0			

Digging down to demarcation layer with backhoe and backfilling hole around augers

Drilling GTB-20

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
376	12/6/2012 14:19	0		0		0			
377	12/6/2012 14:20	0		0		0			
378	12/6/2012 14:21	0		0		0			
379	12/6/2012 14:22	0		0		0			
380	12/6/2012 14:23	0		0		0			
381	12/6/2012 14:24	0		0		0			
382	12/6/2012 14:25	0		0		0			
383	12/6/2012 14:26	0		0		0		0.0	
384	12/6/2012 14:27	0		0		0			
385	12/6/2012 14:28	0		0		0			
386	12/6/2012 14:29	0		0		0			
387	12/6/2012 14:30	0		0		0			
388	12/6/2012 14:31	0		0		0			
389	12/6/2012 14:32	0		0		0			
390	12/6/2012 14:33	0		0		0			
391	12/6/2012 14:34	0		0		0			
392	12/6/2012 14:35	0		0		0			
393	12/6/2012 14:36	0		0		0			
394	12/6/2012 14:37	0		0		0			
395	12/6/2012 14:38	0		0		0			
396	12/6/2012 14:39	0		0		0			
397	12/6/2012 14:40	0		0		0			
398	12/6/2012 14:41	0		0		0		0.0	
399	12/6/2012 14:42	0		0		0			
400	12/6/2012 14:43	0		0		0			
401	12/6/2012 14:44	0		0		0			Drilling
402	12/6/2012 14:45	0		0		0			GTB-20
403	12/6/2012 14:46	0		0		0.9			
404	12/6/2012 14:47	0		0		0			
405	12/6/2012 14:48	0		0		0			
406	12/6/2012 14:49	0		0		0			
407	12/6/2012 14:50	0		0		0			
408	12/6/2012 14:51	0		0		0			
409	12/6/2012 14:52	0		0		0			
410	12/6/2012 14:53	0		0		0			
411	12/6/2012 14:54	0		0		0			
412	12/6/2012 14:55	0		0		0			
413	12/6/2012 14:56	0		0		0		0.0	
414	12/6/2012 14:57	0		0		0			
415	12/6/2012 14:58	0		0		0			
416	12/6/2012 14:59	0		0		0			
417	12/6/2012 15:00	0		0		0			
418	12/6/2012 15:01	0		0		0			
419	12/6/2012 15:02	0		0		0			
420	12/6/2012 15:03	0		0		0			
421	12/6/2012 15:04	0		0		0			
422	12/6/2012 15:05	0		0		0			
423	12/6/2012 15:06	0		0		0			
424	12/6/2012 15:07	0		0		0			
425	12/6/2012 15:08	0		0		0			
426	12/6/2012 15:09	0		0		0			
427	12/6/2012 15:10	0		0		0			
428	12/6/2012 15:11	0		0		0		0.0	
429	12/6/2012 15:12	0		0		0			
430	12/6/2012 15:13	0		0		0			
431	12/6/2012 15:14	0		0		0			
432	12/6/2012 15:15	0		0		0			
433	12/6/2012 15:16	0		0		0			
434	12/6/2012 15:17	0		0		0			
435	12/6/2012 15:18	0		0		0			Backfilling hole
436	12/6/2012 15:19	0		0		0			and grouting,
437	12/6/2012 15:20	0		0		0			restore cover
438	12/6/2012 15:21	0		0		0			conditions
439	12/6/2012 15:22	0		0		0			
440	12/6/2012 15:23	0		0		0			
441	12/6/2012 15:24	0		0		0			
442	12/6/2012 15:25	0		0		0		0.0	
443	12/6/2012 15:26	0		0		0			
444	12/6/2012 15:27	0		0		0			
445	12/6/2012 15:28	0		0		0			
446	12/6/2012 15:29	0		0		0			
447	12/6/2012 15:30	0		0		0			Shut down air
448	12/6/2012 15:31	0		0		0			monitors



Model Number	DataRAM 4	Temp. Units	F
Serial No.	D147 !	Max Mass	46.35458
Device No.	1	Max Mass @	24 - 8:05:10
Tag Number	10	Avg Mass	23.45931
Start Time	7:41:10	Max Diam	2.487437
Start Date	7-Dec-12	Max Diam @	49 - 8:30:10
Log Period	0:01:00	Avg Diam	1.51967
Number	107	Alarm	ENABLED
Cal. Factor	1	Alarm Level	100
Unit	0	Auto Zero	DISABLED
Unit Name	(MASS) ug/m3	AZ Interval	1
Size Correct	DISABLED	Errors	0

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
1	15.1	67.7	33	0.8178	7:42:10	7-Dec-12	23.5	
2	16.8	67.5	32	1.6865	7:43:10	7-Dec-12		
3	19.1	67.4	31	1.8842	7:44:10	7-Dec-12		
4	19.9	67.2	31	1.5109	7:45:10	7-Dec-12		
5	20	67	30	1.499	7:46:10	7-Dec-12		
6	20.3	66.8	30	1.6233	7:47:10	7-Dec-12		
7	25.4	66.6	29	1.4397	7:48:10	7-Dec-12		
8	30.3	66.4	29	1.0781	7:49:10	7-Dec-12		
9	29.9	66.3	29	1.0623	7:50:10	7-Dec-12		
10	28.2	66.1	29	1.4441	7:51:10	7-Dec-12		
11	28.1	65.8	29	1.1799	7:52:10	7-Dec-12		
12	27.8	65.7	28	0.9571	7:53:10	7-Dec-12		
13	25.2	65.5	28	1.0238	7:54:10	7-Dec-12		
14	24.4	65.3	28	1.0321	7:55:10	7-Dec-12		
15	21.5	65.2	28	1.1035	7:56:10	7-Dec-12		
16	25	64.9	28	1.1251	7:57:10	7-Dec-12		
17	20.8	64.7	28	1.0833	7:58:10	7-Dec-12		
18	16.7	64.6	28	1.1744	7:59:10	7-Dec-12		
19	16.7	64.4	28	1.3464	8:00:10	7-Dec-12		
20	21.2	64.2	28	1.4264	8:01:10	7-Dec-12		
21	24.8	64	28	1.1878	8:02:10	7-Dec-12		
22	26.8	63.9	28	1.2516	8:03:10	7-Dec-12		
23	27.4	63.7	28	1.3174	8:04:10	7-Dec-12		
24	46.4	63.5	28	1.0683	8:05:10	7-Dec-12		
25	25.6	63.3	29	1.346	8:06:10	7-Dec-12		
26	25.8	63.1	29	1.3975	8:07:10	7-Dec-12		
27	26.5	62.9	29	1.3667	8:08:10	7-Dec-12		
28	27.3	62.7	29	1.6485	8:09:10	7-Dec-12		
29	26.6	62.6	29	1.7882	8:10:10	7-Dec-12		
30	23.9	62.3	29	1.9394	8:11:10	7-Dec-12		
31	21.6	62.1	29	1.819	8:12:10	7-Dec-12		
32	18	61.9	29	1.6259	8:13:10	7-Dec-12		
33	15.5	61.8	29	1.3736	8:14:10	7-Dec-12		
34	15.6	61.5	29	1.5825	8:15:10	7-Dec-12		
35	16.2	61.3	29	1.5127	8:16:10	7-Dec-12		
36	15.2	61.1	29	1.4882	8:17:10	7-Dec-12		
37	15.8	61	29	1.205	8:18:10	7-Dec-12		
38	17.3	60.8	29	1.33	8:19:10	7-Dec-12		
39	17.9	60.6	30	1.3778	8:20:10	7-Dec-12		
40	17.6	60.4	30	1.1933	8:21:10	7-Dec-12		
41	17.7	60.2	30	1.2692	8:22:10	7-Dec-12		
42	17.9	60.1	30	1.4528	8:23:10	7-Dec-12		
43	16.3	59.9	30	1.2576	8:24:10	7-Dec-12		
44	15.8	59.7	31	1.3884	8:25:10	7-Dec-12		
45	15.1	59.5	31	1.3174	8:26:10	7-Dec-12		
46	16.1	59.3	31	1.6538	8:27:10	7-Dec-12		
47	30.8	59.2	31	1.3263	8:28:10	7-Dec-12		
48	19.5	59	31	1.7539	8:29:10	7-Dec-12		
49	26.1	58.9	31	2.4874	8:30:10	7-Dec-12		
50	24.8	58.6	32	1.5232	8:31:10	7-Dec-12		
51	22.3	58.5	32	1.3451	8:32:10	7-Dec-12		
52	18.6	58.3	32	1.8463	8:33:10	7-Dec-12		
53	17	58.2	32	1.6906	8:34:10	7-Dec-12		
54	17.6	58.1	32	2.0364	8:35:10	7-Dec-12		
55	17.3	57.9	32	2.0379	8:36:10	7-Dec-12		
56	18.2	57.7	32	1.6775	8:37:10	7-Dec-12		
57	18.1	57.6	33	1.4778	8:38:10	7-Dec-12		
58	19.2	57.5	33	1.813	8:39:10	7-Dec-12		
59	17.8	57.3	33	1.7709	8:40:10	7-Dec-12		
60	21.8	57.2	33	2.4754	8:41:10	7-Dec-12		
61	21.3	57.1	34	1.7895	8:42:10	7-Dec-12		
62	19.7	56.8	34	1.8679	8:43:10	7-Dec-12		
63	17.2	56.8	34	1.571	8:44:10	7-Dec-12		
64	17.3	56.6	34	1.4708	8:45:10	7-Dec-12		
65	20.8	56.5	34	1.9615	8:46:10	7-Dec-12		
66	20.8	56.4	34	1.2651	8:47:10	7-Dec-12		
67	22.2	56.3	34	1.466	8:48:10	7-Dec-12		
68	23	56.2	34	1.416	8:49:10	7-Dec-12		
69	23.9	56	35	1.622	8:50:10	7-Dec-12		
70	22.6	55.8	35	1.4736	8:51:10	7-Dec-12		
71	23.6	55.7	35	1.5415	8:52:10	7-Dec-12		
72	23.2	55.7	35	1.4248	8:53:10	7-Dec-12		
73	22.6	55.5	35	1.5438	8:54:10	7-Dec-12		
74	22.4	55.4	35	1.3888	8:55:10	7-Dec-12		
75	22.9	55.3	35	1.3663	8:56:10	7-Dec-12		

Digging down to demarcation layer with backhoe and backfilling hole around auger

Drilling GTB-21

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
76	22.5	55.1	35	1.2394	8:57:10	7-Dec-12	26.6	Drilling GTB-21
77	21.6	55	36	1.1871	8:58:10	7-Dec-12		
78	22.2	54.9	36	1.4172	8:59:10	7-Dec-12		
79	23.2	54.7	36	1.7315	9:00:10	7-Dec-12		
80	25.5	54.6	36	1.291	9:01:10	7-Dec-12		
81	30.6	54.5	36	2.3991	9:02:10	7-Dec-12		
82	25.7	54.4	37	1.5528	9:03:10	7-Dec-12		
83	25.2	54.2	37	1.7237	9:04:10	7-Dec-12		
84	26.1	54.1	37	1.5023	9:05:10	7-Dec-12		
85	33.7	54	37	2.4068	9:06:10	7-Dec-12		
86	28.6	53.9	37	1.6261	9:07:10	7-Dec-12		
87	25.6	53.8	37	1.52	9:08:10	7-Dec-12		
88	23.4	53.7	38	1.4849	9:09:10	7-Dec-12		
89	28	53.6	38	1.3006	9:10:10	7-Dec-12		
90	37.8	53.5	38	1.4535	9:11:10	7-Dec-12		
91	37.5	53.4	38	1.2376	9:12:10	7-Dec-12		
92	32.9	53.3	39	1.2345	9:13:10	7-Dec-12		
93	32.5	53.2	38	1.4445	9:14:10	7-Dec-12		
94	27.6	53.1	39	1.4281	9:15:10	7-Dec-12		
95	27.7	53	39	1.5211	9:16:10	7-Dec-12		
96	30.3	53	39	1.6326	9:17:10	7-Dec-12		
97	33.7	52.9	39	1.6746	9:18:10	7-Dec-12		
98	31	52.8	39	1.7431	9:19:10	7-Dec-12		
99	33.8	52.8	40	1.9702	9:20:10	7-Dec-12		
100	29.3	52.7	40	1.9455	9:21:10	7-Dec-12		
101	25.7	52.6	40	1.7193	9:22:10	7-Dec-12		
102	25.4	52.6	40	1.5935	9:23:10	7-Dec-12		
103	25	52.5	40	1.4868	9:24:10	7-Dec-12		
104	24.6	52.4	40	1.5007	9:25:10	7-Dec-12		
105	28.1	52.3	40	2.0965	9:26:10	7-Dec-12		
106	25.6	52.2	41	1.989	9:27:10	7-Dec-12		
107	23.8	52.2	41	1.4644	9:28:10	7-Dec-12		

Instrument: MiniRAE 2000  
 User ID: 00000001  
 Data Points: 106  
 Last Calibration Time: 11/16/2012 16:38

Serial Number: 005343  
 Site ID: 00000137  
 Sample Period: 60 sec  
 Gas Name: Isobutylene

Measurement Type: Min (ppm) Avg (ppm) Max (ppm)  
 High Alarm Levels: 100 100 100  
 Low Alarm Levels: 50 50 50

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
1	12/7/2012 7:40	0		0		0			
2	12/7/2012 7:41	0		0		0			
3	12/7/2012 7:42	0		0		0			
4	12/7/2012 7:43	0		0		0			
5	12/7/2012 7:44	0		0		0			
6	12/7/2012 7:45	0		0		0			
7	12/7/2012 7:46	0		0		0			
8	12/7/2012 7:47	0		0		0		0.0	
9	12/7/2012 7:48	0		0		0			
10	12/7/2012 7:49	0		0		0			
11	12/7/2012 7:50	0		0		0			
12	12/7/2012 7:51	0		0		0			
13	12/7/2012 7:52	0		0		0			
14	12/7/2012 7:53	0		0		0			
15	12/7/2012 7:54	0		0		0			
16	12/7/2012 7:55	0		0		0			
17	12/7/2012 7:56	0		0		0			
18	12/7/2012 7:57	0		0		0			
19	12/7/2012 7:58	0		0		0			
20	12/7/2012 7:59	0		0		0			
21	12/7/2012 8:00	0		0		0			
22	12/7/2012 8:01	0		0		0			
23	12/7/2012 8:02	0		0		0		0.0	
24	12/7/2012 8:03	0		0		0			
25	12/7/2012 8:04	0		0		0			
26	12/7/2012 8:05	0		0		0			
27	12/7/2012 8:06	0		0		0			
28	12/7/2012 8:07	0		0		0			
29	12/7/2012 8:08	0		0		0			
30	12/7/2012 8:09	0		0		0			
31	12/7/2012 8:10	0		0		0			
32	12/7/2012 8:11	0		0		0			
33	12/7/2012 8:12	0		0		0			
34	12/7/2012 8:13	0		0		0			
35	12/7/2012 8:14	0		0		0			
36	12/7/2012 8:15	0		0		0			
37	12/7/2012 8:16	0		0		0			
38	12/7/2012 8:17	0		0		0		0.0	
39	12/7/2012 8:18	0		0		0			
40	12/7/2012 8:19	0		0		0			
41	12/7/2012 8:20	0		0		0			
42	12/7/2012 8:21	0		0		0			
43	12/7/2012 8:22	0		0		0			
44	12/7/2012 8:23	0		0		0			
45	12/7/2012 8:24	0		0		0			
46	12/7/2012 8:25	0		0		0			
47	12/7/2012 8:26	0		0		0			
48	12/7/2012 8:27	0		0		0			
49	12/7/2012 8:28	0		0		0			
50	12/7/2012 8:29	0		0		0			
51	12/7/2012 8:30	0		0		0			
52	12/7/2012 8:31	0		0		0			
53	12/7/2012 8:32	0		0		0		0.0	
54	12/7/2012 8:33	0		0		0			
55	12/7/2012 8:34	0		0		0			
56	12/7/2012 8:35	0		0		0			
57	12/7/2012 8:36	0		0		0			
58	12/7/2012 8:37	0		0		0			
59	12/7/2012 8:38	0		0		0			
60	12/7/2012 8:39	0		0		0			
61	12/7/2012 8:40	0		0		0			
62	12/7/2012 8:41	0		0		0			
63	12/7/2012 8:42	0		0		0			
64	12/7/2012 8:43	0		0		0			
65	12/7/2012 8:44	0		0		0			
66	12/7/2012 8:45	0		0		0			
67	12/7/2012 8:46	0		0		0			
68	12/7/2012 8:47	0		0		0		0.0	
69	12/7/2012 8:48	0		0		0			
70	12/7/2012 8:49	0		0		0			
71	12/7/2012 8:50	0		0		0			
72	12/7/2012 8:51	0		0		0			
73	12/7/2012 8:52	0		0		0			
74	12/7/2012 8:53	0		0		0			
75	12/7/2012 8:54	0		0		0			

Digging down to demarcation layer with backhoe and backfilling hole around augers

Drilling GTB-21

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
76	12/7/2012 8:55	0		0		0			
77	12/7/2012 8:56	0		0		0			
78	12/7/2012 8:57	0		0		0			
79	12/7/2012 8:58	0		0		0			
80	12/7/2012 8:59	0		0		0			
81	12/7/2012 9:00	0		0		0			
82	12/7/2012 9:01	0		0		0			
83	12/7/2012 9:02	0		0		0		0.0	
84	12/7/2012 9:03	0		0		0			
85	12/7/2012 9:04	0		0		0			
86	12/7/2012 9:05	0		0		0			
87	12/7/2012 9:06	0		0		0			
88	12/7/2012 9:07	0		0		0			
89	12/7/2012 9:08	0		0		0			Drilling
90	12/7/2012 9:09	0		0		0			GTB-21
91	12/7/2012 9:10	0		0		0			
92	12/7/2012 9:11	0		0		0			
93	12/7/2012 9:12	0		0		0			
94	12/7/2012 9:13	0		0		0			
95	12/7/2012 9:14	0		0		0			
96	12/7/2012 9:15	0		0		0			
97	12/7/2012 9:16	0		0		0			
98	12/7/2012 9:17	0		0		0		0.0	
99	12/7/2012 9:18	0		0		0			
100	12/7/2012 9:19	0		0		0			
101	12/7/2012 9:20	0		0		0			
102	12/7/2012 9:21	0		0		0			
103	12/7/2012 9:22	0		0		0			
104	12/7/2012 9:23	0		0		0			
105	12/7/2012 9:24	0		0		0			Shut down air
106	12/7/2012 9:25	0		0		0		0.0	monitors due to increasing rain

Model Number	DataRAM 4	Temp. Units	F
Serial No.	D147 !	Max Mass	166.1184
Device No.	1	Max Mass @	79 - 9:30:33
Tag Number	11	Avg Mass	11.92845
Start Time	8:12:33	Max Diam	3.997561
Start Date	12-Dec-12	Max Diam @	358 - 14:10:33
Log Period	0:01:00	Avg Diam	0.739582
Number	410	Alarm	ENABLED
Cal. Factor	1	Alarm Level	100
Unit	0	Auto Zero	DISABLED
Unit Name	(MASS) ug/m3	AZ Interval	1
Size Correct	DISABLED	Errors	0

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
1	14.7	37	51	0.7504	8:13:33	12-Dec-12	19.5	Drilling GTB-28
2	21.4	37.1	52	1.2639	8:14:33	12-Dec-12		
3	19.6	37.1	53	1.4378	8:15:33	12-Dec-12		
4	18.1	37.2	53	1.3678	8:16:33	12-Dec-12		
5	18.3	37.2	54	1.1464	8:17:33	12-Dec-12		
6	20.4	37.2	55	1.4782	8:18:33	12-Dec-12		
7	21.1	37.3	56	1.6634	8:19:33	12-Dec-12		
8	21.7	37.2	57	1.5073	8:20:33	12-Dec-12		
9	24.4	37.3	57	1.2946	8:21:33	12-Dec-12		
10	24.1	37.3	58	1.3851	8:22:33	12-Dec-12		
11	23.5	37.3	58	1.6164	8:23:33	12-Dec-12		
12	18.7	37.3	59	1.5315	8:24:33	12-Dec-12		
13	14	37.3	59	0.9208	8:25:33	12-Dec-12		
14	14.8	37.3	59	0.8495	8:26:33	12-Dec-12		
15	17.4	37.3	60	1.1306	8:27:33	12-Dec-12		
16	15.4	37.3	60	0.9994	8:28:33	12-Dec-12		
17	13.8	37.4	60	0.8022	8:29:33	12-Dec-12		
18	16.7	37.4	60	0.925	8:30:33	12-Dec-12		
19	15.5	37.4	60	0.9848	8:31:33	12-Dec-12		
20	14.4	37.4	61	0.9205	8:32:33	12-Dec-12		
21	14.3	37.4	61	0.8914	8:33:33	12-Dec-12		
22	13.6	37.5	61	0.8077	8:34:33	12-Dec-12		
23	13.8	37.5	61	0.7749	8:35:33	12-Dec-12		
24	14.1	37.5	61	0.7897	8:36:33	12-Dec-12		
25	22.4	37.5	61	0.9261	8:37:33	12-Dec-12		
26	14.6	37.5	61	0.9059	8:38:33	12-Dec-12		
27	13.2	37.5	61	0.7395	8:39:33	12-Dec-12		
28	13.9	37.6	61	0.8508	8:40:33	12-Dec-12		
29	14.4	37.6	61	0.8089	8:41:33	12-Dec-12		
30	13.2	37.6	61	0.8121	8:42:33	12-Dec-12		
31	13	37.7	61	0.8432	8:43:33	12-Dec-12		
32	13.4	37.7	62	0.8137	8:44:33	12-Dec-12		
33	13	37.7	62	0.837	8:45:33	12-Dec-12		
34	13.1	37.7	61	0.7989	8:46:33	12-Dec-12		
35	12.6	37.7	61	0.7802	8:47:33	12-Dec-12		
36	12.2	37.8	61	0.7254	8:48:33	12-Dec-12		
37	12.2	37.8	62	0.7595	8:49:33	12-Dec-12		
38	11.9	37.8	61	0.7567	8:50:33	12-Dec-12		
39	12.7	37.9	61	0.7796	8:51:33	12-Dec-12		
40	12.6	37.9	61	0.7405	8:52:33	12-Dec-12		
41	12.5	37.9	61	0.7411	8:53:33	12-Dec-12		
42	12.7	38	61	0.6997	8:54:33	12-Dec-12		
43	11.9	38	61	0.7318	8:55:33	12-Dec-12		
44	12.1	38.1	61	0.7278	8:56:33	12-Dec-12		
45	12.6	38.1	61	0.7205	8:57:33	12-Dec-12		
46	12.6	38.2	61	0.6913	8:58:33	12-Dec-12		
47	12.9	38.2	61	0.7661	8:59:33	12-Dec-12		
48	13.6	38.2	61	0.8907	9:00:33	12-Dec-12		
49	12.3	38.3	61	0.7672	9:01:33	12-Dec-12		
50	12.1	38.3	61	0.71	9:02:33	12-Dec-12		
51	11.3	38.4	61	0.6533	9:03:33	12-Dec-12		
52	11.3	38.4	61	0.7242	9:04:33	12-Dec-12		
53	10.8	38.4	61	0.7123	9:05:33	12-Dec-12		
54	11.3	38.4	61	0.7307	9:06:33	12-Dec-12		
55	11.4	38.5	61	0.746	9:07:33	12-Dec-12		
56	9.7	38.5	61	0.6482	9:08:33	12-Dec-12		
57	9.3	38.6	61	0.6469	9:09:33	12-Dec-12		
58	8.7	38.6	60	0.6226	9:10:33	12-Dec-12		
59	9.1	38.6	60	0.6214	9:11:33	12-Dec-12		
60	9.1	38.7	60	0.646	9:12:33	12-Dec-12		
61	8.7	38.7	60	0.62	9:13:33	12-Dec-12		
62	8.7	38.7	60	0.6147	9:14:33	12-Dec-12		
63	8.6	38.8	60	0.5784	9:15:33	12-Dec-12		
64	8.5	38.8	60	0.6126	9:16:33	12-Dec-12		
65	9	38.8	60	0.6183	9:17:33	12-Dec-12		
66	9.1	38.9	60	0.6246	9:18:33	12-Dec-12		
67	9.8	38.9	60	0.7407	9:19:33	12-Dec-12		
68	9.4	39	60	0.6765	9:20:33	12-Dec-12		
69	8.7	39	60	0.6079	9:21:33	12-Dec-12		
70	8.3	39.1	60	0.5553	9:22:33	12-Dec-12		
71	7.9	39.1	59	0.5834	9:23:33	12-Dec-12		
72	8	39.2	59	0.5807	9:24:33	12-Dec-12		
73	7.8	39.2	59	0.5776	9:25:33	12-Dec-12		
74	8.3	39.2	59	0.5528	9:26:33	12-Dec-12		
75	9.2	39.3	59	0.687	9:27:33	12-Dec-12		

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
76	8.8	39.3	59	0.6576	9:28:33	12-Dec-12	21.9	
77	23	39.3	59	0.7051	9:29:33	12-Dec-12		
78	166.1	39.3	59	0.6384	9:30:33	12-Dec-12		
79	19.5	39.3	59	0.7644	9:31:33	12-Dec-12		
80	11.5	39.4	59	0.767	9:32:33	12-Dec-12		
81	9.5	39.5	59	0.694	9:33:33	12-Dec-12		
82	10.2	39.5	59	0.8061	9:34:33	12-Dec-12		
83	9.1	39.5	59	0.6662	9:35:33	12-Dec-12		
84	10.3	39.5	59	0.8162	9:36:33	12-Dec-12		
85	9.1	39.6	59	0.7101	9:37:33	12-Dec-12		
86	9.2	39.6	59	0.6273	9:38:33	12-Dec-12		
87	8.9	39.7	58	0.7041	9:39:33	12-Dec-12		
88	16.1	39.7	59	0.7036	9:40:33	12-Dec-12		
89	9.4	39.7	59	0.6059	9:41:33	12-Dec-12		
90	8.2	39.8	58	0.5772	9:42:33	12-Dec-12		
91	8.4	39.8	58	0.6166	9:43:33	12-Dec-12		
92	8.4	40	59	0.5968	9:44:33	12-Dec-12		
93	9.5	40	58	0.6439	9:45:33	12-Dec-12		
94	9.3	40.1	58	0.6298	9:46:33	12-Dec-12		
95	8.7	40.1	58	0.6203	9:47:33	12-Dec-12		
96	9	40.1	58	0.6764	9:48:33	12-Dec-12		
97	7.7	40.2	58	0.6091	9:49:33	12-Dec-12		
98	8	40.2	58	0.6213	9:50:33	12-Dec-12		
99	7.6	40.2	58	0.5808	9:51:33	12-Dec-12		
100	7	40.3	58	0.5629	9:52:33	12-Dec-12		
101	7.1	40.4	58	0.5388	9:53:33	12-Dec-12		
102	9.7	40.4	58	0.7459	9:54:33	12-Dec-12		
103	8.7	40.4	58	0.7198	9:55:33	12-Dec-12		
104	7.8	40.5	58	0.5851	9:56:33	12-Dec-12		
105	7.7	40.5	58	0.6073	9:57:33	12-Dec-12		
106	7.6	40.6	58	0.56	9:58:33	12-Dec-12		
107	7.3	40.7	58	0.5746	9:59:33	12-Dec-12		
108	8.1	40.7	57	0.605	10:00:33	12-Dec-12		
109	8.3	40.8	57	0.5049	10:01:33	12-Dec-12		
110	11	40.9	57	0.57	10:02:33	12-Dec-12		
111	9.4	40.9	57	0.5541	10:03:33	12-Dec-12		
112	8.2	41	57	0.5782	10:04:33	12-Dec-12		
113	8.1	41.1	57	0.6906	10:05:33	12-Dec-12		
114	7.3	41.1	56	0.569	10:06:33	12-Dec-12		
115	93.2	41.1	56	0.5422	10:07:33	12-Dec-12		
116	15.6	41.2	56	0.6013	10:08:33	12-Dec-12		
117	7.5	41.3	56	0.5461	10:09:33	12-Dec-12		
118	7	41.3	56	0.5566	10:10:33	12-Dec-12		
119	7	41.3	56	0.5888	10:11:33	12-Dec-12		
120	6.8	41.4	56	0.5372	10:12:33	12-Dec-12		
121	7.9	41.4	56	0.6511	10:13:33	12-Dec-12		
122	8	41.5	56	0.6526	10:14:33	12-Dec-12		
123	7.4	41.5	56	0.5796	10:15:33	12-Dec-12		
124	6.9	41.6	55	0.5167	10:16:33	12-Dec-12		
125	6.7	41.7	55	0.5044	10:17:33	12-Dec-12		
126	7.5	41.8	55	0.5607	10:18:33	12-Dec-12		
127	7.3	41.8	55	0.6389	10:19:33	12-Dec-12		
128	6.8	41.9	55	0.5274	10:20:33	12-Dec-12		
129	10.2	41.9	55	0.6599	10:21:33	12-Dec-12		
130	18.8	42	55	1.1264	10:22:33	12-Dec-12		
131	8.5	42	55	0.7279	10:23:33	12-Dec-12		
132	7.1	42.1	55	0.6312	10:24:33	12-Dec-12		
133	6.8	42.1	55	0.5353	10:25:33	12-Dec-12		
134	7.8	42.2	54	0.6079	10:26:33	12-Dec-12		
135	7.2	42.2	54	0.563	10:27:33	12-Dec-12		
136	7.2	42.3	54	0.6587	10:28:33	12-Dec-12		
137	7	42.3	54	0.5843	10:29:33	12-Dec-12		
138	7	42.4	54	0.5536	10:30:33	12-Dec-12		
139	8.3	42.5	54	0.6596	10:31:33	12-Dec-12		
140	7.6	42.5	54	0.597	10:32:33	12-Dec-12		
141	7.5	42.6	54	0.5564	10:33:33	12-Dec-12		
142	7.4	42.7	54	0.5751	10:34:33	12-Dec-12		
143	7.1	42.7	54	0.526	10:35:33	12-Dec-12		
144	7.1	42.8	54	0.5978	10:36:33	12-Dec-12		
145	7.3	42.9	53	0.5414	10:37:33	12-Dec-12		
146	8.3	42.9	53	0.7168	10:38:33	12-Dec-12		
147	6.8	43	53	0.5304	10:39:33	12-Dec-12		
148	7.1	43	53	0.4754	10:40:33	12-Dec-12		
149	7.3	43.1	53	0.53	10:41:33	12-Dec-12		
150	7.8	43.1	53	0.5934	10:42:33	12-Dec-12		

Offsite, left air monitors running, drillers completed GTB-29 while gone and did not start another boring

Drilling GTB-30

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
151	7.9	43.2	53	0.5477	10:43:33	12-Dec-12	8.2	Drilling GTB-30
152	9.2	43.2	53	0.7203	10:44:33	12-Dec-12		
153	8.5	43.3	53	0.6232	10:45:33	12-Dec-12		
154	8.8	43.3	53	0.6328	10:46:33	12-Dec-12		
155	8.2	43.4	53	0.6364	10:47:33	12-Dec-12		
156	7.3	43.5	53	0.5657	10:48:33	12-Dec-12		
157	7.1	43.6	52	0.5439	10:49:33	12-Dec-12		
158	8	43.6	52	0.567	10:50:33	12-Dec-12		
159	9.6	43.6	53	0.6359	10:51:33	12-Dec-12		
160	8.6	43.7	52	0.6045	10:52:33	12-Dec-12		
161	8.5	43.8	52	0.6103	10:53:33	12-Dec-12		
162	7.9	43.8	52	0.6287	10:54:33	12-Dec-12		
163	7.8	43.9	52	0.5948	10:55:33	12-Dec-12		
164	8.3	43.9	52	0.6125	10:56:33	12-Dec-12		
165	8	44	52	0.5796	10:57:33	12-Dec-12		
166	8.1	44	52	0.5455	10:58:33	12-Dec-12		
167	7.5	44.1	52	0.5243	10:59:33	12-Dec-12		
168	7.5	44.1	52	0.4957	11:00:33	12-Dec-12		
169	7.5	44.2	52	0.5382	11:01:33	12-Dec-12		
170	8.1	44.2	52	0.5848	11:02:33	12-Dec-12		
171	10	44.3	52	0.8131	11:03:33	12-Dec-12		
172	7.4	44.4	52	0.5162	11:04:33	12-Dec-12		
173	7.5	44.5	52	0.4975	11:05:33	12-Dec-12		
174	7.6	44.5	51	0.4976	11:06:33	12-Dec-12		
175	8.2	44.6	51	0.5781	11:07:33	12-Dec-12		
176	7.8	44.6	51	0.5758	11:08:33	12-Dec-12		
177	8.7	44.7	51	0.6651	11:09:33	12-Dec-12		
178	7.9	44.7	51	0.5986	11:10:33	12-Dec-12		
179	7.9	44.7	51	0.5796	11:11:33	12-Dec-12		
180	7.8	44.8	51	0.5466	11:12:33	12-Dec-12		
181	7.7	44.9	51	0.5582	11:13:33	12-Dec-12		
182	7.4	44.9	51	0.5051	11:14:33	12-Dec-12		
183	7.3	44.9	51	0.5638	11:15:33	12-Dec-12		
184	8.2	45	51	0.5885	11:16:33	12-Dec-12		
185	7.6	45	51	0.5158	11:17:33	12-Dec-12		
186	7.4	45	50	0.5216	11:18:33	12-Dec-12		
187	7.9	45.1	50	0.5203	11:19:33	12-Dec-12		
188	7.8	45.1	50	0.5989	11:20:33	12-Dec-12		
189	9.7	45.2	50	0.7654	11:21:33	12-Dec-12		
190	8.3	45.3	50	0.6878	11:22:33	12-Dec-12		
191	8.1	45.4	50	0.6195	11:23:33	12-Dec-12		
192	8.2	45.4	50	0.577	11:24:33	12-Dec-12		
193	8	45.4	50	0.5416	11:25:33	12-Dec-12		
194	8.4	45.5	50	0.5529	11:26:33	12-Dec-12		
195	8.5	45.6	50	0.6522	11:27:33	12-Dec-12		
196	8.2	45.6	50	0.5184	11:28:33	12-Dec-12		
197	7.7	45.6	50	0.5212	11:29:33	12-Dec-12		
198	8.3	45.7	50	0.5538	11:30:33	12-Dec-12		
199	8.1	45.7	50	0.5439	11:31:33	12-Dec-12		
200	8.1	45.7	50	0.5915	11:32:33	12-Dec-12		
201	8.2	45.7	49	0.5595	11:33:33	12-Dec-12		
202	8.6	45.8	49	0.5358	11:34:33	12-Dec-12		
203	8.8	45.8	50	0.6162	11:35:33	12-Dec-12		
204	9.4	45.9	49	0.6929	11:36:33	12-Dec-12		
205	9.2	45.9	49	0.6492	11:37:33	12-Dec-12		
206	8.1	45.9	49	0.6357	11:38:33	12-Dec-12		
207	8.1	46	49	0.5821	11:39:33	12-Dec-12		
208	8	46	49	0.5971	11:40:33	12-Dec-12		
209	8	46	49	0.6097	11:41:33	12-Dec-12		
210	7.7	46.1	49	0.5459	11:42:33	12-Dec-12		
211	7.9	46.1	49	0.5219	11:43:33	12-Dec-12		
212	8.1	46.2	49	0.5349	11:44:33	12-Dec-12		
213	11.6	46.2	49	0.7625	11:45:33	12-Dec-12		
214	10.9	46.3	49	0.912	11:46:33	12-Dec-12		
215	8.5	46.3	49	0.6534	11:47:33	12-Dec-12		
216	10.4	46.3	49	0.7082	11:48:33	12-Dec-12		
217	8.4	46.4	49	0.7225	11:49:33	12-Dec-12		
218	7.8	46.4	49	0.5764	11:50:33	12-Dec-12		
219	8.4	46.4	49	0.6949	11:51:33	12-Dec-12		
220	8.7	46.5	48	0.7766	11:52:33	12-Dec-12		
221	7.7	46.5	48	0.6174	11:53:33	12-Dec-12		
222	6.8	46.5	48	0.4948	11:54:33	12-Dec-12		
223	7	46.6	48	0.5042	11:55:33	12-Dec-12		
224	7.2	46.6	48	0.5017	11:56:33	12-Dec-12		
225	8	46.6	48	0.5613	11:57:33	12-Dec-12		

Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
226	7.3	46.7	48	0.5078	11:58:33	12-Dec-12	7.2	Coring GTB-30
227	7	46.7	48	0.4877	11:59:33	12-Dec-12		
228	6.5	46.7	47	0.455	12:00:33	12-Dec-12		
229	7.4	46.7	47	0.4871	12:01:33	12-Dec-12		
230	7.6	46.7	47	0.5527	12:02:33	12-Dec-12		
231	7.3	46.8	47	0.5065	12:03:33	12-Dec-12		
232	7.6	46.8	47	0.5752	12:04:33	12-Dec-12		
233	7.3	46.8	47	0.5811	12:05:33	12-Dec-12		
234	7.7	46.8	47	0.5483	12:06:33	12-Dec-12		
235	7.5	46.8	47	0.6101	12:07:33	12-Dec-12		
236	7.4	46.9	47	0.5908	12:08:33	12-Dec-12		
237	6.7	46.9	47	0.5014	12:09:33	12-Dec-12		
238	6.7	46.9	46	0.4785	12:10:33	12-Dec-12		
239	7.1	46.9	46	0.5446	12:11:33	12-Dec-12		
240	7.5	47	46	0.5849	12:12:33	12-Dec-12		
241	7.1	47	46	0.6055	12:13:33	12-Dec-12		
242	7	47	46	0.5682	12:14:33	12-Dec-12		
243	8.2	47.1	46	0.5451	12:15:33	12-Dec-12		
244	7.9	47.1	46	0.5825	12:16:33	12-Dec-12		
245	7.8	47.1	46	0.5553	12:17:33	12-Dec-12		
246	7.4	47.2	46	0.5496	12:18:33	12-Dec-12		
247	8.1	47.2	46	0.5633	12:19:33	12-Dec-12		
248	9	47.2	46	0.5602	12:20:33	12-Dec-12		
249	9	47.2	46	0.5962	12:21:33	12-Dec-12		
250	13.9	47.3	46	0.5879	12:22:33	12-Dec-12		
251	8.1	47.3	46	0.6024	12:23:33	12-Dec-12		
252	7.8	47.3	46	0.6066	12:24:33	12-Dec-12		
253	8.3	47.3	46	0.6103	12:25:33	12-Dec-12		
254	7.8	47.3	45	0.5424	12:26:33	12-Dec-12		
255	8	47.4	46	0.5637	12:27:33	12-Dec-12		
256	7.6	47.4	45	0.5362	12:28:33	12-Dec-12		
257	8.3	47.4	45	0.661	12:29:33	12-Dec-12		
258	7.6	47.4	45	0.5396	12:30:33	12-Dec-12		
259	7.3	47.4	45	0.5375	12:31:33	12-Dec-12		
260	7.6	47.4	45	0.546	12:32:33	12-Dec-12		
261	9.9	47.5	45	0.6155	12:33:33	12-Dec-12		
262	8	47.5	45	0.5266	12:34:33	12-Dec-12		
263	8.4	47.5	45	0.5362	12:35:33	12-Dec-12		
264	7.9	47.5	45	0.5785	12:36:33	12-Dec-12		
265	7.9	47.5	45	0.5629	12:37:33	12-Dec-12		
266	7.9	47.5	45	0.5299	12:38:33	12-Dec-12		
267	8	47.6	45	0.5298	12:39:33	12-Dec-12		
268	7.7	47.6	45	0.501	12:40:33	12-Dec-12		
269	9	47.6	45	0.5742	12:41:33	12-Dec-12		
270	9.9	47.6	45	0.7138	12:42:33	12-Dec-12		
271	8.7	47.6	45	0.648	12:43:33	12-Dec-12		
272	8.7	47.7	45	0.659	12:44:33	12-Dec-12		
273	8.8	47.7	45	0.6013	12:45:33	12-Dec-12		
274	9.3	47.7	45	0.6709	12:46:33	12-Dec-12		
275	8.4	47.7	45	0.5927	12:47:33	12-Dec-12		
276	8.3	47.7	45	0.5943	12:48:33	12-Dec-12		
277	8.2	47.8	44	0.6494	12:49:33	12-Dec-12		
278	8.3	47.8	45	0.5811	12:50:33	12-Dec-12		
279	9	47.8	44	0.6257	12:51:33	12-Dec-12		
280	8.9	47.8	44	0.6597	12:52:33	12-Dec-12		
281	8.5	47.8	44	0.5929	12:53:33	12-Dec-12		
282	8.2	47.8	44	0.5571	12:54:33	12-Dec-12		
283	29.8	47.9	44	0.6382	12:55:33	12-Dec-12		
284	8.4	47.9	44	0.596	12:56:33	12-Dec-12		
285	8.6	48	44	0.5714	12:57:33	12-Dec-12		
286	8.2	48	44	0.5597	12:58:33	12-Dec-12		
287	8.3	48.1	44	0.497	12:59:33	12-Dec-12		
288	10.3	48.1	44	0.5897	13:00:33	12-Dec-12		
289	8.2	48.1	44	0.6075	13:01:33	12-Dec-12		
290	8.6	48.2	44	0.5876	13:02:33	12-Dec-12		
291	8.8	48.2	44	0.5623	13:03:33	12-Dec-12		
292	9.3	48.3	44	0.5585	13:04:33	12-Dec-12		
293	8.8	48.3	44	0.6461	13:05:33	12-Dec-12		
294	8.3	48.3	44	0.5718	13:06:33	12-Dec-12		
295	8.5	48.4	44	0.6163	13:07:33	12-Dec-12		
296	8	48.5	44	0.57	13:08:33	12-Dec-12		
297	8.3	48.5	44	0.5476	13:09:33	12-Dec-12		
298	8.4	48.6	44	0.5377	13:10:33	12-Dec-12		
299	8.6	48.6	44	0.6307	13:11:33	12-Dec-12		
300	8.7	48.7	44	0.6195	13:12:33	12-Dec-12		





Record	Mass (ug/m3)	Temperature	Relative Humidity	Diameter	Time	Date	15-Minute Average	Activity
376	10.3	52.6	40	0.6628	14:28:33	12-Dec-12	12.3	Drilling GTB-31
377	11.2	52.6	40	0.6148	14:29:33	12-Dec-12		
378	9.3	52.7	40	0.6061	14:30:33	12-Dec-12		
379	12.3	52.7	39	0.675	14:31:33	12-Dec-12		
380	14.2	52.8	39	1.0542	14:32:33	12-Dec-12		
381	11.1	52.8	39	0.8779	14:33:33	12-Dec-12		
382	13.1	52.8	39	1.0769	14:34:33	12-Dec-12		
383	13.6	52.8	39	1.0561	14:35:33	12-Dec-12		
384	10.7	52.9	39	0.7422	14:36:33	12-Dec-12		
385	11.4	52.9	39	0.7584	14:37:33	12-Dec-12		
386	13.4	53	39	0.8489	14:38:33	12-Dec-12		
387	11.3	53	39	0.982	14:39:33	12-Dec-12		
388	9.8	53	39	0.6239	14:40:33	12-Dec-12		
389	15.9	53	39	0.626	14:41:33	12-Dec-12		
390	17.6	53	38	1.0847	14:42:33	12-Dec-12		
391	12.6	53	38	0.9795	14:43:33	12-Dec-12		
392	10	53	38	0.6535	14:44:33	12-Dec-12		
393	9.9	53	38	0.579	14:45:33	12-Dec-12		
394	10.5	53	38	0.6834	14:46:33	12-Dec-12		
395	10.1	53	38	0.6451	14:47:33	12-Dec-12		
396	10.1	53	38	0.6526	14:48:33	12-Dec-12		
397	10.6	53	38	0.6956	14:49:33	12-Dec-12		
398	10.4	53	38	0.6686	14:50:33	12-Dec-12		
399	11.1	53	38	0.6595	14:51:33	12-Dec-12		
400	12	53	38	0.7099	14:52:33	12-Dec-12		
401	11.9	53	38	0.7306	14:53:33	12-Dec-12		
402	10.4	53	38	0.6821	14:54:33	12-Dec-12		
403	10	53	38	0.6129	14:55:33	12-Dec-12		
404	11.1	53	38	0.7843	14:56:33	12-Dec-12		
405	11.1	53	38	0.8017	14:57:33	12-Dec-12		
406	10.9	53	38	0.6629	14:58:33	12-Dec-12		
407	21.4	52.9	38	0.7083	14:59:33	12-Dec-12		
408	16	52.9	38	0.7153	15:00:33	12-Dec-12		
409	14.8	52.9	38	0.8486	15:01:33	12-Dec-12		
410	14	52.9	38	2.4655	15:02:33	12-Dec-12		

Instrument: MiniRAE 2000  
 User ID: 00000001  
 Data Points: 406  
 Last Calibration Time: 11/16/2012 16:38

Serial Number: 005343  
 Site ID: 00000138  
 Sample Period: 60 sec  
 Gas Name: Isobutylene

Measurement Type: Min (ppm) Avg (ppm) Max (ppm)  
 High Alarm Levels: 100 100 100  
 Low Alarm Levels: 50 50 50

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
1	12/12/2012 8:14	0		0		0			
2	12/12/2012 8:15	0		0		0			
3	12/12/2012 8:16	0		0		0			
4	12/12/2012 8:17	0		0		0			
5	12/12/2012 8:18	0		0		0			
6	12/12/2012 8:19	0		0		0			
7	12/12/2012 8:20	0		0		0			
8	12/12/2012 8:21	0		0		0		0.0	
9	12/12/2012 8:22	0		0		0			
10	12/12/2012 8:23	0		0		0			Drilling and backfilling GTB-28
11	12/12/2012 8:24	0		0		0			
12	12/12/2012 8:25	0		0		0			
13	12/12/2012 8:26	0		0		0			
14	12/12/2012 8:27	0		0		0			
15	12/12/2012 8:28	0		0		0			
16	12/12/2012 8:29	0		0		0			
17	12/12/2012 8:30	0		0		0			
18	12/12/2012 8:31	0		0		0			
19	12/12/2012 8:32	0		0		0			
20	12/12/2012 8:33	0		0		0			
21	12/12/2012 8:34	0		0		0			
22	12/12/2012 8:35	0		0		0			
23	12/12/2012 8:36	0		0		0		0.0	
24	12/12/2012 8:37	0		0		0			
25	12/12/2012 8:38	0		0		0			
26	12/12/2012 8:39	0		0		0			
27	12/12/2012 8:40	0		0		0			
28	12/12/2012 8:41	0		0		0			Moving air monitors and rig to GTB-29
29	12/12/2012 8:42	0		0		0			
30	12/12/2012 8:43	0		0		0			
31	12/12/2012 8:44	0		0		0			
32	12/12/2012 8:45	0		0		0			
33	12/12/2012 8:46	0		0		0			
34	12/12/2012 8:47	0		0		0			
35	12/12/2012 8:48	0		0		0			
36	12/12/2012 8:49	0		0		0			
37	12/12/2012 8:50	0		0		0			
38	12/12/2012 8:51	0		0		0		0.0	
39	12/12/2012 8:52	0		0		0			
40	12/12/2012 8:53	0		0		0			
41	12/12/2012 8:54	0		0		0			
42	12/12/2012 8:55	0		0		0			
43	12/12/2012 8:56	0		0		0			
44	12/12/2012 8:57	0		0		0			
45	12/12/2012 8:58	0		0		0			
46	12/12/2012 8:59	0		0		0			
47	12/12/2012 9:00	0		0		0			
48	12/12/2012 9:01	0		0		0			
49	12/12/2012 9:02	0		0		0			
50	12/12/2012 9:03	0		0		0			
51	12/12/2012 9:04	0		0		0			
52	12/12/2012 9:05	0		0		0			
53	12/12/2012 9:06	0		0		0		0.0	
54	12/12/2012 9:07	0		0		0			
55	12/12/2012 9:08	0		0		0			
56	12/12/2012 9:09	0		0		0			Drilling GTB-29
57	12/12/2012 9:10	0		0		0			
58	12/12/2012 9:11	0		0		0			
59	12/12/2012 9:12	0		0		0			
60	12/12/2012 9:13	0		0		0			
61	12/12/2012 9:14	0		0		0			
62	12/12/2012 9:15	0		0		0			
63	12/12/2012 9:16	0		0		0			
64	12/12/2012 9:17	0		0		0			
65	12/12/2012 9:18	0		0		0			
66	12/12/2012 9:19	0		0		0			
67	12/12/2012 9:20	0		0		0			
68	12/12/2012 9:21	0		0		0		0.0	
69	12/12/2012 9:22	0		0		0			
70	12/12/2012 9:23	0		0		0			
71	12/12/2012 9:24	0		0		0			
72	12/12/2012 9:25	0		0		0			
73	12/12/2012 9:26	0		0		0			
74	12/12/2012 9:27	0		0		0			
75	12/12/2012 9:28	0		0		0			

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
76	12/12/2012 9:29	0		0		0			
77	12/12/2012 9:30	0		0		0			
78	12/12/2012 9:31	0		0		0			
79	12/12/2012 9:32	0		0		0			
80	12/12/2012 9:33	0		0		0			
81	12/12/2012 9:34	0		0		0			
82	12/12/2012 9:35	0		0		0			
83	12/12/2012 9:36	0		0		0		0.0	
84	12/12/2012 9:37	0		0		0			
85	12/12/2012 9:38	0		0		0			
86	12/12/2012 9:39	0		0		0			
87	12/12/2012 9:40	0		0		0			
88	12/12/2012 9:41	0		0		0			
89	12/12/2012 9:42	0		0		0			
90	12/12/2012 9:43	0		0		0			
91	12/12/2012 9:44	0		0		0			
92	12/12/2012 9:45	0		0		0			
93	12/12/2012 9:46	0		0		0			
94	12/12/2012 9:47	0		0		0			
95	12/12/2012 9:48	0		0		0			
96	12/12/2012 9:49	0		0		0			
97	12/12/2012 9:50	0		0		0			
98	12/12/2012 9:51	0		0		0		0.0	
99	12/12/2012 9:52	0		0		0			
100	12/12/2012 9:53	0		0		0			
101	12/12/2012 9:54	0		0		0			
102	12/12/2012 9:55	0		0		0			
103	12/12/2012 9:56	0		0		0			
104	12/12/2012 9:57	0		0		0			
105	12/12/2012 9:58	0		0		0			
106	12/12/2012 9:59	0		0		0			
107	12/12/2012 10:00	0		0		0			
108	12/12/2012 10:01	0		0		0			
109	12/12/2012 10:02	0		0		0			
110	12/12/2012 10:03	0		0		0			
111	12/12/2012 10:04	0		0		0			
112	12/12/2012 10:05	0		0		0			
113	12/12/2012 10:06	0		0		0		0.0	
114	12/12/2012 10:07	0		0		0.9			
115	12/12/2012 10:08	0		0		0			
116	12/12/2012 10:09	0		0		0			
117	12/12/2012 10:10	0		0		0			
118	12/12/2012 10:11	0		0		0			
119	12/12/2012 10:12	0		0		0			
120	12/12/2012 10:13	0		0		0			
121	12/12/2012 10:14	0		0		0			
122	12/12/2012 10:15	0		0		0			
123	12/12/2012 10:16	0		0		0			
124	12/12/2012 10:17	0		0		0			
125	12/12/2012 10:18	0		0		0			
126	12/12/2012 10:19	0		0		0			
127	12/12/2012 10:20	0		0		0			
128	12/12/2012 10:21	0		0		0.2		0.0	
129	12/12/2012 10:22	0		0		0			
130	12/12/2012 10:23	0		0		0			
131	12/12/2012 10:24	0		0		0			
132	12/12/2012 10:25	0		0		0			
133	12/12/2012 10:26	0		0		0			
134	12/12/2012 10:27	0		0		0			
135	12/12/2012 10:28	0		0		0			
136	12/12/2012 10:29	0		0		0			
137	12/12/2012 10:30	0		0		0			
138	12/12/2012 10:31	0		0		0			
139	12/12/2012 10:32	0		0		0			
140	12/12/2012 10:33	0		0		0			
141	12/12/2012 10:34	0		0		0			
142	12/12/2012 10:35	0		0		0			
143	12/12/2012 10:36	0		0		0		0.0	
144	12/12/2012 10:37	0		0		0			
145	12/12/2012 10:38	0		0		0			
146	12/12/2012 10:39	0		0		0			
147	12/12/2012 10:40	0		0		0			
148	12/12/2012 10:41	0		0		0			
149	12/12/2012 10:42	0		0		0			
150	12/12/2012 10:43	0		0		0			

Offsite, left air monitors running, drillers finished GTB-29 and did not start the next boring

Moving air monitors and rig to GTB-30

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
151	12/12/2012 10:44	0		0		0			
152	12/12/2012 10:45	0		0		0			
153	12/12/2012 10:46	0		0		0			
154	12/12/2012 10:47	0		0		0			
155	12/12/2012 10:48	0		0		0			
156	12/12/2012 10:49	0		0		0			
157	12/12/2012 10:50	0		0		0			
158	12/12/2012 10:51	0		0		0		0.0	
159	12/12/2012 10:52	0		0		0			
160	12/12/2012 10:53	0		0		0			
161	12/12/2012 10:54	0		0		0			
162	12/12/2012 10:55	0		0		0			
163	12/12/2012 10:56	0		0		0			
164	12/12/2012 10:57	0		0		0			
165	12/12/2012 10:58	0		0		0			
166	12/12/2012 10:59	0		0		0			
167	12/12/2012 11:00	0		0		0			
168	12/12/2012 11:01	0		0		0			Drilling
169	12/12/2012 11:02	0		0		0			GTB-30
170	12/12/2012 11:03	0		0		0			
171	12/12/2012 11:04	0		0		0			
172	12/12/2012 11:05	0		0		0			
173	12/12/2012 11:06	0		0		0		0.0	
174	12/12/2012 11:07	0		0		0			
175	12/12/2012 11:08	0		0		0			
176	12/12/2012 11:09	0		0		0			
177	12/12/2012 11:10	0		0		0			
178	12/12/2012 11:11	0		0		0			
179	12/12/2012 11:12	0		0		0			
180	12/12/2012 11:13	0		0		0			
181	12/12/2012 11:14	0		0		0			
182	12/12/2012 11:15	0		0		0			
183	12/12/2012 11:16	0		0		0			
184	12/12/2012 11:17	0		0		0			
185	12/12/2012 11:18	0		0		0			
186	12/12/2012 11:19	0		0		0			
187	12/12/2012 11:20	0		0		0			
188	12/12/2012 11:21	0		0		0		0.0	
189	12/12/2012 11:22	0		0		0			
190	12/12/2012 11:23	0		0		0			
191	12/12/2012 11:24	0		0		0			Preparing to
192	12/12/2012 11:25	0		0		0			core GTB-30
193	12/12/2012 11:26	0		0		0			
194	12/12/2012 11:27	0		0		0			
195	12/12/2012 11:28	0		0		0			
196	12/12/2012 11:29	0		0		0			
197	12/12/2012 11:30	0		0		0			
198	12/12/2012 11:31	0		0		0			
199	12/12/2012 11:32	0		0		0			
200	12/12/2012 11:33	0		0		0			
201	12/12/2012 11:34	0		0		0			
202	12/12/2012 11:35	0		0		0			
203	12/12/2012 11:36	0		0		0		0.0	
204	12/12/2012 11:37	0		0		0			
205	12/12/2012 11:38	0		0		0			
206	12/12/2012 11:39	0		0.1		2.7			
207	12/12/2012 11:40	0		0		0			
208	12/12/2012 11:41	0		0		0			
209	12/12/2012 11:42	0		0		0			
210	12/12/2012 11:43	0		0		0			
211	12/12/2012 11:44	0		0		0			Coring
212	12/12/2012 11:45	0		0		0			GTB-30
213	12/12/2012 11:46	0		0		0			
214	12/12/2012 11:47	0		0		0			
215	12/12/2012 11:48	0		0		0			
216	12/12/2012 11:49	0		0		0			
217	12/12/2012 11:50	0		0		0			
218	12/12/2012 11:51	0		0		0		0.0	
219	12/12/2012 11:52	0		0		0			
220	12/12/2012 11:53	0		0		0			
221	12/12/2012 11:54	0		0		0			
222	12/12/2012 11:55	0		0		0			
223	12/12/2012 11:56	0		0		0			
224	12/12/2012 11:57	0		0		0			
225	12/12/2012 11:58	0		0		0			

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
226	12/12/2012 11:59	0		0		0			
227	12/12/2012 12:00	0		0		0			
228	12/12/2012 12:01	0		0		0			
229	12/12/2012 12:02	0		0		0			
230	12/12/2012 12:03	0		0		0			
231	12/12/2012 12:04	0		0		0			
232	12/12/2012 12:05	0		0		0			
233	12/12/2012 12:06	0		0		0		0.0	
234	12/12/2012 12:07	0		0		0			
235	12/12/2012 12:08	0		0		0			
236	12/12/2012 12:09	0		0		0			
237	12/12/2012 12:10	0		0		0			
238	12/12/2012 12:11	0		0		0			Waiting for
239	12/12/2012 12:12	0		0		0			water level to
240	12/12/2012 12:13	0		0		0			stabalize to get
241	12/12/2012 12:14	0		0		0			reading
242	12/12/2012 12:15	0		0		1			
243	12/12/2012 12:16	0		0		0			
244	12/12/2012 12:17	0		0		0			
245	12/12/2012 12:18	0		0		0			
246	12/12/2012 12:19	0		0		0.3			
247	12/12/2012 12:20	0		0		0			
248	12/12/2012 12:21	0		0		0		0.0	
249	12/12/2012 12:22	0		0		0			
250	12/12/2012 12:23	0		0		0			
251	12/12/2012 12:24	0		0		0			
252	12/12/2012 12:25	0		0.1		2.1			
253	12/12/2012 12:26	0		0		0			
254	12/12/2012 12:27	0		0		0			
255	12/12/2012 12:28	0		0		0			
256	12/12/2012 12:29	0		0		0			
257	12/12/2012 12:30	0		0		0			
258	12/12/2012 12:31	0		0		0			
259	12/12/2012 12:32	0		0.7		2.7			
260	12/12/2012 12:33	0		0		0.4			
261	12/12/2012 12:34	0		0		0.2			
262	12/12/2012 12:35	0		0		0			
263	12/12/2012 12:36	0		0		0		0.0	
264	12/12/2012 12:37	0		0		0			
265	12/12/2012 12:38	0		0		0			
266	12/12/2012 12:39	0		0		0			
267	12/12/2012 12:40	0		0		0			
268	12/12/2012 12:41	0		0		0			
269	12/12/2012 12:42	0		0		0			
270	12/12/2012 12:43	0		0		0			
271	12/12/2012 12:44	0		0		0			
272	12/12/2012 12:45	0		0		0			
273	12/12/2012 12:46	0		0		0			
274	12/12/2012 12:47	0		0		0			Lunch, no
275	12/12/2012 12:48	0		0		0			activity
276	12/12/2012 12:49	0		0		0			
277	12/12/2012 12:50	0		0		0			
278	12/12/2012 12:51	0		0		0		0.0	
279	12/12/2012 12:52	0		0		0			
280	12/12/2012 12:53	0		0		0			
281	12/12/2012 12:54	0		0		0			
282	12/12/2012 12:55	0		0		0			
283	12/12/2012 12:56	0		0		0			
284	12/12/2012 12:57	0		0		0			
285	12/12/2012 12:58	0		0		0			
286	12/12/2012 12:59	0		0		0			
287	12/12/2012 13:00	0		0		0			
288	12/12/2012 13:01	0		0		0			
289	12/12/2012 13:02	0		0		0			
290	12/12/2012 13:03	0		0		0			
291	12/12/2012 13:04	0		0		0			
292	12/12/2012 13:05	0		0		0			
293	12/12/2012 13:06	0		0		0		0.0	
294	12/12/2012 13:07	0		0		0			
295	12/12/2012 13:08	0		0		0			
296	12/12/2012 13:09	0		0		0			
297	12/12/2012 13:10	0		0		0			
298	12/12/2012 13:11	0		0		0			
299	12/12/2012 13:12	0		0		0			Recording
300	12/12/2012 13:13	0		0		0			water level

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
301	12/12/2012 13:14	0		0		0			
302	12/12/2012 13:15	0		0		0			
303	12/12/2012 13:16	0		0		0			
304	12/12/2012 13:17	0		0		0			
305	12/12/2012 13:18	0		0		0			
306	12/12/2012 13:19	0		0		0			
307	12/12/2012 13:20	0		0		0			
308	12/12/2012 13:21	0		0		0		0.0	Moving air monitors and rig to GTB-31
309	12/12/2012 13:22	0		0		0			
310	12/12/2012 13:23	0		0		0			
311	12/12/2012 13:24	0		0		0			
312	12/12/2012 13:25	0		0		0			
313	12/12/2012 13:26	0		0		0			
314	12/12/2012 13:27	0		0		0			
315	12/12/2012 13:28	0		0		0			
316	12/12/2012 13:29	0		0		0			
317	12/12/2012 13:30	0		0		0			
318	12/12/2012 13:31	0		0		0			
319	12/12/2012 13:32	0		0		0			
320	12/12/2012 13:33	0		0		0			
321	12/12/2012 13:34	0		0		0			
322	12/12/2012 13:35	0		0		0			
323	12/12/2012 13:36	0		0		0		0.0	
324	12/12/2012 13:37	0		0		0			
325	12/12/2012 13:38	0		0		0			
326	12/12/2012 13:39	0		0		0			
327	12/12/2012 13:40	0		0		0			
328	12/12/2012 13:41	0		0		0			
329	12/12/2012 13:42	0		0		0			
330	12/12/2012 13:43	0		0		0			
331	12/12/2012 13:44	0		0		0			
332	12/12/2012 13:45	0		0		0			
333	12/12/2012 13:46	0		0		0			
334	12/12/2012 13:47	0		0		0			
335	12/12/2012 13:48	0		0		0			
336	12/12/2012 13:49	0		0		0			
337	12/12/2012 13:50	0		0		0			
338	12/12/2012 13:51	0		0		0		0.0	
339	12/12/2012 13:52	0		0		0			
340	12/12/2012 13:53	0		0		0			
341	12/12/2012 13:54	0		0		0			
342	12/12/2012 13:55	0		0		0			
343	12/12/2012 13:56	0		0		0			
344	12/12/2012 13:57	0		0		0			
345	12/12/2012 13:58	0		0		0			
346	12/12/2012 13:59	0		0		0			
347	12/12/2012 14:00	0		0		0			Drilling GTB-31
348	12/12/2012 14:01	0		0		0			
349	12/12/2012 14:02	0		0		0			
350	12/12/2012 14:03	0		0		0			
351	12/12/2012 14:04	0		0		0			
352	12/12/2012 14:05	0		0		0			
353	12/12/2012 14:06	0		0		0		0.0	
354	12/12/2012 14:07	0		0		0			
355	12/12/2012 14:08	0		0		0			
356	12/12/2012 14:09	0		0		0			
357	12/12/2012 14:10	0		0		0			
358	12/12/2012 14:11	0		0		0			
359	12/12/2012 14:12	0		0		0			
360	12/12/2012 14:13	0		0		0			
361	12/12/2012 14:14	0		0		0			
362	12/12/2012 14:15	0		0		0			
363	12/12/2012 14:16	0		0		0			
364	12/12/2012 14:17	0		0		0			
365	12/12/2012 14:18	0		0		0			
366	12/12/2012 14:19	0		0		0			
367	12/12/2012 14:20	0		0		0			
368	12/12/2012 14:21	0		0		0		0.0	
369	12/12/2012 14:22	0		0		0			
370	12/12/2012 14:23	0		0		0			
371	12/12/2012 14:24	0		0		0			
372	12/12/2012 14:25	0		0		0			
373	12/12/2012 14:26	0		0		0			
374	12/12/2012 14:27	0		0		0			
375	12/12/2012 14:28	0		0		0			

Line#	Date Time	Min (ppm)	Alarm	Avg (ppm)	Alarm	Max (ppm)	Alarm	15-Minute Average	Activity
376	12/12/2012 14:29	0		0		0			
377	12/12/2012 14:30	0		0		0			
378	12/12/2012 14:31	0		0		0			
379	12/12/2012 14:32	0		0		0			
380	12/12/2012 14:33	0		0		0			
381	12/12/2012 14:34	0		0		0			
382	12/12/2012 14:35	0		0		0			
383	12/12/2012 14:36	0		0		0		0.0	
384	12/12/2012 14:37	0		0		0			
385	12/12/2012 14:38	0		0		0			
386	12/12/2012 14:39	0		0		0			
387	12/12/2012 14:40	0		0		0			
388	12/12/2012 14:41	0		0		0			
389	12/12/2012 14:42	0		0		0			Drilling and backfilling GTB-31
390	12/12/2012 14:43	0		0		0			
391	12/12/2012 14:44	0		0		0			
392	12/12/2012 14:45	0		0		0			
393	12/12/2012 14:46	0		0		0			
394	12/12/2012 14:47	0		0		0			
395	12/12/2012 14:48	0		0		0			
396	12/12/2012 14:49	0		0		0			
397	12/12/2012 14:50	0		0		0			
398	12/12/2012 14:51	0		0		0		0.0	
399	12/12/2012 14:52	0		0		0			
400	12/12/2012 14:53	0		0		0			
401	12/12/2012 14:54	0		0		0			
402	12/12/2012 14:55	0		0		0			
403	12/12/2012 14:56	0		0		0			
404	12/12/2012 14:57	0		0		0			
405	12/12/2012 14:58	0		0		0			
406	12/12/2012 14:59	0		0		0		0.0	Shut down air monitors, finished all borings





## **Appendix B**

Representative Photographs

Site Photograph Number 1: Community air monitoring setup while drilling GTB-3.



Site Photograph Number 2:  
Excavating down to  
demarcation layer at GTB-15.



Target  
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Site Photograph Number 3:  
Demarcation layer at GTB-15.



Site Photograph Number 4:  
Cut demarcation layer at GTB-15.



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Site Photograph Number 5:  
Rig in place over excavation at  
GTB-15.



Site Photograph Number 6:  
Excavation backfilled around  
auger at GTB-15.



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Site Photograph Number 7:  
GTB-15 completed and surface  
restored.



Site Photograph Number 8:  
Demarcation layer at GTB-16.



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Site Photograph Number 9:  
Demarcation layer at GTB-17.



Site Photograph Number 10:  
Demarcation layer at GTB-24.



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Site Photograph Number 11: Drill cuttings were placed on polyethylene sheeting next to the borehole. Cuttings were placed in the borehole as backfill once boring was completed.



Site Photograph Number 12: A number of large trees were blown over on-Site. These trees were worked around rather than trying to remove them.



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Site Photograph Number 13:  
Trees were cut so that they  
were laying flat on ground.  
Tree clearing debris was piled  
in areas that generated large  
amounts (i.e. where a blow  
down needed to be cleared).



Target  
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