

2009 ANNUAL GROUNDWATER
AND SURFACE WATER
MONITORING REPORT

Prepared for
Owens Corning
4837 Highway 81 South
Anderson, South Carolina
January 2010

2009 ANNUAL GROUNDWATER AND SURFACE WATER MONITORING REPORT

Prepared for
Owens Corning
4837 Highway 81 South
Anderson, South Carolina
January 29, 2010

BROWN AND CALDWELL

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TABLE OF CONTENTS

| | |
|---|-----|
| LIST OF FIGURES..... | IV |
| LIST OF TABLES..... | IV |
| PROFESSIONAL GEOLOGIST CERTIFICATION..... | V |
| 1. INTRODUCTION..... | 1-1 |
| 2. GROUNDWATER AND SURFACE WATER ASSESSMENT | 2-1 |
| 2.1 Subsurface Geology | 2-1 |
| 2.2 Aquifer Characteristics..... | 2-1 |
| 2.3 Groundwater Monitoring Wells..... | 2-2 |
| 2.4 Surface Water Monitoring Locations..... | 2-2 |
| 2.5 Groundwater and Surface Water Sampling Procedures | 2-2 |
| 2.6 Analytical Parameters..... | 2-3 |
| 2.7 Quality Assurance/Quality Control..... | 2-3 |
| 3. GROUNDWATER ANALYTICAL RESULTS..... | 3-1 |
| 3.1 Overburden and Top of Rock Aquifer | 3-1 |
| 3.2 Bedrock Aquifer | 3-2 |
| 3.3 Surface Water Analytical Results..... | 3-2 |
| 4. CONCLUSIONS..... | 4-1 |
| 5. REFERENCES..... | 5-1 |
| APPENDIX A: GROUNDWATER SAMPLING FIELD DATA SHEETS | A |
| APPENDIX B: LABORATORY ANALYTICAL REPORT | B |
| APPENDIX C: HISTORICAL GROUNDWATER DATA | C |
| APPENDIX D: MANN-KENDALL TEST RESULTS..... | D |

LIST OF FIGURES

| | |
|-----------|---|
| Figure 1 | Site Map |
| Figure 2 | Overburden/Saprolite Potentiometric Surface - August 2009 |
| Figure 3 | Overburden/Saprolite Potentiometric Surface - November 2009 |
| Figure 4 | Bedrock Potentiometric Surface, 508-528 feet amsl- August 2009 |
| Figure 5 | Bedrock Potentiometric Surface, 574-608 feet amsl- August 2009 |
| Figure 6 | Bedrock Potentiometric Surface, 632-660 feet amsl- August 2009 |
| Figure 7 | Bedrock Potentiometric Surface, 660-698 feet amsl- August 2009 |
| Figure 8 | Bedrock Potentiometric Surface, 700-742 feet amsl- August 2009 |
| Figure 9 | Bedrock Potentiometric Surface, 508-528 feet amsl- November 2009 |
| Figure 10 | Bedrock Potentiometric Surface, 574-608 feet amsl- November 2009 |
| Figure 11 | Bedrock Potentiometric Surface, 632-660 feet amsl- November 2009 |
| Figure 12 | Bedrock Potentiometric Surface, 660-698 feet amsl- November 2009 |
| Figure 13 | Bedrock Potentiometric Surface, 700-742 feet amsl- November 2009 |
| Figure 14 | 1,1,1-TCA Concentration Map- November 2009 |
| Figure 15 | 1,1,-DCE Isoconcentration Map in the Overburden /Top of Rock Aquifer- November 2009 |
| Figure 16 | Overall 1,1-DCE Isoconcentration Map, Bedrock Aquifer - August 2009 |
| Figure 17 | 1,1,-DCE Isoconcentration Map in Bedrock, 508-542 feet amsl- November 2009 |
| Figure 18 | 1,1,-DCE Isoconcentration Map in Bedrock, 542-576 feet amsl- November 2009 |
| Figure 19 | 1,1,-DCE Isoconcentration Map in Bedrock, 574-608 feet amsl- November 2009 |
| Figure 20 | 1,1,-DCE Isoconcentration Map in Bedrock, 610-632 feet amsl- November 2009 |
| Figure 21 | 1,1,-DCE Isoconcentration Map in Bedrock, 660-698 feet amsl- November 2009 |
| Figure 22 | 1,1,-DCE Isoconcentration Map in Bedrock, 700-742 feet amsl- November 2009 |

LIST OF TABLES

| | |
|---------|---|
| Table 1 | Well Construction Details |
| Table 2 | Quarterly Sampling Groundwater Elevation Data – August 2009 |
| Table 3 | Annual Sampling Groundwater Elevation Data – November 2009 |
| Table 4 | Quarterly Sampling Groundwater Analytical Results – August 2009 |
| Table 5 | Annual Sampling Groundwater Analytical Results – November 2009 |
| Table 6 | Annual Surface Water Analytical Results – November 2009 |

PROFESSIONAL GEOLOGIST CERTIFICATION

The 2009 Annual Surface Water and Groundwater Monitoring Report has been prepared under the direction and supervision of a qualified, State of South Carolina licensed, Professional Geologist. Mr. Reinhard Ruhmke, P.G., of Brown and Caldwell was responsible for the overall preparation of the Report.



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Date



2009 ANNUAL GROUNDWATER AND SURFACE WATER MONITORING REPORT

1. INTRODUCTION

This 2009 Annual Groundwater and Surface Water Monitoring Report was prepared by Brown and Caldwell (BC) on behalf of Owens Corning of Anderson, South Carolina for submittal to the U.S. Environmental Protection Agency (EPA). In 1989 Owens Corning entered into a Consent Order (89-34-R) with the EPA under Section 3008(h) of the Resource Recovery and Conservation Act (RCRA). The report summarizes the August 2009 quarterly groundwater monitoring and November 2009 annual surface water and groundwater monitoring events. The results for the February and May 2009 groundwater sampling events were reported in the *2009 Semiannual Groundwater Sampling Report* dated July 13, 2009. The Consent Order requires that Owens Corning perform annual groundwater monitoring and in 2005 EPA required that quarterly groundwater monitoring be conducted for select bedrock wells located in the northeast area.

This report fulfills the Consent Order requirements for submitting an Annual RCRA Facility Investigation Groundwater Report for 2009. Section 1 of this report presents an introduction. Section 2 summarizes the surface water and groundwater monitoring activities. Section 3 provides and discusses the analytical results and Section 4 provides conclusions. Appendices to this document contain the laboratory analytical reports, historical groundwater data and groundwater sampling field forms.

The plant is situated on 160 acres of land located at 4837 Highway 81 South in Starr, South Carolina within Anderson County. As shown in Figure 1 the property is bounded by Highway 81 South to the west, True Temper Road to the north, Keys Street to the east, and Harry Drive to the south. The plant is located approximately 4 miles south of the town of Anderson.

The plant began its composite systems business operations in 1951 and since then has engaged in the production of glass fiber reinforcements and similar materials for composite systems. Historical manufacturing processes involved a variety of chemicals, including acids and solvents, some of which were inadvertently released to the environment and resulted in significant site investigation work that has been reported to EPA and the South Carolina Department and Environmental Control (SCDHEC).

2009 ANNUAL GROUNDWATER AND SURFACE WATER MONITORING REPORT

2. GROUNDWATER AND SURFACE WATER ASSESSMENT

Brown and Caldwell personnel performed the third quarter groundwater monitoring event between August 10 and 14, 2009 and the annual groundwater monitoring event between November 16 and November 20, 2009. Section 2 provides an overview of these events and includes detailed information on site hydrogeology and aquifer characteristics, groundwater and surface water sampling locations, sampling procedures and analytical methods.

2.1 Subsurface Geology

The Owens Corning site is located within the Inner Piedmont Belt of the Piedmont Geologic Physiographic Province that is characterized by moderate to high-grade metamorphic rocks of Precambrian to early Paleozoic age. The bedrock in the vicinity of the site is granitic gneiss which is overlain by overburden comprised of clay and silt soil, and saprolite. The saprolite exhibits some structural characteristics of the parent rock material such as foliation and fracturing. The thickness of the soil and saprolite unit ranges from approximately 5 to 100 feet. The primary lineaments and fracture zones at the site trend in a northeast and southwest orientation (LeGrand and Furcron, 1956). A more detailed description of the subsurface geology beneath the site can be found in the Supplemental RCRA Facility Investigation (RFI) Report (Brown and Caldwell, January 2009), which was prepared by BC on behalf of Owens Corning of Anderson, South Carolina for submittal to the EPA.

2.2 Aquifer Characteristics

The depth to groundwater beneath the site ranges from artesian conditions in MW-35 to approximately 26 feet below ground surface (bgs) in MW-10 and is present in both the overburden and bedrock units beneath the site. Water level measurements were collected from 26 wells during the August monitoring event and from 47 wells during the November monitoring event as identified in Tables 2 and 3, respectively. Refer to Figure 1 to identify well locations .

The water level measurements were used to calculate groundwater elevations and prepare potentiometric maps for both the overburden and top of rock aquifer (Figures 2 and 3) and the bedrock aquifer (Figures 4 through 13). Water level data were not collected from MW-34 during the August event due to a fieldwork error, and the water level measurement from MW-34 (Zone 5) from the November event was not used to contour the bedrock potentiometric maps due to an inconsistent reading from the Waterloo equipment. The water level measurement from well MW-33 was not used to contour bedrock potentiometric maps since this well is an open hole that traverses several water-bearing zones. Ground surface and top of casing elevations, depth to water and groundwater elevations are provided on Table 1.

Groundwater in the overburden and top of rock aquifer flows to the east-northeast toward Betsy Creek, which appears to be a perennial stream. This is consistent with the historical groundwater flow direction with the exception that groundwater from SWMU-9 was previously shown flowing more to the north than northeast.

The average horizontal gradient across the site is approximately 0.013 foot per foot. In the vicinity of the manufacturing area, a slight downward vertical gradient of 0.009 foot per foot is present. The average horizontal gradient observed in the bedrock was estimated to be approximately 0.01 foot per foot.

Additional information can be found in the Supplemental RFI Report (Brown and Caldwell, January 2009).

2.3 Groundwater Monitoring Wells

The original quarterly groundwater monitoring program included seven bedrock monitoring wells (MW-15, MW-22, MW-29R, MW-33, MW-35, MW-36 and MW-37). MW-33 has since been removed from the quarterly and annual groundwater monitoring program because it will become the groundwater extraction well for the interim measures hydraulic containment system. The removal of this well from the monitoring program is of little consequence since there are several wells in the surrounding area that provide both hydraulic potential and concentration data that are used to model plume behavior.

The annual groundwater monitoring program includes the following 41 overburden, top of rock and bedrock monitoring wells as shown in Figure 1:

- Overburden Wells: MW-1, MW-3, MW-4, MW-5, MW-7, MW-9, MW-11, MW-12, MW-18, MW-26, MW-28, MW-32, TW-43 and TW-45
- Top of Rock Wells: MW-2, MW-10, MW-13, MW-14, MW-17, MW-20, MW-21, MW-24, MW-25, MW-30, MW-31, TW-42 and TW-46
- Bedrock Wells: Alloy, MW-6, MW-15, MW-16, MW-19, MW-22, MW-27, MW-29R, MW-35, MW-36, MW-37, TW-40, TW-41 and TW-44.

The locations of the wells are shown on Figure 1 and well construction details are provided in Table 1. Multiple water-bearing zones were sampled in bedrock wells MW-29R, MW-36 and MW-37 (Tables 2 and 3).

2.4 Surface Water Monitoring Locations

The surface water monitoring program consisted of collecting samples from 11 locations (SW-1, SW-3, SW-3A, SW-3B, SW-6, SW-10, SW-11, SW-12, SW-13, SW-14 and SW-15). The surface water samples were collected on November 18, 2009 and the locations are presented on Figure 1.

2.5 Groundwater and Surface Water Sampling Procedures

On August 11 and November 16, 2009, depth to groundwater data were collected from 26 and 47 monitoring wells, respectively. The water level meter was decontaminated between wells with an Alconox® solution and rinsed with distilled water.

Sampling procedures were performed in the same manner as the previous quarterly and annual sampling events. Prior to collecting groundwater samples, the wells were purged using either a low-flow submersible electric pump or a peristaltic pump. The Waterloo system monitoring zones were purged and sampled using their dedicated compressed air driven stainless steel double valve pumps. Groundwater was pumped at an approximate rate of 0.25 gallon per minute (gpm) through new or dedicated polyethylene tubing equipped with a field-calibrated, in-line YSI® 556 meter to measure the following field parameters: pH, temperature, specific conductance, oxidation-reduction potential (ORP), and dissolved oxygen (DO). Turbidity was measured using a DRT® 15CE Turbidimeter. Purging was considered complete when at least three of the field parameters had stabilized. An attempt was made to obtain turbidity readings of less than 10 Nephelometric Turbidity Units (NTUs); however, this was not achieved for all wells. Groundwater sampling field data sheets documenting the purging activities are included as Appendix A.

Groundwater samples were collected from the wells using the same low-flow pump that was used for purging. The pump was decontaminated between sample locations using an Alconox® solution and rinsed with distilled water. The groundwater samples were labeled, containerized, documented, placed into a cooler containing ice and chilled to about 4 degrees Celsius (temperatures verified by laboratory and are reported in the Laboratory Analytical Report in Appendix B). Monitoring wells were sampled from least contaminated to most contaminated, based on previous groundwater monitoring data, to minimize the potential for carryover and cross-contamination between wells.

During the August 2009 event groundwater samples were collected from monitoring well MW-33 from three discrete intervals, 245 to 255 feet bgs, 355 to 365 feet bgs and 395 to 410 feet bgs through a 10 or 15-foot packer assembly. Prior to collecting groundwater samples from the packer intervals, the intervals were purged for either two hours or until three volumes had been removed, whichever came first, using a low-flow submersible Grundfos electric pump. Groundwater was pumped through new polyethylene tubing equipped with a field-calibrated, in-line YSI® 556 meter to measure field parameters: pH, temperature, specific conductance, ORP, and DO. Turbidity was measured using a DRT® 15CE Turbidimeter. Groundwater samples were collected when pH, temperature and specific conductance had stabilized as defined in EPA's Environmental Investigations Standard Operating Procedures and Quality Assurance Manual (EISOP/QAM), November 2001 and Science and EPA's Ecosystem Support Division Groundwater Sampling Procedure (SESDPROC-301-RO), February 2007. Samples were not collected from this well during the November 2009 event.

Surface water samples were collected on November 18, 2009 by manually filling the sample containers with surface water using a precleaned, disposable 46-inch polyethylene dipper.

2.6 Analytical Parameters

Groundwater samples were submitted to Analytical Environmental Services (AES), Inc. of Atlanta, Georgia for the August event. The surface water and groundwater samples were submitted to Columbia Analytical Services (CAS), Inc. of Jacksonville, Florida for the November event. The samples were analyzed for the focused list of volatile organic compounds (VOCs) using EPA Method 8260B. The focused list of VOCs included tetrachloroethene (PCE); trichloroethene (TCE); 1,1,1-trichloroethane (1,1,1-TCA); 1,1-dichloroethane (1,1-DCA); 1,2-dichloroethane (1,2-DCA); 1,1-dichloroethene (1,1-DCE); cis-1,2-DCE; trans-1,2-DCE; vinyl chloride; carbon tetrachloride; chloroform; methylene chloride; benzene; toluene; ethylbenzene and xylenes.

2.7 Quality Assurance/Quality Control

The groundwater and surface water sampling was performed in accordance with EPA's Environmental Investigations Standard Operating Procedures and Quality Assurance Manual (SOP/QAM), November 2001. To assess the quality of the sampling program, duplicate samples were collected (approximately one sample for every 20 samples) and analyzed for the focused list of VOCs. One duplicate sample was collected during the August sampling event and three were collected during the November event. The collection of duplicate samples was performed by splitting a sample into two sample containers. An evaluation of the analytical results for the duplicate samples showed that they are similar to each other. Three equipment blanks were collected during the August sampling and five during the November sampling to determine the efficacy of non-dedicated equipment decontamination activities. The samples were obtained by collecting distilled water passed through or over decontaminated equipment. One trip blank was submitted with the groundwater samples in August, and two with the November samples. The equipment and trip blank samples were analyzed for the same constituents as the groundwater samples. No detections were reported in any of the blanks. The analytical reports are provided in Appendix B.

2009 ANNUAL GROUNDWATER AND SURFACE WATER MONITORING REPORT

3. GROUNDWATER ANALYTICAL RESULTS

The following section includes the results for the August 2009 quarterly groundwater and November 2009 annual surface water and groundwater monitoring events. The number of samples collected during the August event was limited to the seven EPA specified bedrock wells located on the northeast portion of the Owens Corning property and one offsite well (MW-35). For the November event samples were collected from 41 overburden, top of rock, and bedrock wells and 11 surface water locations. The August and November 2009 groundwater analytical results are summarized in Tables 4 and 5, respectively. The November 2009 surface water analytical results are summarized in Table 6. Historical groundwater analytical data can be found in previous reports submitted to EPA and summaries of this information can be found in Appendix C of this report. Analytical reports that include method detection limits and QA/QC information are provided in Appendix B. One analytical parameter, 1,1-DCE, was selected for presentation on isoconcentration contour maps for the August and November events as shown on Figures 15 through 22. This analyte was selected because it is the most prevalent and widespread analyte detected at the site. A concentration map for 1,1,1-TCA in the overburden, top of rock and bedrock wells was also prepared because it was the parent compound originally released at SWMU-9; it is presented as Figure 14 for the November 2009 event.

3.1 Overburden and Top of Rock Aquifer

Consistent with observations made during previous monitoring events, the highest VOC concentrations were detected in the overburden and top of rock aquifer in the vicinity of SWMU 9 where 1,1,1-TCA and 1,1-DCE are the primary VOC constituents. The highest 1,1,1-TCA and 1,1-DCE concentrations were measured in well MW-28 at 93,000 micrograms per liter ($\mu\text{g/L}$) and 110,000 $\mu\text{g/L}$, respectively. The 1,1,1-TCA concentrations in this well have fluctuated for years but have consistently been greater than 1 percent of the solubility limit (950,000 $\mu\text{g/L}$), thus suggesting the potential presence of dense non-aqueous phase liquid (DNAPL).

Potentially significant concentrations of 1,1,1-TCA have also been detected in MW-7 where concentrations have trended upward from 17,000 $\mu\text{g/L}$ (2007) to 24,000 $\mu\text{g/L}$ (2008) to 30,000 $\mu\text{g/L}$ (2009). This too may be indicative of nearby DNAPL, which most likely would be in the form of residual stringers given the shallow depth of MW-7 and the absence of a confining clay layer. The only other detection of 1,1,1-TCA during the November event was in MW-32 (14 $\mu\text{g/L}$). No other samples produced detections of 1,1,1-TCA above the laboratory reporting limit. The rapid disappearance of 1,1,1-TCA in groundwater is consistent with known transformation mechanisms, particularly aqueous hydrolysis which is a very fast reaction. Accordingly the presence of 1,1,1-TCA in the overburden groundwater downgradient of SWMU-9 is not expected.

Other VOCs that exceeded their MCLs in the overburden and top of rock wells were 1,2-DCA, carbon tetrachloride, PCE, TCE and vinyl chloride. Although there were no reported detections for 1,2-DCA, benzene, carbon tetrachloride, methylene chloride, TCE, and vinyl chloride in MW-7 or benzene, carbon tetrachloride, methylene chloride, and vinyl chloride in MW-28, these two samples required dilution during analysis by the analytical laboratory which resulted in reporting limits greater than MCLs.

Other contaminants detected above MCLs were 1,2-DCA in MW-13 (5.6 $\mu\text{g/L}$), carbon tetrachloride in MW-12 (13 $\mu\text{g/L}$) and MW-13 (25 $\mu\text{g/L}$), and vinyl chloride in MW-11 (12 $\mu\text{g/L}$). Samples from the shallow

aquifer wells (top of rock and overburden) located north and northeast of wells MW-12 and MW-13 were below the laboratory reporting limit (non-detect) for the entire focused list of VOCs.

3.2 Bedrock Aquifer

The overall 1,1-DCE bedrock plume for the August event is shown on Figure 8 and the 1,1-DCE bedrock plume for the November event was mapped across vertical intervals as shown in Figures 17 through 22. Assuming that 1,1-DCE entered the top of bedrock near SWMU-9, the axis of the plume, consistent with the groundwater flow direction, is projected to move to the north-northeast. Refer to the *Supplemental RCRA Facility Investigation Report* (Brown and Caldwell, January 2009) for a more detailed review of these figures.

Wells MW-29R and MW-36 were installed with the Waterloo system, and only the zones with the transducer and pump were sampled, and well MW-37 is a nested well (refer to Table 4 and 5). Well MW-29R Zone 3 and Zone 4 showed an increase in concentration over the first three quarters from 510 µg/L to 640 µg/L in Zone 3 and 470 µg/L to 630 µg/L in Zone 4 and then a decrease in the November event to 230 µg/L and 320 µg/L, respectively. As in 2008, 1,1-DCE in MW-36, located farther north from MW-29R, was not detected above the MCL in all three zones during the four quarters of sampling in 2009. The 1,1-DCE concentration in Well MW-37, located on the southeastern edge of the plume, remained relatively stable over the past year with concentrations in Zone 1 ranging from 8.3 µg/L in February to 20 µg/L in November. The concentration of 1,1-DCE in MW-37 Zone 2 showed a decreasing trend over the past year from 370 µg/L in February to 180 µg/L in November. The 1,1-DCE concentration in MW-37 Zone 3 decreased from 11 µg/L in February to below the MCL (7 µg/L) in the August and November events. Well MW-33, located to the northeast of MW-29R, was only sampled in August and contained 1,1-DCE at 590 µg/L in Zone 1, 530 µg/L in Zone 2, and 190 µg/L in Zone 3. Well MW-35, an artesian well located on the northeastern edge of the plume, showed a decreasing trend from 550 µg/L in February to 340 µg/L in November.

The only other contaminants detected above MCLs were carbon tetrachloride during the August event in MW-22, MW-29R Zones 3 and 4, and MW-33 Zones 1 through 3 at a maximum concentration of 33 µg/L and during the November event in MW-22 and MW-29R Zone 3 at a maximum concentration of 24 µg/L. Concentrations of 1,2-DCA were detected above the MCL during the November event in wells MW-19 and MW-22 at concentrations of 7.5 µg/L and 5.6 µg/L, respectively. No other parameters from the focused list of VOCs were detected above MCLs in the bedrock well samples.

1,1-DCE concentrations trends for three bedrock wells, MW-27, MW-35, and MW-37 (Zones 1, 2, and 3), were determined using the Mann-Kendall Test. This test is a non-parametric statistical test that is routinely used to identify trends in groundwater concentration data. Data utilized in the test included annual groundwater monitoring data from 2006 through 2009 for MW-27 and the 2009 quarterly groundwater monitoring data for MW-35 and MW-37, resulting in the use of four data points for each well and/or zone. The test can be run on data sets with as few as 4 data points. According to the test results at a 90 percent confidence level, 1,1-DCE concentrations in MW-27 and MW-37 Zone 1 show no trend, which indicates that concentrations are stable, whereas 1,1-DCE concentration test results for MW-35, MW-37 Zone 2, and MW-37 Zone 3 reveal a decreasing trend, which is consistent with a shrinking plume scenario. The identified trends for the northeast area wells are preliminary but are consistent with a shrinking plume scenario. If these trends continue then future concentrations at bedrock wells in the northeast area would be expected to decline further. Refer to Appendix D for Mann-Kendall Test results.

3.3 Surface Water Analytical Results

The VOCs detected above method reporting limits (MRLs) in surface water samples from Betsy Creek during the 2009 sampling event were 1,1-DCA, 1,1-DCE, 1,2-DCA, carbon tetrachloride, chloroform and vinyl chloride. Concentrations of 1,1-DCA, 1,2-DCA, carbon tetrachloride, chloroform and vinyl chloride were

only detected above the MRL in SW-3A. The 1,1-DCE concentrations ranged from 1.1 µg/L at SW-3 to 290 µg/L at SW-3A. Concentrations of 1,1-DCE increased at location SW-3A from 2008, when 1,1-DCE was detected at 84 µg/L. Concentrations were all below the EPA Region IV Ecological Risk Assessment, Surface Water Screening Values. All surface water analytical results are included in Table 6.

2009 ANNUAL GROUNDWATER AND SURFACE WATER MONITORING REPORT

4. CONCLUSIONS

The quarterly and annual groundwater monitoring events were conducted at the Owens Corning site during August and November 2009, respectively. Samples were collected from seven bedrock wells during the August sampling event and from 42 wells and 11 surface water locations during the November event. The samples were analyzed for the focused list of VOCs. Multiple water-bearing zones were sampled in wells MW-29R, MW-33 (August only), MW-36 and MW-37. Historical information identified 1,1-DCE and 1,1,1-TCA as the primary constituents at the site. While 1,1-DCE continues to be widely detected at the site in both the overburden and top of rock aquifer and the bedrock aquifer, 1,1,1-TCA detections were limited to the SWMU-9 area.

The most significant contamination in the overburden and top of rock aquifer is in the vicinity of SWMU-9. Contaminants detected above their MCLs in the overburden and top of rock aquifer other than 1,1-DCE and 1,1,1-TCA were 1,2-DCA, carbon tetrachloride, PCE, TCE and vinyl chloride. The plume of 1,1-DCE that originates in the vicinity of SWMU-9 travels downgradient towards the northeast and east towards Betsy Creek.

Historically, 1,1,1-TCA has been detected in the wells in the area between MW-20 and MW-13; however, it was not detected in this area during this event or the 2008 or 2007 sampling events. Carbon tetrachloride, however, continues to be a constant contaminant in this area. The 1,1-DCE and 1,1,1-TCA groundwater plumes appear to be relatively stable. The downgradient boundaries of these plumes appear to be monitored by wells MW-21 and MW-25, which were both non-detect.

The main contaminant in the bedrock aquifer is 1,1-DCE. Samples from northeast area bedrock wells MW-35 and MW-37 reveal a decreasing concentration trend over the past year and result in a preliminary conclusion that the observed trends are consistent with a shrinking plume scenario. Further monitoring is needed to provide additional data for this analysis as the current data set include the minimum number of data points (4). Additional VOCs detected in the bedrock wells above their MCL were 1,2-DCA and carbon tetrachloride.

2009 ANNUAL GROUNDWATER AND SURFACE WATER MONITORING REPORT

5. REFERENCES

- Brown and Caldwell. 2009. *Supplemental Resource Conservation and Recovery (RCRA) Facility Investigation (RFI) Report*. Owens Corning – Starr Plant, Anderson, South Carolina.
- Brown and Caldwell. July 13, 2009. *2009 Semiannual Groundwater Monitoring Report*. Owens Corning, Anderson, South Carolina.
- LeGrand, H.E. and A.S. Furcron. 1956. *Geology and Groundwater Resources of Central-East Georgia*. Georgia Geological Survey.
- United States Environmental Protection Agency. 2001. Supplemental Guidance to RAGS: Region 4 Bulletins, Ecological Risk Assessment

**Table 1 - Well Construction Details
Owens Corning - Anderson, SC**

| Monitoring Well | Well Type | Date Installed | Screen Interval, feet BGS | Screened Interval Location | Depth to Rock, feet BGS | Northing (NAD83 South Carolina State Plane, Survey Feet) | Easting (NAD83 South Carolina State Plane, Survey Feet) | Surface Elevation, (NGPD88, Survey Feet amsl) | TOC Elevation, (NGPD88, Survey Feet amsl) |
|-----------------|------------------|----------------|---------------------------|----------------------------|-------------------------|--|---|---|---|
| MW-1 | 2" AG | 02/22/93 | 55-65 | O | >65 | 950361.45 | 1499402.43 | 824.27 | 826.62 |
| MW-2 | 2" AG | 02/24/93 | 56.7-66.7 | TOR | 66 | 950815.49 | 1499202.99 | 820.26 | 822.68 |
| MW-3 | 2" AG | 10/15/90 | 13-28 | O | >31.5 | 951884.52 | 1500961.49 | 795.61 | 796.76 |
| MW-4 | 2" AG | 10/16/90 | 14.7-29.7 | O | >33 | 951578.17 | 1500780.04 | 796.72 | 798.38 |
| MW-5 | 2" AG | 10/18/90 | 12.0-27.0 | O | >30 | 950527.98 | 1500884.25 | 804.74 | 806.50 |
| MW-6 | 2" F | 03/16/93 | 123.6-133.6 | BR | 105 | 950709.08 | 1499400.62 | 819.82 | 819.69 |
| MW-7 | 2" F | 10/19/90 | 15.9-30.9 | O | >36.5 | 950714.02 | 1499393.19 | 819.70 | 819.27 |
| MW-8 | 2"AG | 10/16/90 | 5.5-20.5 | O | >36.5 | 952247.16 | 1499696.61 | 799.29 | 801.56 |
| MW-9 | 2" F | 03/17/93 | 94-104 | TOR | 105 | 950720.70 | 1499398.33 | 819.75 | 819.41 |
| MW-10 | 2" F | 02/18/93 | 61.4-71.4 | TOR | 72 | 950516.57 | 1500028.94 | 823.92 | 823.65 |
| MW-11 | 2" AG | 09/11/85 | 6.0-16.0 | O | >16 | 951694.26 | 1500875.42 | 778.32 | 780.22 |
| MW-12 | 2" AG | 09/11/85 | 23-33 | O | >33 | 951692.46 | 1500878.27 | 778.42 | 780.95 |
| MW-13 | 2" AG | 03/10/93 | 67-72 | TOR | 61 | 951715.51 | 1500885.54 | 779.20 | 782.22 |
| MW-14 | 2" AG | 02/10/93 | 69.2-74.2 | TOR | 73 | 952076.49 | 1501026.29 | 796.39 | 798.45 |
| MW-15 | 2" AG | 08/08/93 | 69.5-99.5 | BR | 12 | 951960.13 | 1501534.65 | 777.11 | 779.45 |
| MW-16 | 2" AG | 08/05/93 | 49-59 | BR | 15 | 951830.99 | 1501866.46 | 768.14 | 770.37 |
| MW-17 | 4" AG | 02/18/93 | 24.1-39.1 | TOR | 39 | 950890.06 | 1500282.57 | 813.66 | 816.07 |
| MW-18 | 2" AG | 02/15/93 | 10.6-25.6 | O | >30 | 950807.43 | 1499198.46 | 820.36 | 822.71 |
| MW-19 | 2" AG | 08/05/93 | 154-169 | BR | 72 | 951718.14 | 1500902.65 | 779.69 | 781.81 |
| MW-20 | 2" AG | 04/21/93 | 57-67 | TOR | 64 | 951403.36 | 1500142.14 | 808.70 | 810.95 |
| MW-21 | 2" AG | 04/23/93 | 6.5-16.5 | TOR | 16 | 951834.28 | 1501856.83 | 768.63 | 771.15 |
| MW-22 | 8" AG | 08/17/93 | 78-116 | BR | 51 | 951733.53 | 1500909.06 | 780.45 | 782.65 |
| MW-23 | 2" AG | 06/04/93 | 83-93 | TOR | 93 | 951623.62 | 1499577.68 | 808.97 | 811.47 |
| MW-24 | 2" AG | 06/04/93 | 61-71 | TOR | 75 | 951671.65 | 1500421.59 | 795.49 | 796.05 |
| MW-25 | 2" AG | 06/09/93 | 40-50 | TOR | 50 | 951920.70 | 1501727.14 | 774.40 | 776.71 |
| MW-26 | 2" AG | 06/10/93 | 56.7-66.7 | O | >67.5 | 952020.02 | 1501223.27 | 790.40 | 793.09 |
| MW-27 | 8" AG | 08/11/93 | 69-99 | BR | 68.5 | 951386.97 | 1500135.48 | 808.93 | 811.13 |
| MW-28 | 2" F | 04/20/04 | 21-31 | O | >31 | 950735.05 | 1499414.47 | 819.97 | 819.77 |
| MW-29R Zone 1 | Waterloo - T | 11/06/08 | 56.7-69.8 | BR | 53 | 952139.28 | 1501742.31 | 784.90 | 787.03 |
| MW-29R Zone 2 | Waterloo - T | 11/06/08 | 127.3-139.5 | BR | 53 | 952139.28 | 1501742.31 | 784.90 | 787.03 |
| MW-29R Zone 3 | Waterloo - P & T | 11/06/08 | 154.5-169.6 | BR | 53 | 952139.28 | 1501742.31 | 784.90 | 787.03 |
| MW-29R Zone 4 | Waterloo - P & T | 11/06/08 | 177.6-202.2 | BR | 53 | 952139.28 | 1501742.31 | 784.90 | 787.03 |
| MW-30 | 2" F | 04/13/06 | 103-113 | TOR | 113 | 951106.58 | 1499550.99 | 819.50 | 819.14 |
| MW-31 | 2" F | 04/12/06 | 80-90 | TOR | 90 | 951325.04 | 1499740.38 | 818.20 | 817.96 |
| MW-32 | 2" F | 04/18/06 | 25-35 | O | >35 | 950765.22 | 1499373.24 | 819.68 | 819.40 |
| MW-33 OLD | 6" AG | 04/18/06 | open hole | | | | | | |
| MW-33 | 6" AG | 10/09/08 | open hole (~52-410) | BR | 52 | 952219.23 | 1502029.66 | 775.30 | 777.99 |
| MW-35 | 2" AG | 10/02/08 | 152-162 | BR | 23 | 952440.05 | 1503528.88 | 740.90 | 743.73 |
| MW-36 Zone 1 | Waterloo - P & T | 11/06/08 | 99.1-116 | BR | 84 | 952629.06 | 1501831.75 | 783.00 | 785.63 |
| MW-36 Zone 2 | Waterloo - T | 11/06/08 | 139.5-150.7 | BR | 84 | 952629.06 | 1501831.75 | 783.00 | 785.63 |
| MW-36 Zone 3 | Waterloo - P & T | 11/06/08 | 180.2-192.7 | BR | 84 | 952629.06 | 1501831.75 | 783.00 | 785.63 |
| MW-36 Zone 4 | Waterloo - T | 11/06/08 | 225.6-239.2 | BR | 84 | 952629.06 | 1501831.75 | 783.00 | 785.63 |
| MW-36 Zone 5 | Waterloo - P & T | 11/06/08 | 269.9-275 | BR | 84 | 952629.06 | 1501831.75 | 783.00 | 785.63 |
| MW-37 Zone 1 | 1" AG | 09/30/08 | 185-195 | BR | 87 | 951472.16 | 1501852.30 | 780.20 | 782.92 |
| MW-37 Zone 2 | 1" AG | 09/30/08 | 222-232 | BR | 87 | 951472.48 | 1501852.13 | 780.20 | 782.84 |
| MW-37 Zone 3 | 1" AG | 09/30/08 | 257-272 | BR | 87 | 951472.27 | 1501852.21 | 780.20 | 782.79 |
| P2 | 6" AG | 06/22/93 | 53-115 | BR | 45 | 951750.01 | 1500946.57 | 783.93 | 785.65 |
| Alloy | 2" AG | 08/09/93 | 56-61 | BR | 56 | 951358.03 | 1501028.29 | 789.56 | 791.69 |
| TW-40 | 2" AG | 08/30/01 | 84-94 | BR | 30 | 952247.76 | 1501784.65 | 785.81 | 788.63 |
| TW-41 | 2" AG | 08/27/01 | 50.3-55.3 | BR | 25.5 | 952119.32 | 1501966.54 | 775.50 | 778.84 |
| TW-42 | 1" AG | 08/20/01 | 21-26 | TOR | 26 | 952131.39 | 1501972.00 | 775.86 | 778.09 |
| TW-43 | 1" AG | 08/21/01 | 8.6-18.6 | O | >19 | 952127.92 | 1501969.26 | 775.82 | 778.15 |
| TW-44 | 2" AG | 08/31/01 | 64-74 | BR | 46 | 951988.65 | 1501305.71 | 782.68 | 785.52 |
| TW-45 | 1" F | 08/21/01 | 18.8-28.8 | O | >29 | 951284.02 | 1499935.21 | 816.70 | 816.76 |
| TW-46 | 2" F | 09/05/01 | 83.3-88.3 | TOR | 88 | 951278.63 | 1499934.00 | 816.72 | 816.58 |

F - Flush Mount; AG - Above Ground; T - Transducer only; P & T - Pump and Transducer
 For Waterloo type wells the listed screen interval corresponds to each zones sand pack.
 BR - Bedrock; O - Overburden; TOR - Top of Rock
 BGS - Below Ground Surface; TOC - Top of Casing
 amsl - Above Mean Sea Level

Table 2 - Quarterly Sampling Groundwater Elevation Data
August 11, 2009
Owens Corning - Anderson, SC

| Monitoring Well | Well Type | Screen Interval, feet BGS | Screened Interval Location | Surface Elevation, (NGPD88, Survey Feet amsl) | ToC Elevation, (NGPD88, Survey Feet amsl) | Waterloo Piezometer Reading, Dgs | Static Depth to Water, Feet Below TOC | Static Water Elevation, (NGPD88, Survey Feet amsl) |
|-----------------|-----------|------------------------------|-------------------------------|---|---|--|---|---|
| MW-3 | 2" AG | 13-28 | O | 795.61 | 796.76 | - | 19.17 | 777.59 |
| MW-4 | 2" AG | 14.7-29.7 | O | 796.72 | 798.38 | - | 20.56 | 777.82 |
| MW-11 | 2" AG | 6.0-16.0 | O | 778.32 | 780.22 | - | 4.48 | 775.74 |
| MW-12 | 2" AG | 23-33 | O | 778.42 | 780.95 | - | 5.01 | 775.94 |
| MW-13 | 2" AG | 67-72 | TOR | 779.20 | 782.22 | - | 6.26 | 775.96 |
| MW-14 | 2" AG | 69.2-74.2 | TOR | 796.39 | 798.45 | - | 19.96 | 778.49 |
| MW-15 | 2" AG | 69.5-99.5 | BR | 777.11 | 779.45 | - | 11.16 | 768.29 |
| MW-16 | 2" AG | 49-59 | BR | 768.14 | 770.37 | - | 6.75 | 763.62 |
| MW-19 | 2" AG | 154-169 | BR | 779.69 | 781.81 | - | 6.57 | 775.24 |
| MW-21 | 2" AG | 6.5-16.5 | TOR | 768.63 | 771.15 | - | 8.31 | 762.84 |
| MW-22 | 8" AG | 78-116 | BR | 780.45 | 782.65 | - | 7.28 | 775.37 |
| MW-23 | 2" AG | 83-93 | TOR | 808.97 | 811.47 | - | 13.39 | 798.08 |
| MW-25 | 2" AG | 40-50 | TOR | 774.40 | 776.71 | - | 12.40 | 764.31 |
| MW-26 | 2" AG | 56.7-66.7 | O | 790.40 | 793.09 | - | 17.55 | 775.54 |
| MW-29R Zone 1 | Waterloo | 56.7-69.8 | BR | 784.90 | 787.03 | 7321.00 | 19.84 | 767.19 |
| MW-29R Zone 2 | Waterloo | 127.3-139.5 | BR | 784.90 | 787.03 | 5891.50 | 17.10 | 769.93 |
| MW-29R Zone 3 | Waterloo | 154.5-169.6 | BR | 784.90 | 787.03 | 6743.30 | 17.76 | 769.27 |
| MW-29R Zone 4 | Waterloo | 177.6-202.2 | BR | 784.90 | 787.03 | 6012.50 | 17.18 | 769.85 |
| MW-33 | 6" AG | open hole (~52-410) | BR | 775.30 | 777.99 | - | NM | NM |
| MW-35 | 2" AG | | BR | 740.90 | 743.73 | - | Artesian | Artesian |
| MW-36 Zone 1 | Waterloo | 99.1-116 | BR | 783.00 | 785.63 | 6279.40 | 15.35 | 770.28 |
| MW-36 Zone 2 | Waterloo | 139.5-150.7 | BR | 783.00 | 785.63 | 7091.50 | 15.51 | 770.12 |
| MW-36 Zone 3 | Waterloo | 180.2-192.7 | BR | 783.00 | 785.63 | 6427.20 | 17.13 | 768.50 |
| MW-36 Zone 4 | Waterloo | 225.6-239.2 | BR | 783.00 | 785.63 | 5848.60 | 16.18 | 769.45 |
| MW-36 Zone 5 | Waterloo | 269.9-275 | BR | 783.00 | 785.63 | 6028.80 | 20.56 | 765.07 |
| MW-37 Zone 1 | 1" AG | 185-195 | BR | 780.20 | 782.92 | - | 18.03 | 764.89 |
| MW-37 Zone 2 | 1" AG | 222-232 | BR | 780.20 | 782.84 | - | 15.14 | 767.70 |
| MW-37 Zone 3 | 1" AG | 257-272 | BR | 780.20 | 782.79 | - | 22.75 | 760.04 |
| P2 | 6" AG | 53-115 | BR | 783.93 | 785.65 | - | 10.00 | 775.65 |
| Alloy | 2" AG | 56-61 | BR | 789.56 | 791.69 | - | 15.55 | 776.14 |
| TW-40 | 2" AG | 84-94 | BR | 785.81 | 788.63 | - | 18.52 | 770.11 |
| TW-41 | 2" AG | 50.3-55.3 | BR | 775.50 | 778.84 | - | 15.54 | 763.30 |
| TW-42 | 1" AG | 21-26 | TOR | 775.86 | 778.09 | - | 16.44 | 761.65 |
| TW-43 | 1" AG | 8.6-18.6 | O | 775.82 | 778.15 | - | 16.31 | 761.84 |
| TW-44 | 2" AG | 64-74 | BR | 782.68 | 785.52 | - | 11.65 | 773.87 |

F - Flush Mount; AG - Above Ground

For Waterloo type wells the listed screen interval corresponds to each zones sand pack, for the actual depth of the sampling port please see waterloo construction tables.

BR - Bedrock; O - Overburden; TOR - Top of Rock

BGS - Below Ground Surface; TOC - Top of Casing

amsl - Above Mean Sea Level

Dgs - Digits

NM - Not measured

**Table 3 - Annual Sampling Groundwater Elevation Data
November 16, 2009
Owens Corning - Anderson, SC**

| Monitoring Well | Well Type | Screen Interval, feet BGS | Screened Interval Location | Surface Elevation, (NGPD88, Survey Feet amsl) | ToC Elevation, (NGPD88, Survey Feet amsl) | Waterloo Piezometer Reading, Dgs | Static Depth to Water, Feet Below TOC | Static Water Elevation, (NGPD88, Survey Feet amsl) |
|-----------------|-----------|------------------------------|-------------------------------|---|---|--|---|--|
| MW-1 | 2" AG | 55-65 | O | 824.27 | 826.62 | - | 22.38 | 804.24 |
| MW-2 | 2" AG | 56.7-66.7 | TOR | 820.26 | 822.68 | - | 20.52 | 802.16 |
| MW-3 | 2" AG | 13-28 | O | 795.61 | 796.76 | - | 17.73 | 779.03 |
| MW-4 | 2" AG | 14.7-29.7 | O | 796.72 | 798.38 | - | 18.92 | 779.46 |
| MW-5 | 2" AG | 12.0-27.0 | O | 804.74 | 806.50 | - | 17.12 | 789.38 |
| MW-6 | 2" F | 123.6-133.6 | BR | 819.82 | 819.69 | - | 17.24 | 802.45 |
| MW-7 | 2" F | 15.9-30.9 | O | 819.70 | 819.27 | - | 17.19 | 802.08 |
| MW-8 | 2" AG | 5.5-20.5 | O | 799.29 | 801.56 | - | 1.31 ^A | 800.25 |
| MW-9 | 2" AG | 5.5-20.5 | O | 819.75 | 819.41 | - | 17.32 | 802.09 |
| MW-10 | 2" F | 61.4-71.4 | TOR | 823.92 | 823.65 | - | 26.21 | 797.44 |
| MW-11 | 2" AG | 6.0-16.0 | O | 778.32 | 780.22 | - | 2.81 | 777.41 |
| MW-12 | 2" AG | 23-33 | O | 778.42 | 780.95 | - | 3.46 | 777.49 |
| MW-13 | 2" AG | 67-72 | TOR | 779.20 | 782.22 | - | 4.67 | 777.55 |
| MW-14 | 2" AG | 69.2-74.2 | TOR | 796.39 | 798.45 | - | 18.92 | 779.53 |
| MW-15 | 2" AG | 69.5-99.5 | BR | 777.11 | 779.45 | - | 9.68 | 769.77 |
| MW-16 | 2" AG | 49-59 | BR | 768.14 | 770.37 | - | 5.25 | 765.12 |
| MW-17 | 4" AG | 24.1-39.1 | TOR | 813.66 | 816.07 | - | 22.24 | 793.83 |
| MW-18 | 2" AG | 10.6-25.6 | O | 820.36 | 822.71 | - | 20.63 | 802.08 |
| MW-19 | 2" AG | 154-169 | BR | 779.69 | 781.81 | - | 5.01 | 776.80 |
| MW-20 | 2" AG | 57-67 | TOR | 808.70 | 810.95 | - | 21.22 | 789.73 |
| MW-21 | 2" AG | 6.5-16.5 | TOR | 768.63 | 771.15 | - | 6.92 | 764.23 |
| MW-22 | 8" AG | 78-116 | BR | 780.45 | 782.65 | - | 5.72 | 776.93 |
| MW-23 | 2" AG | 83-93 | TOR | 808.97 | 811.47 | - | 13.03 | 798.44 |
| MW-24 | 2" F | 61-71 | TOR | - | - | - | 8.79 ^B | - |
| MW-25 | 2" AG | 40-50 | TOR | 774.40 | 776.71 | - | 10.01 | 766.70 |
| MW-26 | 2" AG | 56.7-66.7 | O | 790.40 | 793.09 | - | 15.97 | 777.12 |
| MW-27 | 8" AG | 69-99 | BR | 808.93 | 811.13 | - | 21.36 | 789.77 |
| MW-28 | 2" F | 21-31 | O | 819.97 | 819.77 | - | 17.79 | 801.98 |
| MW-29R Zone 1 | Waterloo | 56.7-69.8 | BR | 784.90 | 787.03 | 7279.6 | 18.21 | 768.82 |
| MW-29R Zone 2 | Waterloo | 127.3-139.5 | BR | 784.90 | 787.03 | 5854.9 | 15.54 | 771.49 |
| MW-29R Zone 3 | Waterloo | 154.5-169.6 | BR | 784.90 | 787.03 | 6717.7 | 16.12 | 770.91 |
| MW-29R Zone 4 | Waterloo | 177.6-202.2 | BR | 784.90 | 787.03 | 5987.1 | 15.58 | 771.45 |
| MW-30 | 2" F | 103-113 | TOR | 819.50 | 819.14 | - | 22.72 | 796.42 |
| MW-31 | 2" F | 80-90 | TOR | 818.20 | 817.96 | - | 24.05 | 793.91 |
| MW-32 | 2" F | 25-35 | O | 819.68 | 819.40 | - | 17.55 | 801.85 |
| MW-33 | 6" AG | open hole (~52-410) | BR | 775.30 | 777.99 | - | 14.81 | 763.18 |
| MW-34 Zone 1 | Waterloo | 59.9-60.4 | BR | 768.10 | 770.06 | 7400.2 | 7.85 | 762.21 |
| MW-34 Zone 2 | Waterloo | 114.4-114.9 | BR | 768.10 | 770.06 | 5832.9 | 4.81 | 765.25 |
| MW-34 Zone 3 | Waterloo | 149.9-150.4 | BR | 768.10 | 770.06 | 7029.4 | 16.59 | 753.47 |
| MW-34 Zone 4 | Waterloo | 174.4-174.9 | BR | 768.10 | 770.06 | 6810.9 | 16.70 | 753.36 |
| MW-34 Zone 5 | Waterloo | 239.9-240.4 | BR | 768.10 | 770.06 | 7029.3 | 94.54 | 675.52 |
| MW-35 | 2" AG | 152-162 | BR | 740.90 | 743.73 | - | Artesian | Artesian |
| MW-36 Zone 1 | Waterloo | 99.1-116 | BR | 783.00 | 785.63 | 6244.3 | 13.89 | 771.74 |
| MW-36 Zone 2 | Waterloo | 139.5-150.7 | BR | 783.00 | 785.63 | 7067.5 | 14.02 | 771.61 |
| MW-36 Zone 3 | Waterloo | 180.2-192.7 | BR | 783.00 | 785.63 | 6411.7 | 16.15 | 769.48 |
| MW-36 Zone 4 | Waterloo | 225.6-239.2 | BR | 783.00 | 785.63 | 5841.1 | 15.70 | 769.93 |
| MW-36 Zone 5 | Waterloo | 269.9-275 | BR | 783.00 | 785.63 | 6049.2 | 22.40 | 763.23 |
| MW-37 Zone 1 | 1" AG | 185-195 | BR | 780.20 | 782.92 | - | 16.73 | 766.19 |
| MW-37 Zone 2 | 1" AG | 222-232 | BR | 780.20 | 782.84 | - | 13.75 | 769.09 |
| MW-37 Zone 3 | 1" AG | 257-272 | BR | 780.20 | 782.79 | - | 17.87 | 764.92 |
| P1 | 2" AG | 24.5-39.5 | TOR | 813.10 | 815.42 | - | 21.68 | 793.74 |
| P2 | 6" AG | 53-115 | BR | 783.93 | 785.65 | - | 8.38 | 777.27 |
| Alloy | 2" AG | 56-61 | BR | 789.56 | 791.69 | - | 13.97 | 777.72 |
| TW-40 | 2" AG | 84-94 | BR | 785.81 | 788.63 | - | 17.25 | 771.38 |
| TW-41 | 2" AG | 50.3-55.3 | BR | 775.50 | 778.84 | - | 14.73 | 764.11 |
| TW-42 | 1" AG | 21-26 | TOR | 775.86 | 778.09 | - | 13.49 | 764.60 |
| TW-43 | 1" AG | 8.6-18.6 | O | 775.82 | 778.15 | - | 13.37 | 764.78 |
| TW-44 | 2" AG | 64-74 | BR | 782.68 | 785.52 | - | 9.55 | 775.97 |
| TW-45 | 1" F | 18.8-28.8 | O | 816.70 | 816.76 | - | 24.4 ^A | 792.36 |
| TW-46 | 2" F | 83.3-88.3 | TOR | 816.72 | 816.58 | - | 24.15 | 792.43 |

F - Flush Mount; AG - Above Ground

For Waterloo type wells the listed screen interval corresponds to each zones sand pack, for the actual depth of the sampling port please see waterloo construction tables.

BR - Bedrock; O - Overburden; TOR - Top of Rock

BGS - Below Ground Surface; TOC - Top of Casing

amsl - Above Mean Sea Level

NM - Not measured

^A - These wells show evidence of damage and may no longer present water levels corresponding to present conditions

^B - MW-24 was converted from an Above Ground completion to a Flush Mount Completion, the new TOC elevation has not been surveyed; Water Level measured on Nov 19, 2009

**Table 4 - Quarterly Groundwater Analytical Results
August 2009
Owens Corning - Anderson, SC**

| Sample ID | | MW-15 | MW-22 | Dup-A1* | MW-29R Zone 3 | MW-29R Zone 4 | MW-33 245-255' (Zone 1) | MW-33 355-365' (Zone 2) | MW-33 395-410' (Zone 3) | MW-35 | MW-36 Zone 1 | MW-36 Zone 3 | MW-36 Zone 5 | MW-37 Zone 1 | MW-37 Zone 2 | MW-37 Zone 3 |
|-----------------------------------|------------|------------|------------|------------|---------------|---------------|-------------------------|-------------------------|-------------------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Sample Date | | 8/13/09 | 8/13/09 | 8/13/09 | 8/12/09 | 8/13/09 | 8/10/09 | 8/12/09 | 8/11/09 | 8/13/09 | 8/13/09 | 8/13/09 | 8/13/09 | 8/11/09 | 8/14/09 | 8/14/09 |
| Screened Interval (ft) | MCL (ug/L) | 69.5-99.5 | 78-116 | 222-232 | 154.5-169.6 | 177.6-202.2 | Packer | Packer | Packer | 152-162 | 99.1-116 | 180.2-192.7 | 269.9-275 | 185-195 | 222-232 | 257-272 |
| Volatile Organic Compounds | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 200 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | - | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | 7 | 420 | 650 | 740 | 640 | 630 | 590 | 530 | 190 | 470 | <5 | <5 | <5 | 5.5 | 200 | 6.8 |
| 1,2-Dichloroethane | 5 | <5 | <5 | 5.2 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Benzene | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Carbon tetrachloride | 5 | <5 | 30 | 33 | 25 | 22 | 19 | 6.8 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloroform ¹ | 80 | <5 | 17 | 19 | 18 | 17 | 18 | 18 | 14 | <5 | <5 | <5 | <5 | <5 | 14 | <5 |
| cis-1,2-Dichloroethene | 70 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | 700 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Methylene chloride | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Tetrachloroethene | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Toluene | 1,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| trans-1,2-Dichloroethene | 100 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Trichloroethene | 5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl chloride | 2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Xylenes, total | 10,000 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Field Parameters | | | | | | | | | | | | | | | | |
| pH (S.U.) | - | 6.57 | 5.19 | - | 5.52 | 5.54 | 5.74 | 6.48 | 6.71 | 7.26 | 6.00 | 7.02 | 6.94 | 6.71 | 9.49 | 7.13 |
| Temperature (degree C) | - | 19.42 | 20.33 | - | 19.38 | 19.88 | 19.31 | 19.73 | 21.88 | 18.14 | 20.78 | 33.51 | 31.44 | 24.50 | 28.30 | 28.64 |
| Specific Conductance (mS/cm) | - | 0.202 | 0.112 | - | 0.126 | 0.134 | 0.221 | 0.210 | 0.226 | 0.319 | 0.109 | 1.220 | 1.740 | 0.199 | 0.168 | 0.212 |
| Eh (mV) | - | 83.0 | 184.0 | - | 253.0 | 188.0 | 103.0 | -116.0 | 86.0 | -160.0 | 252.0 | 41.0 | -60.0 | -72.0 | -189.0 | -100.0 |
| Dissolved Oxygen (mg/L) | - | 0.29 | 3.00 | - | 1.24 | 0.75 | 0.41 | 0.30 | 2.26 | 0.12 | 2.69 | 2.42 | 2.51 | 0.96 | 0.45 | 0.68 |
| Turbidity (NTU) | - | 0 | 0 | - | 0 | 0 | 0.17 | 22.4 | 27.5 | 0 | 0 | 0 | 1.1 | 12.2 | 1.3 | 1.38 |

*Duplicate sample collected from MW-22.
¹ MCL listed for Chloroform is for Total Trihalomethanes.
MCL - Maximum Contaminant Level
Bold VOC results indicates concentration above the MCL.

Table 5 - Annual Groundwater Analytical Results
November 2009
Owens Corning - Anderson, SC

| Sample ID | | Alloy | DUP-111809 (Alloy) | MW-1 | MW-2 | MW-3 | MW-4 | MW-5 | MW-6 | MW-7 | MW-9 | MW-10 | MW-11 | MW-12 | MW-13 | MW-14 | MW-15 | MW-16 | MW-17 | MW-18 | MW-19 | MW-20 | MW-21 | MW-22 | MW-24 | DUP-111909 (MW_24) | MW-25 | | |
|-----------------------------------|------------|----------|-----------------------|----------|-----------|----------|-----------|----------|-------------|------------------|----------|-----------|------------|------------|------------|-----------|------------|----------|-----------|-----------|--------------|-----------|----------|------------|-----------|-----------------------|----------|-------|-------|
| Sample Date | | 11/18/09 | 11/18/09 | 11/17/09 | 11/17/09 | 11/17/09 | 11/17/09 | 11/17/09 | 11/19/09 | 11/20/09 | 11/19/09 | 11/17/09 | 11/19/09 | 11/19/09 | 11/17/09 | 11/20/09 | 11/18/09 | 11/19/09 | 11/17/09 | 11/19/09 | 11/19/09 | 11/19/09 | 11/18/09 | 11/19/09 | 11/19/09 | 11/19/06 | 11/18/09 | | |
| Screened Interval (ft) | MCL (ug/L) | 56-61 | 56-61 | 55-65 | 56.7-66.7 | 13-28 | 14.7-29.7 | 12-27 | 123.6-133.6 | 15.9-30.9 | 5.5-20.5 | 61.4-71.4 | 6-16 | 23-33 | 67-72 | 69.2-74.2 | 69.5-99.5 | 49-59 | 24.1-39.1 | 10.6-25.6 | 154-169 | 57-67 | 6.5-16.5 | 78-116 | 61-71 | 40-50 | | | |
| Volatile Organic Compounds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 200 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | 30,000 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | | |
| 1,1-Dichloroethane | - | <0.56 | <0.56 | <0.56 | <0.56 | <0.56 | <0.56 | <0.56 | <0.56 | 96 J | <0.56 | <0.56 | 3.1 | 1.8 | 2.5 | <0.56 | 1.9 | <0.56 | <0.56 | <0.56 | 3.1 J | <0.56 | <0.56 | 2.7 | 0.66 J | <0.56 | <0.56 | | |
| 1,1-Dichloroethene | 7 | 2.2 | 2.2 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | <0.16 | 60,000 | <0.16 | <0.16 | 190 | 300 | 490 | <0.16 | 320 | <0.16 | 0.46 J | <0.16 | 300 J | 19 | <0.16 | 540 | 85 | 85 | <0.16 | | |
| 1,2-Dichloroethane | 5 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <15 ² | <0.15 | <0.15 | 1.4 | 3.5 | 5.6 | <0.15 | 2.9 | <0.15 | <0.15 | <0.15 | 7.5 J | 0.66 J | <0.15 | 5.6 | 1.7 | 1.7 | <0.15 | | |
| Benzene | 5 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <52 ² | <0.52 | <0.52 | 0.58 J | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | | |
| Carbon tetrachloride | 5 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | <18 ² | <0.18 | <0.18 | <0.18 | <0.18 | 13 | 25 | <0.18 | <0.18 | <0.18 | <0.18 | <0.18 | 0.34 J | 3.4 | <0.18 | 24 | <0.18 | <0.18 | | |
| Chloroform ¹ | 80 | <0.10 | 0.24 J | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <10 | <0.10 | <0.10 | <0.10 | <0.10 | 19 | 16 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 7.2 J | 44 | <0.10 | 14 | 19 | 18 | <0.10 |
| cis-1,2-Dichloroethene | 70 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | |
| Ethylbenzene | 700 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | |
| Methylene chloride | 5 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <72 ² | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | |
| Tetrachloroethene | 5 | <0.22 | <0.22 | <0.22 | <0.22 | <0.22 | <0.22 | <0.22 | <0.22 | 35 J | <0.22 | <0.22 | <0.22 | 1.2 | 1.6 | <0.22 | 0.62 J | <0.22 | <0.22 | <0.22 | <0.22 | 3.3 J | <0.22 | <0.22 | 1.3 | <0.22 | <0.22 | | |
| Toluene | 1,000 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | 130 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | | |
| trans-1,2-Dichloroethene | 100 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | | |
| Trichloroethene | 5 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <15 ² | <0.15 | <0.15 | <0.15 | 0.36 | 1.4 | <0.15 | 0.74 J | <0.15 | <0.15 | <0.15 | <0.15 | 2.1 J | <0.15 | <0.15 | 1.1 | <0.15 | <0.15 | | |
| Vinyl chloride | 2 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | <25 ² | <0.25 | <0.25 | 12 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | | |
| Xylenes, total | 10,000 | <0.32 | <0.32 UJ | <0.32 | <0.32 | <0.32 UJ | <0.32 | <0.32 | <0.32 | <33 | <0.32 | <0.32 | <0.32 | <0.32 | <0.32 | <0.32 | <0.32 | <0.32 | <0.32 | <0.32 | <0.32 | <0.32 | <0.32 | <0.32 | <0.32 | <0.32 UJ | <0.32 UJ | <0.32 | |
| Field Parameters | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pH (S.U.) | - | 6.25 | 6.25 | 5.40 | 6.08 | 4.51 | 6.84 | 4.46 | 6.88 | 4.36 | 6.29 | 5.19 | 6.78 | 5.50 | 5.25 | 6.32 | 6.75 | 7.72 | 4.61 | 4.49 | 7.20 | 5.08 | 5.13 | 5.39 | 5.60 | 5.60 | 5.04 | | |
| Temperature (degree C) | - | 19.08 | 19.08 | 18.35 | 19.48 | 18.29 | 18.92 | 19.03 | 19.13 | 21.39 | 19.72 | 20.16 | 18.22 | 18.70 | 18.89 | 18.67 | 16.00 | 17.38 | 20.04 | 20.66 | 18.55 | 20.40 | 19.02 | 18.62 | 20.54 | 20.54 | 17.30 | | |
| Specific Conductance (mS/cm) | - | 0.095 | 0.095 | 0.033 | 0.059 | 0.049 | 0.684 | 0.080 | 0.110 | 1.120 | 0.080 | 0.028 | 0.594 | 0.149 | 0.113 | 0.066 | 0.222 | 0.311 | 0.116 | 0.046 | 0.218 | 0.068 | 0.045 | 0.116 | 0.185 | 0.185 | 0.054 | | |
| Eh (mV) | - | 176.7 | 176.7 | 276.7 | 250.9 | 333.1 | -13.5 | 575.2 | 276.2 | 204.6 | 262.0 | 293.4 | -70.2 | 183.8 | 265.3 | 237.6 | 33.5 | 32.7 | 39.5 | 324.4 | -67.6 | 33.0 | 286.5 | 218.6 | -61.9 | -61.9 | 315.4 | | |
| Dissolved Oxygen (mg/L) | - | 4.48 | 4.48 | 7.37 | 6.22 | 4.90 | 0.18 | 3.74 | 5.74 | 0.57 | 7.40 | 7.46 | 0.15 | 1.78 | 3.77 | 6.28 | 0.74 | 0.35 | 4.82 | 4.45 | 0.13 | 4.77 | 4.04 | 3.12 | 0.55 | 0.55 | 7.14 | | |
| Turbidity (NTU) | - | 9.15 | 9.15 | 8.24 | 7.54 | 0.77 | 2.46 | 2.35 | 0.04 | 4.11 | 8.70 | 9.12 | 2.03 | 9.45 | 0.25 | 7.29 | 1.98 | 8.97 | 8.39 | 4.53 | 0.01 | 4.92 | 2.37 | 0.76 | 6.54 | 6.54 | 9.85 | | |

MCL - Maximum Contaminant Level
J - Estimated value less than the method reporting limit (MRI), but greater than or equal to the method detection limit (MDL).
UJ - Nondetected with an estimated limit of detection
¹ MCL listed for Chloroform is for Total Trihalomethanes.
² Method Detection Limit is greater than the MCL.
Bold VOC results indicates concentration above the MCL.

**Table 6 - Annual Surface Water Analytical Results
November 2009
Owens Corning - Anderson, SC**

| Sample ID | MCL (ug/L) | Surface Water Screening Values ¹ | | SW-1 | SW-3 | SW-3A | SW-3B | SW-6 | SW-10 | SW-11 | SW-12 | SW-13 | SW-14 | SW-15 |
|-----------------------------------|------------|---|----------------|------------|----------|------------|----------|----------|----------|------------|------------|----------|----------|----------|
| | | Acute (ug/L) | Chronic (ug/L) | 11/18/09 | 11/18/09 | 11/18/09 | 11/18/09 | 11/18/09 | 11/18/09 | 11/18/09 | 11/18/09 | 11/18/09 | 11/18/09 | 11/18/09 |
| Volatile Organic Compounds | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 200 | - | - | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 |
| 1,1-Dichloroethane | - | - | - | <0.56 | <0.56 | 1.6 | <0.56 | <0.56 | <0.56 | <0.56 | <0.56 | <0.56 | <0.56 | <0.56 |
| 1,1-Dichloroethene | 7 | 3,030 | 303 | 7.8 | 1.1 | 290 | 1.1 | 5.3 | 2.9 | 7.7 | 7.5 | <0.16 | 5.1 | 6.8 |
| 1,2-Dichloroethane | 5 | 11,800 | 2,000 | <0.15 | <0.15 | 1.9 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 |
| Benzene | 5 | - | - | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 |
| Carbon tetrachloride | 5 | 3,520 | 352 | 0.34 J | <0.18 | 7.4 | <0.18 | <0.18 | <0.18 | 0.28 J | <0.18 | <0.18 | <0.18 | <0.18 |
| Chloroform ² | 80 | 2,890 | 289 | 0.58 J | 0.52 J | 7.1 | 0.54 J | 0.35 J | 0.20 J | 3.2 | 2.6 | <0.10 | 3.3 | 0.53 J |
| cis-1,2-Dichloroethene | 70 | - | - | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 | <0.12 |
| Ethylbenzene | 700 | - | - | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Methylene chloride | 5 | - | - | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 | <0.72 |
| Tetrachloroethene | 5 | 528 | 84 | <0.22 | <0.22 | 0.65 J | <0.22 | <0.22 | <0.22 | <0.22 | <0.22 | <0.22 | <0.22 | <0.22 |
| Toluene | 1000 | - | - | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 | <0.52 |
| trans-1,2-Dichloroethene | 100 | - | - | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 | <0.13 |
| Trichloroethene | 5 | - | - | <0.15 | <0.15 | 0.72 J | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 | <0.15 |
| Vinyl chloride | 2 | - | - | <0.25 | <0.25 | 4.8 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 |
| Xylenes, total | 10000 | - | - | <0.32 | <0.32 UJ | <0.32 | <0.32 | <0.32 | <0.32 | <0.32 | <0.32 | <0.32 | <0.32 | <0.32 |
| Field Parameters | | | | | | | | | | | | | | |
| pH (S.U.) | - | - | - | 6.15 | 6.88 | 6.12 | 6.73 | 6.08 | 5.99 | 6.40 | 6.43 | 5.30 | 6.23 | 6.11 |
| Temperature (degree C) | - | - | - | 15.47 | 15.83 | 16.27 | 15.84 | 15.23 | 15.04 | 15.88 | 15.83 | 14.30 | 15.36 | 15.42 |
| Specific Conductance (mS/cm) | - | - | - | 0.182 | 0.217 | 0.283 | 0.24 | 0.169 | 0.620 | 0.289 | 0.238 | 0.044 | 0.185 | 0.178 |
| Eh (mV) | - | - | - | 34.8 | 23.3 | -70.1 | 23.0 | 33.7 | 34.1 | 47.7 | 39.5 | 34.7 | 76.1 | 34.0 |
| Dissolved Oxygen (mg/L) | - | - | - | 7.33 | 7.94 | 1.18 | 7.62 | 7.56 | 8.23 | 7.66 | 7.71 | 4.06 | 7.56 | 7.15 |
| Turbidity (NTU) | - | - | - | 7.01 | 6.12 | 0.26 | 4.63 | 7.34 | 8.27 | 6.92 | 5.79 | 9.59 | 8.74 | 6.78 |

MCL - Maximum Contaminant Level

J - Estimated value less than the method reporting limit (MRL), but greater than or equal to the method detection limit (MDL).

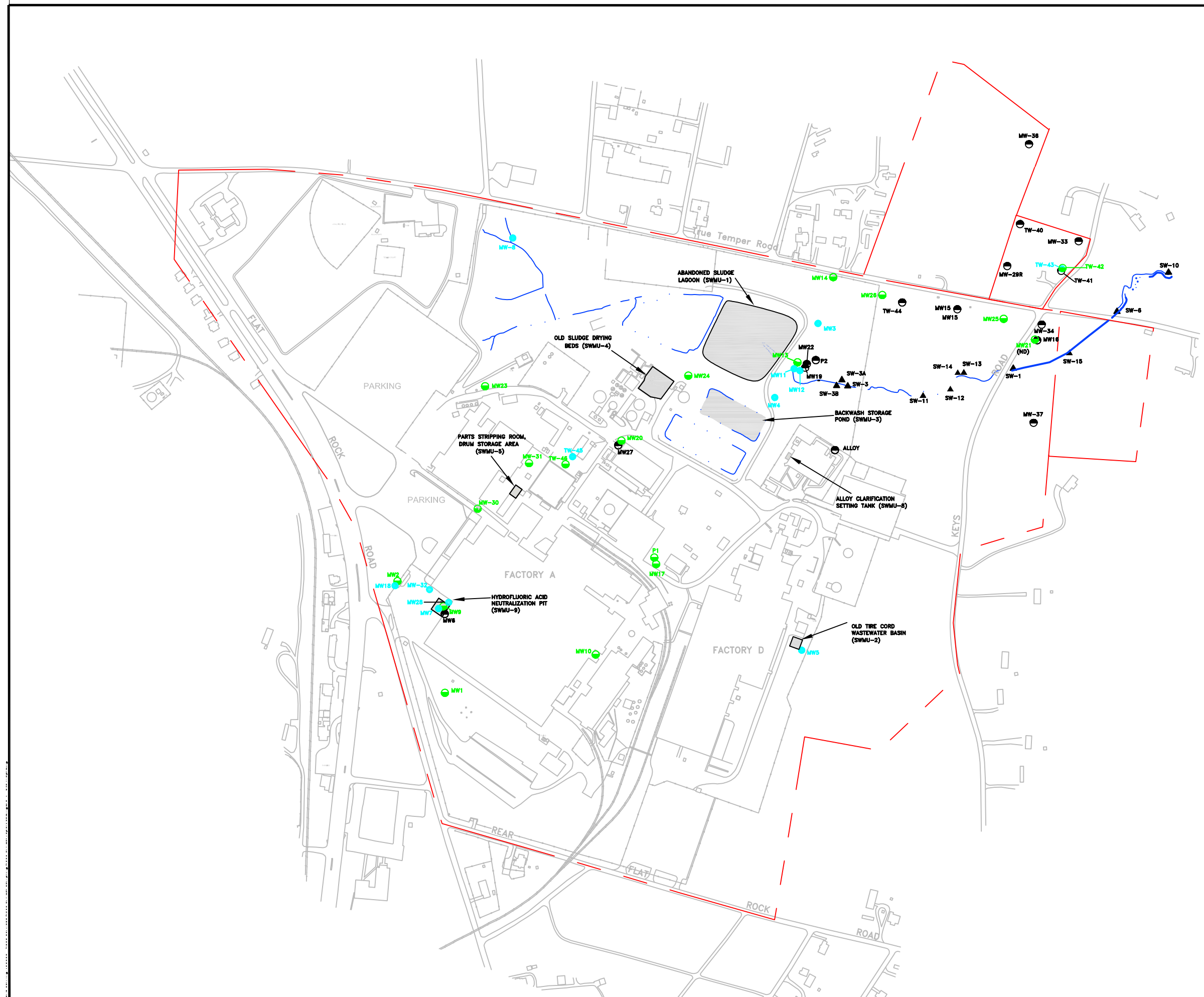
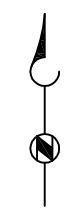
UJ - Nondetected with an estimated limit of detection

¹ Region IV Ecological Risk Assessment Bulletins - Supplement to RAGS

² MCL listed for Chloroform is for Total Trihalomethanes.

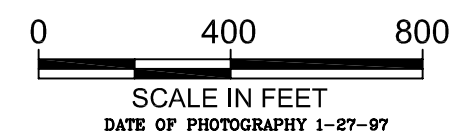
SW - Surface Water

Bold VOC results indicates concentration above the MCL.



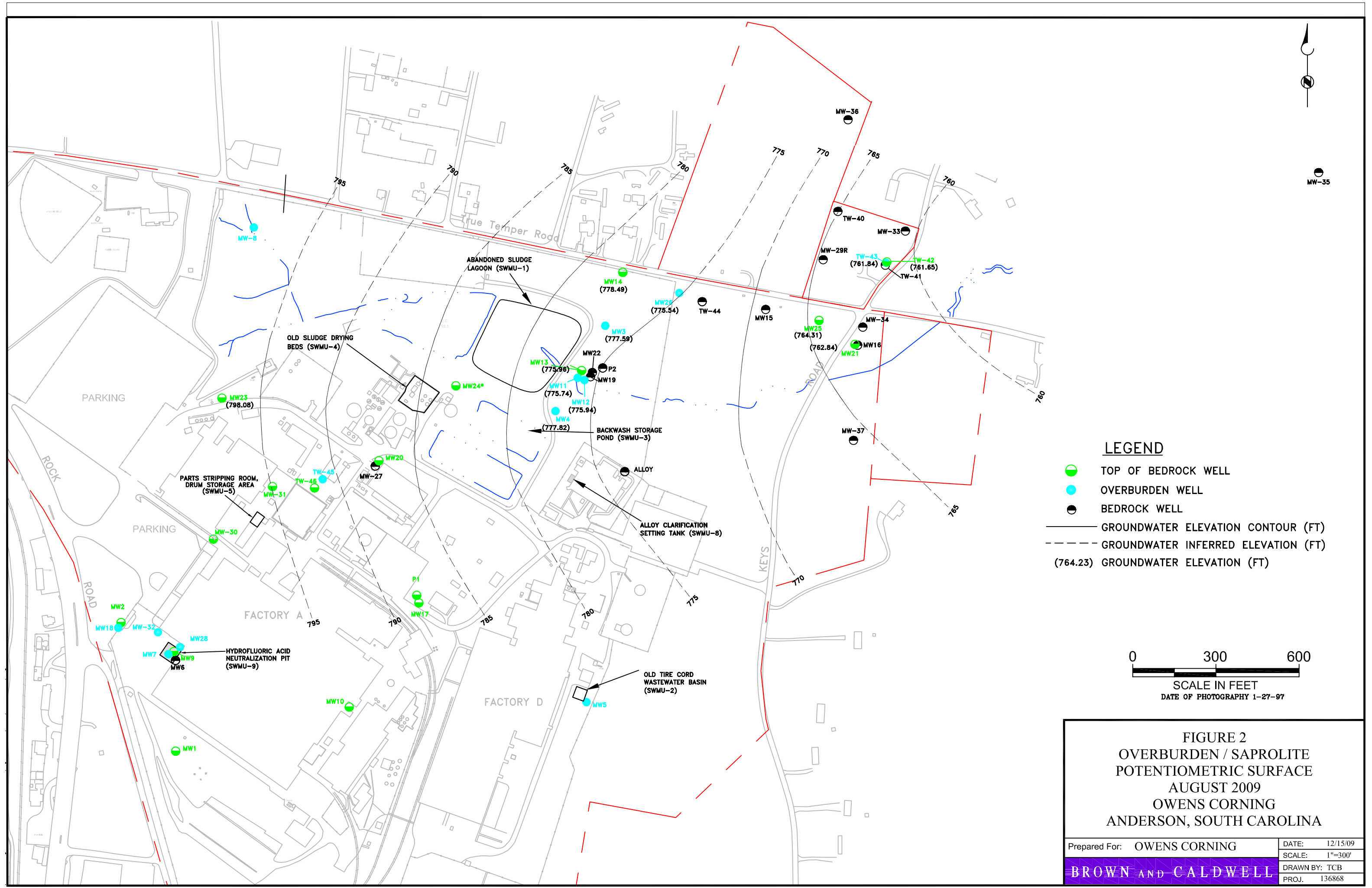
LEGEND

- PROPERTY BOUNDARY
- OVERBURDEN WELLS
- TOP OF ROCK WELLS
- BEDROCK WELLS
- ▲ SURFACE WATER MONITORING LOCATION



**FIGURE 1
SITE MAP
OWENS CORNING
ANDERSON, SOUTH CAROLINA**

| | |
|-----------------------------|----------------|
| Prepared For: OWENS CORNING | DATE: 12/03/08 |
| BROWN AND CALDWELL | SCALE: 1"=400' |
| | DRAWN BY: TCB |
| | PROJ. 135809 |



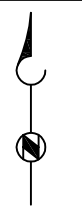
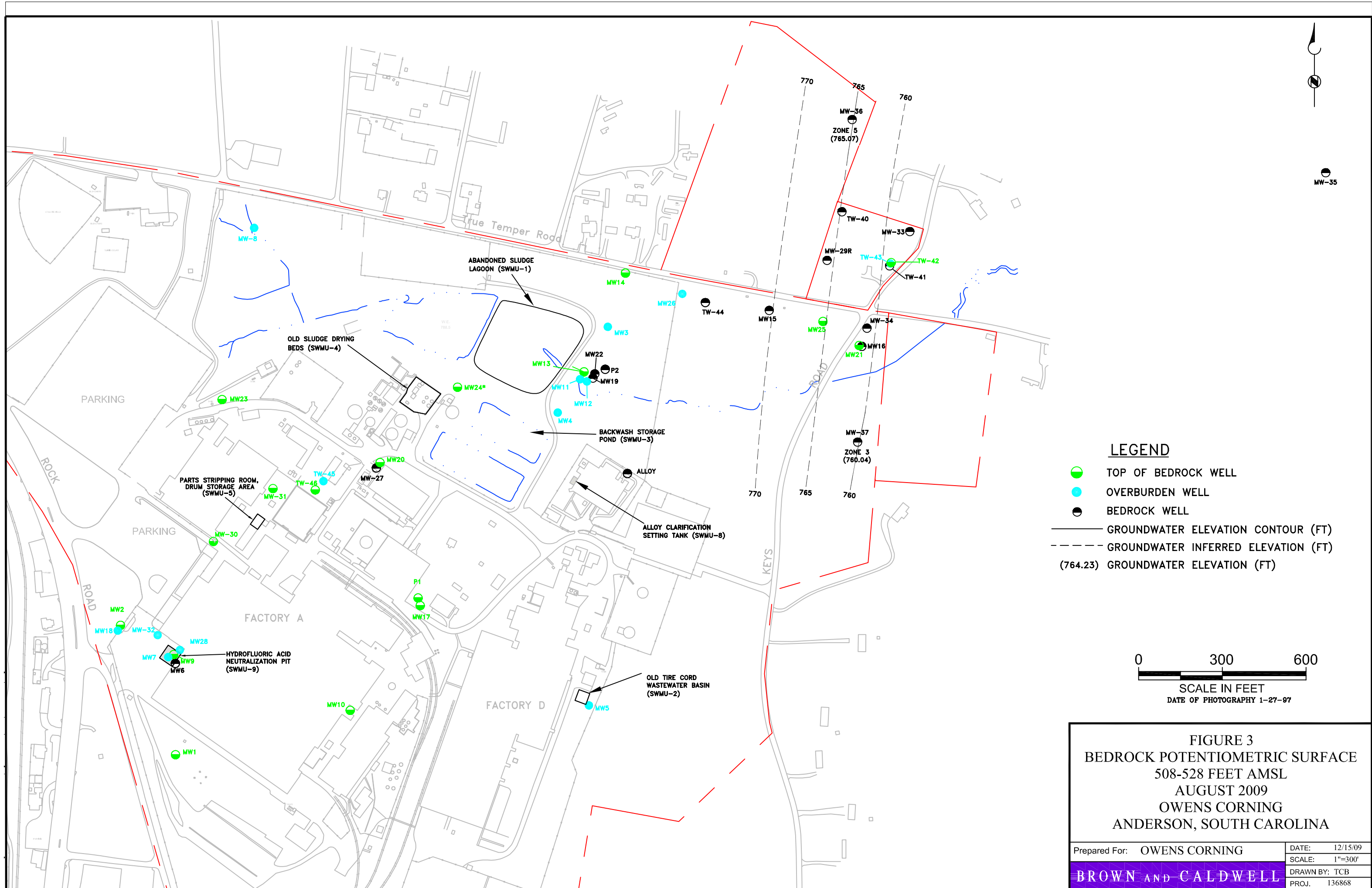
LEGEND

- TOP OF BEDROCK WELL
- OVERBURDEN WELL
- BEDROCK WELL
- GROUNDWATER ELEVATION CONTOUR (FT)
- - - GROUNDWATER INFERRED ELEVATION (FT)
- (764.23) GROUNDWATER ELEVATION (FT)

0 300 600
 SCALE IN FEET
 DATE OF PHOTOGRAPHY 1-27-97

FIGURE 2
OVERBURDEN / SAPROLITE
POTENTIOMETRIC SURFACE
AUGUST 2009
OWENS CORNING
ANDERSON, SOUTH CAROLINA

| | |
|-----------------------------|----------------|
| Prepared For: OWENS CORNING | DATE: 12/15/09 |
| | SCALE: 1"=300' |
| BROWN AND CALDWELL | |
| | DRAWN BY: TCB |
| | PROJ. 136868 |



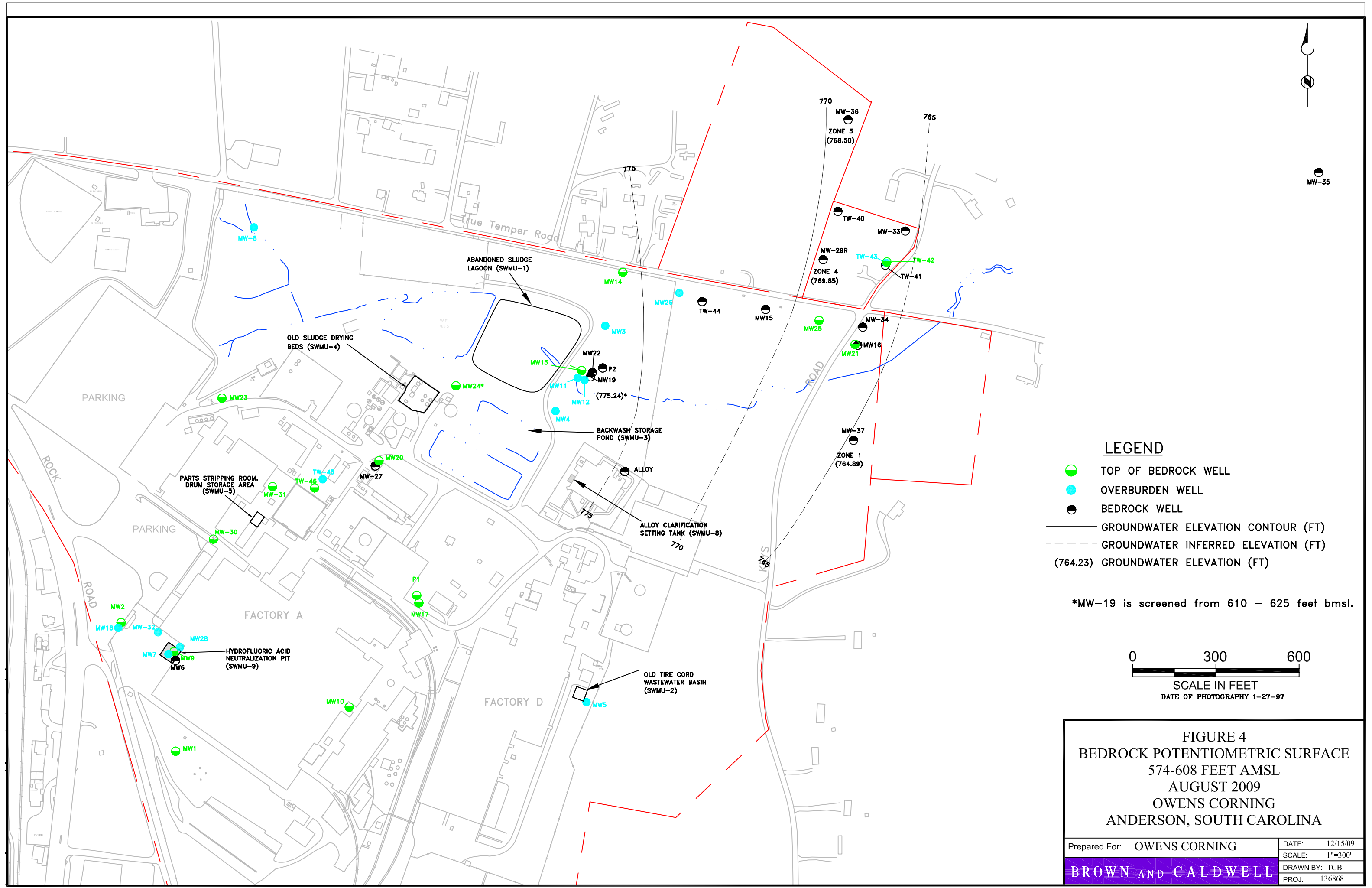
MW-35

- LEGEND**
- TOP OF BEDROCK WELL
 - OVERBURDEN WELL
 - BEDROCK WELL
 - GROUNDWATER ELEVATION CONTOUR (FT)
 - - - GROUNDWATER INFERRED ELEVATION (FT)
 - (764.23) GROUNDWATER ELEVATION (FT)

0 300 600
 SCALE IN FEET
 DATE OF PHOTOGRAPHY 1-27-97

FIGURE 3
BEDROCK POTENTIOMETRIC SURFACE
 508-528 FEET AMSL
 AUGUST 2009
 OWENS CORNING
 ANDERSON, SOUTH CAROLINA

| | |
|-----------------------------|----------------|
| Prepared For: OWENS CORNING | DATE: 12/15/09 |
| | SCALE: 1"=300' |
| BROWN AND CALDWELL | DRAWN BY: TCB |
| | PROJ. 136868 |



- LEGEND**
- TOP OF BEDROCK WELL
 - OVERBURDEN WELL
 - BEDROCK WELL
 - GROUNDWATER ELEVATION CONTOUR (FT)
 - - - GROUNDWATER INFERRED ELEVATION (FT)
 - (764.23) GROUNDWATER ELEVATION (FT)

*MW-19 is screened from 610 - 625 feet bmsl.

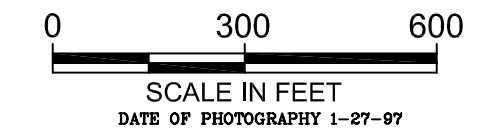
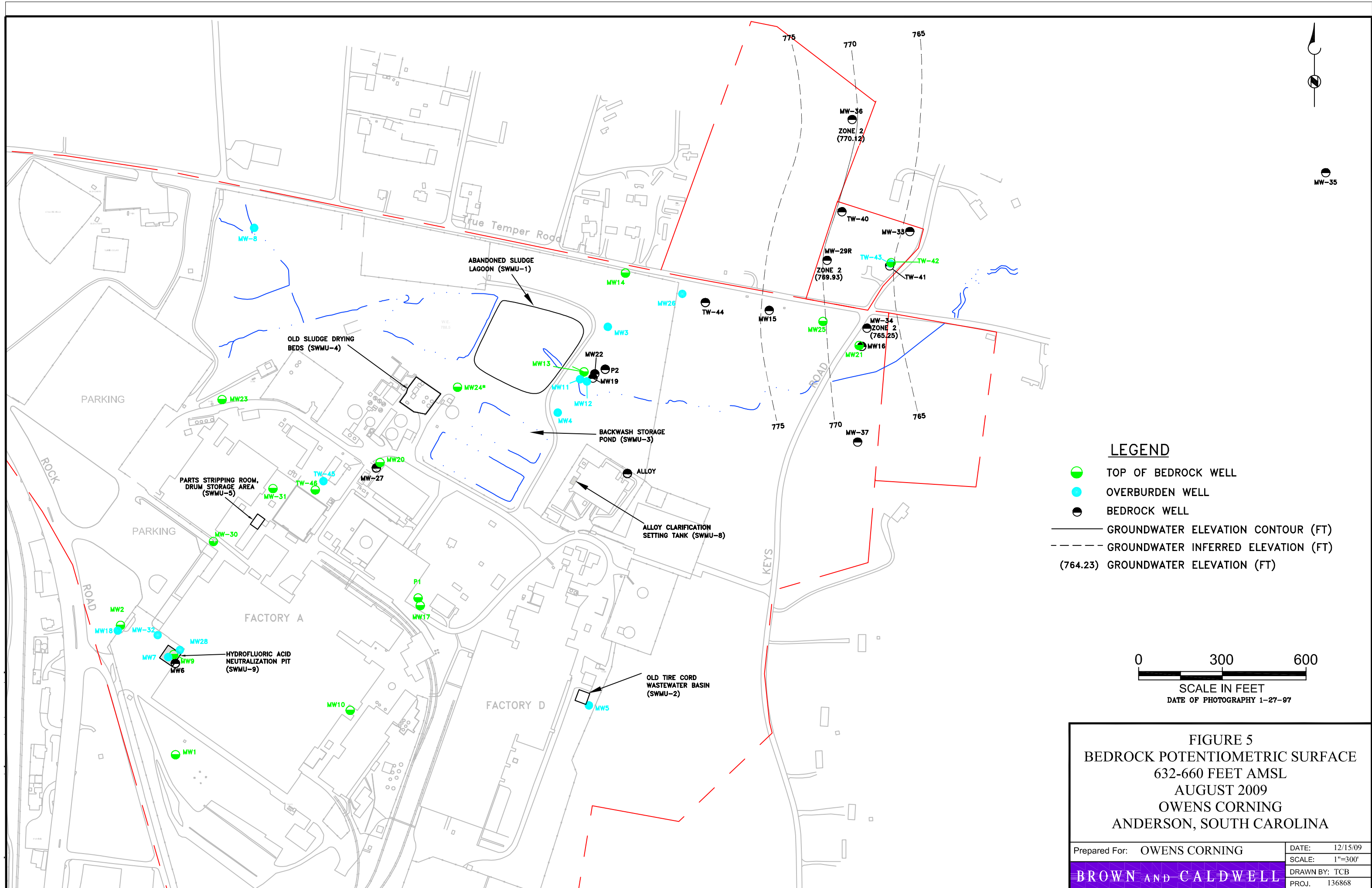


FIGURE 4
BEDROCK POTENTIOMETRIC SURFACE
 574-608 FEET AMSL
 AUGUST 2009
 OWENS CORNING
 ANDERSON, SOUTH CAROLINA

| | |
|-----------------------------|----------------|
| Prepared For: OWENS CORNING | DATE: 12/15/09 |
| | SCALE: 1"=300' |
| BROWN AND CALDWELL | DRAWN BY: TCB |
| | PROJ. 136868 |



LEGEND

- TOP OF BEDROCK WELL
- OVERBURDEN WELL
- BEDROCK WELL
- GROUNDWATER ELEVATION CONTOUR (FT)
- - - GROUNDWATER INFERRED ELEVATION (FT)
- (764.23) GROUNDWATER ELEVATION (FT)

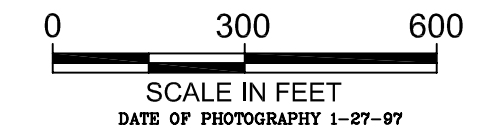
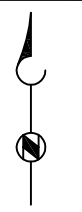
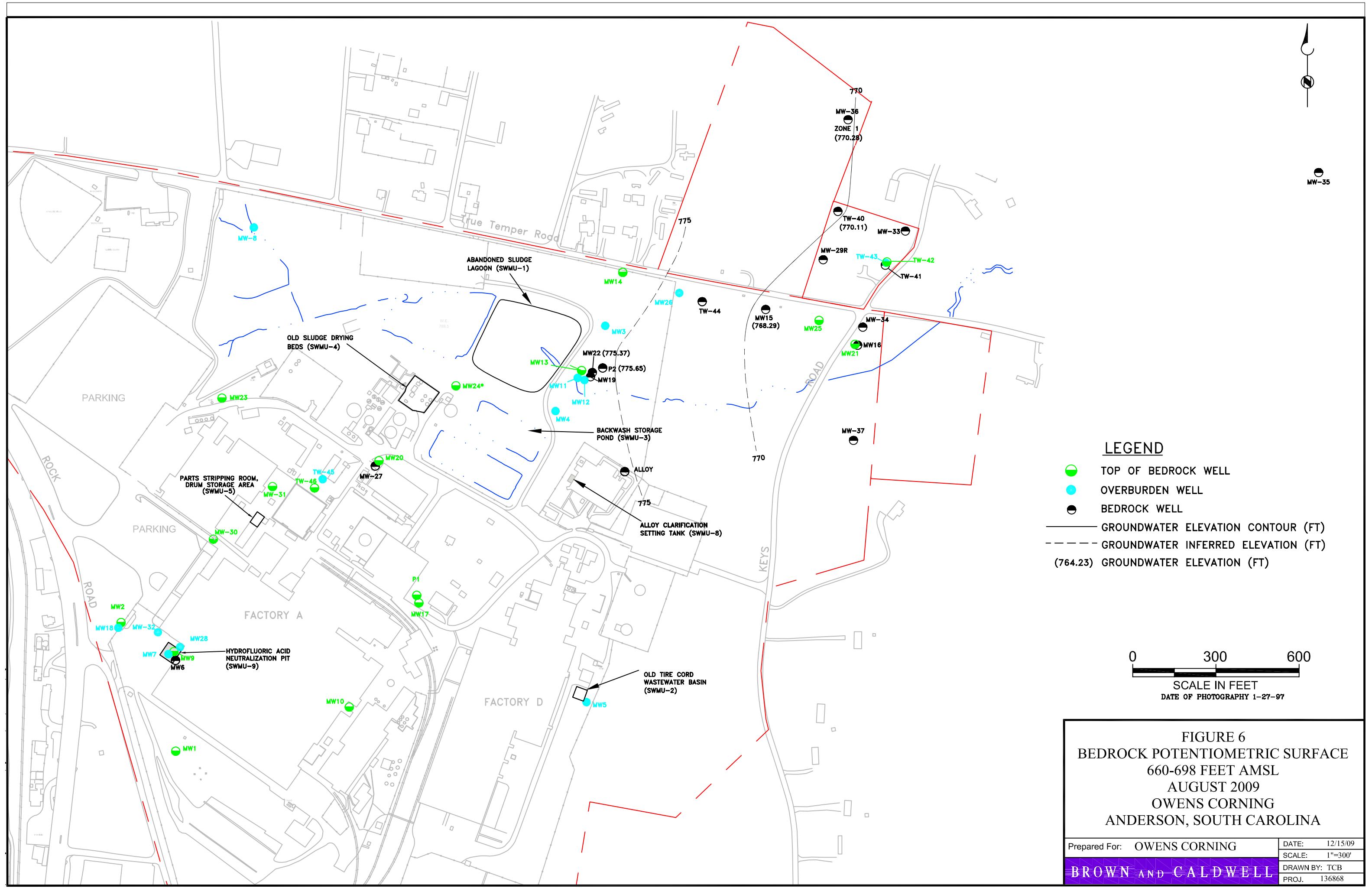


FIGURE 5
BEDROCK POTENTIOMETRIC SURFACE
 632-660 FEET AMSL
 AUGUST 2009
 OWENS CORNING
 ANDERSON, SOUTH CAROLINA

| | |
|-----------------------------|----------------|
| Prepared For: OWENS CORNING | DATE: 12/15/09 |
| | SCALE: 1"=300' |
| BROWN AND CALDWELL | DRAWN BY: TCB |
| | PROJ. 136868 |



MW-35

- LEGEND**
- TOP OF BEDROCK WELL
 - OVERBURDEN WELL
 - BEDROCK WELL
 - GROUNDWATER ELEVATION CONTOUR (FT)
 - - - GROUNDWATER INFERRED ELEVATION (FT)
 - (764.23) GROUNDWATER ELEVATION (FT)

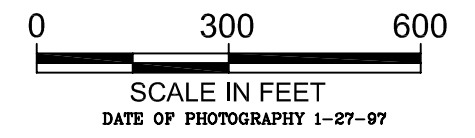
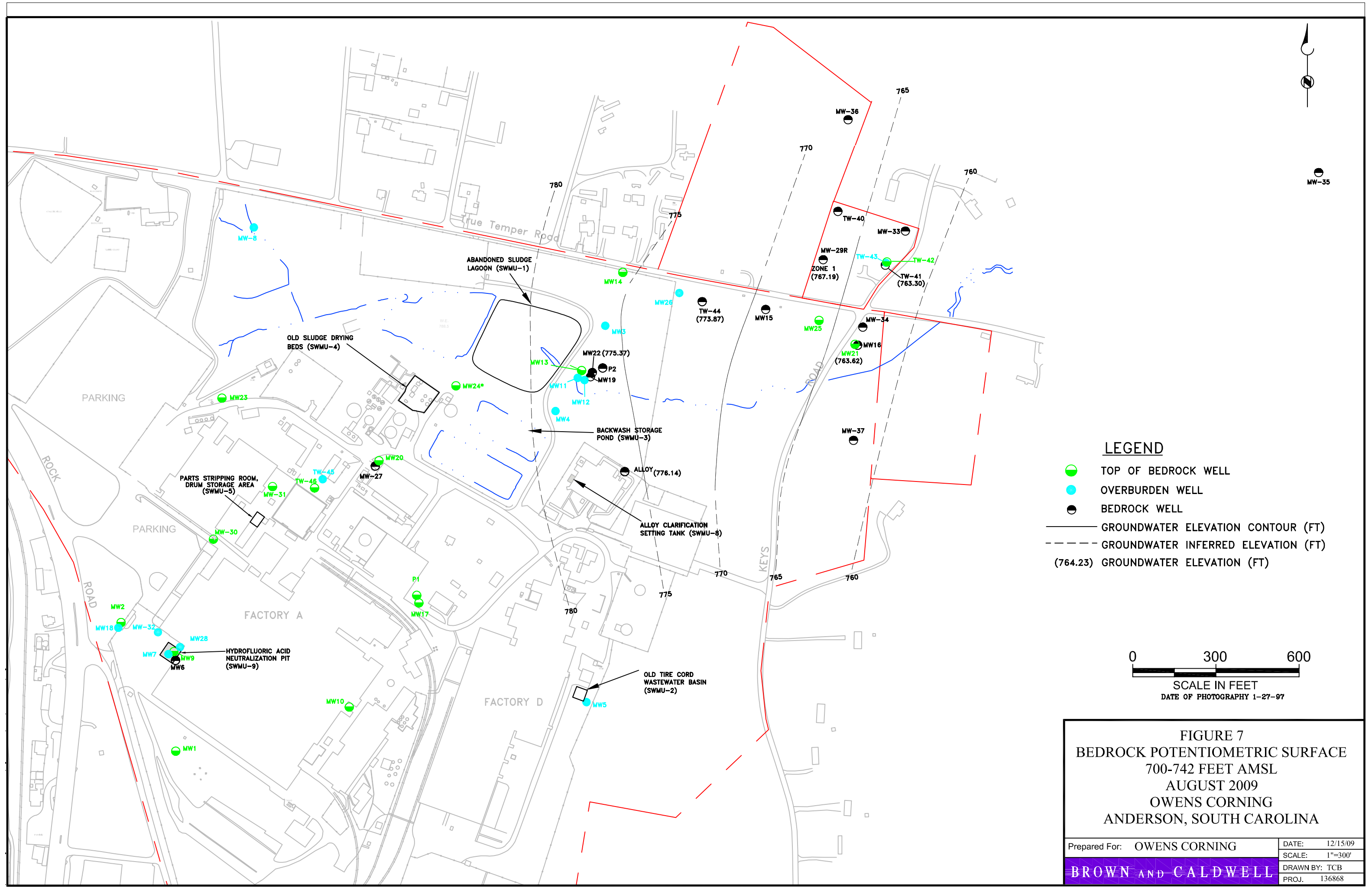


FIGURE 6
BEDROCK POTENTIOMETRIC SURFACE
660-698 FEET AMSL
AUGUST 2009
OWENS CORNING
ANDERSON, SOUTH CAROLINA

| | |
|-----------------------------|----------------|
| Prepared For: OWENS CORNING | DATE: 12/15/09 |
| | SCALE: 1"=300' |
| BROWN AND CALDWELL | DRAWN BY: TCB |
| | PROJ. 136868 |



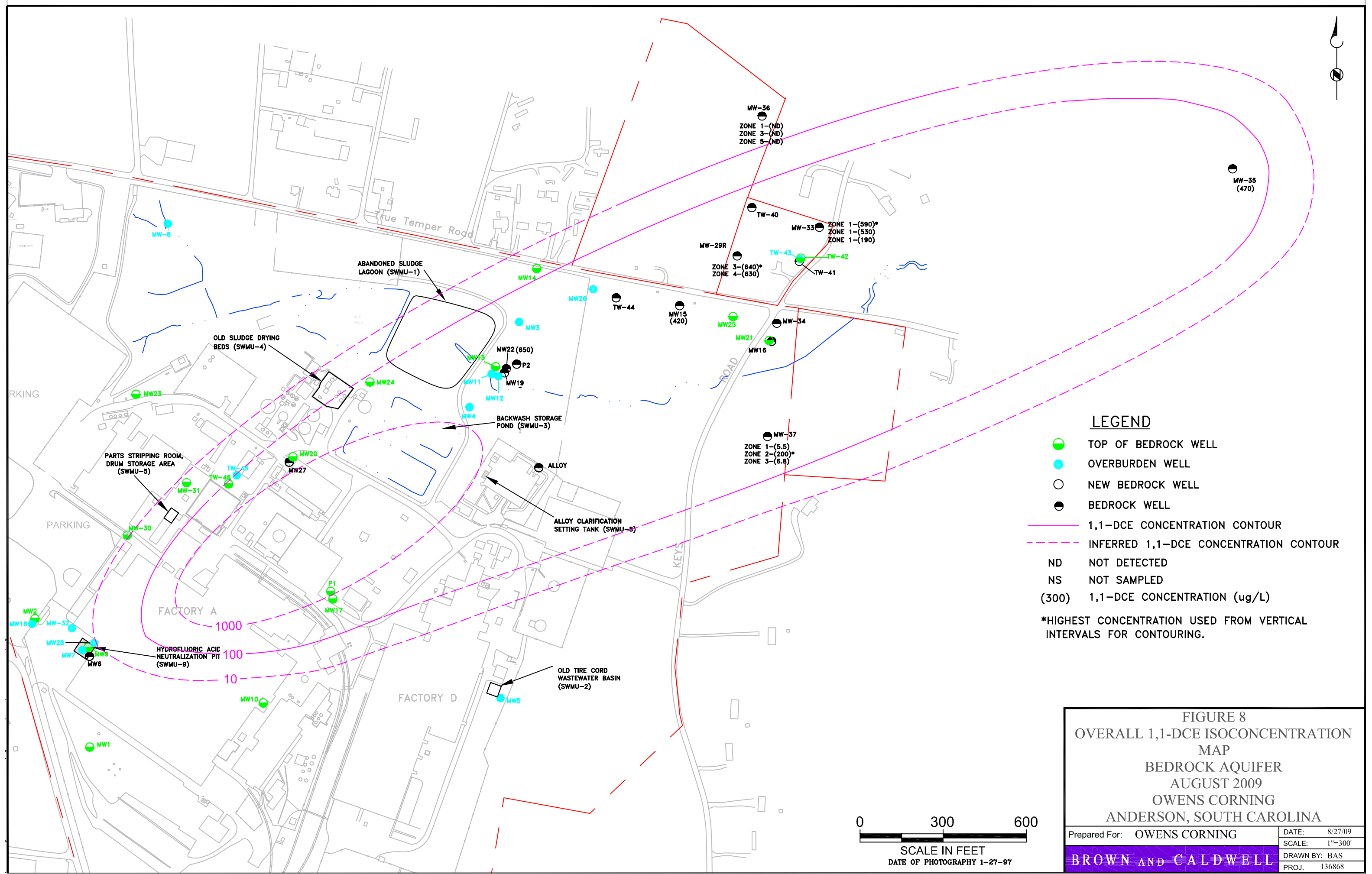
LEGEND

- TOP OF BEDROCK WELL
- OVERBURDEN WELL
- BEDROCK WELL
- GROUNDWATER ELEVATION CONTOUR (FT)
- - - GROUNDWATER INFERRED ELEVATION (FT)
- (764.23) GROUNDWATER ELEVATION (FT)

0 300 600
 SCALE IN FEET
 DATE OF PHOTOGRAPHY 1-27-97

FIGURE 7
BEDROCK POTENTIOMETRIC SURFACE
700-742 FEET AMSL
AUGUST 2009
OWENS CORNING
ANDERSON, SOUTH CAROLINA

| | |
|-----------------------------|----------------|
| Prepared For: OWENS CORNING | DATE: 12/15/09 |
| | SCALE: 1"=300' |
| BROWN AND CALDWELL | |
| | DRAWN BY: TCB |
| | PROJ. 136868 |



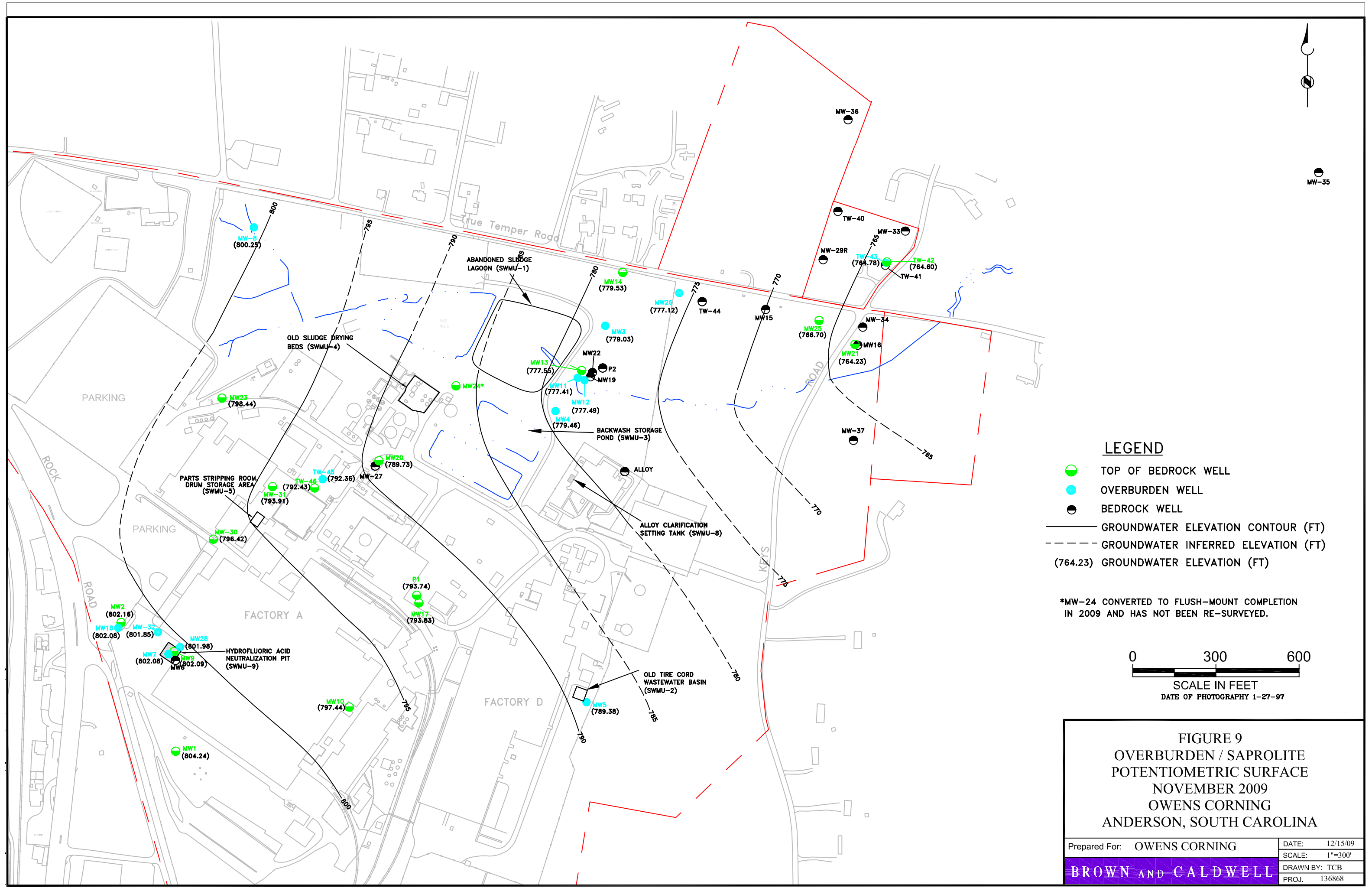
LEGEND

- TOP OF BEDROCK WELL
- OVERBURDEN WELL
- NEW BEDROCK WELL
- BEDROCK WELL
- 1,1-DCE CONCENTRATION CONTOUR
- INFERRED 1,1-DCE CONCENTRATION CONTOUR
- ND NOT DETECTED
- NS NOT SAMPLED
- (300) 1,1-DCE CONCENTRATION (ug/L)
- *HIGHEST CONCENTRATION USED FROM VERTICAL INTERVALS FOR CONTOURING.

FIGURE 8
OVERALL 1,1-DCE ISOCONCENTRATION
MAP
BEDROCK AQUIFER
AUGUST 2009
OWENS CORNING
ANDERSON, SOUTH CAROLINA

| | |
|-----------------------------|----------------|
| Prepared For: OWENS CORNING | DATE: 8/27/09 |
| | SCALE: 1"=300' |
| BROWN AND CALDWELL | DRAWN BY: BAS |
| | PROJ. 136868 |

0 300 600
 SCALE IN FEET
 DATE OF PHOTOGRAPHY 1-27-97



LEGEND

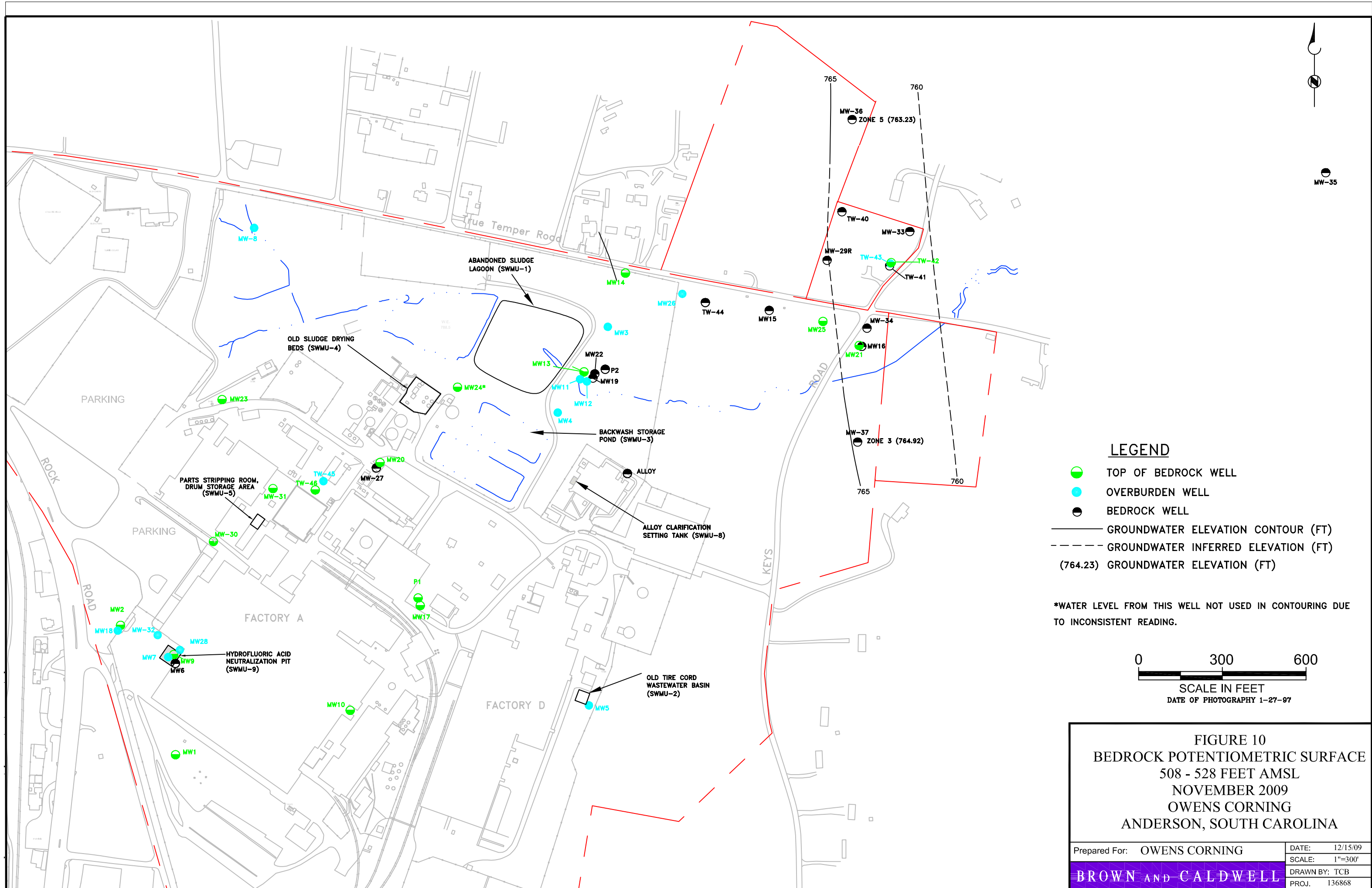
- TOP OF BEDROCK WELL
- OVERBURDEN WELL
- BEDROCK WELL
- GROUNDWATER ELEVATION CONTOUR (FT)
- - - GROUNDWATER INFERRED ELEVATION (FT)
- (764.23) GROUNDWATER ELEVATION (FT)

*MW-24 CONVERTED TO FLUSH-MOUNT COMPLETION IN 2009 AND HAS NOT BEEN RE-SURVEYED.



FIGURE 9
OVERBURDEN / SAPROLITE
POTENTIOMETRIC SURFACE
NOVEMBER 2009
OWENS CORNING
ANDERSON, SOUTH CAROLINA

| | |
|-----------------------------|----------------|
| Prepared For: OWENS CORNING | DATE: 12/15/09 |
| | SCALE: 1"=300' |
| BROWN AND CALDWELL | DRAWN BY: TCB |
| | PROJ. 136868 |



LEGEND

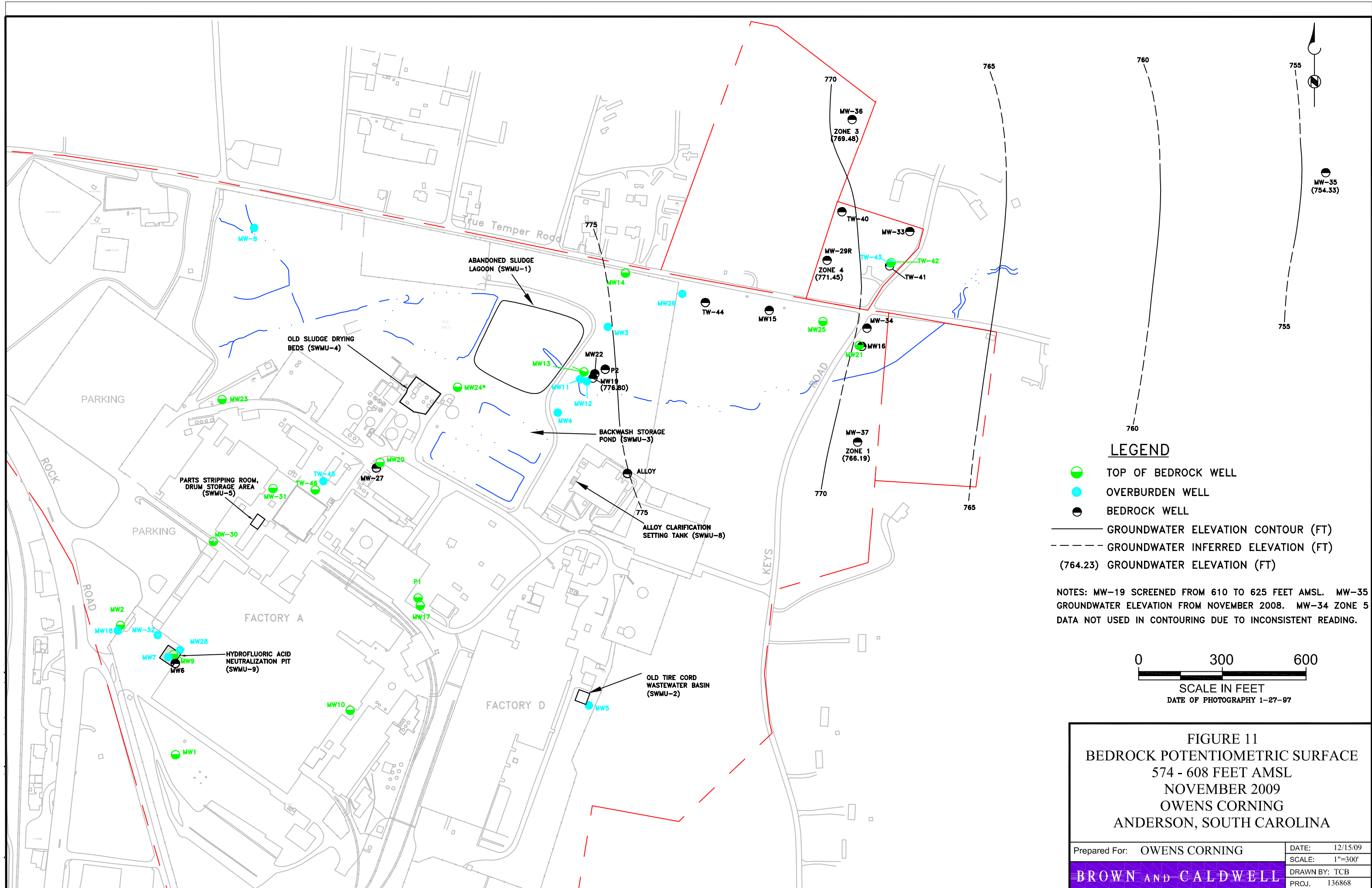
- TOP OF BEDROCK WELL
- OVERBURDEN WELL
- BEDROCK WELL
- GROUNDWATER ELEVATION CONTOUR (FT)
- - - GROUNDWATER INFERRED ELEVATION (FT)
- (764.23) GROUNDWATER ELEVATION (FT)

*WATER LEVEL FROM THIS WELL NOT USED IN CONTOURING DUE TO INCONSISTENT READING.



FIGURE 10
BEDROCK POTENTIOMETRIC SURFACE
508 - 528 FEET AMSL
NOVEMBER 2009
OWENS CORNING
ANDERSON, SOUTH CAROLINA

| | |
|-----------------------------|----------------|
| Prepared For: OWENS CORNING | DATE: 12/15/09 |
| BROWN AND CALDWELL | SCALE: 1"=300' |
| | DRAWN BY: TCB |
| | PROJ. 136868 |



LEGEND

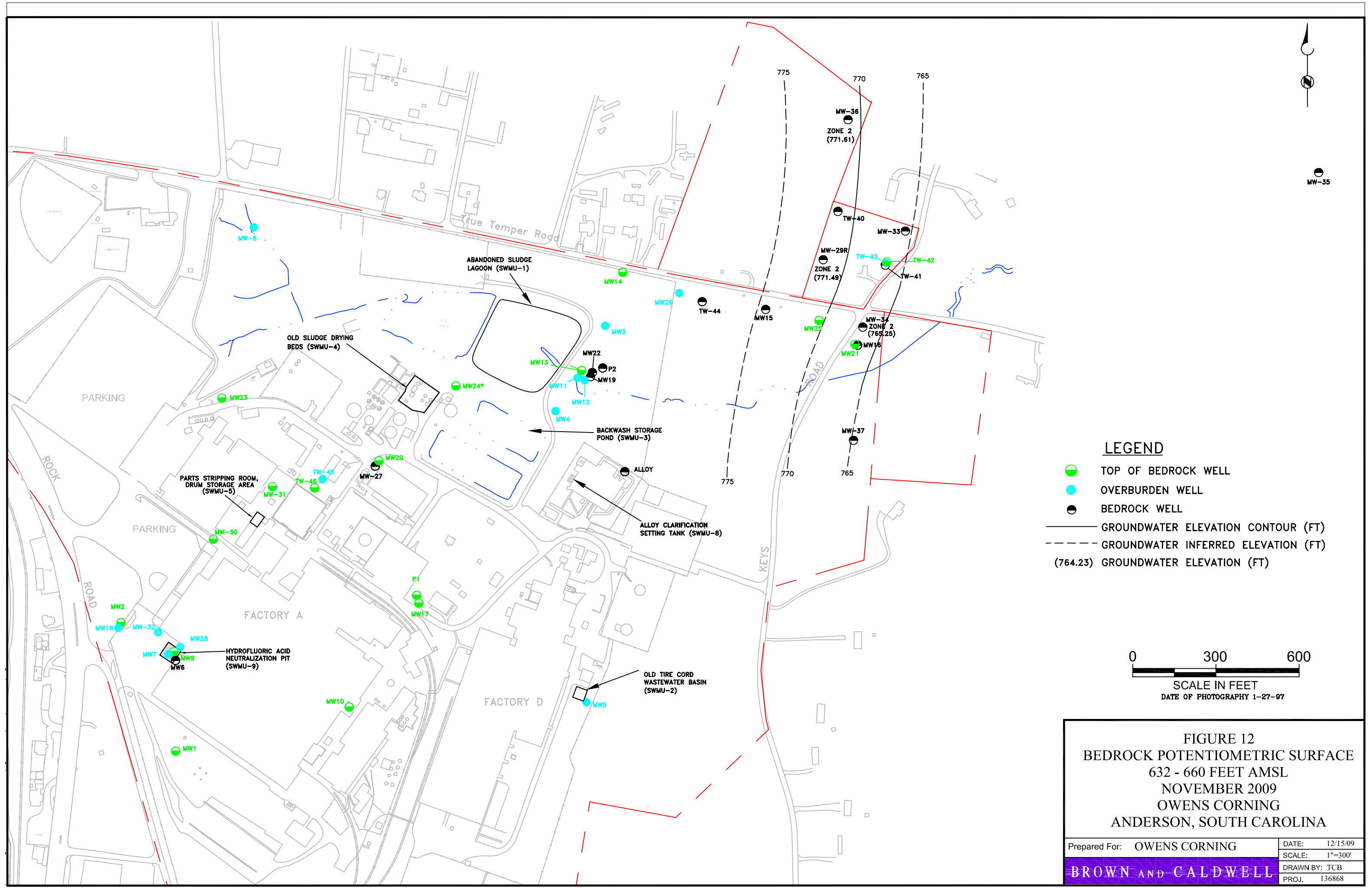
- TOP OF BEDROCK WELL
- OVERBURDEN WELL
- BEDROCK WELL
- GROUNDWATER ELEVATION CONTOUR (FT)
- - - GROUNDWATER INFERRED ELEVATION (FT)
- (764.23) GROUNDWATER ELEVATION (FT)

NOTES: MW-19 SCREENED FROM 610 TO 625 FEET AMSL. MW-35 GROUNDWATER ELEVATION FROM NOVEMBER 2008. MW-34 ZONE 5 DATA NOT USED IN CONTOURING DUE TO INCONSISTENT READING.

0 300 600
 SCALE IN FEET
 DATE OF PHOTOGRAPHY 1-27-97

FIGURE 11
BEDROCK POTENTIOMETRIC SURFACE
 574 - 608 FEET AMSL
 NOVEMBER 2009
 OWENS CORNING
 ANDERSON, SOUTH CAROLINA

| | |
|-----------------------------|----------------|
| Prepared For: OWENS CORNING | DATE: 12/15/09 |
| BROWN AND CALDWELL | SCALE: 1"=300' |
| | DRAWN BY: TCB |
| | PROJ. 136868 |



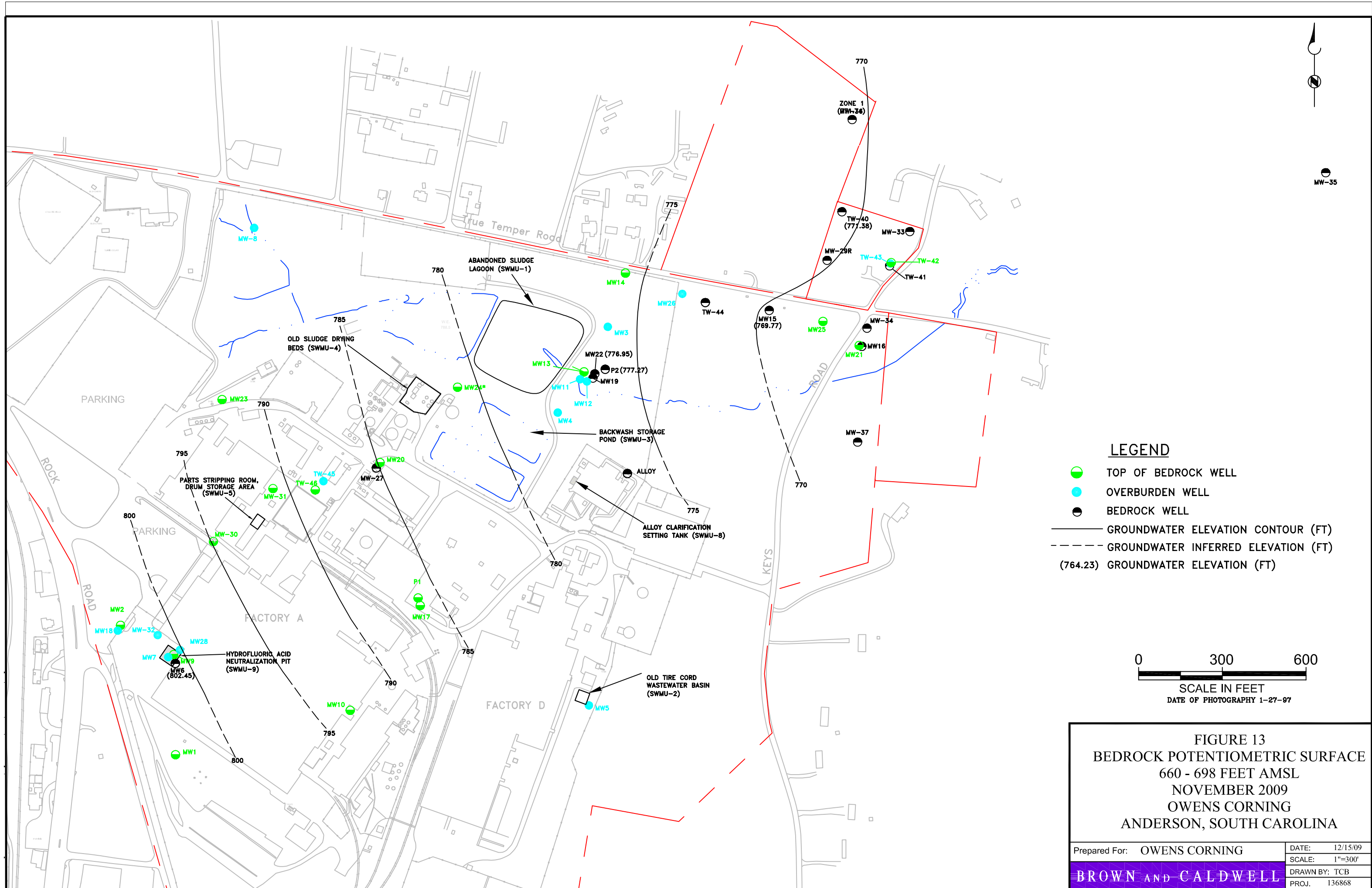
LEGEND

- TOP OF BEDROCK WELL
- OVERBURDEN WELL
- BEDROCK WELL
- GROUNDWATER ELEVATION CONTOUR (FT)
- - - GROUNDWATER INFERRED ELEVATION (FT)
- (764.23) GROUNDWATER ELEVATION (FT)

0 300 600
 SCALE IN FEET
 DATE OF PHOTOGRAPHY 1-27-97

FIGURE 12
BEDROCK POTENTIOMETRIC SURFACE
 632 - 660 FEET AMSL
 NOVEMBER 2009
 OWENS CORNING
 ANDERSON, SOUTH CAROLINA

| | |
|-----------------------------|----------------|
| Prepared For: OWENS CORNING | DATE: 12/15/09 |
| | SCALE: 1"=300' |
| BROWN AND CALDWELL | DRAWN BY: TCB |
| | PROJ. 136868 |

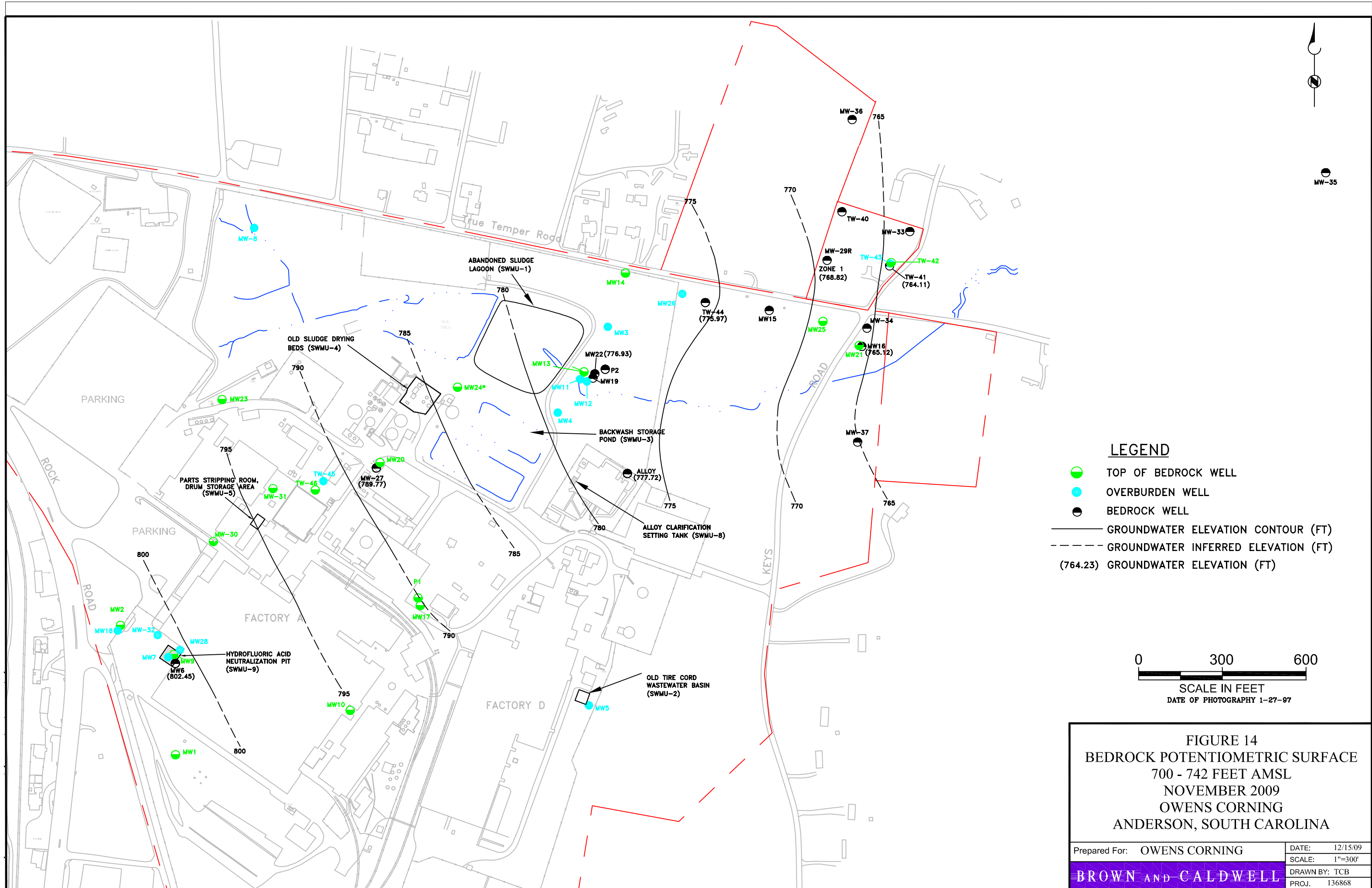


- LEGEND**
- TOP OF BEDROCK WELL
 - OVERBURDEN WELL
 - BEDROCK WELL
 - GROUNDWATER ELEVATION CONTOUR (FT)
 - - - GROUNDWATER INFERRED ELEVATION (FT)
 - (764.23) GROUNDWATER ELEVATION (FT)

0 300 600
 SCALE IN FEET
 DATE OF PHOTOGRAPHY 1-27-97

FIGURE 13
BEDROCK POTENTIOMETRIC SURFACE
 660 - 698 FEET AMSL
 NOVEMBER 2009
 OWENS CORNING
 ANDERSON, SOUTH CAROLINA

| | |
|-----------------------------|----------------|
| Prepared For: OWENS CORNING | DATE: 12/15/09 |
| | SCALE: 1"=300' |
| BROWN AND CALDWELL | |
| | DRAWN BY: TCB |
| | PROJ. 136868 |

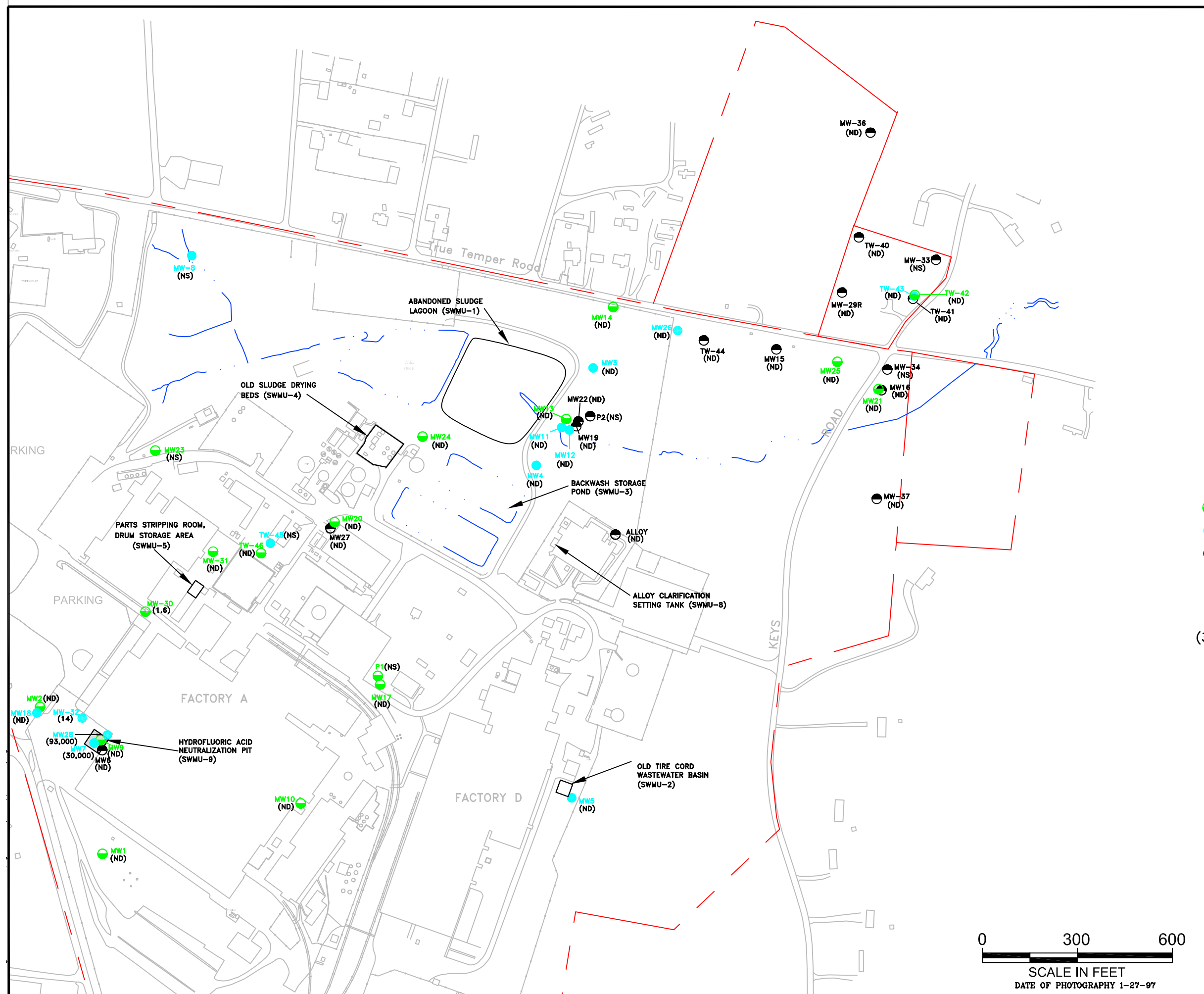


- LEGEND**
- TOP OF BEDROCK WELL
 - OVERBURDEN WELL
 - BEDROCK WELL
 - GROUNDWATER ELEVATION CONTOUR (FT)
 - - - GROUNDWATER INFERRED ELEVATION (FT)
 - (764.23) GROUNDWATER ELEVATION (FT)

0 300 600
 SCALE IN FEET
 DATE OF PHOTOGRAPHY 1-27-97

FIGURE 14
BEDROCK POTENTIOMETRIC SURFACE
 700 - 742 FEET AMSL
 NOVEMBER 2009
 OWENS CORNING
 ANDERSON, SOUTH CAROLINA

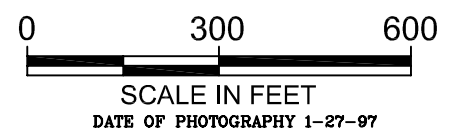
| | |
|-----------------------------|----------------|
| Prepared For: OWENS CORNING | DATE: 12/15/09 |
| | SCALE: 1"=300' |
| BROWN AND CALDWELL | DRAWN BY: TCB |
| | PROJ. 136868 |

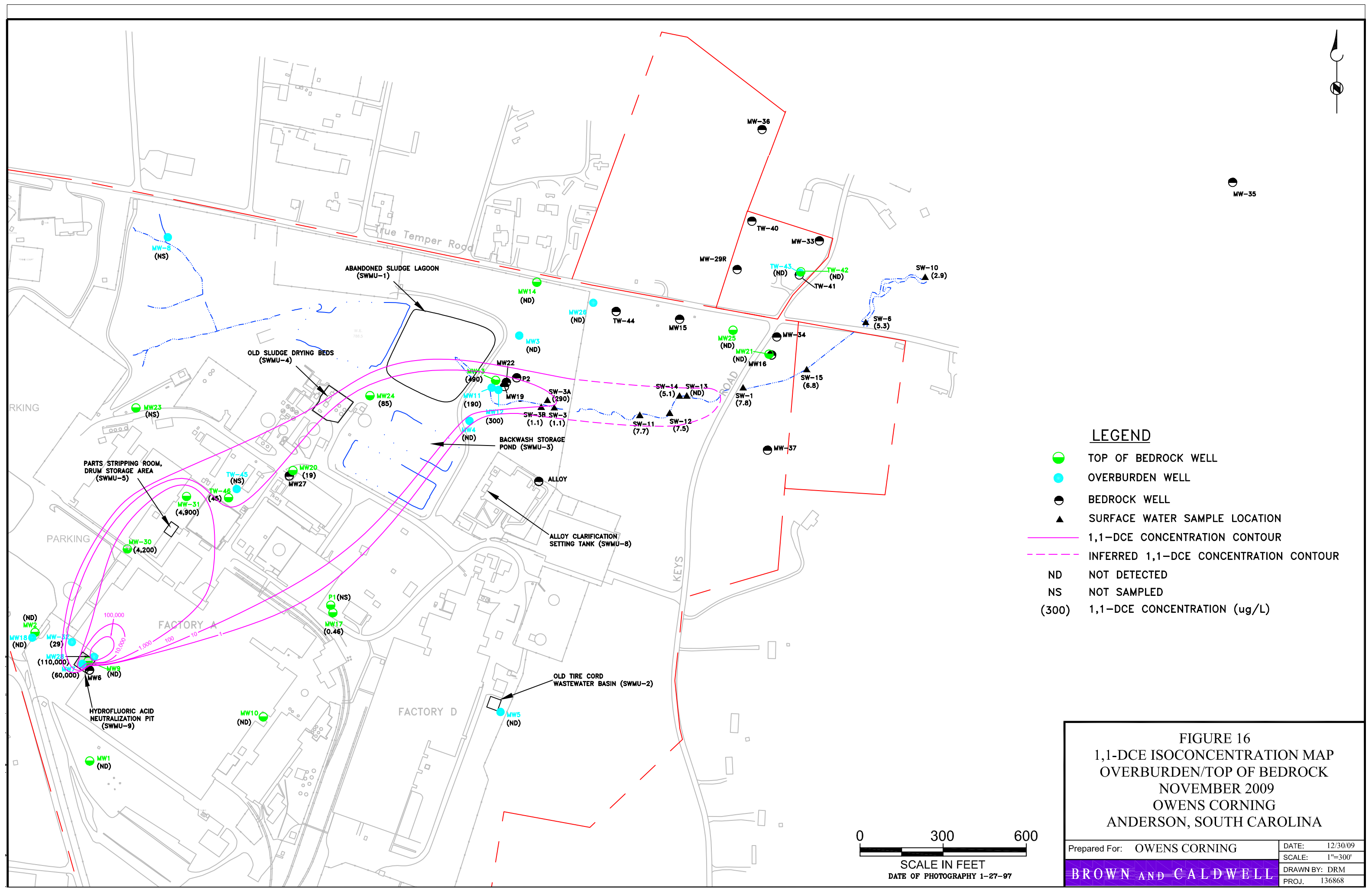


- LEGEND**
- TOP OF BEDROCK WELL
 - OVERBURDEN WELL
 - NEW BEDROCK WELL
 - BEDROCK WELL
 - ND NOT DETECTED
 - NS NOT SAMPLED
 - (300) 1,1,1-TCA CONCENTRATION (ug/L)

FIGURE 15
1,1,1-TRICHLOROETHANE
CONCENTRATION MAP
NOVEMBER 2009
OWENS CORNING
ANDERSON, SOUTH CAROLINA

| | |
|-----------------------------|----------------|
| Prepared For: OWENS CORNING | DATE: 12/15/09 |
| | SCALE: 1"=300' |
| BROWN AND CALDWELL | DRAWN BY: TCB |
| | PROJ. 136868 |





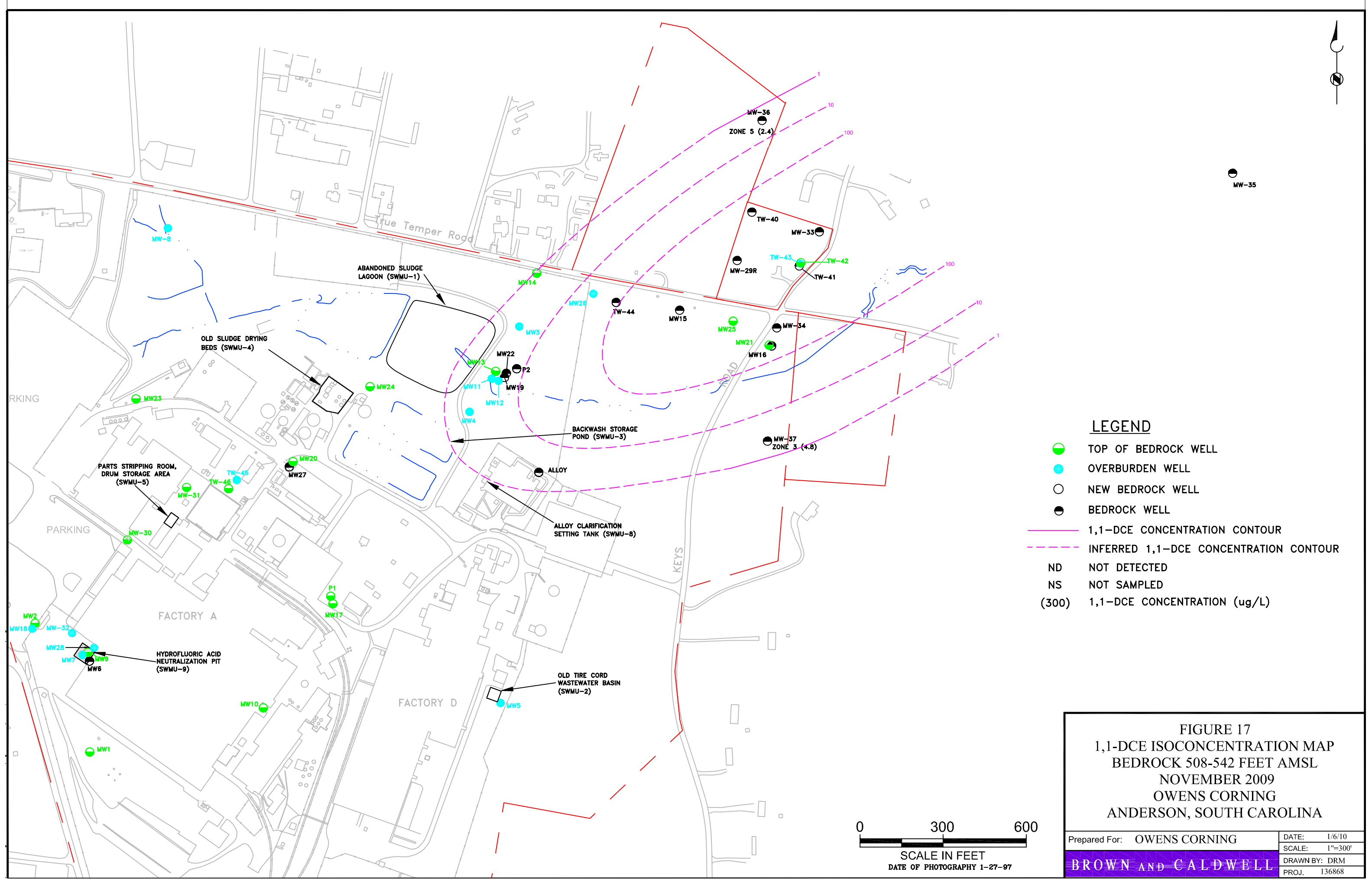
LEGEND

- TOP OF BEDROCK WELL
- OVERBURDEN WELL
- BEDROCK WELL
- ▲ SURFACE WATER SAMPLE LOCATION
- 1,1-DCE CONCENTRATION CONTOUR
- - - INFERRED 1,1-DCE CONCENTRATION CONTOUR
- ND NOT DETECTED
- NS NOT SAMPLED
- (300) 1,1-DCE CONCENTRATION (ug/L)

FIGURE 16
1,1-DCE ISOCONCENTRATION MAP
OVERBURDEN/TOP OF BEDROCK
NOVEMBER 2009
OWENS CORNING
ANDERSON, SOUTH CAROLINA

0 300 600
 SCALE IN FEET
 DATE OF PHOTOGRAPHY 1-27-97

| | |
|-----------------------------|----------------|
| Prepared For: OWENS CORNING | DATE: 12/30/09 |
| BROWN AND CALDWELL | SCALE: 1"=300' |
| | DRAWN BY: DRM |
| | PROJ. 136868 |



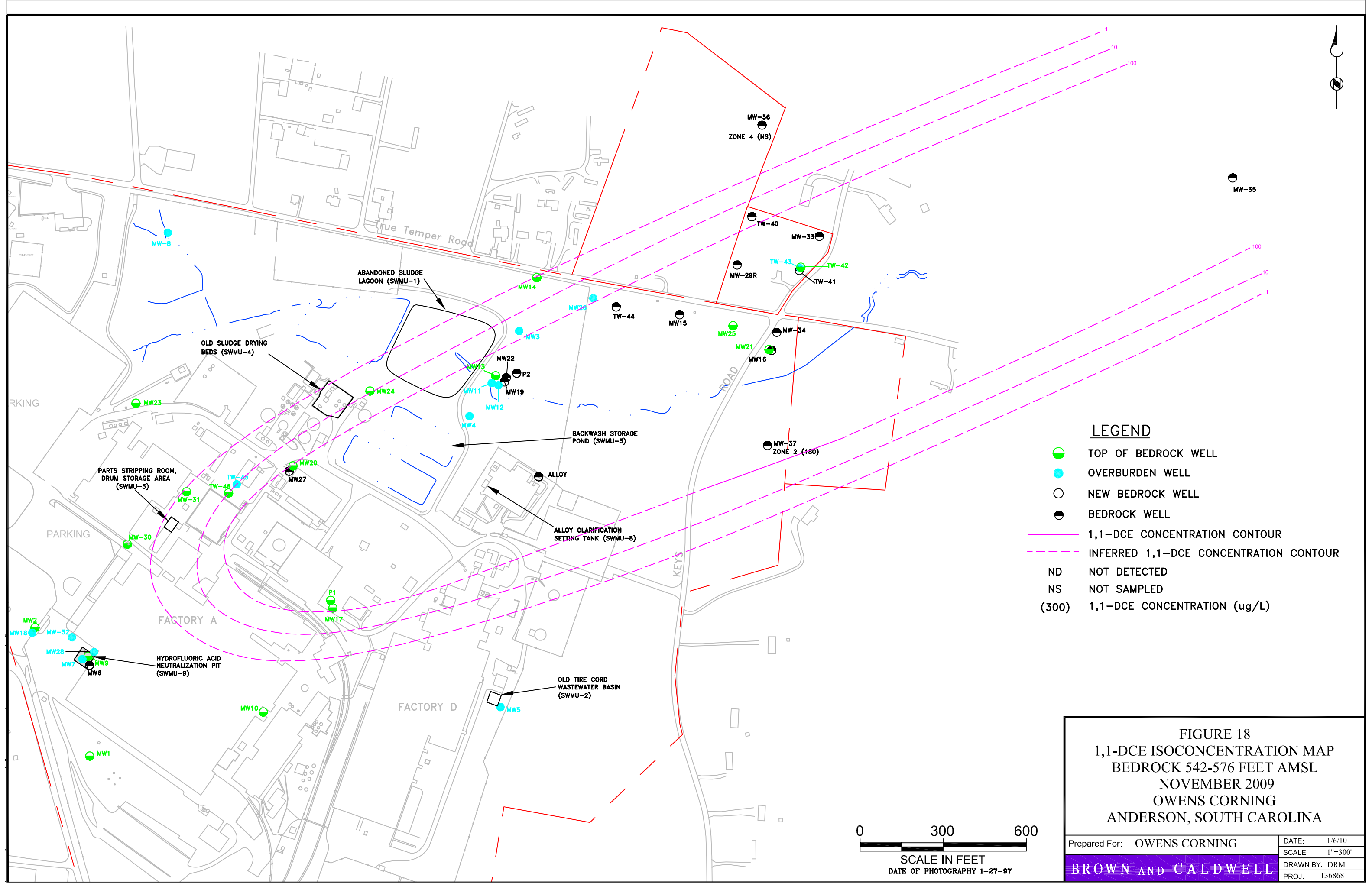
LEGEND

- TOP OF BEDROCK WELL
- OVERBURDEN WELL
- NEW BEDROCK WELL
- BEDROCK WELL
- 1,1-DCE CONCENTRATION CONTOUR
- INFERRED 1,1-DCE CONCENTRATION CONTOUR
- ND NOT DETECTED
- NS NOT SAMPLED
- (300) 1,1-DCE CONCENTRATION (ug/L)

FIGURE 17
1,1-DCE ISOCONCENTRATION MAP
BEDROCK 508-542 FEET AMSL
NOVEMBER 2009
OWENS CORNING
ANDERSON, SOUTH CAROLINA

0 300 600
 SCALE IN FEET
 DATE OF PHOTOGRAPHY 1-27-97

| | |
|-----------------------------|----------------|
| Prepared For: OWENS CORNING | DATE: 1/6/10 |
| BROWN AND CALDWELL | SCALE: 1"=300' |
| | DRAWN BY: DRM |
| | PROJ. 136868 |



LEGEND

- TOP OF BEDROCK WELL
- OVERBURDEN WELL
- NEW BEDROCK WELL
- BEDROCK WELL
- 1,1-DCE CONCENTRATION CONTOUR
- - - INFERRED 1,1-DCE CONCENTRATION CONTOUR
- ND NOT DETECTED
- NS NOT SAMPLED
- (300) 1,1-DCE CONCENTRATION (ug/L)

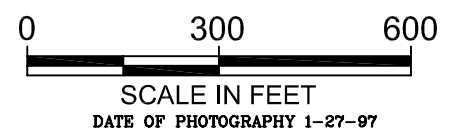
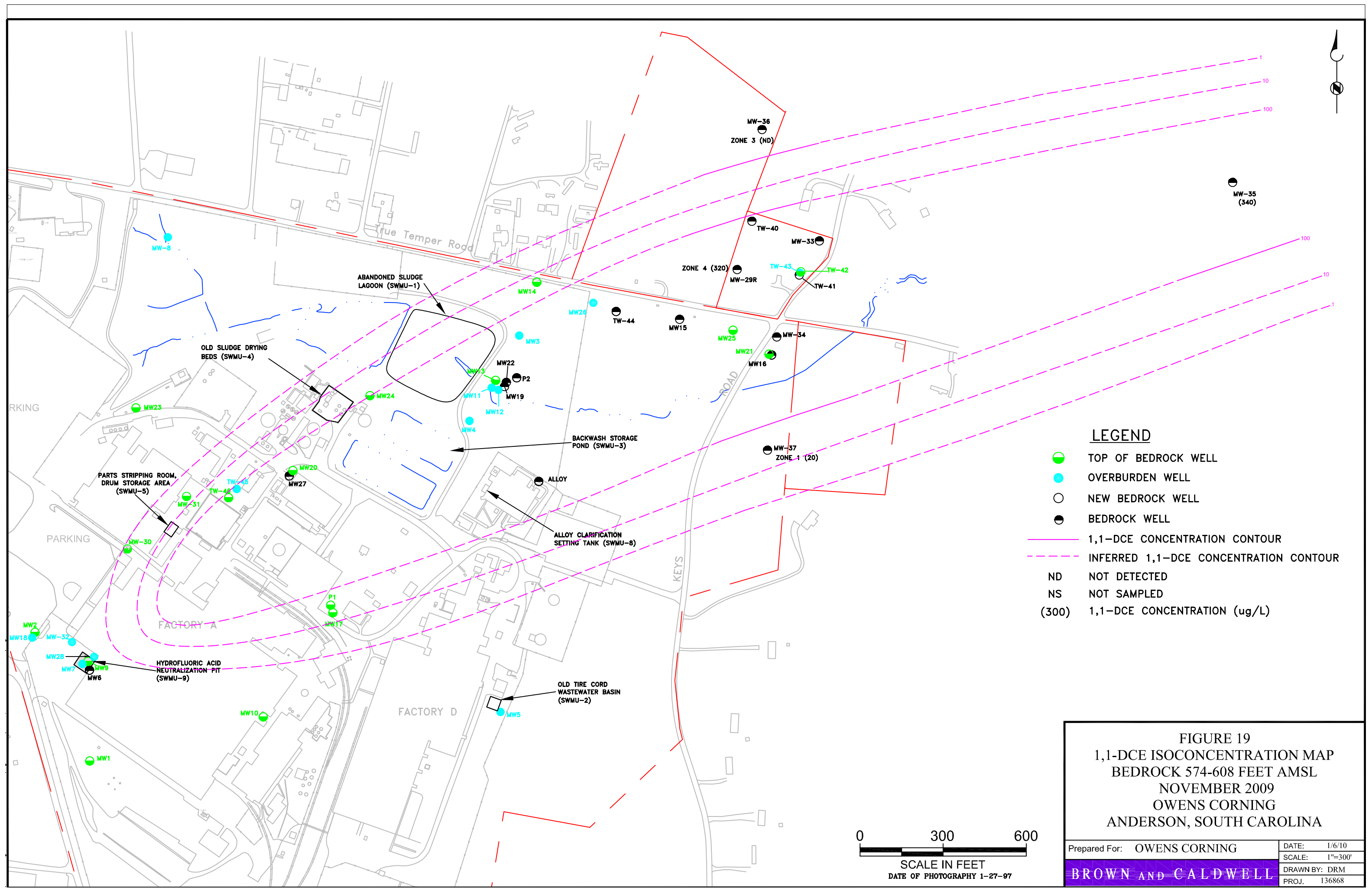


FIGURE 18
1,1-DCE ISOCONCENTRATION MAP
 BEDROCK 542-576 FEET AMSL
 NOVEMBER 2009
 OWENS CORNING
 ANDERSON, SOUTH CAROLINA

| | |
|-----------------------------|----------------|
| Prepared For: OWENS CORNING | DATE: 1/6/10 |
| BROWN AND CALDWELL | SCALE: 1"=300' |
| | DRAWN BY: DRM |
| | PROJ. 136868 |



LEGEND

- TOP OF BEDROCK WELL
- OVERBURDEN WELL
- NEW BEDROCK WELL
- BEDROCK WELL
- 1,1-DCE CONCENTRATION CONTOUR
- - - INFERRED 1,1-DCE CONCENTRATION CONTOUR
- ND NOT DETECTED
- NS NOT SAMPLED
- (300) 1,1-DCE CONCENTRATION (ug/L)

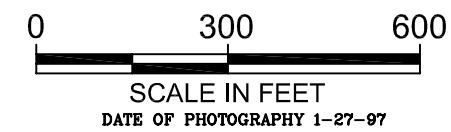
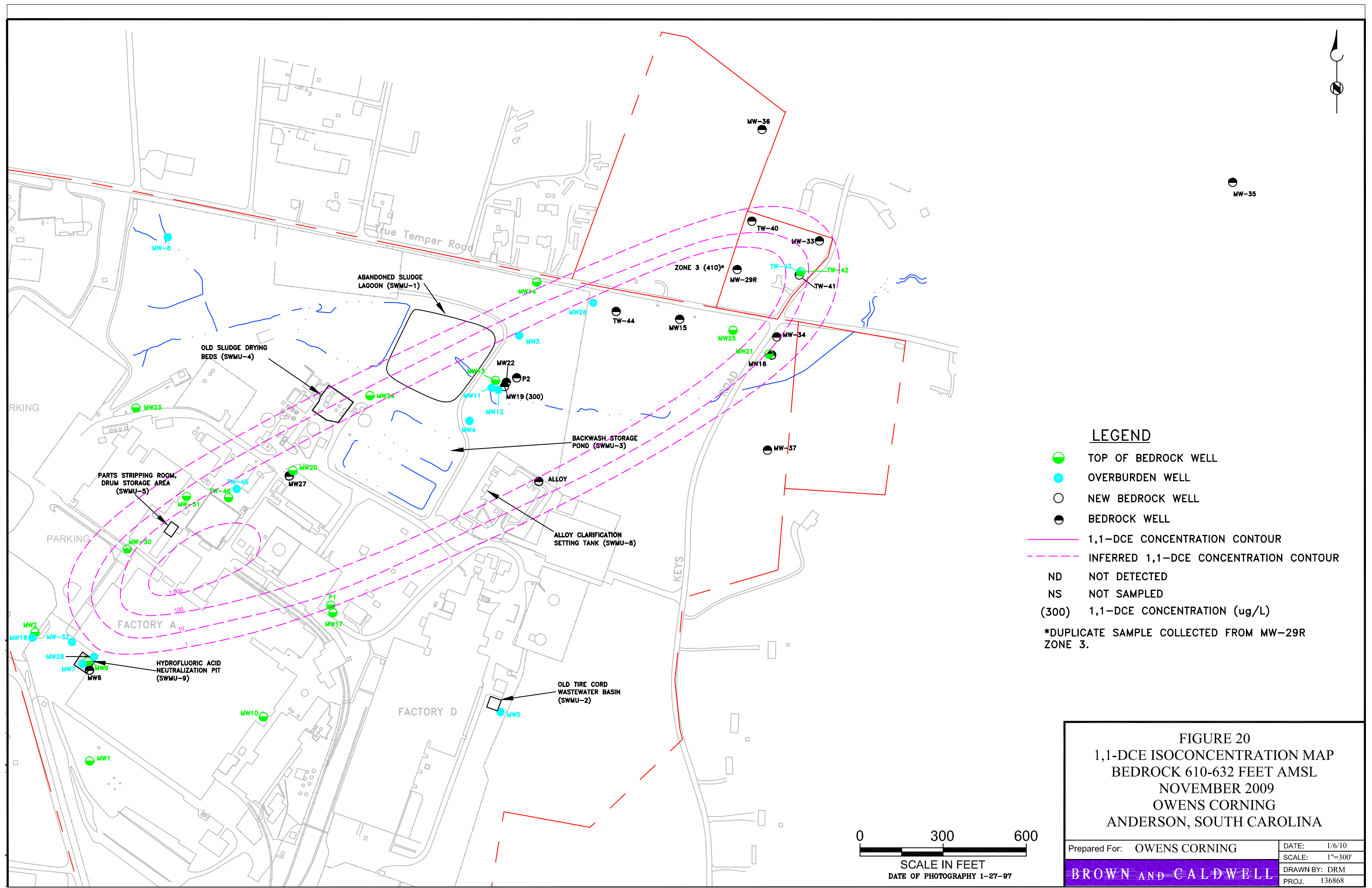


FIGURE 19
1,1-DCE ISOCONCENTRATION MAP
 BEDROCK 574-608 FEET AMSL
 NOVEMBER 2009
 OWENS CORNING
 ANDERSON, SOUTH CAROLINA

| | |
|-----------------------------|----------------|
| Prepared For: OWENS CORNING | DATE: 1/6/10 |
| BROWN AND CALDWELL | SCALE: 1"=300' |
| | DRAWN BY: DRM |
| | PROJ. 136868 |



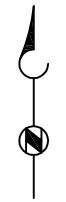
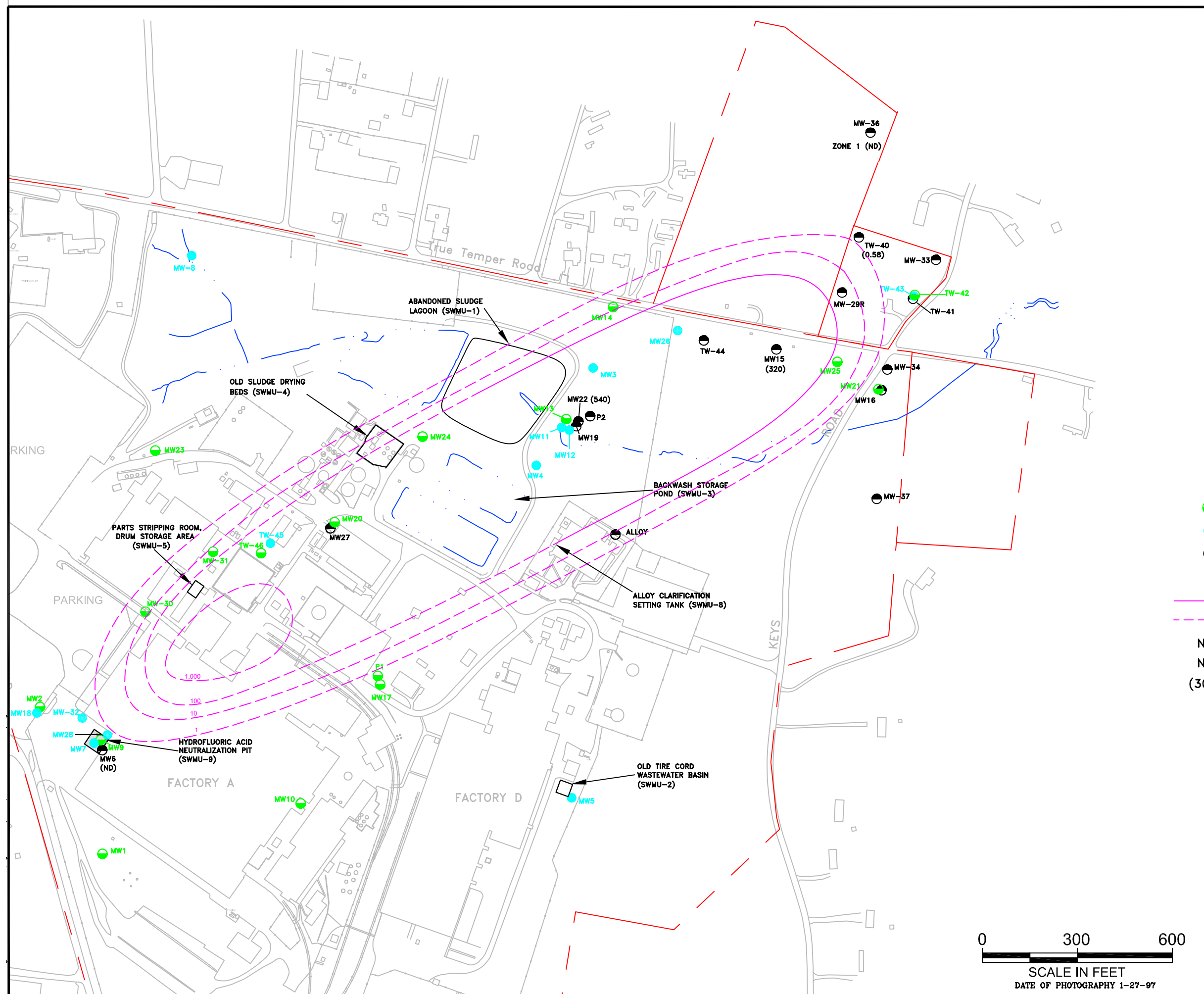
LEGEND

- TOP OF BEDROCK WELL
- OVERBURDEN WELL
- NEW BEDROCK WELL
- BEDROCK WELL
- 1,1-DCE CONCENTRATION CONTOUR
- - - INFERRED 1,1-DCE CONCENTRATION CONTOUR
- ND NOT DETECTED
- NS NOT SAMPLED
- (300) 1,1-DCE CONCENTRATION (ug/L)
- *DUPLICATE SAMPLE COLLECTED FROM MW-29R ZONE 3.

FIGURE 20
1,1-DCE ISOCONCENTRATION MAP
BEDROCK 610-632 FEET AMSL
NOVEMBER 2009
OWENS CORNING
ANDERSON, SOUTH CAROLINA

0 300 600
 SCALE IN FEET
 DATE OF PHOTOGRAPHY 1-27-97

| | |
|-----------------------------|----------------|
| Prepared For: OWENS CORNING | DATE: 1/6/10 |
| BROWN AND CALDWELL | SCALE: 1"=300' |
| | DRAWN BY: DRM |
| | PROJ. 136868 |



- LEGEND**
- TOP OF BEDROCK WELL
 - OVERBURDEN WELL
 - NEW BEDROCK WELL
 - BEDROCK WELL
 - 1,1-DCE CONCENTRATION CONTOUR
 - INFERRED 1,1-DCE CONCENTRATION CONTOUR
 - ND NOT DETECTED
 - NS NOT SAMPLED
 - (300) 1,1-DCE CONCENTRATION (ug/L)

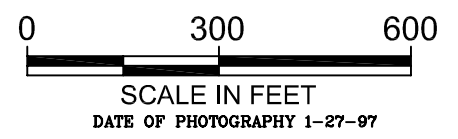
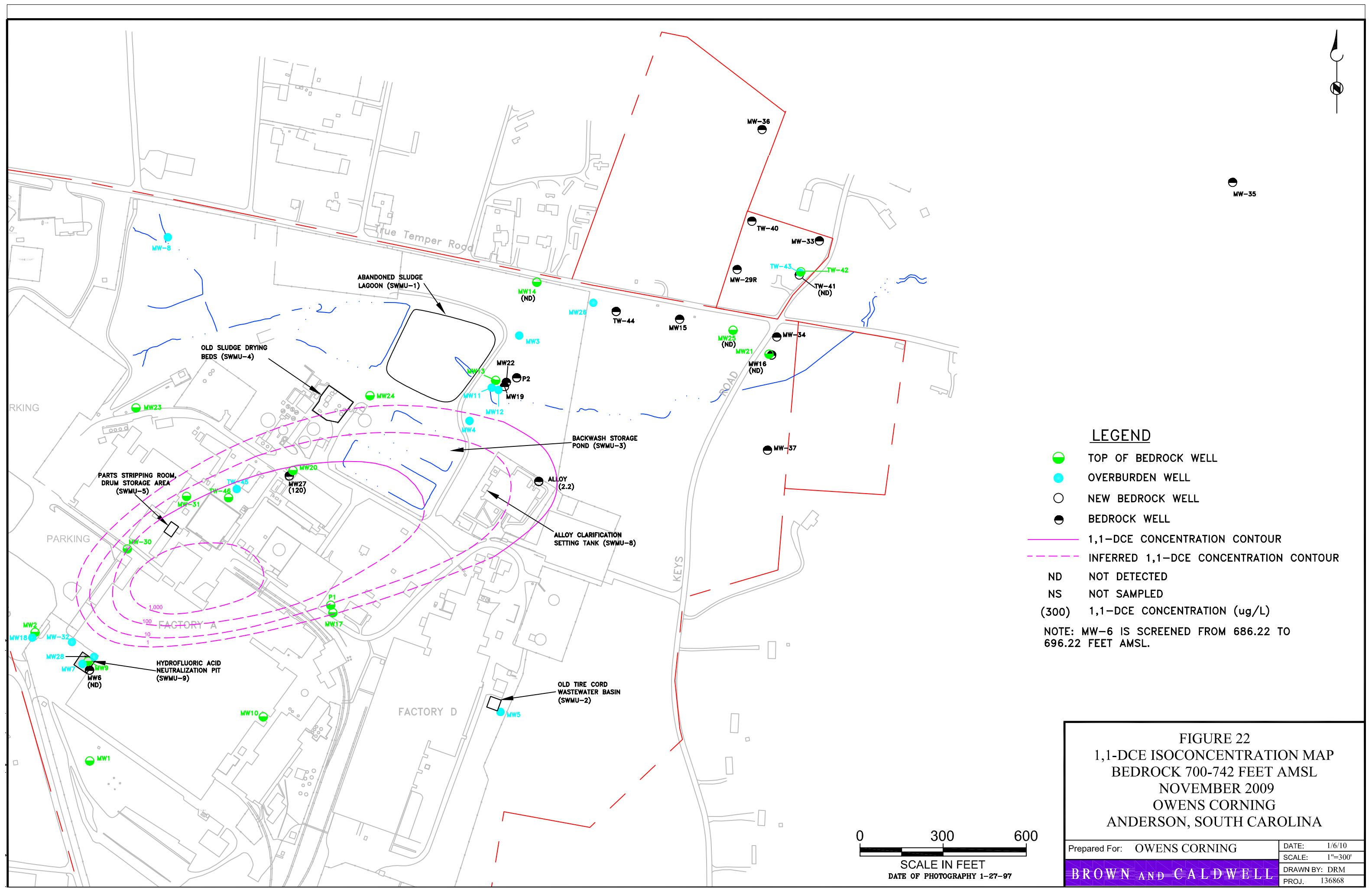


FIGURE 21
1,1-DCE ISOCONCENTRATION MAP
BEDROCK 660-698 FEET AMSL
NOVEMBER 2009
OWENS CORNING
ANDERSON, SOUTH CAROLINA

| | |
|-----------------------------|----------------|
| Prepared For: OWENS CORNING | DATE: 1/6/10 |
| BROWN AND CALDWELL | SCALE: 1"=300' |
| | DRAWN BY: DRM |
| | PROJ. 136868 |



LEGEND

- TOP OF BEDROCK WELL
 - OVERBURDEN WELL
 - NEW BEDROCK WELL
 - BEDROCK WELL
 - 1,1-DCE CONCENTRATION CONTOUR
 - INFERRED 1,1-DCE CONCENTRATION CONTOUR
 - ND NOT DETECTED
 - NS NOT SAMPLED
 - (300) 1,1-DCE CONCENTRATION (ug/L)
- NOTE: MW-6 IS SCREENED FROM 686.22 TO 696.22 FEET AMSL.

FIGURE 22
1,1-DCE ISOCONCENTRATION MAP
BEDROCK 700-742 FEET AMSL
NOVEMBER 2009
OWENS CORNING
ANDERSON, SOUTH CAROLINA

| | |
|-----------------------------|----------------|
| Prepared For: OWENS CORNING | DATE: 1/6/10 |
| BROWN AND CALDWELL | SCALE: 1"=300' |
| | DRAWN BY: DRM |
| | PROJ. 136868 |

0 300 600
 ───────────────────┬──────────────────┬──────────────────
 SCALE IN FEET
 DATE OF PHOTOGRAPHY 1-27-97

APPENDIX A: GROUNDWATER SAMPLING FIELD DATA SHEETS

BROWN AND CALDWELL

A



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-22

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM
 Project Location: Anderson, South Carolina Weather: ~85°F Sunny Clear

2. WELL DATA Date Measured: 8/11/09 Time: PM Temporary Well: Yes No

Casing Diameter: 8 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 8 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 116 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 7.28 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: — feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 168.72 feet Well Volume: 283.87 gal Screened Interval (from GS): _____
Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA Date Purged: 8/13/09 Time: 1815 Equipment Model(s): _____

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____

Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Volume to Purge (minimum): 1 well volumes or 283.87 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|----------------------------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|--------------|
| <u>1813</u> <u>1815</u> | <u>Start</u> | | | | | | | | <u>Purge</u> |
| <u>1822</u> | <u>5</u> | <u>6.65</u> | <u>19.05</u> | <u>0.258</u> | <u>-63</u> | <u>1.04</u> | <u>0.0</u> | <u>7.23</u> | |
| <u>1827</u> | <u>10</u> | <u>5.21</u> | <u>20.36</u> | <u>0.112</u> | <u>173</u> | <u>2.97</u> | <u>0.0</u> | <u>7.24</u> | |
| <u>1832</u> | <u>15</u> | <u>5.20</u> | <u>20.35</u> | <u>0.112</u> | <u>180</u> | <u>2.99</u> | <u>0.0</u> | <u>7.26</u> | |
| <u>1837</u> | <u>20</u> | <u>5.19</u> | <u>20.33</u> | <u>0.112</u> | <u>184</u> | <u>3.00</u> | <u>0.0</u> | <u>7.26</u> | |

1840 Sample Collected Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____

Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Depth to Water at Time of Sampling: 7.26 Field Filtered? Yes No

Sample ID: MW-22 Sample Date: 8/13/09 Sample Time: 1840 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: Dup-1A e 1200 # of Containers: 2
 Equipment Blank Collected? Yes No ID: EB-123 e 1920 # of Containers: 2

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS Pump intake c ~ 107 ft.

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature [Signature]

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-33 245-255

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM
 Project Location: Anderson, South Carolina Weather: -85°F Sunny Clear

2. WELL DATA

Date Measured: _____ Time: _____ Temporary Well: Yes No

Casing Diameter: 6-inch open hc inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: Open Hole inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 410 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 23.39 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 23.39 feet Well Volume: 51.70 gal Screened Interval (from GS): _____
 (in 2" packer pipe) ^{221.61}
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

In 2" packer

3. PURGE DATA

Date Purged: 8/10/09 Time: 1050 Equipment Model(s) _____

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 155.1 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. Genfos Pump
2. Horiba U-52
3. Heron Dipper
4. _____

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level outside 2" packer pipe | Comments |
|------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|--|-----------|
| 1050 | Start | | | | | | | 12.46' | # |
| 1058 | ~10 | 19.6 | 19.62 | 0.162 | 215 | 2.45 | 15.1 | 12.26 | pH = 5.43 |
| 1108 | ~20 | 5.33 | 19.62 | 0.175 | 217 | 0.73 | 2.96 | 12.19 | |
| 1115 | ~30 | 5.33 | 19.61 | 0.179 | 216 | 0.69 | 1.51 | 12.17 | |
| 1121 | ~40 | 5.37 | 19.59 | 0.182 | 212 | 0.67 | 0.72 | 12.14 | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-33-245-255 Sample Date: 8/10/09 Sample Time: 1805 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

~~Geochemical Analyses~~
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Well vol. Calculations: 6 in open hole (10' packer) : $1.469 \frac{5}{4} \times 10' = 14.69$
 Top of packer to static H₂O w/ (2" packer pipe) : $(245 - 245) \times 0.167 \frac{5}{4} = 33.6$
23.39

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-33 395-410

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM
 Project Location: Anderson, South Carolina Weather: ~95°F so Partly Cloudy, it became

2. WELL DATA

Date Measured: 8/11/09 Time: 3:17 Temporary Well: Yes No

Casing Diameter: 6 inch open ho inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: open hole inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 410 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 15.71 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: Top of 2" packer pipe
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 379.29 feet Well Volume: 85.38 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 8/11/09 Time: _____ Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 256.14 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

- Grundfos pump + controls
- Horiba U-52
- Heron Dipper
- _____

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|-------------|----------------------------|----------------|--------------|---|-------------------------------|---------------------------------|-----------------------|--------------|--|
| <u>1738</u> | <u>Start</u> | <u>Purging</u> | | | | | | <u>15.25</u> | |
| <u>1750</u> | <u>~20</u> | <u>6.81</u> | <u>20.46</u> | <u>0.267</u> | <u>29</u> | <u>0.50</u> | <u>308</u> | <u>20.2</u> | |
| <u>1804</u> | <u>~50</u> | <u>6.16</u> | <u>20.53</u> | <u>0.186</u> | <u>43</u> | <u>0.50</u> | <u>138</u> | <u>16.16</u> | |
| <u>1834</u> | <u>~80</u> | <u>6.49</u> | <u>21.42</u> | <u>0.222</u> | <u>50</u> | <u>1.42</u> | <u>97</u> | <u>15.82</u> | <u>Decrease in head above pump has caused decrease in pump rate.</u> |
| <u>1900</u> | <u>~90</u> | <u>6.71</u> | <u>21.88</u> | <u>0.226</u> | <u>86</u> | <u>2.26</u> | <u>27.5</u> | <u>15.80</u> | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-33-395-410 Sample Date: 8/11/09 Sample Time: 1935 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: EB-122 collected on 8/12/09 # of Containers: 2

~~Geochemical Analyses~~
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Well vol =

$6" \text{ packer interval} = (410 - 395) \times 1.469 = 22.04 \text{ gal}$

$2" \text{ pipe vol} = (395 - 15.71) \times 0.167 = 63.34 \text{ gal}$

1 well vol = 85.38 gal

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

* EB-122 collected the following day (8/12/09), after pump was purged + deconed.

Signature [Signature]



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-33 355-365

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM
 Project Location: Anderson, South Carolina Weather: ~80°F Sunny Clear

2. WELL DATA Date Measured: 8/11/09 Time: 0830 Temporary Well: Yes No

Casing Diameter: 6 inch open hole inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: open hole inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 410 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 2.88 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: Top of Packer pipe
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: ~~357.75~~ 340.54 feet Well Volume: 73.5 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA Date Purged: 8/11/09 + 9/12/09 Time: 0830 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____

Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Volume to Purge (minimum): 3 well volumes or ~~220.5~~ 214.68 gallons

Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level Below Top outside packer pipe (2") | Comments |
|-------------|----------------------------|-------------|--------------|-----------------------------------|-------------------------|---------------------------|--------------------|--|---|
| <u>0835</u> | <u>Start</u> | | | | | | | <u>11.42</u> | <u>*Not getting steady stream of water. Lots of bubbles in flow through cell. Mg effect DO.</u> |
| <u>0842</u> | <u>~10</u> | <u>6.43</u> | <u>19.12</u> | <u>0.276</u> | <u>62</u> | <u>2.83</u> | <u>589</u> | <u>10.85</u> | |
| <u>1307</u> | <u>Start</u> | | | | | | | <u>14.80</u> | <u>Leak in Packer. Think</u> |
| <u>1312</u> | <u>~20</u> | <u>6.69</u> | <u>20.30</u> | <u>0.219</u> | <u>2</u> | <u>5.87</u> | <u>777</u> | <u>15.40</u> | <u>time is too short b/w packers + line snapped had to pull everything and readjust</u> |
| <u>1316</u> | <u>~30</u> | <u>6.59</u> | <u>20.34</u> | <u>0.206</u> | <u>13</u> | <u>3.74</u> | <u>323</u> | <u>15.53</u> | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____

Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Depth to Water at Time of Sampling: _____ Field Filtered? Yes No

Sample ID: MW-33-355-365 Sample Date: 8/12/09 Sample Time: 1335 # of Containers: 2

Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____

Equipment Blank Collected? Yes No ID: EB-122 DM # of Containers: 3

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

6" packer interval = (365-355) × 1.469 = 14.69 gal 1 well vol = 73.5
2" pip vol. = (355-2.88) × 0.167 = 58.9 56.97 71.56

Note: Include comments such as well condition, presence of NAPL, or other items not on the field data sheet.

Signature: [Handwritten Signature]



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-33 355-365

| 3. PURGE DATA (continued from page <u>1</u>) | | | | | | | | | | |
|---|---|---------|-------|-----------------------|---------------------|------------------------|-----------|-------------|---|--|
| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments | |
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | | |
| 1322 | ~40 | 6.35 | 20.54 | 0.192 | 44 | 1.00 | 106 | 15.55 | | |
| 1353 | ~75 | 6.40 | 20.39 | 0.204 | 42 | 0.75 | 431 | 17.70 | | |
| | ~90 gal → same thing happening that happened @ 10 gal, water began to flow from top of 2" pipe. Abel + Marcello not sure why happening. Making calls trying to figure out what to do. | | | | | | | | | |
| | Top packer had large leak. Ordering another, coming back tomorrow to finish this interval | | | | | | | | | |
| 1130 | Began purging again on 8/12/09 starting @ 0 gal removed | | | | | | | 15.74 | 15.74 ± .6 | |
| | 3 wv's = 214.68 | | | | | | | 15.74 | 14.46 ± .2 | |
| 1150 | ~20 | 6.41 | 19.57 | 0.211 | -66 | 0.44 | 252 | 17.84 | | |
| 1211 | ~40 | 6.39 | 19.54 | 0.211 | -91 | 0.34 | 92 | 17.68 | | |
| 1222 | ~60 | 6.41 | 19.53 | 0.212 | -99 | 0.32 | 187 | 17.55 | | |
| 1243 | ~70 | 6.41 | 19.54 | 0.210 | -102 | 0.31 | 52.7 | 16.96 | * Pump rate discharge rate decreasing if decrease in head above pump. | |
| 1304 | ~75 | 6.44 | 19.62 | 0.209 | -110 | 0.29 | 17.1 | 16.65 | | |
| 1320 | ~80 | 6.57 | 19.71 | 0.208 | -121 | 0.30 | 17.1 | 16.48 | | |
| 1330 | ~82 | 6.48 | 19.73 | 0.210 | -116 | 0.30 | 22.4 | 16.42 | | |
| 1335 | Purged for 2 hrs, sample collected | | | | | | | | | |

Purge data continued on next sheet?

Signature Jilmy

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-29R Zone 3-Waterloo

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM
 Project Location: Anderson, South Carolina Weather: ~70°F Overcast, lt drizzle

2. WELL DATA

Date Measured: 8/10/09 Time: 1530 PM Temporary Well: Yes No

Casing Diameter: 2 inches Length of water column calculation:
 Screen Diameter: 6 inches (9094-Current Dg reading)*0.02775)*2.3108) = Length of water column (ft)
 Sampling Interval: 154.5-169.6 feet Well Vol. calculation:
 Depth to Static Water: 6743.3 Dg 1 well vol. = [vol sand interval(6") - vol of waterloo casing (2")] + vol of water in tubing(1/4")
 Depth to Product: - feet = [22.18 gal - 2.52 gal] + (0.0102 gal/ft x length of water column)
 Length of Water Column: 150.74 feet = 1.54
 Well Volume: 21.2 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 8/12/09 Time: 1530 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Dedicated Pump
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min
 1. Horiba U-52
 2. Geckon Wire Readout 6R-41
 3. Solinst Pump Controller
 4. Husky 17 gal Air Compressor
 Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|------------|-----------|-----------------------------------|-------------------------|---------------------------|--------------------|-------------|--|
| 1530 | Start | | | | | | | | |
| 1550 | 1.5 | 5.66 | 19.49 | 0.126 | 193 | 1.36 | 0.0 | 6743.2 | * steadily increasing draw and rest time. Left PSI @ -70 |
| 1610 | 3 | 5.59 | 19.39 | 0.126 | 205 | 1.32 | 0.0 | 6744.0 | |
| 1625 | 5 | 5.58 | 19.41 | 0.126 | 213 | 1.28 | 0.0 | 6744.4 | |
| 1655 | 7.5 | 5.54 | 19.38 | 0.126 | 229 | 1.25 | 0.0 | 6744.0 | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Dedicated pump
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 6745.5 Field Filtered? Yes No
 Sample ID: MW-29R Zone 3 Sample Date: 8/12/09 Sample Time: 1915 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

BROWN AND CALDWELL

WELL ID: MW-29R Zone 3-Waterloo

| 3. PURGE DATA (continued from page <u>1</u>) | | | | | | | | | |
|---|----------------------------|--------------|-------------------------|--|--------------------------------|-----------------------------------|---------------|-------------|---------------------------------|
| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
| | | ± 0.1 su | $\pm 2^{\circ}\text{C}$ | > of $\pm 3\%$ or $\pm 10 \mu\text{S}/\text{cm}$ | > of $\pm 10\%$ or ± 20 mV | > of $\pm 10\%$ or ± 0.2 mg/L | ≤ 10 NTU | | |
| 1715 | 10 | 5.55 | 19.37 | 0.126 | 231 231 | 1.28 | 0.0 | 6744.9 | |
| 1745 | 12.5 | 5.55 | 19.35 | 0.126 | 237 | 1.30 | 0.0 | 6745.5 | * Set done/vent @ 15 and 9 sec. |
| 1805 | 15 | 5.53 | 19.34 | 0.126 | 244 | 1.32 | 0.0 | 6745.5 | |
| 1835 | 18 | 5.53 | 19.35 | 0.126 | 248 | 1.29 | 0.0 | 6745.7 | |
| 1910 | 21.2 | 5.52 | 19.38 | 0.126 | 253 | 1.24 | 0.0 | 6745.5 | |
| 1915 | Sample Collected | | | | | | | | |
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Purge data continued on next sheet?

Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-29R Zone 4-Waterloo

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM
 Project Location: Anderson, South Carolina Weather: ~70°F Scattered clouds

2. WELL DATA

Date Measured: 8/11/09 Time: 7:44 PM Temporary Well: Yes No

Casing Diameter: 2 inches Length of water column calculation:
 Screen Diameter: 6 inches (8932.8-Current Dg reading)*0.02724*2.3108) = Length of water column (ft)
 Sampling Interval: 177.6-202.2 feet Well Vol. calculation:
 Depth to Static Water: 6012.5 feet 1 well vol. = [vol sand interval(6") - vol of waterloo casing (2")] + vol of water intubing(1/4")
 Depth to Product: _____ feet = [36.14 gal - 4.11 gal] + (0.0102 gal/ft x length of water column)
 Length of Water Column: 183.8 feet 32.03 1.87
 Well Volume: 30.16 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 8/13/09 Time: 0725 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Dedicated pump 1. Horiba U-52
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____ 2. Solinst Pump Controller
 Dedicated Prepared Off-Site Field-Cleaned Disposable 3. Geokon Wire Readout
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____ 4. Husky 17 gal Air Compressor
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 1 well volumes or 30.16 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|------------|-----------|-----------------------------------|-------------------------|---------------------------|--------------------|-------------|---------------------|
| 0725 | Start | | | | | | | | PSI = ~70 |
| 0755 | 2.5 | 6.58 | 19.04 | 0.291 | 101 | 0.63 | 0.0 | 6211.7 | |
| 0825 | 5 | 6.29 | 19.46 | 0.228 | 97 | 0.61 | 0.43 | 6211.3 | |
| 0810 | 7.5 | 6.15 | 19.54 | 0.205 | 119 | 0.73 | 0.75 | 6255.1 | D = 13s V = 5.5s |
| 0935 | 10 | 5.79 | 19.68 | 0.152 | 171 | 1.02 | 0.92 | 6277.6 | D = 15s V = 9s |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Dedicated pump
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 6379.4 D₂ Field Filtered? Yes No
 Sample ID: MW-29R Zone 4 Sample Date: 8/13/09 Sample Time: 1215 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-29R Zone 4-Waterloo

| 3. PURGE DATA (continued from page <u>1</u>) | | | | | | | | | |
|---|----------------------------|--|-------|-----------------------|---------------------|------------------------|-----------|-------------|-----------------------------|
| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1010 | 12.5 | 5.63 | 19.84 | 0.138 | 186 | 0.83 | 0.07 | 6267.1 | |
| 1040 | 15 | 5.57 | 19.96 | 0.135 | 186 | 0.66 | 0.0 | 6267.7 | |
| 1110 | 17.5 | 5.55 | 19.98 | 0.134 | 185 | 0.66 | 0.0 | 6286.9 | D = 20s V = 10s |
| 1130 | 20 | 5.55 | 20.09 | 0.134 | 185 | 0.67 | 0.0 | 6282.0 | |
| 1155 | 22.5 | 5.54 | 19.81 | 0.135 | 188 | 0.77 | 0.0 | 6381.1 | PSI to 80 D = 23 V = 11s |
| 1210 | 20 23.5 | 5.54 | 19.88 | 0.134 | 188 | 0.75 | 0.0 | 6379.4 | |
| | | 2/7/10 TB said OK to sample if parameters are stable for 3 consecutive readings. Don't have to purge out 1 well vol. | | | | | | | |
| 1215 | Sample Collected | | | | | | | | |
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Purge data continued on next sheet?

Signature _____

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-36 Zone 1-Waterloo

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM
 Project Location: Anderson, South Carolina Weather: ~85°F Scattered Clouds

2. WELL DATA

Date Measured: 8/11/09 Time: PM Temporary Well: Yes No

Casing Diameter: 2 inches Length of water column calculation:
 Screen Diameter: 6 inches (8558.7-Current Dg reading)*0.01797*2.3108 = Length of water column (ft)
 Sampling Interval: 99.1-116 feet Well Vol. calculation:
 Depth to Static Water: 6279.4 Dg 1 well vol. = [vol sand interval(6") - vol of waterloo casing (2")] + vol of tubing(1/4")
 Depth to Product: - feet = [24.83 gal - 2.82 gal] + (0.0102 gal/ft x length of water column)
 Length of Water Column: 94.65 feet Well Volume: 22.98 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 8/13/09 Time: 1315 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Dedicated Pump
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 1 well volumes or 22.98 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min
 Calibrated? Yes No

1. Huriba U-52
2. Geokon Wire Reader
3. Sohmet Pump Controller
4. Husky 17 gal Air Compressor

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level (Dg) | Comments |
|-------------|----------------------------|--------------|--------------|-----------------------|---------------------|------------------------|-------------|------------------|--------------------------------|
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| <u>1315</u> | <u>Start</u> | <u>Purge</u> | | | | | | | <u>80 40 PSI D=8s V=5s</u> |
| <u>1330</u> | <u>1</u> | <u>6.04</u> | <u>20.77</u> | <u>0.112</u> | <u>255</u> | <u>2.80</u> | <u>0.17</u> | <u>6291.5</u> | |
| <u>1340</u> | <u>2</u> | <u>6.02</u> | <u>20.74</u> | <u>0.111</u> | <u>253</u> | <u>2.76</u> | <u>0.0</u> | <u>6289.9</u> | |
| <u>1350</u> | <u>3</u> | <u>6.01</u> | <u>20.61</u> | <u>0.110</u> | <u>251</u> | <u>2.75</u> | <u>0.0</u> | <u>6290.1</u> | |
| <u>1400</u> | <u>4</u> | <u>6.00</u> | <u>20.63</u> | <u>0.109</u> | <u>251</u> | <u>2.73</u> | <u>0.0</u> | <u>6290.5</u> | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Dedicated pump
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-36 zone 1 Sample Date: 8/13/09 Sample Time: _____ # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

~~Geochemical Analyses~~
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-36 Zone 1-Waterloo

Table with 9 columns: Time, Cum. Gallons Removed (gal), pH (±0.1 su), Temp (±2°C), Spec. Cond. (> of ±3% or ±10 µS/cm), ORP (> of ±10% or ±20 mV), DO (> of ±10% or ±0.2 mg/L), Turbidity (≤ 10 NTU), Water Level (Dg), and Comments. Handwritten data includes entries for 1410, 1420, and 1425.

Purge data continued on next sheet?



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-36 Zone 3-Waterloo

1. PROJECT INFORMATION
 Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM
 Project Location: Anderson, South Carolina Weather: ~85°F Scattered clouds

2. WELL DATA Date Measured: 8/11/09 Time: PM Temporary Well: Yes No
 Casing Diameter: 2 inches Length of water column calculation:
 Screen Diameter: 6 inches (9093.1-Current Dg reading)*0.02725)*2.3108) = Length of water column (ft)
 Sampling Interval: 180.2-192.7 feet Well Vol. calculation:
 Depth to Static Water: 6477.2 feet 1 well vol. = [vol sand interval(6" - vol of waterloo casing (2")) + vol of water in tubing(1/4")
 Depth to Product: _____ feet = [18.36 gal - 2.09 gal] + (0.0102 x length of water column)
 Length of Water Column: 172.27 feet Well Volume: 18.03 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA Date Purged: 8/13/09 Time: 1430 Equipment Model(s)
 Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Dedicated pump
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: Dedicated
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 1 well volumes or 18.03 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No
 1. Hanna V-82
 2. GeoKon Wire Readout
 3. Solinst Pump Controller
 4. Husky 17 gal Air Compressor

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|------|----------------------------|---------|-------|-----------------------|---------------------|------------------------|-----------|-------------|-----------------------|
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1430 | Start Purge | | | | | | | 50 PSI | D = 7.2s V = 4.5-4.9s |
| 1440 | 0.25 | 6.23 | 22.36 | 0.361 | 242 | 4.27 | 0.0 | 7872.5 | |
| 1450 | 0.35 | 6.60 | 26.10 | 0.741 | 225 | 5.76 | 0.0 | 8105.1 | 60 PSI |
| 1500 | 0.45 | 6.87 | 29.86 | 0.977 | 207 | 5.44 | 0.0 | 8296 | 65 PSI |
| 1510 | 0.5 | 6.88 | 30.20 | 1.05 | 203 | 4.68 | 0.0 | 8626 | 75 PSI |

Little or no water being produced so hard to slow increase press

Purge data continued on next sheet?

4. SAMPLING DATA
 Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 6856 Field Filtered? Yes No
 Sample ID: MW-36 zone 3 Sample Date: 8/13/09 Sample Time: 1435 # of Containers: _____
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS Zone appears dry. Purge @ minimal pressure and low flow + very high vent cycles.
 Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature [Signature]

GROUNDWATER SAMPLING FIELD DATA SHEET

BROWN AND CALDWELL

WELL ID: MW-36 Zone 3-Waterloo

3. PURGE DATA (continued from page)

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|------|---|---------|-------|-----------------------|---------------------|------------------------|-----------|-------------|----------|
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1520 | 0.6 | 6.95 | 32.15 | 1.21 | 62 | 2.82 | 0.0 | 8799 | 80 PSI |
| 1525 | 0.65 | 6.99 | 32.93 | 1.21 | 49 | 2.55 | 0.0 | 8841 | |
| 1530 | 0.7 | 7.02 | 33.51 | 1.22 | 41 | 2.42 | 0.0 | 8856 | |
| 1535 | Sample collected, ^{3 of 5} parameters stable, did not want to purge dry. | | | | | | | | |
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Purge data continued on next sheet?

Signature _____

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-36 Zone 5-Waterloo

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM
 Project Location: Anderson, South Carolina Weather: -85°F Scattered Clouds

2. WELL DATA

Date Measured: 8/11/09 Time: PM Temporary Well: Yes No

Casing Diameter: 2 inches Length of water column calculation:
 (8843.2-Current Dg reading)*0.03897*2.3108 = Length of water column (ft)
 Screen Diameter: 6 inches Well Vol. calculation:
 1 well vol. = [vol sand interval(6") - vol of waterloo casing (2")] + vol of water in tubing(1/4")
 Sampling Interval: 269.9-275 feet = [7.49 gal - 0.85 gal] + (0.0102 x length of water column)
 Depth to Static Water: 6028.8 feet = 9.22 2.58
 Depth to Product: - feet
 Length of Water Column: 253.35 feet Well Volume: 11.8 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 8/17/09 Time: 1345 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 1 well volumes or 11.8 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. Honda V-52
2. Geokon Wire Reader
3. Solinst Pump Controller
4. Husky 17 gal Air Compressor

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level (Dg) | Comments |
|------|----------------------------|------------|-----------|-----------------------------------|-------------------------|---------------------------|--------------------|------------------|----------|
| 1845 | Start | | | | | | | | |
| 1555 | 0.25 | 6.90 | 30.30 | 1.60 | 112 | 2.94 | 11.5 | 7274 | |
| 1605 | 0.35 | 6.87 | 30.31 | 1.62 | 67 | 3.14 | 7.64 | 7270 | |
| 1615 | 0.45 | 6.86 | 30.39 | 1.67 | 1 | 3.19 | 3.81 | 7273 | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 7315 Field Filtered? Yes No
 Sample ID: MW-36 2025 Sample Date: 8/19/09 Sample Time: 1630 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Zone tends to go dry. Purge @ minimum pressure w/ low drive + high vent cycles.

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature Dail McCoy

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-35

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM
 Project Location: Anderson, South Carolina Weather: -85°F Scattered Clouds

2. WELL DATA

Date Measured: 8/11/09 Time: PM Temporary Well: Yes No

Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 162 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: artesian feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: - feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 162 feet Well Volume: 27.05 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 8/13/09 Time: 1657 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Artesian 1. Horiba - U-52
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: Artesian 2. _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____ 3. _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 1 well volumes or 27.05 gallons 4. _____
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|-------------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| <u>1657</u> | <u>Start</u> | <u>Purge</u> | | | | | | | |
| <u>1705</u> | <u>5</u> | <u>7.09</u> | <u>29.49</u> | <u>1.45</u> | <u>-96</u> | <u>1.73</u> | <u>0.0</u> | <u>-</u> | |
| <u>1710</u> | <u>10</u> | <u>7.35</u> | <u>17.90</u> | <u>0.316</u> | <u>-131</u> | <u>0.15</u> | <u>0.0</u> | <u>-</u> | |
| <u>1715</u> | <u>15</u> | <u>7.33</u> | <u>17.95</u> | <u>0.317</u> | <u>-162</u> | <u>0.14</u> | <u>0.0</u> | <u>-</u> | |
| <u>1720</u> | <u>20</u> | <u>7.28</u> | <u>18.10</u> | <u>0.320</u> | <u>-162</u> | <u>0.13</u> | <u>0.0</u> | <u>-</u> | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Artesian
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: - Field Filtered? Yes No
 Sample ID: MW-35 Sample Date: 8/10/09 Sample Time: 1730 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

~~Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L~~

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-35

3. PURGE DATA (continued from page ____)

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|------|-------------------------------------|---------|-------|-----------------------|---------------------|------------------------|-----------|-------------|----------|
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1725 | 25 | 7.26 | 18.14 | 0.319 | -160 | 0.12 | 2.0 | - | |
| 1730 | Sample collected, parameters stable | | | | | | | | |
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Purge data continued on next sheet?

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-15

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM
 Project Location: Anderson, South Carolina Weather: 75°F Sunny (clear)

2. WELL DATA

Date Measured: 8/11/09 Time: PM Temporary Well: Yes No

Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 99.5 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 11.16 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 88.34 feet Well Volume: 14.75 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 8/13/09 Time: 1930 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 44.26 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. Monsoon Pump
2. Horiba U-52
3. Heron Dipper
4. _____

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|-------------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|--------------|----------|
| <u>1930</u> | <u>Start</u> | <u>Purge</u> | | | | | | | |
| <u>1935</u> | <u>2</u> | <u>6.86</u> | <u>19.51</u> | <u>0.218</u> | <u>105</u> | <u>0.49</u> | <u>4.30</u> | <u>16.14</u> | |
| <u>1940</u> | <u>3</u> | <u>6.83</u> | <u>19.58</u> | <u>0.216</u> | <u>103</u> | <u>0.54</u> | <u>2.33</u> | <u>15.92</u> | |
| <u>1945</u> | <u>4</u> | <u>6.77</u> | <u>19.68</u> | <u>0.212</u> | <u>100</u> | <u>0.52</u> | <u>0.15</u> | <u>15.98</u> | |
| <u>1950</u> | <u>5</u> | <u>6.69</u> | <u>19.65</u> | <u>0.207</u> | <u>98</u> | <u>0.39</u> | <u>0.0</u> | <u>16.28</u> | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 16.95 Field Filtered? Yes No
 Sample ID: MW-15 Sample Date: 8/13/09 Sample Time: 2020 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Pump intake c ~ 90 ft btoe.

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-37 Zone 1

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM
 Project Location: Anderson, South Carolina Weather: Overcast ~ 75°F

2. WELL DATA

Date Measured: 8/11/09 Time: PM Temporary Well: Yes No

Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 195 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 18.03 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: - feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 176.97 feet Well Volume: 7.26 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 0853 8/11/09 Time: 0853 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 1 well volumes or 7.26 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min
 Calibrated? Yes No

1. Horiba - US2
2. QED Micro Pump Pump
3. QED Controller
4. Horib Heon Dipp

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|-------------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|--------------|-----------------------|
| <u>0853</u> | <u>Began Purging</u> | | | | | | | | |
| <u>0904</u> | <u>Flow Through Full</u> | | | | | | | | |
| <u>0905</u> | <u>0.01</u> | <u>6.21</u> | <u>23.72</u> | <u>6.2</u> | <u>0</u> | <u>2.71</u> | <u>9.16</u> | <u>21.56</u> | <u>Sp Cond: 0.270</u> |
| <u>0910</u> | <u>0.03</u> | <u>6.56</u> | <u>23.83</u> | <u>0.264</u> | <u>-91</u> | <u>2.42</u> | <u>14.3</u> | <u>22.86</u> | |
| <u>0915</u> | <u>0.05</u> | <u>6.61</u> | <u>23.88</u> | <u>0.251</u> | <u>-82</u> | <u>2.27</u> | <u>15.3</u> | <u>24.54</u> | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 31.70 Field Filtered? Yes No
 Sample ID: MW-37 2001 Sample Date: 8/11/09 Sample Time: 1000 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: EB-124 e 1020 # of Containers: 2

Geochemical Analyses

~~Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L~~

5. COMMENTS

Having difficulty get pump to purge @ depth inside screened interval. Started pump intake @ ~ 50ft and going to move down w/ drawdown

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature J. M. C.



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-37 Zone 1

3. PURGE DATA (continued from page ___)

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|------|--|---------|-------|-----------------------|---------------------|------------------------|-----------|-------------|----------|
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 0920 | 0.07 | 6.68 | 23.96 | 0.233 | -74 | 1.53 | 14.2 | 25.11 | |
| 0925 | 0.1 | 6.68 | 24.00 | 0.228 | -74 | 1.50 | 13.2 | 26.22 | |
| 0930 | 0.13 | 6.70 | 24.12 | 0.213 | -74 | 1.11 | 13.0 | 26.90 | |
| 0935 | 0.17 | 6.70 | 24.22 | 0.208 | -72 | 1.16 | 12.0 | 27.95 | |
| 0940 | 0.20 | 6.70 | 24.25 | 0.207 | -72 | 1.16 | 12.5 | 29.24 | |
| 0945 | 0.25 | 6.71 | 24.34 | 0.204 | -71 | 1.07 | 12.5 | 30.05 | |
| 0950 | 0.3 | 6.73 | 24.38 | 0.202 | -69 | 0.92 | 13.0 | 30.98 | |
| 0955 | 0.35 | 6.71 | 24.50 | 0.199 | -72 | 0.96 | 12.2 | 31.70 | |
| 1000 | 3 of 5 parameters stable, sample collected | | | | | | | | |
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Purge data continued on next sheet?

Signature _____



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-37 Zone 2

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM
 Project Location: Anderson, South Carolina Weather: ~75°F Overcast

2. WELL DATA

Date Measured: 8/11/09 Time: PM Temporary Well: Yes No

Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 232 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 15.14' feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: — feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 216.86 feet Well Volume: 8.89 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 8/14/09 Time: 1040 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 1 well volumes or 8.89 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min
 1. Horiba U-52
 2. GED Micropurge Pump
 3. GED Controller
 4. Heon Dipper
 Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|------------|-----------|-----------------------------------|-------------------------|---------------------------|--------------------|-------------|----------|
| 1040 | Began Purge | | | | | | | | |
| 1055 | Horiba Full | | | | | | | | |
| 1100 | 0.1 | 8.53 | 25.57 | 0.168 | -136 | 2.33 | 2.57 | 15.05 | |
| 1105 | 0.2 | 9.26 | 25.69 | 0.164 | -158 | 1.75 | 2.57 | 15.10 | |
| 1110 | 0.25 | 9.31 | 25.79 | 0.164 | -161 | 1.28 | 1.79 | 15.08 | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 15.09 Field Filtered? Yes No
 Sample ID: MW-37 Zone 2 Sample Date: 8/14/09 Sample Time: 1215 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Pump intake c ~ 50 ft

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-37 Zone 2

| 3. PURGE DATA (continued from page ____) | | | | | | | | | |
|--|----------------------------------|---------|-------|--------------------------|------------------------|---------------------------|-----------|-------------|----------|
| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1115 | 0.3 | 9.33 | 25.88 | 0.164 | -162 | 1.22 | 1.86 | 15.09 | |
| 1120 | 0.35 | 9.37 | 26.08 | 0.165 | -165 | 1.06 | 1.63 | 15.08 | |
| 1125 | 0.375 | 9.39 | 26.24 | 0.165 | -168 | 0.90 | 1.58 | 15.08 | |
| 1130 | 0.4 | 9.41 | 26.37 | 0.165 | -170 | 0.81 | 1.47 | 15.08 | |
| 1135 | 0.45 | 9.43 | 26.52 | 0.165 | -173 | 0.74 | 1.36 | 15.10 | |
| 1140 | 0.475 | 9.45 | 26.66 | 0.166 | -178 | 0.69 | 1.58 | 15.08 | |
| 1145 | 0.5 | 9.47 | 26.77 | 0.165 | -183 | 0.63 | 1.27 | 15.08 | |
| 1150 | 0.55 | 9.49 | 26.98 | 0.165 | -187 | 0.54 | 1.22 | 15.09 | |
| 1155 | 0.6 | 9.49 | 27.07 | 0.165 | -187 | 0.52 | 1.30 | 15.09 | |
| 1200 | 0.65 | 9.48 | 27.34 | 0.167 | -187 | 0.46 | 1.32 | 15.09 | |
| 1205 | 0.7 | 9.48 | 28.08 | 0.168 | -188 | 0.45 | 1.88 | 15.09 | |
| 1210 | 0.75 | 9.49 | 28.30 | 0.168 | -189 | 0.45 | 1.30 | 15.09 | |
| 1215 | 3 of 5 stable, sample collected | | | | | | | | |
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Purge data continued on next sheet?



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-37 Zone 3

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM
 Project Location: Anderson, South Carolina Weather: ~85°F Scattered Clouds

2. WELL DATA

Date Measured: 8/11/01 Time: AM Temporary Well: Yes No

Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 272 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 22.75 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: — feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 22.75 feet Well Volume: 10.22 gal Screened Interval (from GS): _____
249.25 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 8/14/01 Time: 1235 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min

1. Horiba U-52
 2. QED Microprobe Pump
 3. QED controller
 4. Heron Dipper
- Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|-------------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|--------------|--------------------|
| <u>1235</u> | | | | | | | | | <u>Start Purge</u> |
| <u>1245</u> | | | | | | | | | <u>Horiba Full</u> |
| <u>1250</u> | <u>0.05</u> | <u>8.47</u> | <u>28.12</u> | <u>0.201</u> | <u>-117</u> | <u>1.38</u> | <u>2.02</u> | <u>26.85</u> | |
| <u>1255</u> | <u>0.1</u> | <u>8.18</u> | <u>27.97</u> | <u>0.203</u> | <u>-117</u> | <u>1.22</u> | <u>1.96</u> | <u>28.02</u> | |
| <u>1300</u> | <u>0.15</u> | <u>7.36</u> | <u>28.07</u> | <u>0.209</u> | <u>-109</u> | <u>0.72</u> | <u>2.0</u> | <u>28.34</u> | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 31.49 Field Filtered? Yes No
 Sample ID: MW-37 Zone 3 Sample Date: 8/14/01 Sample Time: 1325 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Pump intake @ ~50F

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

[Handwritten Signature]

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-37 Zone 3

3. PURGE DATA (continued from page)

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|--------|--|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 1310.5 | 0.2 | 7.23 | 28.26 | 0.214 | -101 | 0.79 | 3.14 | 29.42 | |
| 1310 | 0.25 | 7.21 | 28.45 | 0.216 | -100 | 0.84 | 2.57 | 30.09 | |
| 1315 | 0.3 | 7.14 | 28.75 | 0.217 | -95 | 1.02 | 2.11 | 31.40 | |
| 1320 | 0.35 | 7.13 | 28.64 | 0.212 | -100 | 0.68 | 1.38 | 31.49 | |
| 1325 | 3 of 5 parameters stable, sample collected | | | | | | | | |
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Purge data continued on next sheet?

Signature _____

222



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: Alloy

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: BS DM
 Project Location: Anderson, South Carolina Weather: Cloudy, 55°F 64 radn

2. WELL DATA

Date Measured: 11/16/09 Time: Am Temporary Well: Yes No
 Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 61 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 13.77 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 47.03 feet Well Volume: 7.85 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11/18/09 Time: 0810 Equipment Model(s): _____
 Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 23.56 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|------------|-----------|-----------------------------------|-------------------------|---------------------------|--------------------|-------------|----------|
| 0815 | 0.75 | 6.56 | 19.00 | 0.095 | 141.5 | 3.64 | 91.7 | 16.32' | |
| 0820 | 2.0 | 6.37 | 19.07 | 0.096 | 209.9 | 4.53 | 33.6 | 16.89' | |
| 0825 | 3.0 | 6.33 | 19.07 | 0.094 | 203.9 | 4.56 | 41.9 | 17.79' | |
| 0830 | 4.5 | 6.31 | 19.04 | 0.096 | 190.7 | 4.59 | 54.7 | 16.45' | |
| 0835 | 6.0 | 6.33 | 18.97 | 0.097 | 185.5 | 4.57 | 58.2 | 15.48' | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: Alloy Sample Date: 11/18/09 Sample Time: 0935 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: Dup 11-18-09 # of Containers: 3
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

[Signature]
Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: Alloy

3. PURGE DATA (continued from page 1)

| Time | Cum. Gallons Removed (gal) | pH <small>±0.1 su</small> | Temp <small>±2°C</small> | Spec. Cond. <small>> of ±3% or ±10 µS/cm</small> | ORP <small>> of ±10% or ±20 mV</small> | DO <small>> of ±10% or ±0.2 mg/L</small> | Turbidity <small>≤ 10 NTU</small> | Water Level | Comments |
|------|----------------------------|------------------------------|-----------------------------|--|--|--|--------------------------------------|-------------|----------|
| 0840 | 7.0 | 6.29 | 19.10 | 0.095 | 187.4 | 4.58 | 48.4 | 16.52' | |
| 0845 | 8.0 | 6.28 | 19.10 | 0.097 | 188.6 | 4.56 | 45.5 | 16.84' | |
| 0850 | 9.0 | 6.28 | 19.08 | 0.097 | 188.9 | 4.53 | 41.9 | 16.85' | |
| 0855 | 10.0 | 6.29 | 19.07 | 0.095 | 184.5 | 4.51 | 39.2 | 16.98' | |
| 0900 | 11.0 | 6.28 | 19.07 | 0.097 | 183.5 | 4.42 | 32.3 | 17.44' | |
| 0905 | 12.0 | 6.29 | 19.06 | 0.097 | 181.7 | 4.47 | 23.4 | 17.34' | |
| 0910 | 13.0 | 6.26 | 19.07 | 0.097 | 181.9 | 4.50 | 19.2 | 17.5- | |
| 0915 | 16.0 | 6.26 | 19.06 | 0.096 | 180.1 | 4.49 | 14.1 | 17.46' | |
| 0920 | 17.0 | 6.26 | 19.07 | 0.096 | 181.1 | 4.51 | 11.4 | 17.18' | |
| 0925 | 18.0 | 6.26 | 19.08 | 0.095 | 180.8 | 4.52 | 10.90 | 17.26' | |
| 0930 | 19.0 | 6.25 | 19.08 | 0.095 | 177.7 | 4.48 | 9.15 | 17.78' | |
| 0935 | | | | | | | | | |
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Purge data continued on next sheet?


Signature _____



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-1

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: BS DM
 Project Location: Anderson, South Carolina Weather: Cloudy ~65°F

2. WELL DATA

Date Measured: 11-16-09 Time: AM Temporary Well: Yes No

Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 65 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 22.58 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 42.62 feet Well Volume: 7.11 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11-17-09 Time: 1249 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 21.35 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

- Heron dipper
- DRT-154E
- Monsieur Pump
- YS-556

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|------------|-----------|-----------------------------------|-------------------------|---------------------------|--------------------|-------------|----------------------|
| 1254 | 1 | 5.29 | 18.40 | 0.032 | 274.7 | 6.61 | 193 | 25.29 | Lt grey turbid water |
| 1259 | 2 | 5.39 | 18.47 | 0.031 | 269.9 | 7.43 | 125 | 24.86 | |
| 1304 | 3 | 5.30 | 18.46 | 0.030 | 271.9 | 7.05 | 61.5 | 25.45 | |
| 1309 | 4 | 5.28 | 18.41 | 0.031 | 275.3 | 7.05 | 108 | 25.88 | |
| 1314 | 5 | 5.37 | 18.43 | 0.032 | 273.1 | 7.38 | 53.2 | 25.68 | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 26.82' Field Filtered? Yes No
 Sample ID: MW-1 Sample Date: 11/17/09 Sample Time: 1405 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-1

| 3. PURGE DATA (continued from page <u> </u>) | | | | | | | | | |
|--|----------------------------------|---------|-------|--------------------------|------------------------|---------------------------|------------------|-------------|----------------|
| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1319 | 6 | 5.36 | 18.44 | 0.032 | 273.2 | 7.35 | 39.7 | 25.75 | |
| 1324 | 7 | 5.37 | 18.42 | 0.032 | 272.8 | 7.29 | 35.1 | 25.84 | |
| 1329 | 8 | 5.39 | 18.44 | 0.033 | 273.6 | 7.38 | 29.5 | 25.84 | |
| 1334 | 9 | 5.32 | 18.42 | 0.031 | 276.4 | 7.03 | 24.7 | 26.4 | |
| 1339 | 10 | 5.33 | 18.36 | 0.032 | 276.8 | 7.00 | 26.72 | 26.72 | twb = 58.6 NTU |
| 1344 | 11 | 5.39 | 18.40 | 0.033 | 274.5 | 7.59 | 26.6 | 26.45 | |
| 1349 | 12 | 5.33 | 18.39 | 0.032 | 277.3 | 7.10 | 20.3 | 26.80 | |
| 1354 | 13 | 5.41 | 18.37 | 0.034 | 275.2 | 7.39 | 13.5 | 26.71 | |
| 1359 | 14 | 5.40 | 18.35 | 0.033 | 276.7 | 7.37 | 8.24 | 26.82 | |
| 1405 | Sample Collected | | | | | | | | |
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Purge data continued on next sheet?

Signature *[Handwritten Signature]*



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-2

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: BS DM
 Project Location: Anderson, South Carolina Weather: Cloudy 26.5F

2. WELL DATA Date Measured: 11.16.09 Time: AM Temporary Well: Yes No

Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 66.7 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 20.52 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 46.18 feet Well Volume: 7.71 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA Date Purged: 11.17.09 Time: 10:55 Equipment Model(s): _____

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____

Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Volume to Purge (minimum): 3 well volumes or 23.17 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min
 Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|------------|-----------|-----------------------------------|-------------------------|---------------------------|--------------------|-------------|----------|
| 1100 | 0.5 | 6.11 | 19.27 | 0.061 | 261.4 | 6.03 | 441 | 22.78' | |
| 1105 | 1.0 | 6.12 | 19.44 | 0.061 | 260.5 | 6.15 | 235 | 22.40' | |
| 1110 | 2.0 | 6.09 | 19.43 | 0.060 | 255.1 | 6.11 | 36.3 | 24.15' | |
| 1115 | 3.5 | 6.09 | 19.42 | 0.060 | 254.1 | 6.12 | 25.2 | 24.19' | |
| 1120 | 5.0 | 6.08 | 19.45 | 0.060 | 253.7 | 6.21 | 14.5 | 24.18' | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____

Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-2 Sample Date: 11.17.09 Sample Time: 11:35 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

[Signature]
Signature



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-2

| 3. PURGE DATA (continued from page 1) | | | | | | | | | |
|--|----------------------------|---------|-------|-----------------------|---------------------|------------------------|-----------|-------------|----------|
| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1125 | 6.0 | 6.08 | 19.46 | 2.059 | 252.7 | 6.19 | 10.8 | 24.35' | |
| 1130 | 7.0 | 6.08 | 19.48 | 2.059 | 250.9 | 6.22 | 7.54 | 24.30' | |
| 1135 | Collected sample | | | | | | | | |
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Purge data continued on next sheet?

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-3

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM/BS
 Project Location: Anderson, South Carolina Weather: ~50°F Scattered clouds

2. WELL DATA

Date Measured: 11/16/09 Time: AM Temporary Well: Yes No

Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 28 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 17.73 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: - feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 10.27 feet Well Volume: 1.72 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11-17-09 Time: 7:55 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 5.15 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. Heron dipper
2. DRT-15CE
3. Monsieur Pump
4. YSI-556

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|-----------------------|
| 0800 | 0.5 | 4.64 | 17.88 | 0.056 | 314.2 | 4.06 | 338 | 18.10' | is brown turbid water |
| 0805 | 2.0 | 4.61 | 18.18 | 0.051 | 317.6 | 4.42 | 26.9 | 18.23' | *cleared up |
| 0810 | 3.5 | 4.56 | 18.27 | 0.050 | 320.2 | 4.66 | 7.92 | 18.18' | |
| 0815 | 5 | 4.52 | 18.28 | 0.049 | 329.1 | 4.82 | 1.81 | 18.19 | |
| 0820 | 6.5 | 4.51 | 18.29 | 0.049 | 333.1 | 4.90 | 0.77 | 18.22 | |

0825 Sample Collected

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 18.22 Field Filtered? Yes No
 Sample ID: MW-3 Sample Date: 11-17-09 Sample Time: 0825 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

[Handwritten Signature]



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-3

Table with 10 columns: Time, Cum. Gallons Removed, pH, Temp, Spec. Cond., ORP, DO, Turbidity, Water Level, Comments. The table contains multiple rows of data with some handwritten entries.

Purge data continued on next sheet?

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-4

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: BS PM
 Project Location: Anderson, South Carolina Weather: Cloudy 60°F

2. WELL DATA

Date Measured: 11-16-09 Time: AM Temporary Well: Yes No

Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 29.7 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 18.92 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 10.78 feet Well Volume: 1.8 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11-17-09 Time: 0848 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 5.4 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. Heron dipper
2. Mason Pump
3. ORT-1XCE
4. YSI-556

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|-------------|----------------------------|-------------|--------------|-----------------------------------|-------------------------|---------------------------|--------------------|---------------|----------|
| <u>0855</u> | <u>0.50</u> | <u>7.00</u> | <u>18.61</u> | <u>0.453</u> | <u>358</u> | <u>0.21</u> | <u>162.7</u> | <u>19.55'</u> | |
| <u>0900</u> | <u>1.00</u> | <u>6.93</u> | <u>18.92</u> | <u>0.722</u> | <u>26.4</u> | <u>0.26</u> | <u>56.3</u> | <u>19.9'</u> | |
| <u>0905</u> | <u>2.5</u> | <u>6.81</u> | <u>18.87</u> | <u>0.690</u> | <u>-7.2</u> | <u>0.22</u> | <u>14.5</u> | <u>20.13'</u> | |
| <u>0910</u> | <u>3.5</u> | <u>6.77</u> | <u>18.91</u> | <u>0.677</u> | <u>-7.8</u> | <u>0.21</u> | <u>3.72</u> | <u>20.2'</u> | |
| <u>0915</u> | <u>4.5</u> | <u>6.84</u> | <u>18.92</u> | <u>0.684</u> | <u>-13.5</u> | <u>0.18</u> | <u>2.46</u> | <u>20.25'</u> | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-4 Sample Date: 11-17-09 Sample Time: 920 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: EB-26 # of Containers: 30

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-4

| 3. PURGE DATA (continued from page ___) | | | | | | | | | |
|--|----------------------------|---------|------|-----------------------|---------------------|------------------------|-----------|-------------|----------|
| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
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Purge data continued on next sheet?

Signature _____

WELL ID: MW-5

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: BS DM
 Project Location: Anderson, South Carolina Weather: ~60F, cloudy, lt rain.

2. WELL DATA

Date Measured: 11.16.09 Time: AM Temporary Well: Yes No

Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 27 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 17.12 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 9.88 feet Well Volume: 1.64 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11.17.09 Time: 1632 Equipment Model(s) _____

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 4.94 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. Floran dippe
2. maison pump
3. DR7-15CE
4. YSI-556

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 1637 | 1.0 | 4.54 | 19.21 | 0.081 | 404.6 | 4.4F | 61.2 | 17.78' | |
| 1642 | 2.0 | 4.49 | 19.29 | 0.080 | 485.1 | 4.03 | 17.5 | 18.12' | |
| 1647 | 3.0 | 4.45 | 19.16 | 0.079 | 551.6 | 3.84 | 11.8 | 18.35' | |
| 1652 | 4.0 | 4.45 | 19.07 | 0.077 | 565.8 | 3.71 | 5.05 | 18.52' | |
| 1657 | 6.0 | 4.46 | 19.03 | 0.080 | 575.2 | 3.74 | 2.35 | 18.73' | |

1700 Collected sample Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-5 Sample Date: 11.17.09 Sample Time: 1700 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

[Signature]
 Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

BROWN AND CALDWELL

WELL ID: MW-5

3. PURGE DATA (continued from page _____)

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|------|----------------------------|--------------|-----------------------|--|--|---|-----------------------|-------------|----------|
| | | ± 0.1 su | $\pm 2^\circ\text{C}$ | > of $\pm 3\%$ or $\pm 10 \mu\text{S}/\text{cm}$ | > of $\pm 10\%$ or $\pm 20 \text{ mV}$ | > of $\pm 10\%$ or $\pm 0.2 \text{ mg/L}$ | $\leq 10 \text{ NTU}$ | | |
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Purge data continued on next sheet?

Signature _____

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-6

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: BS Ma
 Project Location: Anderson, South Carolina Weather: Cloudy ~60°F

2. WELL DATA

Date Measured: 11-16-09 Time: AM Temporary Well: Yes No

Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 133.6 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 17.24 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 116.36 feet Well Volume: 19.47 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11-19-09 Time: 0812 Equipment Model(s) _____

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 58.29 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min
 Calibrated? Yes No

1. Monsoon Pump
2. ART-15CE
3. YSI-556
4. Heran Dipper

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 0817 | 1.0 | 7.10 | 19.39 | 0.115 | 278.4 | 4.92 | 6.57 | 19.75' | |
| 0822 | 2.5 | 7.08 | 19.40 | 0.112 | 276.7 | 5.22 | 1.05 | 20.24' | |
| 0827 | 4.0 | 7.05 | 19.36 | 0.112 | 273.9 | 5.45 | 0.60 | 20.54' | |
| 0832 | 6.0 | 7.00 | 19.27 | 0.109 | 271.3 | 5.49 | 0.24 | 21.22' | |
| 0837 | 7.5 | 6.99 | 19.24 | 0.109 | 271.5 | 5.53 | 0.20 | 21.37' | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 22.39' Field Filtered? Yes No
 Sample ID: MW-6 Sample Date: 11-19-09 Sample Time: 0900 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

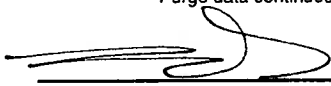
GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-6

3. PURGE DATA (continued from page 1)

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20.mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 0842 | 9.0 | 6.96 | 19.21 | 0.109 | 271.1 | 5.66 | 0.04 | 21.65 | - |
| 0847 | 11.0 | 6.93 | 19.17 | 0.111 | 273.4 | 5.67 | 0.19 | 22.00 | - |
| 0852 | 13.0 | 6.91 | 19.14 | 0.108 | 274.6 | 5.64 | 0.20 | 22.28 | - |
| 0857 | 15.0 | 6.88 | 19.13 | 0.110 | 276.2 | 5.74 | 0.04 | 22.34 | - |
| 0900 | Collected Sample | | | | | | | | |
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Purge data continued on next sheet?



Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-7

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: C. Mind (J. Meadows)
 Project Location: Anderson, South Carolina Weather: Sunny 60's.

2. WELL DATA

Date Measured: 11/20/09 Time: 9:55 Temporary Well: Yes No

Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 30.9 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 17.04 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 13.86 feet Well Volume: 2.3 gal Screened Interval (from GS): —

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11/20/09 Time: 10:05 Equipment Model(s): _____

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Monsieur
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): NA well volumes or NA gallons
 Was well purged dry? Yes No Pumping Rate: — gal/min Calibrated? Yes No

1. Y81 556 MPS
2. DRT-15CE Turbiditymeter
3. _____
4. _____

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|-------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|-----------------|
| 10:06 | | 4.28 | 19.93 | 1.172 | 235.1 | 6.41 | 17.30 | 17.58 | slightly turbid |
| 10:11 | | 4.36 | 20.56 | 1.161 | 227.0 | 1.04 | 28.7 | 17.66 | - |
| 10:16 | | 4.37 | 21.15 | 1.133 | 218.6 | 0.83 | - | - | - |
| 10:21 | | 4.37 | 21.34 | 1.128 | 212.8 | 0.68 | 14.1 | 17.71 | clearing |
| 10:26 | 2.75g | 4.36 | 21.39 | 1.20 | 204.6 | 0.57 | 4.11 | 17.75 | - |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Monsieur
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 17.75 Field Filtered? Yes No
 Sample ID: MW-7 Sample Date: 11/20/09 Sample Time: 10:35 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: — # of Containers: —
 Equipment Blank Collected? Yes No ID: — # of Containers: —

Geochemical Analyses

Ferrous Iron: — mg/L
 DO: — mg/L
 Nitrate: — mg/L
 Sulfate: — mg/L
 Alkalinity: — mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-7

3. PURGE DATA (continued from page ____)

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|------|----------------------------|--------------|-----------------------|---|--------------------------------|-----------------------------------|---------------|-------------|----------|
| | | ± 0.1 su | $\pm 2^\circ\text{C}$ | > of $\pm 3\%$ or ± 10 $\mu\text{S/cm}$ | > of $\pm 10\%$ or ± 20 mV | > of $\pm 10\%$ or ± 0.2 mg/L | ≤ 10 NTU | | |
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Purge data continued on next sheet?

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-9

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: RS DM
 Project Location: Anderson, South Carolina Weather: Cloudy w/ rain

2. WELL DATA

Date Measured: 11-16-09 Time: AM 08:00 Temporary Well: Yes No

Casing Diameter: 2.2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 104 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 77.72 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 86.68 feet Well Volume: 14.47 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11-19-09 Time: 0935 Equipment Model(s): _____

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 43.92 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. Moursou Pump
2. DRT-15CE
3. Heran Dipper
4. YSI-556

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 0940 | 0.5 | 6.62 | 19.94 | 0.088 | 285.7 | 6.73 | 470 | 20.48 | |
| 0945 | 1.0 | 6.54 | 20.13 | 0.091 | 285.7 | 6.09 | 447 | 21.93 | |
| 0950 | 1.75 | 6.44 | 19.95 | 0.086 | 285.3 | 6.18 | 190 | 24.27 | |
| 0955 | 2.5 | 6.40 | 19.79 | 0.086 | 283.9 | 6.48 | 135 | 25.45 | |
| 1000 | 3.5 | 6.37 | 19.80 | 0.081 | 288.8 | 6.94 | 55.4 | 25.55 | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 24.80 Field Filtered? Yes No
 Sample ID: MW-9 Sample Date: 11-19-09 Sample Time: 1025 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

BROWN AND CALDWELL

WELL ID: MW-9

| 3. PURGE DATA (continued from page ___) | | | | | | | | | |
|---|----------------------------|---------|-------|-----------------------|---------------------|------------------------|-----------|-------------|----------|
| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1005 | 5 | 6.30 | 19.80 | 0.082 | 276.2 | 7.24 | 39.6 | 25.23 | |
| 1010 | 6.25 | 6.31 | 19.79 | 0.080 | 267.4 | 7.37 | 20.3 | 25.16 | |
| 1015 | 7.25 | 6.28 | 19.81 | 0.079 | 265.2 | 7.38 | 13.3 | 24.81 | |
| 1020 | 8.25 | 6.29 | 19.72 | 0.080 | 262.0 | 7.40 | 8.70 | 24.86 | |
| 1025 | Sample collected | | | | | | | | |
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Purge data continued on next sheet?

WELL ID: MW-10

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM/BS
 Project Location: Anderson, South Carolina Weather: ~55°F Overcast, lt breeze

2. WELL DATA

Date Measured: 11/16/09 Time: AM Temporary Well: Yes No

Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 71.4 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 26.21 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: - feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 45.19 feet Well Volume: 7.55 gal Screened Interval (from GS): _____

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11/17/09 Time: 1440

Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 22.64 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min
 Calibrated? Yes No

1. Monsoon Pump
2. YSI-556
3. DRT-15CE
4. Heon Dipper

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|-------------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|---------------|-----------------------|
| <u>1445</u> | <u>0.25</u> | <u>5.14</u> | <u>20.17</u> | <u>0.026</u> | <u>306.5</u> | <u>7.52</u> | <u>27.0</u> | <u>27.04'</u> | <u>Turb = 177 NTU</u> |
| <u>1450</u> | <u>1.0</u> | <u>5.02</u> | <u>20.24</u> | <u>0.026</u> | <u>308.9</u> | <u>7.39</u> | <u>49.8</u> | <u>27.65'</u> | |
| <u>1455</u> | <u>2.0</u> | <u>5.06</u> | <u>20.18</u> | <u>0.026</u> | <u>308.4</u> | <u>7.43</u> | <u>50.2</u> | <u>27.76'</u> | |
| <u>1500</u> | <u>3.0</u> | <u>5.07</u> | <u>20.15</u> | <u>0.027</u> | <u>299.7</u> | <u>7.46</u> | <u>29.2</u> | <u>27.85'</u> | |
| <u>1505</u> | <u>4.5</u> | <u>5.19</u> | <u>20.16</u> | <u>0.028</u> | <u>293.4</u> | <u>7.46</u> | <u>9.12</u> | <u>27.50'</u> | |

1510 collected sample.

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-10 Sample Date: 11/17/09 Sample Time: 1510 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-11

1. PROJECT INFORMATION
 Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: BS DM
 Project Location: Anderson, South Carolina Weather: _____

2. WELL DATA Date Measured: 11-16-09 Time: AM Temporary Well: Yes No
 Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 16 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 2.81 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 13.19 feet Well Volume: 2.20 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA Date Purged: 11-19-09 Time: 1057 Equipment Model(s): _____
 Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 6.60 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. Morson Pump
2. YSI-556
3. Hera dipper
4. DRT-15CE

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|--------------------------------------|----------------------------|------------------------------|-----------------------|-------------|----------|
| 1102 | 1.0 | 6.91 | 18.03 | 0.515 | -16.6 | 0.30 | 2.7 | 3.55 | - |
| 1107 | 2.0 | 6.85 | 18.08 | 0.556 | -35.2 | 0.23 | 8.66 | 3.58 | - |
| 1112 | 3.0 | 6.81 | 18.17 | 0.582 | -47.5 | 0.18 | 4.01 | 3.57 | - |
| 1117 | 4.0 | 6.79 | 18.21 | 0.588 | -60.0 | 0.17 | 1.81 | 3.58 | - |
| 1122 | 5.0 | 6.78 | 18.22 | 0.594 | -70.2 | 0.15 | 2.03 | 3.58 | - |

1125 collected sample Purge data continued on next sheet?

4. SAMPLING DATA
 Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-11 Sample Date: 11-19-09 Sample Time: 1125 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

 Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

WELL ID: MW-11

3. PURGE DATA (continued from page ___)

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|------|----------------------------|--------------|-----------------------|---|----------------------------------|-------------------------------------|---------------|-------------|----------|
| | | ± 0.1 su | $\pm 2^\circ\text{C}$ | $>$ of $\pm 3\%$ or ± 10 $\mu\text{S/cm}$ | $>$ of $\pm 10\%$ or ± 20 mV | $>$ of $\pm 10\%$ or ± 0.2 mg/L | ≤ 10 NTU | | |
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Purge data continued on next sheet?

Signature _____

WELL ID: MW-12

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: BS DM
 Project Location: Anderson, South Carolina Weather: Cloudy - 65°F

2. WELL DATA

Date Measured: 11-16-09 Time: AM Temporary Well: Yes No
 Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 33 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 34.6 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: 1 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 29.54 feet Well Volume: 4.93 gal. Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11-19-09 Time: 11:38 Equipment Model(s): _____
 Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 14.79 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|------|----------------------------|---------|-------|-----------------------|---------------------|------------------------|-----------|-------------|------------------------------------|
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1143 | 1.0 | 5.98 | 18.18 | 0.157 | 166.8 | 1.88 | 5.65 | 9.50 | |
| 1148 | 2.0 | 5.76 | 18.15 | 0.154 | 184.2 | 1.23 | 10.95 | 10.48 | |
| 1153 | 3.0 | 5.60 | 18.20 | 0.149 | 193.6 | 0.68 | 9.78 | 10.20 | |
| 1157 | 3.25 | 5.56 | 18.30 | 0.149 | 190.7 | 0.48 | 9.15 | 9.90 | |
| 1203 | 4.0 | 5.64 | 18.39 | 0.154 | 172.6 | 0.68 | 140 | 10.00 | Water became very turbid suddenly. |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-12 Sample Date: 11-19-09 Sample Time: 1255 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

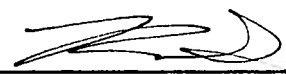
BROWN AND CALDWELL

WELL ID: MW-12

3. PURGE DATA (continued from page 1)

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|------|----------------------------|---------|-------|-----------------------|---------------------|------------------------|-----------|-------------|----------|
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1208 | 4.75 | 5.94 | 18.38 | 0.169 | 174.3 | 1.73 | 88.5 | 12.85 | - |
| 1212 | 5.0 | 5.70 | 18.42 | 0.156 | 171.0 | 1.38 | 169 | 13.80 | - |
| 1218 | 6.0 | 5.58 | 18.52 | 0.149 | 179.1 | 1.26 | 155 | 13.88 | - |
| 1222 | 6.25 | 5.56 | 18.55 | 0.151 | 180.8 | 1.12 | 145 | 17.80 | - |
| 1228 | 7.25 | 5.54 | 18.58 | 0.147 | 179.6 | 1.50 | 132 | 14.13 | - |
| 1232 | 8.25 | 5.61 | 18.56 | 0.151 | 176.5 | 1.62 | 100.4 | 14.27 | - |
| 1238 | 8.50 | 5.53 | 18.60 | 0.147 | 181.8 | 1.63 | 31.5 | 14.22 | - |
| 1242 | 8.75 8.75 | 5.67 | 18.58 | 0.158 | 172.3 | 1.79 | 17.7 | 14.52 | - |
| 1248 | 9.50 | 5.50 | 18.70 | 0.147 | 183.8 | 1.78 | 9.45 | 14.01 | - |
| 1255 | Collected Sample | | | | | | | | |
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Purge data continued on next sheet?


 Signature _____

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-13

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: BS DM
 Project Location: Anderson, South Carolina Weather: Sunny ~ 70°F

2. WELL DATA

Date Measured: 4.16.09 Time: AM Temporary Well: Yes No

Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 72 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 4.67 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 67.33 feet Well Volume: 11.24 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11.19.07 Time: 1414 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 33.73 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. Anderson Pump
2. YS-556
3. RA-156E
4. Hand Dipper

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 1419 | 1.0 | 5.33 | 18.77 | 0.117 | 253.2 | 3.88 | 7.53 | 4.82- | |
| 1424 | 2.0 | 5.29 | 18.80 | 0.115 | 259.6 | 3.83 | 1.17 | 4.82- | |
| 1429 | 3.0 | 5.25 | 18.83 | 0.113 | 264.3 | 3.82 | 0.45 | 4.83- | |
| 1434 | 5.0 | 5.27 | 18.84 | 0.116 | 265.1 | 3.80 | 0.22 | 4.80- | |
| 1439 | 6.0 | 5.25 | 18.89 | 0.113 | 265.3 | 3.77 | 0.25 | 4.80- | |

1445 collected sample.

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-13 Sample Date: 11.19.07 Sample Time: 1445 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature: _____

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-13

3. PURGE DATA (continued from page ___)

| Time | Cum. Gallons Removed (gal) | pH ± 0.1 su | Temp $\pm 2^{\circ}$ C | Spec. Cond. > of $\pm 3\%$ or ± 10 μ S/cm | ORP > of $\pm 10\%$ or ± 20 mV | DO > of $\pm 10\%$ or ± 0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|--------------------|---------------------------|---|--|--|----------------------------|-------------|----------|
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Purge data continued on next sheet?

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-14

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: _____
 Project Location: Anderson, South Carolina Weather: _____

2. WELL DATA

Date Measured: 11/16/09 Time: AM Temporary Well: Yes No

Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 74.2 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 18.92 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 55.26 feet Well Volume: 1.23 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11/17/09 Time: 1544 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 27.69 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min
 Calibrated? Yes No

1. V51-556
2. DR-T-15LE
3. Atcon clipper
4. Mason pump

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 1549 | 1.0 | 6.33 | 18.59 | 0.071 | 258.0 | 6.35 | 36.1 | 24.85' | |
| 1554 | 2.0 | 6.35 | 18.61 | 0.068 | 250.6 | 6.38 | 18.6 | 26.00' | |
| 1559 | 3.0 | 6.30 | 18.62 | 0.066 | 242.1 | 6.33 | 18.0 | 25.91' | |
| 1604 | 5.0 | 6.32 | 18.67 | 0.066 | 237.6 | 6.28 | 7.29 | 25.11' | |
| 1605 | Collected | | Sample | | | | | | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-14 Sample Date: 11-17-09 Sample Time: 1605 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: ~~_____ mg/L~~
 Sulfate: ~~_____ mg/L~~
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-14

3. PURGE DATA (continued from page ___)

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|----------|
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Purge data continued on next sheet?

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-15

1. PROJECT INFORMATION
 Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: C. Mino | J. Meadows
 Project Location: Anderson, South Carolina Weather: Sunny, 50°

2. WELL DATA Date Measured: 11/20/09 Time: 8:30 Temporary Well: Yes No
 Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 99.5 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 9.78 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 29.72 feet Well Volume: 14.9 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA Date Purged: 11/20/09 Time: 8:35 Equipment Model(s):
 Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Manson
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): NA well volumes or NA gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|------|----------------------------|---------|-------|-----------------------|---------------------|------------------------|-----------|-------------|-------------|
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 8:37 | | 5.75 | 16.51 | 0.212 | 47.6 | 3.57 | 0.58 | 10.49 | water clear |
| 8:42 | | 6.66 | 16.58 | 0.222 | 31.3 | 1.24 | - | - | - |
| 8:47 | | 6.71 | 16.43 | 0.222 | 32.6 | 1.01 | 2.45 | 10.75 | - |
| 8:52 | | 6.75 | 16.25 | 0.223 | 33.6 | 0.88 | - | - | - |
| 8:57 | 1.25g | 6.75 | 16.60 | 0.222 | 33.5 | 0.74 | 1.98 | 10.74 | - |

Purge data continued on next sheet?

4. SAMPLING DATA Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Manson
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 10.74 Field Filtered? Yes No
 Sample ID: MW-15 Sample Date: 11/20/09 Sample Time: 9:00 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

 Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-15

3. PURGE DATA (continued from page _____)

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|--------------------------------------|----------------------------|------------------------------|-----------------------|-------------|----------|
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Purge data continued on next sheet?

Signature _____

WELL ID: MW-16

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: BS OM
 Project Location: Anderson, South Carolina Weather: cloudy w rain

2. WELL DATA

Date Measured: 11-16-09 Time: AM Temporary Well: Yes No

Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 59 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 5.25 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 53.75 feet Well Volume: 8.97 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11-18-09 Time: 1254 Equipment Model(s): _____

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 26.92 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. Horn dipper
2. Manson Army
3. DRT-15CE
4. YSI-550

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|-----------------|----------------------------|---------------|--------------|--------------------------------------|----------------------------|------------------------------|-----------------------|-------------|----------|
| 1259 | 0.50 | 7.99 | 17.22 | 0.311 | 29.7 | 0.413 | 11.0 | 7.02 | |
| 1304 | 0.75 | 7.82 | 16.89 | 0.311 | 41.2 | 0.50 | 9.96 | 7.50 | |
| 1309 | 1.0 | 7.72 | 17.38 | 0.311 | 32.7 | 0.35 | 8.97 | 9.74 | |
| 1311 | | | | | | | | | |
| 1315 | Collected Sample | | | | | | | | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 9.74' Field Filtered? Yes No
 Sample ID: MW-16 Sample Date: 11-18-09 Sample Time: 1315 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Purge water has a light yellow tint

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-16

3. PURGE DATA (continued from page _____)

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|------|----------------------------------|---------|------|--------------------------|------------------------|---------------------------|-----------|-------------|----------|
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
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Purge data continued on next sheet?

Signature

WELL ID: MW-17

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: C. Mino | J. Meadows
 Project Location: Anderson, South Carolina Weather: overcast, fog, 60°

2. WELL DATA

Date Measured: 11/19/09 Time: 10:55 Temporary Well: Yes No
 Casing Diameter: 4 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 4 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 39.1 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 22.20 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 16.9 feet Well Volume: 11.27 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11/19/09 Time: 11:00 Equipment Model(s):
 Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Monsoon
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): NA well volumes or NA gallons
 Was well purged dry? Yes No Pumping Rate: 200 gal/min ml/min
 Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|-------|----------------------------|---------|-------|-----------------------|---------------------|------------------------|-----------|-------------|------------------------|
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 11:04 | - | 4.67 | 18.79 | 0.115 | 38.6 | 6.66 | 2.17 | 22.28 | water clear 200 ml/min |
| 11:09 | | 4.56 | 18.83 | 0.115 | 39.3 | 4.97 | 7.79 | - | 200 ml/min |
| 11:14 | | 4.62 | 19.30 | 0.115 | 40.0 | 4.87 | 9.56 | 22.31 | " " |
| 11:19 | 1.5g | 4.61 | 20.04 | 0.116 | 39.5 | 4.82 | 8.39 | 22.43 | " " |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Monsoon
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 20.43 Field Filtered? Yes No
 Sample ID: MW-17 Sample Date: 11/19/09 Sample Time: 11:25 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-18

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM/BS
 Project Location: Anderson, South Carolina Weather: ~60°F Partly Cloudy

2. WELL DATA

Date Measured: 11/16/09 Time: AM Temporary Well: Yes No

Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 25.6 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 20.63 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 4.97 feet Well Volume: 0.83 gal Screened Interval (from GS): _____

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11/17/09 Time: 0949

Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 2.49 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min

1. Monsoon Pump
 2. YSI-556
 3. DRT-15CE
 4. Heron Dipper
- Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 0952 | 0.25 | 4.63 | 20.26 | 0.048 | 306.2 | 4.95 | 36.7 | 21.3' | |
| 0957 | 0.50 | 4.58 | 20.06 | 0.047 | 312.6 | 4.76 | 21.8 | 21.15' | |
| 1002 | 0.75 | 4.60 | 20.47 | 0.047 | 316.8 | 4.36 | 14.5 | 21.10' | |
| 1007 | 1.0 | 4.54 | 20.50 | 0.047 | 317.3 | 4.78 | 10.04 | 21.2' | |
| 1012 | 1.25 | 4.59 | 20.30 | 0.047 | 315.9 | 5.70 | 22.9 | 21.35' | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-18 Sample Date: 11/19/09 Sample Time: 1035 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

~~Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L~~

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-18

3. PURGE DATA (continued from page _____)

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|------|----------------------------|-----------------|-------------------------|---|--------------------------------|-----------------------------------|---------------|-------------|----------|
| | | ± 0.1 units | $\pm 0.2^\circ\text{C}$ | > of $\pm 3\%$ or $\pm 10 \mu\text{S/cm}$ | > of $\pm 10\%$ or ± 20 mV | > of $\pm 10\%$ or ± 0.2 mg/L | ≤ 10 NTU | | |
| 1017 | 1.50 | 4.51 | 20.99 | 0.047 | 365.3 | 4.97 | 8.35 | 21.35 | |
| 1022 | 1.75 | 4.55 | 20.64 | 0.048 | 320.7 | 4.68 | 7.44 | 21.37 | |
| 1027 | 2.0 | 4.50 | 20.56 | 0.047 | 323.8 | 4.52 | 6.11 | 21.45 | |
| 1032 | 2.25 | 4.49 | 20.66 | 0.046 | 324.4 | 4.45 | 4.53 | 21.45 | |
| 1035 | Collected Sample | | | | | | | | |
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Purge data continued on next sheet?

WELL ID: MW-19

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM + BS
 Project Location: Anderson, South Carolina Weather: ~70°F Scattered Clouds

2. WELL DATA

Date Measured: 11/16/09 Time: AM Temporary Well: Yes No
 Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 169 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 5.01 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 32.51 feet Well Volume: 27.39 gal Screened Interval (from GS): _____
63.99 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11/19/09 Time: 1459 Equipment Model(s)
 Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 82.16 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. Monsoon Pump
2. YSI-556
3. Heron Dipper
4. DRT-15CE

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 1504 | 1.0 | 7.15 | 18.71 | 0.197 | -84.3 | 0.29 | 0.04 | 5.90 | |
| 1509 | 2.0 | 7.20 | 18.64 | 0.198 | -99.4 | 0.19 | 0.25 | 5.98 | |
| 1514 | 3.0 | 7.21 | 18.61 | 0.202 | -99.7 | 0.16 | 0.30 | 6.02 | |
| 1519 | 4.5 | 7.24 | 18.60 | 0.207 | -101.4 | 0.19 | 0.31 | 6.18 | |
| 1524 | 5.5 | 7.27 | 18.55 | 0.209 | -78.6 | 0.12 | 0.05 | 6.14 | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 6.15 Field Filtered? Yes No
 Sample ID: MW-19 Sample Date: 11/19/09 Sample Time: 1535 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

~~Geochemical Analyses~~
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Pump intake @ ~123' btoc (length of line on Monsoon = 125')

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET



WELL ID: MW-19

3. PURGE DATA (continued from page 1)

Table with columns: Time, Cum. Gallons Removed, pH, Temp., Spec. Cond., ORP, DO, Turbidity, Water Level, Comments. Includes handwritten entries like '1529 6.5 7.20 18.55 10.218 -67.6 0.13 0.01 6.15' and '1535 Sample Collected'.

Purge data continued on next sheet?

Signature

Handwritten signature

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-20

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: C. Mills / J. Meadows
 Project Location: Anderson, South Carolina Weather: Sunny Dusk 60°

2. WELL DATA

Date Measured: 11/19/09 Time: 17:20 Temporary Well: Yes No

Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 67 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 21.20 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 45.8 feet Well Volume: 7.64 gal Screened Interval (from GS): -

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11/19/09 Time: 17:25

Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Monsoon
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): NA well volumes or NA gallons
 Was well purged dry? Yes No Pumping Rate: 200 - 400 ml/min gal/min

1. VSI 556 MPS
2. DRT - BCE Turbidimeter
3. _____
4. _____

Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|-------|----------------------------|---------|-------|-----------------------|---------------------|------------------------|-----------|-------------|-------------|
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 17:36 | | 6.00 | 19.89 | 0.067 | 28.5 | 4.92 | 1.51 | 21.24 | 200ml/min |
| 17:35 | | 5.45 | 19.07 | 0.066 | 32.5 | 5.71 | 0.76 | - | water clear |
| 17:40 | | 5.13 | 20.09 | 0.066 | 32.1 | 4.87 | 0.61 | 21.26 | 400 ml/min |
| 17:45 | 1.25g | 5.09 | 20.40 | 0.068 | 32.8 | 4.76 | 0.42 | 21.27 | 400 ml/min |
| 17:50 | | 5.08 | 20.40 | 0.068 | 33.0 | 4.77 | 4.92 | 21.28 | - |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Monsoon
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-20 Sample Date: 11/19/09 Sample Time: 17:55 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-20

3. PURGE DATA (continued from page ____)

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|------|----------------------------|---------|--------|-----------------------|---------------------|------------------------|-----------|-------------|----------|
| | | ±0.1 su | ±0.2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
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Purge data continued on next sheet?

WELL ID: MW-21

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: BS DM
 Project Location: Anderson, South Carolina Weather: Cloudy ~ 60°F

2. WELL DATA

Date Measured: 11.16.09 Time: AM Temporary Well: Yes No

Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 16.5 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 6.92 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 9.58 feet Well Volume: 1.60 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11.18.09 Time: 1329 Equipment Model(s) _____

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 4.80 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. Heran d'Arce
2. Monsoon Pump
3. DNT-15CF
4. YSI-956

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 1334 | 1.0 | 5.25 | 18.87 | 0.046 | 268.2 | 4.35 | 125 | 7.06 | |
| 1339 | 2.5 | 5.18 | 18.96 | 0.046 | 279.4 | 4.28 | 15.5 | 7.09 | |
| 1344 | 4 | 5.16 | 18.94 | 0.045 | 282.8 | 4.17 | 5.75 | 7.09 | |
| 1349 | 5.5 | 5.16 | 18.02 | 0.045 | 283.9 | 4.11 | 3.65 | 7.09 | |
| 1354 | 7 | 5.12 | 19.03 | 0.045 | 286.5 | 4.10 | 1.86 | 7.09 | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 7.09 Field Filtered? Yes No
 Sample ID: MW-21 Sample Date: 11.18.09 Sample Time: 1400 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature _____

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-21

| 3. PURGE DATA (continued from page _____) | | | | | | | | | |
|---|----------------------------|---------|-------|-----------------------|---------------------|------------------------|-----------|-------------|----------|
| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1357 | 8 | 5.13 | 19.02 | 0.045 | 286.5 | 4.04 | 2.37 | 7.09 | |
| 1400 | Sample Collected | | | | | | | | |
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Purge data continued on next sheet?

WELL ID: MW-22

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: BS & DM
 Project Location: Anderson, South Carolina Weather: Sunny ~ 70°F

2. WELL DATA

Date Measured: 11/16/09 Time: AM Temporary Well: Yes No

Casing Diameter: 8 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 8 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 116 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 5.32 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 110.28 feet Well Volume: _____ gal Screened Interval (from GS): _____

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11/19/09 Time: 1555 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. Mousson Pump
2. YSI-556
3. Heron H112C
4. DRT-15 LE

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 1600 | 25 4 | 5.56 | 18.69 | 0.125 | 158.9 | 1.85 | 10.4 | 5.84' | |
| 1605 | 4 | 5.53 | 18.68 | 0.123 | 182.6 | 1.82 | 5.20 | 5.84' | |
| 1610 | 6 | 5.49 | 18.65 | 0.123 | 191.3 | 2.18 | 2.16 | 5.84' | |
| 1615 | 8 | 5.44 | 18.63 | 0.118 | 204.8 | 2.65 | 1.39 | 5.84' | |
| 1620 | 10.5 | 5.44 | 18.60 | 0.117 | 206.6 | 2.99 | 2.35 | 5.84' | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 8.81 Field Filtered? Yes No
 Sample ID: MW-22 Sample Date: 11/19/09 Sample Time: 1635 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-22

| 3. PURGE DATA (continued from page _____) | | | | | | | | | |
|---|----------------------------|---------|-------|-----------------------|---------------------|------------------------|-----------|-------------|----------|
| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
| | | ±0.1 st | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1625 | 11.5 | 5.39 | 18.52 | 0.116 | 212.6 | 3.07 | 1.27 | 5.81 | |
| 1630 | 13.6 | 5.39 | 18.62 | 0.116 | 218.6 | 3.12 | 0.76 | 5.81 | |
| 1635 | Sample Collected | | | | | | | | |
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Purge data continued on next sheet?

Signature _____

WELL ID: MW-24

1. PROJECT INFORMATION
 Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: C. Mind | J. Meadows
 Project Location: Anderson, South Carolina Weather: Pt. Sunny, 60°

2. WELL DATA Date Measured: 11/19/09 Time: 15:05 Temporary Well: Yes No
 Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 71 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 8.79 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 62.21 feet Well Volume: 10.38 gal Screened Interval (from GS): -
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA Date Purged: 11/19/09 Time: 15:15 Equipment Model(s): _____
 Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Monsoon 1. Yes 556 MPS
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable 2. DRT-15 CE Turbidity meter
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable 3. _____
 Volume to Purge (minimum): NA well volumes or NA gallons 4. _____
 Was well purged dry? Yes No Pumping Rate: 300 mL/min gal/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|-------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|-------------|
| 15:23 | | 5.55 | 20.46 | 0.185 | -72.0 | 2.04 | 5.01 | 9.90 | water clear |
| 15:28 | | 5.61 | 20.04 | 0.185 | -65.0 | 1.13 | 6.43 | - | - |
| 15:33 | | 5.53 | 20.45 | 0.184 | -66.7 | 0.81 | 7.46 | 10.65 | 300 mL/min |
| 15:38 | 0.50g | 5.60 | 20.35 | 0.184 | -65.4 | 0.64 | 6.23 | 10.11 | - |
| 15:43 | 0.75g | 5.60 | 20.51 | 0.185 | -61.9 | 0.55 | 6.54 | 10.20 | - |

Purge data continued on next sheet?

4. SAMPLING DATA Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Monsoon
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 10.20 Field Filtered? Yes No
 Sample ID: MW-24 Sample Date: 11/19/09 Sample Time: 15:50 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: DUP 41909 # of Containers: 3
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS replaced J-plug, needs to be surveyed initial plant life in water when purging started.
 Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-24

3. PURGE DATA (continued from page)

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|------|----------------------------|--------------|-------------------------|---|--------------------------------|-----------------------------------|---------------|-------------|----------|
| | | ± 0.1 Su | $\pm 2^{\circ}\text{C}$ | > of $\pm 3\%$ or ± 10 $\mu\text{S/cm}$ | > of $\pm 10\%$ or ± 20 mV | > of $\pm 10\%$ or ± 0.2 mg/L | ≤ 10 NTU | | |
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Purge data continued on next sheet?

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-25

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: BS DM
 Project Location: Anderson, South Carolina Weather: Cloudy, ~60°F

2. WELL DATA

Date Measured: 11-16-09 Time: AM Temporary Well: Yes No

Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 50 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 10.01 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: 2.2 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 39.99 feet Well Volume: 6.67 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11-18-09 Time: 1429 Equipment Model(s) _____

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 20.01 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. Horn dipper
2. Monsieur Pump
3. YSI-556
4. DRT-15CE

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 1433 | 1.0 | 5.03 | 17.28 | 0.054 | 304.3 | 7.24 | 289 | 10.99' | |
| 1438 | 2.0 | 5.05 | 17.29 | 0.054 | 306.0 | 7.21 | 355 | 11.0' | |
| 1443 | 3.0 | 5.05 | 17.31 | 0.052 | 307.3 | 7.20 | 224 | 11.09' | |
| 1448 | 4.0 | 5.03 | 17.31 | 0.052 | 309.5 | 7.20 | 166 | 11.15' | |
| 1453 | 5.0 | 5.04 | 17.28 | 0.053 | 310.7 | 7.20 | 110 | 11.14' | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 10.85' Field Filtered? Yes No
 Sample ID: MW-25 Sample Date: 11/16/09 Sample Time: 1545 # of Containers: 5
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

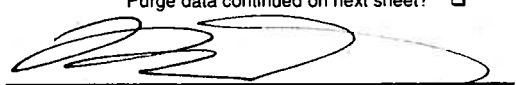
GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-25

3. PURGE DATA (continued from page 1)

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|------|----------------------------|--------------|-------------------------|--|--------------------------------|-----------------------------------|-----------------|-------------|-------------|
| | | ± 0.1 SU | $\pm 2^{\circ}\text{C}$ | > of $\pm 3\%$ or ± 10 $\mu\text{S}/\text{cm}$ | > of $\pm 10\%$ or ± 20 mV | > of $\pm 10\%$ or ± 0.2 mg/L | ≤ 10 NTU | | |
| 1458 | 6.0 | 5.03 | 17.30 | 0.054 | 318.4 | 7.19 | 70.4 | 11.16 | |
| 1503 | 7.0 | 5.03 | 17.30 | 0.053 | 313.9 | 7.18 | 55.5 | 11.13 | |
| 1508 | 8.0 | 5.02 | 17.30 | 0.055 | 314.8 | 7.18 | 34.2 | 11.20 | |
| 1513 | 9.0 | 5.01 | 17.31 | 0.053 | 316.8 | 7.18 | 34.6 | 11.24 | |
| 1518 | 10 | 4.99 | 17.30 | 0.053 | 317.2 | 7.18 | 24.8 | 11.30 | |
| 1523 | 11 | 5.00 | 17.31 | 0.055 | 316.9 | 7.18 | 18.7 | 11.34 | |
| 1528 | 12 | 4.99 | 17.31 | 0.054 | 317.5 | 7.17 | 15.7 | 11.33 | |
| 1533 | 13 | 4.98 | 17.31 | 0.054 | 318.9 | 7.18 | 14.7 | 11.32 | |
| 1538 | 14 | 5.03 | 17.25 | 0.054 | 315.7 | 7.15 | 12.7 | 10.87 | turb = 13.0 |
| 1543 | 15 | 5.04 | 17.30 | 0.054 | 315.4 | 7.14 | 9.85 | 10.85 | |
| 1545 | Sample collected | | | | | | | | |
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Purge data continued on next sheet?


Signature _____

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-26

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: DS DM
 Project Location: Anderson, South Carolina Weather: Lt rain, ~60°F

2. WELL DATA

Date Measured: 11-16-09 Time: AM Temporary Well: Yes No

Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 66.7 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 15.97 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 50.73 feet Well Volume: 847 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11-18-09 Time: 11:32 Equipment Model(s) _____

Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 25.41 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. Monsoon Pump
2. YSI-556
3. ORT-15CE
4. Herm. cl. pipe

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|------------|-----------|-----------------------------------|-------------------------|---------------------------|--------------------|-------------|----------|
| 1637 | 0.75 | 6.41 | 17.93 | 0.062 | 286.4 | 5.10 | 383 | 17.95' | |
| 1642 | 1.50 | 6.39 | 18.09 | 0.060 | 281.4 | 5.42 | 546 | 19.12' | |
| 1647 | 2.5 | 6.40 | 17.90 | 0.061 | 272.0 | 5.35 | 443 | 20.52 | |
| 1652 | 4.5 | 6.40 | 17.89 | 0.060 | 265.4 | 5.30 | 535 | 21.62 | |
| 1657 | 5.5 | 6.41 | 17.94 | 0.062 | 261.3 | 5.63 | 395 | 22.85 | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 29.60' Field Filtered? Yes No
 Sample ID: MW-26 Sample Date: 11-18-09 Sample Time: 1835 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: / mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Purged for 2 hrs. Sample collected when turb. = 127 NTU

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

BROWN AND CALDWELL

WELL ID: MW-26

| 3. PURGE DATA (continued from page ____) | | | | | | | | | |
|--|--|---------|-------|-----------------------|---------------------|------------------------|-----------|-------------|-------------------------------------|
| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
| | | ±0.1 sp | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1707 | 6.0 | 6.44 | 17.61 | 0.060 | 260.9 | 5.70 | 442 | 22.67 | |
| 1707 | 7.0 | 6.67 | 17.88 | 0.061 | 244.0 | 6.25 | 43.1 | 24.45 | * Moved pump intake up to ~50' btoc |
| 1727 | 9.0 | 6.42 | 17.70 | 0.060 | 253.9 | 5.79 | 343 | 27.25 | |
| 1737 | 10.0 | 6.40 | 17.87 | 0.061 | 257.7 | 5.86 | 206 | 26.40 | |
| 1747 | 11 | 6.45 | 17.64 | 0.060 | 254.3 | 5.86 | 193 | 26.86 | |
| 1757 | 11.5 | 6.43 | 17.43 | 0.061 | 257.9 | 5.89 | 187 | 26.15 | |
| 1807 | 12.5 | 6.33 | 17.68 | 0.062 | 261.7 | 5.97 | 172 | 26.33 | |
| 1817 | 13.5 | 6.38 | 18.09 | 0.061 | 257.6 | 5.99 | 142 | 29.60 | |
| 1827 | 14.5 | 6.35 | 17.91 | 0.060 | 261.0 | 6.00 | 145 | 29.95 | |
| 1832 | 15 | 6.38 | 17.87 | 0.060 | 256.7 | 5.85 | 127 | 29.60 | |
| 1835 | Purged for 2 hrs, parameter stable, sample collected | | | | | | | | |
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Purge data continued on next sheet?

[Signature]

WELL ID: MW-27

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: C. Mino / J. Meadows
 Project Location: Anderson, South Carolina Weather: Pt. Sunny, 60°

2. WELL DATA

Date Measured: 11/19/09 Time: 16:20 Temporary Well: Yes No

Casing Diameter: 8 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 8 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 99 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 21.40 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 77.6 feet Well Volume: 262.6 gal Screened Interval (from GS): _____

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11/19/09 Time: 16:30 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Monsoon
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): NA well volumes or NA gallons
 Was well purged dry? Yes No Pumping Rate: 200 gal/min ml/min Calibrated? Yes No

1. YSI 556 MPS
2. DRT-15 CE Turbidimeter
3. _____
4. _____

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|-------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|------------|
| 16:35 | | 6.17 | 20.27 | 0.131 | 21.3 | 5.88 | 1.36 | 21.42 | - |
| 16:40 | | 6.44 | 20.11 | 0.124 | 22.4 | 1.04 | 2.83 | 21.41 | 200ml/min. |
| 16:45 | | 6.63 | 19.74 | 0.123 | 23.0 | 0.98 | 2.23 | - | - |
| 16:50 | | 6.28 | 19.91 | 0.123 | 25.8 | 0.71 | 2.18 | 21.41 | 200ml/min. |
| 16:55 | 1.03 | 6.65 | 19.93 | 0.123 | 23.7 | 0.68 | - | - | - |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Monsoon
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 21.41 Field Filtered? Yes No
 Sample ID: MW-27 Sample Date: 11/19/09 Sample Time: 17:10 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-27

3. PURGE DATA (continued from page _____)

| Time | Cum. Gallons Removed (gal) | pH <small>±0.1 su</small> | Temp <small>±2°C</small> | Spec. Cond. <small>> of ±3% or ±10 µS/cm</small> | ORP <small>> of ±10% or ±20 mV</small> | DO <small>> of ±10% or ±0.2 mg/L</small> | Turbidity <small>≤ 10 NTU</small> | Water Level | Comments |
|-------|----------------------------|------------------------------|-----------------------------|--|--|--|--------------------------------------|-------------|-----------|
| 17:00 | | 6.62 | 19.80 | 0.123 | 26.3 | 0.60 | 2.57 | 21.41 | 200ml/min |
| 17:05 | 1.5g | 6.61 | 19.94 | 0.123 | 24.9 | 0.56 | | 21.41 | |
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Purge data continued on next sheet?

WELL ID: MW-28

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: C. Mino / J. Meadows
 Project Location: Anderson, South Carolina Weather: Sunny 60s

2. WELL DATA

Date Measured: 11/20/09 Time: 11:20 Temporary Well: Yes No
 Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 31 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 17.93 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: tan feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 13.07 feet Well Volume: 2.18 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11/20/09 Time: 11:25 Equipment Model(s): _____
 Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Monsoon
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): NA well volumes or NA gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|-------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|-------------|
| 11:27 | | 5.04 | 21.29 | 1.162 | 170.4 | 9.56 | 15.6 | 19.47 | water clear |
| 11:32 | | 5.04 | 21.91 | 1.211 | 160.7 | 1.04 | - | - | - |
| 11:37 | | 4.93 | 22.52 | 1.306 | 156.2 | 0.81 | 12.7 | 19.62 | - |
| 11:42 | 1 gal | 4.72 | 22.82 | 1.430 | 152.8 | 0.71 | 8.25 | 19.7 | - |
| 11:47 | | 4.62 | 22.85 | 1.497 | 151.4 | 0.71 | - | - | - |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Monsoon
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 20.65 Field Filtered? Yes No
 Sample ID: MW-28 Sample Date: 11/20/09 Sample Time: 12:45 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

WELL ID: MW-28

| 3. PURGE DATA (continued from page <u> </u>) | | | | | | | | | |
|--|----------------------------|---------------|----------------|---|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±0.2°F | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
| 11:52 | | 4.39 | 22.86 | 1.705 | 152.9 | 0.66 | 19.8 | 20.18 | |
| 11:57 | | 4.33 | 22.86 | 1.801 | 152.3 | 0.63 | - | 14.78 | |
| 12:02 | 2 gal | 4.25 | 23.00 | 1.912 | 150.0 | 0.54 | 2.19 | 20.27 | |
| 12:07 | | 4.28 | 22.79 | 1.867 | 152.4 | 0.70 | 2.26 | 20.56 | |
| 12:12 | 3.5 gal | 4.29 | 22.70 | 1.906 | 154.4 | 0.65 | 1.58 | 20.69 | |
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Purge data continued on next sheet?

WELL ID: MW-29R Zone 3-Waterloo

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: J. Meador, C. Mind
 Project Location: Anderson, South Carolina Weather: Clear Sky; ~60F

2. WELL DATA

Date Measured: 16 NOV 09 Time: 10:00 Temporary Well: Yes No

Casing Diameter: 2 inches Length of water column calculation:
 Screen Diameter: 6 inches (9094-Current Dg reading)*0.02775)*2.3108) = Length of water column (ft)
 Sampling Interval: 154.5-169.6 feet Well Vol. calculation:
 Depth to Static Water: 6717.7 Dg 1 well vol. = [vol sand interval(6") - vol of waterloo casing (2")] + vol of water in tubing(1/4")
 Depth to Product: 21.25 feet = [22.18 gal - 2.52 gal] + (0.0102 gal/ft x length of water column
 Length of Water Column: 152.38 feet Well Volume: 21.21 gal Screened Interval (from GS): 154.5 - 169.6
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 16 NOV 09 Time: 1040 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: 1"
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): NA well volumes or NA gallons
 Was well purged dry? Yes No Pumping Rate: 100 gal/min ml/min Calibrated? Yes No

1. YSI 556 MPS
2. DRT-15CE Turbidimeter
3. _____
4. _____

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level (Dg) | Comments |
|-------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|---------------------|-------------|
| 11:07 | | 6.23 | 18.29 | 0.122 µS/cm | 33.3 | 6.62 mg/L 69.0% | 0.31 | 6719.4 | water clear |
| 11:12 | | 5.88 | 18.31 | 0.126 | 31.9 | 4.68 mg/L 49.5% | 0.94 | 6717.2 | " " |
| 11:17 | | 5.65 | 18.46 | 0.128 | 32.7 | 2.85 mg/L 25.0% | 1.47 | 6719.2 | " " |
| 11:22 | | 5.60 | 18.53 | 0.129 | 32.5 | 2.45 mg/L 26.1% | 1.71 | 6717.8 | " " |
| 11:27 | 0.75 gal | 5.56 | 18.66 | 0.129 | 32.7 | 2.54 mg/L 27.2% | 1.61 | 6718.5 | " " |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: 1"
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 6718.5 Dg Field Filtered? Yes No
 Sample ID: MW-29R Sample Date: 11/16/09 Sample Time: 11:30 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: DUP 111609 # of Containers: 3
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

BROWN AND CALDWELL

WELL ID: MW-29R Zone 3-Waterloo

3. PURGE DATA (continued from page _____)

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|------|----------------------------------|---------|------|--------------------------|------------------------|---------------------------|-----------|-------------|----------|
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
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Purge data continued on next sheet?

Signature _____



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-29R Zone 4-Waterloo

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: J. Meadows, C. Mino
 Project Location: Anderson, South Carolina Weather: Sunny, 70°

2. WELL DATA

Date Measured: 11/16/09 Time: 10:03 Temporary Well: Yes No

Casing Diameter: 2 inches Length of water column calculation:
 Screen Diameter: 6 inches (8932.8-Current Dg reading)*0.02724*2.3108) = Length of water column (ft)
 Sampling Interval: 177.6-202.2 feet Well Vol. calculation:
 Depth to Static Water: 5987.1 feet bg 1 well vol. = [vol sand interval(6") - vol of waterloo casing (2") + vol of water intubing(1/4")
 = [36.14 gal - 4.11 gal] + (0.0102 gal/ft x length of water column)
 Depth to Product: _____ feet
 Length of Water Column: 105.42 feet Well Volume: 33.92 gal Screened Interval (from GS): 177.6-202.2
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11/16/09 Time: 11:49 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____ 1. YSI 556 MPS
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____ 2. DPT-15CE Turbidity
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____ 3. _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable 4. _____
 Volume to Purge (minimum): NA well volumes or NA gallons
 Was well purged dry? Yes No Pumping Rate: 80 gal/min ml/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|-------|----------------------------|---------|-------|-----------------------|---------------------|------------------------|-----------|-------------|-------------|
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 11:52 | | 6.52 | 20.06 | 0.184 <i>µS/cm</i> | 30.4 | 4.02 | 0.53 | 6015.0 | water clear |
| 11:57 | | 6.43 | 19.86 | 0.217 | 28.0 | 2.57 | 0.38 | 5980.9 | " " |
| 12:02 | | 6.41 | 19.94 | 0.234 | 28.8 | 2.18 | 0.39 | 5982.3 | " " |
| 12:07 | | 6.40 | 20.10 | 0.243 | 29.1 | 2.11 | 0.30 | 5981.1 | " " |
| 12:12 | 0.75 gal | 6.43 | 20.21 | 0.248 | 29.6 | 2.08 | 0.49 | 5998.2 | " " |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 5998.2 Field Filtered? Yes No
 Sample ID: MW-29R Zone 4 Sample Date: 11/16/09 Sample Time: 12:15 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

WELL ID: MW-30

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: BS & DM
 Project Location: Anderson, South Carolina Weather: Sunny & ~~Hot~~ 42°F

2. WELL DATA

Date Measured: 11-16-09 Time: AM Temporary Well: Yes No

Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 113 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: DB
 Depth to Static Water: 22.72 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 90.28 feet Well Volume: 15.07 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11-2-09 Time: 0729 Equipment Model(s): _____

Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial-Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 45.27 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp °C | Spec. Cond. > of ±8% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|------------|---------|-----------------------------------|-------------------------|---------------------------|--------------------|-------------|----------|
| 0734 | 0.25 | 6.48 | 18.73 | 0.088 | 200.3 | 3.94 | 91.2 | 24.13 | |
| 0739 | 0.50 | 6.32 | 19.54 | 0.085 | 206.6 | 3.89 | 60.1 | 24.85 | |
| 0744 | 0.75 | 6.32 | 19.72 | 0.085 | 207.9 | 3.73 | 43.7 | 25.0 | |
| 0749 | 1.25 | 6.29 | 19.59 | 0.085 | 211.7 | 3.72 | 34.6 | 25.7 | |
| 0754 | 1.75 | 6.30 | 19.54 | 0.086 | 216.5 | 3.75 | 28.4 | 25.86 | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 27.40 Field Filtered? Yes No
 Sample ID: MW-30 Sample Date: 11-20-09 Sample Time: 0935 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: EB-11-20-09 # of Containers: 3

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Sample collected after purged for 2 hrs, turb = 17.0 NTU


Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-30

| 3. PURGE DATA (continued from page 1) | | | | | | | | | |
|---------------------------------------|---|---------|-------|-----------------------|---------------------|------------------------|-----------|-------------|----------|
| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 0759 | 2.25 | 6.30 | 19.28 | 0.086 | 216.2 | 3.75 | 24.6 | 25.4 | - |
| 0804 | 3.0 | 6.30 | 19.53 | 0.086 | 207.0 | 3.82 | 22.5 | 25.73 | - |
| 0809 | 3.5 | 6.27 | 19.62 | 0.086 | 207.2 | 3.83 | 24.9 | 25.95 | - |
| 0814 | 4.5 | 6.28 | 19.63 | 0.087 | 205.3 | 3.83 | 22.3 | 26.10 | - |
| 0819 | 5.25 | 6.26 | 19.65 | 0.086 | 208.4 | 3.84 | 22.5 | 26.20 | - |
| 0824 | 6.0 | 6.25 | 19.76 | 0.087 | 204.6 | 3.84 | 22.7 | 26.40 | - |
| 0829 | 6.75 | 6.26 | 19.69 | 0.086 | 201.2 | 3.84 | 20.5 | 26.09 | |
| 0834 | 7.25 | 6.24 | 19.82 | 0.087 | 197.6 | 3.87 | 21.5 | 26.40 | |
| 0839 | 8.0 | 6.23 | 19.85 | 0.086 | 197.8 | 3.87 | 20.0 | 26.85 | |
| 0844 | 8.75 | 6.23 | 19.61 | 0.087 | 191.4 | 3.88 | 18.4 | 27.50 | |
| 0849 | 9.25 | 6.22 | 19.75 | 0.086 | 205.4 | 3.63 | 65.4 | 27.80 | |
| 0854 | 10.75 | 6.22 | 19.69 | 0.087 | 211.1 | 3.96 | 55.9 | 27.94 | |
| 0859 | 11.75 | 6.21 | 19.76 | 0.088 | 206.5 | 4.05 | 42.3 | 28.07 | |
| 0904 | 12.0 | 6.22 | 19.67 | 0.086 | 197.1 | 3.99 | 34.9 | 27.95 | |
| 0909 | 13.75 | 6.22 | 19.73 | 0.088 | 190.4 | 3.99 | 30.8 | 27.90 | Σ |
| 0914 | 14.50 | 6.21 | 19.72 | 0.086 | 192.2 | 4.02 | 23.9 | 27.90 | Σ |
| 0919 | 15.25 | 6.21 | 19.71 | 0.088 | 198.3 | 4.00 | 20.02 | 27.76 | |
| 0924 | 16.0 | 6.20 | 19.70 | 0.086 | 198.1 | 4.01 | 18.3 | 27.70 | |
| 0929 | 16.25 | 6.21 | 19.71 | 0.087 | 196.4 | 4.03 | 17.0 | 27.40 | |
| 0935 | Purged for 2 hrs, parameters stable, sample collected | | | | | | | | |
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Purge data continued on next sheet?


Signature

WELL ID: MW-31

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: BS DM
 Project Location: Anderson, South Carolina Weather: Sunny 60°F

2. WELL DATA

Date Measured: 11/16/09 Time: AM Temporary Well: Yes No
 Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 90 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 24.05 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: 51.05 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 65.95 feet Well Volume: 11.41 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11/20/09 Time: 1000 Equipment Model(s): _____
 Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 33.01 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|------------|-----------|-----------------------------------|-------------------------|---------------------------|--------------------|-------------|-------------------------------------|
| 1015 | 0.25 | 6.54 | 20.12 | 0.068 | 175.2 | 3.00 | 471 | 23.22 | |
| 1018 | 1.0 | 6.32 | 20.68 | 0.072 | 199.4 | 1.40 | 578 | 27.25 | |
| 1023 | 2.0 | 6.30 | 20.66 | 0.079 | 174.7 | 0.92 | 653 | 27.46 | |
| 1033 | 6.0 | 6.28 | 20.69 | 0.082 | 168.1 | 1.12 | 702 | 27.62 | begin to take readings every 10 min |
| 1043 | 7.5 | 6.26 | 20.70 | 0.083 | 170.9 | 1.42 | 506 | 27.25 | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-31 Sample Date: 11/20/09 Sample Time: 1210 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS


Purged for 2 hrs parameters stable, collected sample when turbidity = 13.5 NTU

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet

WELL ID: MW-31

| 3. PURGE DATA (continued from page <u>1</u>) | | | | | | | | | |
|---|---|------|-------|-----------------------|---------------------|------------------------|-----------|-------------|------------------------------------|
| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
| | | ±0.1 | ±°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1053 | 11.0 | 6.27 | 20.68 | 0.083 | 175.8 | 6.75 | 198 | 27.28 | |
| 1103 | 14.0 | 6.25 | 20.67 | 0.084 | 182.2 | 2.26 | 70.7 | 28.22 | |
| 1113 | 17.0 | 6.24 | 20.65 | 0.085 | 183.2 | 2.33 | 48.5 | 27.29 | |
| 1118 | 17.5 | 6.27 | 20.56 | 0.084 | 184.0 | 2.51 | 38.8 | 25.84 | Began to take readings every 5 min |
| 1123 | 18.5 | 6.25 | 20.69 | 0.085 | 184.2 | 2.28 | 38.9 | 26.18 | |
| 1128 | 19.5 | 6.26 | 20.59 | 0.084 | 183.3 | 2.48 | 34.3 | 25.67 | |
| 1133 | 20.5 | 6.25 | 20.85 | 0.084 | 184.5 | 2.50 | 32.2 | 25.98 | |
| 1138 | 21.5 | 6.25 | 20.72 | 0.082 | 191.7 | 2.96 | 22.5 | 26.90 | |
| 1143 | 22.0 | 6.24 | 20.69 | 0.083 | 190.1 | 2.79 | 16.2 | 26.88 | |
| 1148 | 23.0 | 6.24 | 20.65 | 0.083 | 189 | 2.78 | 15.5 | 26.62 | ORP = 191.1 |
| 1153 | 24.0 | 6.24 | 20.64 | 0.084 | 192.7 | 2.70 | 16.7 | 26.22 | |
| 1158 | 25.0 | 6.23 | 20.72 | 0.082 | 192.8 | 2.85 | 14.3 | 26.50 | |
| 1203 | 26.0 | 6.23 | 20.67 | 0.083 | 194.0 | 2.91 | 14.6 | 26.36 | |
| 1208 | 27.0 | 6.24 | 20.71 | 0.084 | 193.9 | 2.84 | 13.5 | 26.40 | |
| 1210 | Purged for 2 hrs, parameters stable, collected sample | | | | | | | | |
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Purge data continued on next sheet?

Signature 

WELL ID: MW-32

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: C. Mino | J. Meadows
 Project Location: Anderson, South Carolina Weather: Mostly cloudy, 60°

2. WELL DATA

Date Measured: 11/19/09 Time: 12:45 Temporary Well: Yes No
 Casing Diameter: 2.125 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 35 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 17.49 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: 37.1 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 17.91 feet Well Volume: 2.92 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11/19/09 Time: 0:12:50 Equipment Model(s): _____
 Purge Method: Bailers Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Monsoon
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): NA well volumes or NA gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|-------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|-----------------|
| 12:54 | | 5.65 | 21.70 | 0.264 | -76.4 | 6.83 | - | 17.69 | Slightly turbid |
| 12:59 | | 5.28 | 22.26 | 0.153 | -68.5 | 1.22 | 81.5 | - | 600 mL/min |
| 13:04 | | 5.44 | 22.27 | 0.179 | -62.6 | 0.87 | 126.0 | 17.59 | " " |
| 13:09 | | 5.46 | 22.45 | 0.201 | -70.3 | 0.73 | 82.1 | 18.66 | " " |
| 13:14 | 2.0 gal | 5.69 | 22.57 | 0.261 | -83.8 | 0.56 | 64.9 | 17.75 | 600 mL/min |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailers Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Monsoon
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 17.75 Field Filtered? Yes No
 Sample ID: MW-32 Sample Date: 11/19/09 Sample Time: 14:00 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: 1
 Equipment Blank Collected? Yes No ID: EB111909 # of Containers: 3

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Slight sulfur odor. missing bolt, threads on manhole are gone

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

WELL ID: MW-35

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: C. Mino | J. Meadows
 Project Location: Anderson, South Carolina Weather: Clear, 60°

2. WELL DATA

Date Measured: 11/17/09 Time: _____ Temporary Well: Yes No

Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 162 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: artesian feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: _____ feet Well Volume: _____ gal Screened Interval (from GS): _____

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11/17/09 Time: 17:00 Equipment Model(s) _____

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: artesian
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: artesian
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): NA well volumes or NA gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. YSI 556 MPS
2. DR1-15cc Turbidimeter
3. _____
4. _____

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|-------|----------------------------|---------|-------|-----------------------|---------------------|------------------------|-----------|-------------|-------------|
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 17:05 | - | 7.73 | 18.53 | 0.316 | -97.8 | 2.27 | 82.5 | - | water clear |
| 17:10 | 1.5 | 7.67 | 15.05 | 0.318 | -141.3 | 0.48 | 5.8 | - | " " |
| 17:15 | 2.0 | 7.66 | 14.87 | 0.317 | -146.1 | 0.35 | 1.10 | - | " " |
| 17:20 | 2.5 | 7.66 | 15.11 | 0.317 | -146.4 | 0.30 | 0.66 | - | " " |
| 1 | | | | | | | | | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: artesian
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: artesian
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-35 Sample Date: 11/16/09 Sample Time: 17:25 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-35

3. PURGE DATA (continued from page)

| Time | Cup. Gallons Removed (gal) | pH ±0.1 su | Temp ±0.2°C | Spec. Cond. ≥ of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|----------------|--------------------------------------|----------------------------|------------------------------|-----------------------|-------------|----------|
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Purge data continued on next sheet?

Signature _____

WELL ID: MW-36 Zone 1-Waterloo

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: C. Mino / J. Meadows
 Project Location: Anderson, South Carolina Weather: Sunny, 70°

2. WELL DATA

Date Measured: 11/16/09 Time: 10:30 Temporary Well: Yes No

Casing Diameter: 2 inches Length of water column calculation:
 Screen Diameter: 6 inches (8558.7-Current Dg reading)*0.01797*2.3108) = Length of water column (ft)
 Sampling Interval: 99.1-116 feet Well Vol. calculation:
 Depth to Static Water: 6244.3 Dg 1 well vol. = [vol sand interval(6") - vol of waterloo casing (2") + vol of tubing(1/4")
 = [24.83 gal - 2.82 gal] + (0.0102 gal/ft x length of water column)
 Depth to Product: _____ feet
 Length of Water Column: 96.10 feet Well Volume: 28.99 gal Screened Interval (from GS): 99.1-116
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11/16/09 Time: 13:54 Equipment Model(s): _____

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): NA well volumes or NA gallons
 Was well purged dry? Yes No Pumping Rate: 175 gal/min ml/min Calibrated? Yes No

1. YSI 556 MPS
2. DPT-15CE Turbidimeter
3. _____
4. _____

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|-------|----------------------------|---------------|--------------|--------------------------------------|----------------------------|------------------------------|-----------------------|-------------|-------------|
| 14:00 | | 6.51 | 19.98 | 0.116 | 37.7 | 5.98 | 1.16 | 6249.1 | water clear |
| 14:05 | | 6.14 | 19.66 | 0.116 | 42.2 | 4.92 | 0.20 | 6250.1 | " " |
| 14:10 | | 6.05 | 19.41 | 0.116 | 44.3 | 4.16 | 0.25 | 6248.6 | " " |
| 14:15 | | 5.99 | 19.34 | 0.116 | 46.2 | 3.77 | 0.18 | 6248.2 | " " |
| 14:20 | | 5.99 | 19.35 | 0.116 | 49.1 | 3.96 | 0.15 | 6246.0 | " " |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 6249.5 Field Filtered? Yes No
 Sample ID: MW-36 Zone 1 Sample Date: 11/16/09 Sample Time: 14:30 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

BROWN AND CALDWELL

WELL ID: MW-36 Zone 1-Waterloo

| 3. PURGE DATA (continued from page ____) | | | | | | | | | |
|--|----------------------------|-------------|----------|-----------------------------------|-------------------------|---------------------------|--------------------|-------------|----------|
| Time | Gum, Gallons Removed (gal) | pH, ±0.1 su | Temp, °C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
| 14:25 | 1.0g | 5.97 | 19.28 | 0.116 | 49.7 | 3.93 | 0.22 | 6249.5 | " " |
| 14:30 | sampled. | | | | | | | | |
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Purge data continued on next sheet?

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-36 Zone 3-Waterloo

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: C. Mino | J. Meadows
 Project Location: Anderson, South Carolina Weather: Sunny 70's

2. WELL DATA

Date Measured: 11/16/09 Time: 10:12 Temporary Well: Yes No

Casing Diameter: 2 inches Length of water column calculation:
 Screen Diameter: 6 inches (9093.1-Current Dg reading)*0.02725)*2.3108) = Length of water column (ft)
 Sampling Interval: 180.2-192.7 feet Well Vol. calculation:
 Depth to Static Water: 6411.7 feet Dg 1 well vol. = [vol sand interval(6" - vol of waterloo casing (2")) + vol of water in tubing(1/4")
 = [18.36 gal - 2.09 gal] + (0.0102 x length of water column)
 Depth to Product: _____ feet
 Length of Water Column: 168.85 feet Well Volume: 17.99 gal Screened Interval (from GS): 180.2-192.7
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11/16/09 Time: 14:33 Equipment Model(s): _____

Purge Method: Bailer, Size: _____ Bladder Pump 2' Sub. Pump 4' Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: Dedicated R
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): NA well volumes or NA gallons
 Was well purged dry? Yes No Pumping Rate: 175 gal/min 80 ml/min Calibrated? Yes No

1. YSI 556 MPS
2. NT-15CE Turbidity meter
3. _____
4. _____

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|-------|----------------------------|------------|-----------|-----------------------------------|-------------------------|---------------------------|--------------------|-------------|-------------|
| 14:56 | | 7.01 | 21.82 | 1.333 <u>µS/cm</u> | 46.3 | 9.44 <u>mg/L</u> | 0.81 | 8062.3 | water clear |
| 14:55 | | 7.03 | 22.72 | 1.344 | 43.9 | 5.91 | 0.64 | 8490.1 | " " |
| 15:00 | | 7.06 | 22.82 | 1.347 | -136.5 | 5.37 | 0.64 | 8398.4 | " " |
| 15:05 | | 7.18 | 23.51 | 1.353 | -188.6 | 4.73 | 0.72 | 8642.5 | " " |
| 16:10 | 0.75 gal | 7.17 | 22.56 | 1.347 | -165.9 | 3.71 | 0.701 | 9026.6 | " " |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2' Sub. Pump 4' Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-36 Zone 3 Sample Date: 11/16/09 Sample Time: _____ # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-36 Zone 5-Waterloo

1. PROJECT INFORMATION
 Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: J. Meadows, C. Mino
 Project Location: Anderson, South Carolina Weather: Sunny, 70°

2. WELL DATA Date Measured: 11/16/09 Time: 10:15 Temporary Well: Yes No
 Casing Diameter: 2.875 inches Length of water column calculation: _____
 Screen Diameter: 6.25 inches (8843.2 - Current Dg Reading) * 0.03987 * 2.3108 = Length of water column (ft)
 Sampling Interval: 269.9-275 feet Well Vol. calculation:
 Depth to Static Water: 6049.2 feet Dg 1 well vol. = [vol sand interval(6") - vol of waterloo casing (2") + vol of water in tubing(1/4")
 = [7.49 gal - 0.85 gal] + (0.0102 x length of water column)
 Depth to Product: _____ feet
 Length of Water Column: 251.65 feet Well Volume: 9.20 gal Screened Interval (from GS): 269.9 - 275
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA Date Purged: 11/16/09 Time: 15:17 Equipment Model(s)
 Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____ 1. YSI 556 MPS
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____ 2. DRJ-15CE Turbidimeter
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____ 3. _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): NA well volumes or NA gallons 4. _____
 Was well purged dry? Yes No Pumping Rate: 100 gal/min 220 ml/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments | |
|-------|----------------------------|---------------------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|---------------------|---------|
| 15:30 | | 6.87 | 19.81 | 1.739 <i>ml/cm</i> | 35.0 | 5.74 <i>mg/L</i> | 7131.8 | → 7.56 | slight yellow color | |
| 15:35 | | 6.87 | 19.90 | 1.755 | -154.0 | 4.47 | 7350.2 | → 7.31 | faint sulfur odor | |
| 15:40 | | emptying YSI to stop leak | | | | | | | | " . . " |
| 15:50 | | 7.46 | 18.92 | 1.909 | -208.6 | 3.52 | 7570.8 | → 3.10 | " . . " | |
| 15:55 | | 7.42 | 18.96 | 1.972 | -185.6 | 1.12 | 7912.3 | → 1.98 | " . . " | |

Purge data continued on next sheet?

4. SAMPLING DATA
 Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-36 Zone 5 Sample Date: 11/16/09 Sample Time: 16:45 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

 Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

BROWN AND CALDWELL

WELL ID: MW-36 Zone 5-Waterloo

| 3. PURGE DATA (continued from page ____) | | | | | | | | | |
|--|----------------------------|---------|-------|-----------------------|---------------------|------------------------|-----------|-------------|----------|
| Time | Cum. Gallons Removed (gal) | PH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 16:00 | | 7.40 | 19.29 | 2.014 | -158.2 | 0.67 | 2.29 | 7001.2 | " " " " |
| 16:05 | | 7.37 | 19.46 | 2.017 | -139.8 | 0.46 | 2.89 | 7944.4 | " " " " |
| 16:10 | 1.2 gal | 7.37 | 19.53 | 2.034 | -138.2 | 0.37 | 4.64 | 7855.2 | " " " " |
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Purge data continued on next sheet?

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-37 Zone 1

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: C. Mino / J. Meadows
 Project Location: Anderson, South Carolina Weather: Cloudy, 60°

2. WELL DATA

Date Measured: 11/11/09 Time: 09:30 Temporary Well: Yes No
 Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 195 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 16.80 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: - feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 178.2 feet Well Volume: 7.30 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11/17/09 Time: 14:25 Equipment Model(s): _____
 Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): NA well volumes or NA gallons
 Was well purged dry? Yes No Pumping Rate: 39 gal/min ml/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|-------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|---------------|
| 15:04 | | 6.79 | 19.51 | 0.439 | -156.8 | 4.01 | 2.20 | 16.90 | water clear |
| 15:14 | | 7.16 | 19.21 | 0.518 | -168.3 | 2.02 | - | - | " " 30ml/min |
| 15:24 | 500 ml | 7.18 | 18.99 | 0.554 | -178.3 | 1.61 | 3.21 | 20.83 | " " 30ml/min |
| 15:35 | 1100 ml | 7.18 | 18.36 | 0.583 | -195.5 | 1.14 | 3.38 | 23.59 | " " ~35ml/min |
| 16:44 | | 7.13 | 18.15 | 0.587 | -202.2 | 0.92 | 3.35 | 25.28 | - |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 26.91 Field Filtered? Yes No
 Sample ID: MW-37 Zone 1 Sample Date: 11/11/09 Sample Time: 16:00 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: - mg/L
 DO: - mg/L
 Nitrate: - mg/L
 Sulfate: - mg/L
 Alkalinity: - mg/L

5. COMMENTS

slight sulfur odor, slight yellow color

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

BROWN AND CALDWELL

WELL ID: MW-37 Zone 1

3. PURGE DATA (continued from page _____)

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|-------|----------------------------|--------------|-----------------------|---|--------------------------------|-----------------------------------|---------------|-------------|----------|
| | | ± 0.1 su | $\pm 2^\circ\text{C}$ | > of $\pm 3\%$ or $\pm 10 \mu\text{S/cm}$ | > of $\pm 10\%$ or ± 20 mV | > of $\pm 10\%$ or ± 0.2 mg/L | ≤ 10 NTU | | |
| 12:54 | 2000 ml | 7.18 | 18.12 | 0.586 | -212.5 | 0.83 | 4.09 | 26.91 | - |
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Purge data continued on next sheet?

Signature _____

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-37 Zone 2

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: C. Mino / J. Meadows
 Project Location: Anderson, South Carolina Weather: Pt. Cloudy, 60s

2. WELL DATA

Date Measured: 11/17/09 Time: 9:00 Temporary Well: Yes No

Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 232 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 13.81 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: - feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 218.19 feet Well Volume: 8.94 gal Screened Interval (from GS): _____

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11/17/09 Time: 11:30 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: 1"
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): NA well volumes or NA gallons
 Was well purged dry? Yes No Pumping Rate: 25 gal/min mL/min Calibrated? Yes No

1. YSI 556 MPS
2. DRT-15CE Turbidimeter
3. _____
4. _____

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|-------|----------------------------|------------|-----------|-----------------------------------|-------------------------|---------------------------|--------------------|-------------|-----------------------|
| 12:02 | | 9.39 | 19.22 | 0.175 <u>ndist</u> | 200.7 | 3.23 <u>mg/L</u> | - | 13.90 | water clear 25 mL/min |
| 12:12 | | 9.61 | 19.27 | 0.178 | -195.2 | 2.36 | 2.31 | 13.95 | 25 mL/min purge rate |
| 12:22 | 500 mL | 9.70 | 19.23 | 0.179 | -189.4 | 1.69 | 2.57 | 13.95 | " " |
| 12:32 | | 9.68 | 19.15 | 0.180 | -184.4 | 1.32 | - | - | - |
| 12:42 | 1500 mL | 9.68 | 19.11 | 0.182 | -179.6 | 1.05 | 2.07 | 13.95 | 25 mL/min |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: 1"
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 13.95 Field Filtered? Yes No
 Sample ID: MW-37 zone 2 Sample Date: 11/17/09 Sample Time: 12:45 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: EB111709 # of Containers: 3

Geochemical Analyses
 Ferrous Iron: - mg/L
 DO: - mg/L
 Nitrate: - mg/L
 Sulfate: - mg/L
 Alkalinity: - mg/L

5. COMMENTS

CPM, 10 refill, 5 discharge, 55 psi, pump set at 85'

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

WELL ID: MW-37 Zone 3

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: C. Mino / J. Meadows
 Project Location: Anderson, South Carolina Weather: Pt. Cloudy 60°.

2. WELL DATA

Date Measured: 11/17/09 Time: 09:00 Temporary Well: Yes No

Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 272 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 17.02 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: - feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 254.18 feet Well Volume: 10.42 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11/17/09 Time: 09:30 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: 1"
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): NA well volumes or NA gallons
 Was well purged dry? Yes No Pumping Rate: 50 gal/min ml/min Calibrated? Yes No

1. YSL 556 MP5
2. DRT-15CE Turbiditymeter
3. _____
4. _____

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|-------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|-----------------------|
| 10:12 | | 6.85 | 16.63 | 0.223 µS/cm | -60.1 | 2.40 mg/L | 3.29 | 18.28 | water clear 50 ml/min |
| 10:22 | | 6.70 | 16.64 | 0.219 | -61.4 | 2.41 | 2.16 | 20.68 | " " 25 ml/min. |
| 10:32 | | 6.75 | 16.73 | 0.218 | -61.5 | 1.95 | 2.26 | 22.19 | " " 25 ml/min. |
| 10:42 | 1400 ml | 6.74 | 16.82 | 0.217 | -60.5 | 1.65 | 0.32 | 23.05 | " " 25 ml/min. |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 10:45 Field Filtered? Yes No
 Sample ID: MW-37 Zone 3 Sample Date: 11/17/09 Sample Time: _____ # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: - mg/L
 DO: - mg/L
 Nitrate: - mg/L
 Sulfate: - mg/L
 Alkalinity: - mg/L

5. COMMENTS

3 CPM, 9 refill, 6 discharge, 60 psi
Tubing pump intake 105' BES.

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

WELL ID: TW-40

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: BS + DM
 Project Location: Anderson, South Carolina Weather: Sunny ~75°F

2. WELL DATA

Date Measured: 11.16.09 Time: AM 10:00 Temporary Well: Yes No
 Casing Diameter: 2.125 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 94 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 17.25 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 76.75 feet Well Volume: 12.81 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11.16.09 Time: 1547 Equipment Model(s):
 Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 38.45 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|--|
| 1552 | 0.5 | 13.67 | 17.91 | 3.836 | 18.3 | 5.29 | 10.6 | 22.28 | PH very high. Going to recalibrate YSI |
| 1557 | 1 | 13.68 | 18.28 | 3.829 | 22.0 | 5.09 | 7.69 | 23.74 | |
| 1602 | 2 | 13.70 | 17.92 | 3.824 | 13.5 | 5.36 | 9.58 | 26.90 | |
| 1607 | 2.5 | 13.68 | 18.01 | 3.814 | 12.3 | 5.07 | 9.13 | 28.15 | |
| 1612 | 2.75 | 13.69 | 18.10 | 3.813 | 12.2 | 4.72 | 9.11 | 28.72 | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 31.42 Field Filtered? Yes No
 Sample ID: TW-40 Sample Date: 11.16.09 Sample Time: 1625 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

YSI giving readings of 4.05 for 4.00 pH and 4.499 mS for 4.49 mS sol'n. So reading fine, pH was really that basic on this well.

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

WELL ID: TW-41

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM + BS
 Project Location: Anderson, South Carolina Weather: ~65°F Sunny Clear

2. WELL DATA

Date Measured: 11/16/09 Time: 8:00 AM Temporary Well: Yes No
 Casing Diameter: 2.5 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 55.3 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 14.73 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 40.57 feet Well Volume: 6.78 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11/16/09 Time: 1436 Equipment Model(s)
 Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 20.33 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min
 Calibrated? Yes No

1. YSI-556
2. DRT-15CE
3. Heron Dipper
4. Monsoon Pump

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 1441 | 0.5 | 8.81 | 18.47 | 0.452 | 165.9 | 3.32 | 16.5 | 20.75 | |
| 1446 | 1.0 | 8.84 | 18.73 | 0.452 | 162.0 | 3.30 | 9.32 | 24.02 | |
| 1451 | 1.5 | 8.86 | 18.84 | 0.452 | 152.3 | 3.30 | 5.50 | 26.70 | |
| 1456 | 2 | 8.86 | 19.15 | 0.452 | 146.3 | 3.15 | 4.48 | 28.78 | |
| 1501 | 2.25 | 8.86 | 19.84 | 0.453 | 146.8 | 3.18 | 4.17 | 29.27 | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 35.23' Field Filtered? Yes No
 Sample ID: TW-41 Sample Date: 11/16/09 Sample Time: 1520 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: EB-11-16-09 # of Containers: 3

~~Geochemical Analyses~~
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Pump intake c ~50' btoe. EB is labeled EB-11-16-09

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

WELL ID: TW-42

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: C. Mino | J. Meadows
 Project Location: Anderson, South Carolina Weather: overcast, Lt. Rain 60°

2. WELL DATA

Date Measured: 11/18/09 Time: 8:00 Temporary Well: Yes No

Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 26 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 13.69 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 12.31 feet Well Volume: 0.50 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11/18/09 Time: 8:25 Equipment Model(s): _____

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): NA well volumes or NA gallons
 Was well purged dry? Yes No Pumping Rate: 85 gal/min ml/min Calibrated? Yes No

1. YSI 556 MPS
2. BRT-15 CE Turbiditymeter
3. _____
4. _____

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|-------------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|--------------|------------------------|
| <u>8:53</u> | <u>200ml</u> | <u>4.58</u> | <u>16.02</u> | <u>0.047</u> | <u>45.4</u> | <u>6.38</u> | <u>68.4</u> | <u>13.74</u> | <u>slightly turbid</u> |
| <u>9:03</u> | | <u>4.56</u> | <u>16.09</u> | <u>0.047</u> | <u>43.6</u> | <u>6.29</u> | <u>56.1</u> | <u>13.75</u> | <u>clearly</u> |
| <u>9:13</u> | | <u>4.53</u> | <u>16.55</u> | <u>0.045</u> | <u>42.4</u> | <u>6.33</u> | <u>33.4</u> | <u>13.74</u> | <u>-</u> |
| <u>9:23</u> | <u>500ml</u> | <u>4.52</u> | <u>16.82</u> | <u>0.045</u> | <u>42.9</u> | <u>6.26</u> | <u>20.7</u> | <u>13.74</u> | <u>-</u> |
| <u>9:33</u> | | <u>4.52</u> | <u>16.92</u> | <u>0.044</u> | <u>40.4</u> | <u>6.28</u> | <u>12.3</u> | <u>-</u> | <u>-</u> |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 13.76 Field Filtered? Yes No
 Sample ID: TW-42 Sample Date: 11/18/09 Sample Time: 9:45 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

pump set at 23.5'

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

WELL ID: TW-43

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: C. Mino / J. Meadows
 Project Location: Anderson, South Carolina Weather: overcast, FOG, 60S

2. WELL DATA

Date Measured: 11/19/09 Time: 8:10 Temporary Well: Yes No
 Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 18.6 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 13.60 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: - feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 5 feet Well Volume: 0.205 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11/19/09 Time: 8:15 Equipment Model(s):
 Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: 1"
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): NA well volumes or NA gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. YSI 556 MPS
2. DRT-5CE Turbidimeter
3. _____
4. _____

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|------|----------------------------|---------|-------|-----------------------|---------------------|------------------------|-----------|-------------|-------------|
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 9:20 | | 4.63 | 15.18 | 0.055 | 56.5 | 8.58 | 5.43 | 13.60 | water clear |
| 9:30 | | 4.58 | 15.93 | 0.053 | 51.1 | 6.19 | - | 13.60 | " " |
| 9:40 | 450 mL | 4.59 | 16.21 | 0.052 | 49.4 | 6.03 | 3.73 | 13.61 | " " |
| 9:50 | 650 mL | 4.58 | 16.60 | 0.050 | 47.9 | 5.94 | 2.67 | 13.62 | " " |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: 1"
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 13.62 Field Filtered? Yes No
 Sample ID: TW-43 Sample Date: 11/19/09 Sample Time: 10:00 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: - mg/L
 DO: - mg/L
 Nitrate: - mg/L
 Sulfate: - mg/L
 Alkalinity: - mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: TW-44

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: BS DM
 Project Location: Anderson, South Carolina Weather: Sunny 65°F

2. WELL DATA Date Measured: 11-16-09 Time: 4M Temporary Well: Yes No

Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 74 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 9.55 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 64.45 feet Well Volume: 10.76 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA Date Purged: 11-16-09 Time: 16:02 16:55 Equipment Model(s): _____

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____

Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Volume to Purge (minimum): 3 well volumes or 32.28 gallons

Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|-----------------|----------------------------|---------------|--------------|--------------------------------------|----------------------------|------------------------------|-----------------------|-------------|----------|
| 1700 | 1.0 | 6.52 | 17.92 | 0.071 | 209.7 | 5.80 | 764 | 12.95 | |
| 1710 | 2.5 | 6.54 | 17.85 | 0.070 | 213.2 | 5.82 | 712 | 13.36 | |
| 1715 | 3.5 | 6.47 | 17.86 | 0.069 | 212.2 | 5.80 | 112.9 | 13.70 | |
| 1720 | 5.0 | 6.44 | 17.81 | 0.068 | 213.7 | 5.80 | 56.7 | 13.8 | |
| 1725 | 6.0 | 6.47 | 17.82 | 0.068 | 210.7 | 5.77 | 43.5 | 13.78 | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____

Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Depth to Water at Time of Sampling: _____ Field Filtered? Yes No

Sample ID: TW-44 Sample Date: 11-16-09 Sample Time: 1900 # of Containers: 3

Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____

Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature _____

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: TW-44

3. PURGE DATA (continued from page 1)

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|------|---|---------|-------|-----------------------|---------------------|------------------------|-----------------|-------------|----------|
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1730 | 7.0 | 6.45 | 17.77 | 0.067 | 210.2 | 5.82 | 30.2 | 14.61' | |
| 1735 | 8.0 | 6.42 | 17.80 | 0.069 | 209.0 | 5.79 | 26.0 | 15.51' | |
| 1740 | 8.5 | 6.44 | 17.64 | 0.069 | 211.1 | 5.79 | 25.3 | 14.42' | |
| 1745 | 9.5 | 6.43 | 17.78 | 0.069 | 208.3 | 5.72 | 26.6 | 14.89' | |
| 1750 | 10.0 | 6.41 | 17.81 | 0.069 | 210.1 | 5.80 | 18.4 | 16.02' | |
| 1755 | 11.0 | 6.41 | 17.76 | 0.069 | 210.2 | 5.78 | 18.0 | 16.02' | |
| 1800 | 12.0 | 6.43 | 17.79 | 0.069 | 209.9 | 5.75 | 17.3 | 15.81' | |
| 1805 | 13.0 | 6.41 | 17.84 | 0.068 | 209.8 | 5.86 | 15.6 | 16.46' | |
| 1810 | 14.0 | 6.40 | 17.84 | 0.069 | 212.6 | 5.80 | 15.3 | 18.26' | |
| 1815 | 15.0 | 6.41 | 17.82 | 0.069 | 211.9 | 5.73 | 22.9 | 18.43' | |
| 1820 | 16.0 | 6.42 | 17.82 | 0.068 | 212.3 | 5.73 | 25.5 | 18.57' | |
| 1825 | 17.0 | 6.44 | 17.73 | 0.068 | 215.2 | 5.72 | 20.8 | 17.48' | |
| 1830 | 18.0 | 6.42 | 17.69 | 0.070 | 215.6 | 5.70 | 15.7 | 15.6' | |
| 1835 | 18.5 | 6.46 | 17.63 | 0.068 | 214.8 | 5.70 | 12.6 | 19.72' | |
| 1840 | 19.0 | 6.46 | 17.70 | 0.068 | 216.0 | 5.72 | 18.3 | 15.1' | |
| 1845 | 19.5 | 6.46 | 17.63 | 0.070 | 220.0 | 5.72 | 12.2 | 14.73' | |
| 1850 | 20.0 | 6.46 | 17.63 | 0.070 | 221.3 | 5.71 | 11.1 | 14.71' | |
| 1855 | 20.5 | 6.46 | 17.65 | 0.069 | 222.4 | 5.71 | 13.3 | 14.42' | |
| 1900 | Collected sample after purging for 2 hours and parameters were stable | | | | | | | | |
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Purge data continued on next sheet?


Signature

WELL ID: TW-45

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: _____
 Project Location: Anderson, South Carolina Weather: _____

2. WELL DATA

Date Measured: _____ Time: _____ Temporary Well: Yes No

Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 28.8 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: _____ feet Well Volume: _____ gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: _____ Time: _____ Equipment Model(s) _____

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____ 1. _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____ 2. _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____ 3. _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons 4. _____
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|---------------------------------|----------------------------|---------------|--------------|--------------------------------------|----------------------------|------------------------------|-----------------------|-------------|----------|
| <p>DRY - NOT SAMPLED</p> | | | | | | | | | |
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Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: _____ Sample Date: _____ Sample Time: _____ # of Containers: _____
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

WELL ID: TW-45

| 3. PURGE DATA (continued from page _____) | | | | | | | | | |
|--|----------------------------|---------|------|-----------------------|---------------------|------------------------|-----------|-------------|----------|
| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
| | | ±0.1 su | ±2°C | > of ±3% or ±10 µS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
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Purge data continued on next sheet?

WELL ID: TW-46

1. PROJECT INFORMATION

Project Number: 136868 Task Number: 400.001 Area of Concern: _____
 Client: Owens Corning Personnel: BS DM
 Project Location: Anderson, South Carolina Weather: 85°F, raining

2. WELL DATA

Date Measured: 11.10.09 Time: AM Temporary Well: Yes No

Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 88.3 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 24.15 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: _____ feet Well Volume: _____ gal Screened Interval (from G.S.): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 11.18.09 Time: 1012 Equipment Model(s): _____

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. Hem. d. p.c.
2. Monsoon Pump
3. DRT-15CE
4. KSI-556

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10 µS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 1017 | 0.50 | 12.97 | 20.04 | 1.331 | -1.0 | 0.44 | 6.59 | 27.61' | |
| 1022 | 0.75 | 12.98 | 19.62 | 1.536 | -9.3 | 0.38 | 6.65 | 29.65' | |
| 1027 | 1.0 | 12.99 | 20.00 | 1.337 | -14.8 | 0.34 | 8.95 | 30.45' | |
| 1032 | 1.25 | 13.03 | 19.40 | 1.335 | -24.6 | 0.53 | 18.3 | 30.72' | |
| 1037 | 1.75 | 12.96 | 20.25 | 1.298 | -18.5 | 0.52 | 17.5 | 32.05' | |

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: TW-46 Sample Date: 11.18.09 Sample Time: 1125 # of Containers: 3
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: EB-11-18-09
01140 # of Containers: 3

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

APPENDIX B: LABORATORY ANALYTICAL REPORT



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 21, 2009

Tamara Berryman
BROWN AND CALDWELL
990 Hammond Drive
Suite 400
Atlanta, GA 30328
TEL: (770) 673-3678
FAX: (770) 396-9495

RE: Owens Corning

Order No.: 0908A01

Dear Tamara Berryman:

Analytical Environmental Services, Inc. received 19 samples on 8/14/2009 4:00:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/09-06/30/10.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/09.

These results relate only to the items tested. This report may only be reproduced in full and contains 24 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,


for April Crenshaw
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC
 3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 0908A01

Date: 8/14/09 Page 2 of 2

| # | SAMPLE ID | SAMPLED | | Grab | Composite | Matrix (See codes) | ANALYSIS REQUESTED | | | | REMARKS | No # of Containers |
|--|-----------------|---------------------------------|------|------|-----------|--------------------|--------------------|--------------------------|--|--|---------|--------------------|
| | | DATE | TIME | | | | A-I | PRESERVATION (See codes) | Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc. | | | |
| 1 | MW-33 - 245-255 | 8/10/09 | 1805 | X | | GW | | | | | | |
| 2 | MW-33 - 395-410 | 8/11/09 | 1935 | | | GW | | | | | | |
| 3 | MW-33 - 355-365 | 8/12/09 | 1335 | | | GW | | | | | | |
| 4 | EB-122 | 8/12/09 | 1110 | | | W | | | | | | |
| 5 | MW-29R Zone 3 | 8/12/09 | 1915 | | | GW | | | | | | |
| 6 | MW-29R Zone 4 | 8/13/09 | 1215 | | | GW | | | | | | |
| 7 | MW-36 Zone 1 | 8/13/09 | 1315 | | | GW | | | | | | |
| 8 | MW-36 Zone 3 | 8/13/09 | 1535 | | | GW | | | | | | |
| 9 | MW-36 Zone 5 | 8/13/09 | 1630 | | | GW | | | | | | |
| 10 | MW-22 | 8/13/09 | 1740 | | | W | | | | | | |
| 11 | EB-123 | 8/13/09 | 1920 | | | W | | | | | | |
| 12 | Dup-A1 | 8/13/09 | 1200 | | | GW | | | | | | |
| 13 | MW-15 | 8/13/09 | 2020 | | | GW | | | | | | |
| 14 | MW-35 | 8/13/09 | 1730 | | | GW | | | | | | |
| RELINQUISHED BY: <u>Tom McCreary</u> | | DATE/TIME: <u>8/14/09 1600</u> | | | | | | | | | | |
| SPECIAL INSTRUCTIONS/COMMENTS: <u>* Focused list of VDLs</u> | | DATE/TIME: <u>8/14/09 16:00</u> | | | | | | | | | | |
| SHIPMENT METHOD: <u>Greyhound</u> | | DATE/TIME: <u>8/14/09 16:00</u> | | | | | | | | | | |
| OUT: <u>1</u> VIA: <u>Greyhound</u> | | DATE/TIME: <u>8/14/09 16:00</u> | | | | | | | | | | |
| IN: <u>1</u> VIA: <u>Greyhound</u> | | DATE/TIME: <u>8/14/09 16:00</u> | | | | | | | | | | |
| CLIENT: <u>Greyhound</u> | | DATE/TIME: <u>8/14/09 16:00</u> | | | | | | | | | | |
| SHIPMENT METHOD: <u>Greyhound</u> | | DATE/TIME: <u>8/14/09 16:00</u> | | | | | | | | | | |
| PROJECT NAME: <u>Owens Corning</u> | | DATE/TIME: <u>8/14/09 16:00</u> | | | | | | | | | | |
| PROJECT #: <u>136868</u> | | DATE/TIME: <u>8/14/09 16:00</u> | | | | | | | | | | |
| SITE ADDRESS: <u>Anderson, SC</u> | | DATE/TIME: <u>8/14/09 16:00</u> | | | | | | | | | | |
| SEND REPORT TO: <u>Franca Perry</u> | | DATE/TIME: <u>8/14/09 16:00</u> | | | | | | | | | | |
| INVOICE TO: <u>Franca Perry</u> | | DATE/TIME: <u>8/14/09 16:00</u> | | | | | | | | | | |
| (IF DIFFERENT FROM ABOVE) | | DATE/TIME: <u>8/14/09 16:00</u> | | | | | | | | | | |
| QUOTE #: | | DATE/TIME: <u>8/14/09 16:00</u> | | | | | | | | | | |
| STATE PROGRAM (if any): | | DATE/TIME: <u>8/14/09 16:00</u> | | | | | | | | | | |
| E-mail? <input checked="" type="checkbox"/> N; Fax? <input type="checkbox"/> Y / N | | DATE/TIME: <u>8/14/09 16:00</u> | | | | | | | | | | |
| DATA PACKAGE: <input checked="" type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV | | DATE/TIME: <u>8/14/09 16:00</u> | | | | | | | | | | |
| Turnaround Time Request: <input checked="" type="checkbox"/> Standard 5 Business Days | | DATE/TIME: <u>8/14/09 16:00</u> | | | | | | | | | | |
| <input type="checkbox"/> 2 Business Day Rush | | DATE/TIME: <u>8/14/09 16:00</u> | | | | | | | | | | |
| <input type="checkbox"/> Next Business Day Rush | | DATE/TIME: <u>8/14/09 16:00</u> | | | | | | | | | | |
| <input type="checkbox"/> Same Day Rush (auth req) | | DATE/TIME: <u>8/14/09 16:00</u> | | | | | | | | | | |
| <input type="checkbox"/> Other | | DATE/TIME: <u>8/14/09 16:00</u> | | | | | | | | | | |
| Total # of Containers: <u>28</u> | | DATE/TIME: <u>8/14/09 16:00</u> | | | | | | | | | | |

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
 SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.
 MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blacks) DW = Drinking Water (Blacks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+1 = Sulfuric acid + ice S/M+1 = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None



ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704

AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 09087961

Date: 8/14/09 Page 2 of 2

| # | SAMPLE ID | SAMPLED | | DATE | TIME | Grab | Composite | Matrix (See codes) | ANALYSIS REQUESTED | REMARKS | No # of Containers |
|----|--------------|---------|------|------|------|------|-----------|--------------------|--------------------|---------|--------------------|
| | | DATE | TIME | | | | | | | | |
| 1 | MW-37 Zone 1 | 8/14/09 | 1000 | | | X | | GW | | | |
| 2 | EB-124 | 8/14/09 | 1020 | | | X | | W | | | |
| 3 | MW-37 Zone 2 | 8/14/09 | 1215 | | | X | | GW | | | |
| 4 | MW-37 Zone 3 | 8/14/09 | 1325 | | | X | | GW | | | |
| 5 | Trip Blank | | | | | | | W | | | |
| 6 | | | | | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| 11 | | | | | | | | | | | |
| 12 | | | | | | | | | | | |
| 13 | | | | | | | | | | | |
| 14 | | | | | | | | | | | |

| | | | |
|--|---------------------------|--------------------------|--------------------|
| RELINQUISHED BY: 1: <u>Dick McCoy</u> | DATE/TIME 8/14/09 1600 | RECEIVED BY: 1: _____ | DATE/TIME _____ |
| 2: _____ | _____ | 2: _____ | _____ |
| 3: _____ | _____ | 3: <u>David S.</u> | 8/14/09 16:00 |

SPECIAL INSTRUCTIONS/COMMENTS:
* Focused list of VOCs

SHIPMENT METHOD: OUT 1 VIA: _____
IN CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER _____

ADDRESS: 996 Hammond Dr NE
Atlanta, GA 30328
FAX: 770-396-9495
SIGNATURE: Dick McCoy

PROJECT NAME: Owens Corning
PROJECT #: 136568
SITE ADDRESS: Anderson, SC
SEND REPORT TO: Tamara Bergman
INVOICE TO: tlcc@mancombi.com
(IF DIFFERENT FROM ABOVE)

PROJECT INFORMATION

RECEIPT

Total # of Containers: 12

Turnaround Time Request: 000000
Standard 5 Business Days
2 Business Day Rush
Next Business Day Rush
Same Day Rush (auth req)
Other _____

STATE PROGRAM (if any): _____
E-mail? Y/N: _____ Fax? Y/N: _____
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice SM+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Brown and Caldwell

Work Order Number 0908A01

Checklist completed by N. Derindag 8/14/09
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 4°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Analytical Environmental Services, Inc.

Date: 21-Aug-09

CLIENT: BROWN AND CALDWELL
 Lab Order: 0908A01
 Project: Owens Corning
 Lab ID: 0908A01-001A

Client Sample ID: MW-33-245-255
 Tag Number:
 Collection Date: 8/10/2009 6:05:00 PM
 Matrix: GROUNDWATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|--|--------|----------|------|-------|------------------|----|-----------------------|
| VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B | | | | | (SW5030B) | | Analyst: JCT |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 6:33:00 AM |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 6:33:00 AM |
| 1,1-Dichloroethene | 590 | 50 | | ug/L | 117208 | 10 | 8/18/2009 12:55:00 AM |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 6:33:00 AM |
| Benzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 6:33:00 AM |
| Carbon tetrachloride | 19 | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 6:33:00 AM |
| Chloroform | 18 | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 6:33:00 AM |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 6:33:00 AM |
| Ethylbenzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 6:33:00 AM |
| Methylene chloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 6:33:00 AM |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 6:33:00 AM |
| Toluene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 6:33:00 AM |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 6:33:00 AM |
| Trichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 6:33:00 AM |
| Vinyl chloride | BRL | 2.0 | | ug/L | 117208 | 1 | 8/18/2009 6:33:00 AM |
| Xylenes, Total | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 6:33:00 AM |
| Surr: 4-Bromofluorobenzene | 90.7 | 61.3-128 | | %REC | 117208 | 1 | 8/18/2009 6:33:00 AM |
| Surr: 4-Bromofluorobenzene | 90.9 | 61.3-128 | | %REC | 117208 | 10 | 8/18/2009 12:55:00 AM |
| Surr: Dibromofluoromethane | 114 | 67.8-130 | | %REC | 117208 | 1 | 8/18/2009 6:33:00 AM |
| Surr: Dibromofluoromethane | 105 | 67.8-130 | | %REC | 117208 | 10 | 8/18/2009 12:55:00 AM |
| Surr: Toluene-d8 | 96.1 | 70.6-121 | | %REC | 117208 | 1 | 8/18/2009 6:33:00 AM |
| Surr: Toluene-d8 | 93.7 | 70.6-121 | | %REC | 117208 | 10 | 8/18/2009 12:55:00 AM |

| | | | | |
|-------------|-----|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| | BRL | Below Reporting Limit | E | Estimated value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| | N | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| | S | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.

Date: 21-Aug-09

CLIENT: BROWN AND CALDWELL
 Lab Order: 0908A01
 Project: Owens Corning
 Lab ID: 0908A01-002A

Client Sample ID: MW-33-395-410
 Tag Number:
 Collection Date: 8/11/2009 7:35:00 PM
 Matrix: GROUNDWATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|--|--------|----------|------|-------|------------------|----|-----------------------|
| VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B | | | | | (SW5030B) | | Analyst: JCT |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:21:00 AM |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:21:00 AM |
| 1,1-Dichloroethene | 190 | 50 | | ug/L | 117208 | 10 | 8/19/2009 11:36:00 AM |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:21:00 AM |
| Benzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:21:00 AM |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:21:00 AM |
| Chloroform | 14 | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:21:00 AM |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:21:00 AM |
| Ethylbenzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:21:00 AM |
| Methylene chloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:21:00 AM |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:21:00 AM |
| Toluene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:21:00 AM |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:21:00 AM |
| Trichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:21:00 AM |
| Vinyl chloride | BRL | 2.0 | | ug/L | 117208 | 1 | 8/19/2009 2:21:00 AM |
| Xylenes, Total | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:21:00 AM |
| Surr: 4-Bromofluorobenzene | 91.2 | 61.3-128 | %REC | | 117208 | 1 | 8/19/2009 2:21:00 AM |
| Surr: 4-Bromofluorobenzene | 91.4 | 61.3-128 | %REC | | 117208 | 10 | 8/19/2009 11:36:00 AM |
| Surr: Dibromofluoromethane | 113 | 67.8-130 | %REC | | 117208 | 10 | 8/19/2009 11:36:00 AM |
| Surr: Dibromofluoromethane | 113 | 67.8-130 | %REC | | 117208 | 1 | 8/19/2009 2:21:00 AM |
| Surr: Toluene-d8 | 97.2 | 70.6-121 | %REC | | 117208 | 10 | 8/19/2009 11:36:00 AM |
| Surr: Toluene-d8 | 95.9 | 70.6-121 | %REC | | 117208 | 1 | 8/19/2009 2:21:00 AM |

| | | | | |
|-------------|-----|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| | BRL | Below Reporting Limit | E | Estimated value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| | N | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| | S | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.

Date: 21-Aug-09

CLIENT: BROWN AND CALDWELL
Lab Order: 0908A01
Project: Owens Corning
Lab ID: 0908A01-003A

Client Sample ID: MW-33-355-365
Tag Number:
Collection Date: 8/12/2009 1:35:00 PM
Matrix: GROUNDWATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|--|--------|----------|------|------------------|---------|---------------------|----------------------|
| VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B | | | | (SW5030B) | | Analyst: JCT | |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:01:00 AM |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:01:00 AM |
| 1,1-Dichloroethene | 530 | 50 | | ug/L | 117208 | 10 | 8/18/2009 1:23:00 AM |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:01:00 AM |
| Benzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:01:00 AM |
| Carbon tetrachloride | 6.8 | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:01:00 AM |
| Chloroform | 18 | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:01:00 AM |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:01:00 AM |
| Ethylbenzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:01:00 AM |
| Methylene chloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:01:00 AM |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:01:00 AM |
| Toluene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:01:00 AM |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:01:00 AM |
| Trichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:01:00 AM |
| Vinyl chloride | BRL | 2.0 | | ug/L | 117208 | 1 | 8/18/2009 7:01:00 AM |
| Xylenes, Total | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:01:00 AM |
| Surr: 4-Bromofluorobenzene | 92.9 | 61.3-128 | | %REC | 117208 | 1 | 8/18/2009 7:01:00 AM |
| Surr: 4-Bromofluorobenzene | 94.1 | 61.3-128 | | %REC | 117208 | 10 | 8/18/2009 1:23:00 AM |
| Surr: Dibromofluoromethane | 113 | 67.8-130 | | %REC | 117208 | 1 | 8/18/2009 7:01:00 AM |
| Surr: Dibromofluoromethane | 106 | 67.8-130 | | %REC | 117208 | 10 | 8/18/2009 1:23:00 AM |
| Surr: Toluene-d8 | 96.4 | 70.6-121 | | %REC | 117208 | 1 | 8/18/2009 7:01:00 AM |
| Surr: Toluene-d8 | 92.7 | 70.6-121 | | %REC | 117208 | 10 | 8/18/2009 1:23:00 AM |

| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
|-------------|---|--|---------|---|
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.

Date: 21-Aug-09

CLIENT: BROWN AND CALDWELL
 Lab Order: 0908A01
 Project: Owens Corning
 Lab ID: 0908A01-004A

Client Sample ID: EB-122
 Tag Number:
 Collection Date: 8/12/2009 11:10:00 AM
 Matrix: AQUEOUS

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|--|--------|----------|------|-------|------------------|----|----------------------|
| VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B | | | | | (SW5030B) | | Analyst: JCT |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:17:00 AM |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:17:00 AM |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:17:00 AM |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:17:00 AM |
| Benzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:17:00 AM |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:17:00 AM |
| Chloroform | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:17:00 AM |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:17:00 AM |
| Ethylbenzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:17:00 AM |
| Methylene chloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:17:00 AM |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:17:00 AM |
| Toluene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:17:00 AM |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:17:00 AM |
| Trichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:17:00 AM |
| Vinyl chloride | BRL | 2.0 | | ug/L | 117208 | 1 | 8/18/2009 3:17:00 AM |
| Xylenes, Total | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:17:00 AM |
| Surr: 4-Bromofluorobenzene | 87.6 | 61.3-128 | | %REC | 117208 | 1 | 8/18/2009 3:17:00 AM |
| Surr: Dibromofluoromethane | 108 | 67.8-130 | | %REC | 117208 | 1 | 8/18/2009 3:17:00 AM |
| Surr: Toluene-d8 | 93.8 | 70.6-121 | | %REC | 117208 | 1 | 8/18/2009 3:17:00 AM |

| | | | | |
|-------------|---|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.

Date: 21-Aug-09

CLIENT: BROWN AND CALDWELL
Lab Order: 0908A01
Project: Owens Corning
Lab ID: 0908A01-005A

Client Sample ID: MW-29R ZONE 3
Tag Number:
Collection Date: 8/12/2009 7:15:00 PM
Matrix: GROUNDWATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|--|--------|----------|------|-------|------------------|----|----------------------|
| VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B | | | | | (SW5030B) | | Analyst: JCT |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:29:00 AM |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:29:00 AM |
| 1,1-Dichloroethene | 640 | 50 | | ug/L | 117208 | 10 | 8/18/2009 1:51:00 AM |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:29:00 AM |
| Benzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:29:00 AM |
| Carbon tetrachloride | 25 | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:29:00 AM |
| Chloroform | 18 | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:29:00 AM |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:29:00 AM |
| Ethylbenzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:29:00 AM |
| Methylene chloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:29:00 AM |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:29:00 AM |
| Toluene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:29:00 AM |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:29:00 AM |
| Trichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:29:00 AM |
| Vinyl chloride | BRL | 2.0 | | ug/L | 117208 | 1 | 8/18/2009 7:29:00 AM |
| Xylenes, Total | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:29:00 AM |
| Surr: 4-Bromofluorobenzene | 95.7 | 61.3-128 | %REC | | 117208 | 1 | 8/18/2009 7:29:00 AM |
| Surr: 4-Bromofluorobenzene | 91.2 | 61.3-128 | %REC | | 117208 | 10 | 8/18/2009 1:51:00 AM |
| Surr: Dibromofluoromethane | 113 | 67.8-130 | %REC | | 117208 | 1 | 8/18/2009 7:29:00 AM |
| Surr: Dibromofluoromethane | 105 | 67.8-130 | %REC | | 117208 | 10 | 8/18/2009 1:51:00 AM |
| Surr: Toluene-d8 | 94.5 | 70.6-121 | %REC | | 117208 | 1 | 8/18/2009 7:29:00 AM |
| Surr: Toluene-d8 | 95.1 | 70.6-121 | %REC | | 117208 | 10 | 8/18/2009 1:51:00 AM |

| | | | | |
|--------------------|-----|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| | BRL | Below Reporting Limit | E | Estimated value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| | N | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| | S | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.

Date: 21-Aug-09

CLIENT: BROWN AND CALDWELL
 Lab Order: 0908A01
 Project: Owens Corning
 Lab ID: 0908A01-006A

Client Sample ID: MW-29R ZONE 4
 Tag Number:
 Collection Date: 8/13/2009 12:15:00 PM
 Matrix: GROUNDWATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|--|--------|----------|------|-------|------------------|----|----------------------|
| VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B | | | | | (SW5030B) | | Analyst: JCT |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:58:00 AM |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:58:00 AM |
| 1,1-Dichloroethene | 630 | 50 | | ug/L | 117208 | 10 | 8/18/2009 2:19:00 AM |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:58:00 AM |
| Benzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:58:00 AM |
| Carbon tetrachloride | 22 | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:58:00 AM |
| Chloroform | 17 | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:58:00 AM |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:58:00 AM |
| Ethylbenzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:58:00 AM |
| Methylene chloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:58:00 AM |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:58:00 AM |
| Toluene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:58:00 AM |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:58:00 AM |
| Trichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:58:00 AM |
| Vinyl chloride | BRL | 2.0 | | ug/L | 117208 | 1 | 8/18/2009 7:58:00 AM |
| Xylenes, Total | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 7:58:00 AM |
| Surr: 4-Bromofluorobenzene | 91.8 | 61.3-128 | | %REC | 117208 | 1 | 8/18/2009 7:58:00 AM |
| Surr: 4-Bromofluorobenzene | 92.4 | 61.3-128 | | %REC | 117208 | 10 | 8/18/2009 2:19:00 AM |
| Surr: Dibromofluoromethane | 117 | 67.8-130 | | %REC | 117208 | 1 | 8/18/2009 7:58:00 AM |
| Surr: Dibromofluoromethane | 105 | 67.8-130 | | %REC | 117208 | 10 | 8/18/2009 2:19:00 AM |
| Surr: Toluene-d8 | 96.8 | 70.6-121 | | %REC | 117208 | 1 | 8/18/2009 7:58:00 AM |
| Surr: Toluene-d8 | 94.7 | 70.6-121 | | %REC | 117208 | 10 | 8/18/2009 2:19:00 AM |

| | | | | |
|--------------------|-----|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| | BRL | Below Reporting Limit | E | Estimated value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| | N | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| | S | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.

Date: 21-Aug-09

CLIENT: BROWN AND CALDWELL
 Lab Order: 0908A01
 Project: Owens Corning
 Lab ID: 0908A01-007A

Client Sample ID: MW-36 ZONE 1
 Tag Number:
 Collection Date: 8/13/2009 1:15:00 PM
 Matrix: GROUNDWATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|--|--------|----------|------|-------|------------------|----|----------------------|
| VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B | | | | | (SW5030B) | | Analyst: JCT |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:45:00 AM |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:45:00 AM |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:45:00 AM |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:45:00 AM |
| Benzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:45:00 AM |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:45:00 AM |
| Chloroform | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:45:00 AM |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:45:00 AM |
| Ethylbenzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:45:00 AM |
| Methylene chloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:45:00 AM |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:45:00 AM |
| Toluene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:45:00 AM |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:45:00 AM |
| Trichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:45:00 AM |
| Vinyl chloride | BRL | 2.0 | | ug/L | 117208 | 1 | 8/18/2009 3:45:00 AM |
| Xylenes, Total | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 3:45:00 AM |
| Surr: 4-Bromofluorobenzene | 92.8 | 61.3-128 | | %REC | 117208 | 1 | 8/18/2009 3:45:00 AM |
| Surr: Dibromofluoromethane | 109 | 67.8-130 | | %REC | 117208 | 1 | 8/18/2009 3:45:00 AM |
| Surr: Toluene-d8 | 92.0 | 70.6-121 | | %REC | 117208 | 1 | 8/18/2009 3:45:00 AM |

| | | | | |
|--------------------|---|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.

Date: 21-Aug-09

CLIENT: BROWN AND CALDWELL
 Lab Order: 0908A01
 Project: Owens Corning
 Lab ID: 0908A01-008A

Client Sample ID: MW-36 ZONE 3
 Tag Number:
 Collection Date: 8/13/2009 3:35:00 PM
 Matrix: GROUNDWATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|--|--------|----------|------|-------|------------------|----|----------------------|
| VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B | | | | | (SW5030B) | | Analyst: JCT |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:13:00 AM |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:13:00 AM |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:13:00 AM |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:13:00 AM |
| Benzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:13:00 AM |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:13:00 AM |
| Chloroform | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:13:00 AM |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:13:00 AM |
| Ethylbenzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:13:00 AM |
| Methylene chloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:13:00 AM |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:13:00 AM |
| Toluene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:13:00 AM |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:13:00 AM |
| Trichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:13:00 AM |
| Vinyl chloride | BRL | 2.0 | | ug/L | 117208 | 1 | 8/18/2009 4:13:00 AM |
| Xylenes, Total | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:13:00 AM |
| Surr: 4-Bromofluorobenzene | 92.4 | 61.3-128 | | %REC | 117208 | 1 | 8/18/2009 4:13:00 AM |
| Surr: Dibromofluoromethane | 108 | 67.8-130 | | %REC | 117208 | 1 | 8/18/2009 4:13:00 AM |
| Surr: Toluene-d8 | 93.5 | 70.6-121 | | %REC | 117208 | 1 | 8/18/2009 4:13:00 AM |

| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
|-------------|---|--|---------|---|
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.

Date: 21-Aug-09

CLIENT: BROWN AND CALDWELL
Lab Order: 0908A01
Project: Owens Corning
Lab ID: 0908A01-009A

Client Sample ID: MW-36 ZONE 5
Tag Number:
Collection Date: 8/13/2009 4:30:00 PM
Matrix: GROUNDWATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|--|--------|----------|------|-------|------------------|----|----------------------|
| VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B | | | | | (SW5030B) | | Analyst: JCT |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:41:00 AM |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:41:00 AM |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:41:00 AM |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:41:00 AM |
| Benzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:41:00 AM |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:41:00 AM |
| Chloroform | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:41:00 AM |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:41:00 AM |
| Ethylbenzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:41:00 AM |
| Methylene chloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:41:00 AM |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:41:00 AM |
| Toluene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:41:00 AM |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:41:00 AM |
| Trichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:41:00 AM |
| Vinyl chloride | BRL | 2.0 | | ug/L | 117208 | 1 | 8/18/2009 4:41:00 AM |
| Xylenes, Total | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 4:41:00 AM |
| Surr: 4-Bromofluorobenzene | 94.0 | 61.3-128 | | %REC | 117208 | 1 | 8/18/2009 4:41:00 AM |
| Surr: Dibromofluoromethane | 113 | 67.8-130 | | %REC | 117208 | 1 | 8/18/2009 4:41:00 AM |
| Surr: Toluene-d8 | 93.5 | 70.6-121 | | %REC | 117208 | 1 | 8/18/2009 4:41:00 AM |

| Qualifiers: | | | | |
|-------------|--|---------|---|--|
| * | Value exceeds Maximum Contaminant Level | < | Less than Result value | |
| > | Greater than Result value | B | Analyte detected in the associated Method Blank | |
| BRL | Below Reporting Limit | E | Estimated value above quantitation range | |
| H | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit | |
| N | Analyte not NELAC certified | Rpt Lim | Reporting Limit | |
| S | Spike Recovery outside limits due to matrix | | | |

Analytical Environmental Services, Inc.

Date: 21-Aug-09

CLIENT: BROWN AND CALDWELL
 Lab Order: 0908A01
 Project: Owens Corning
 Lab ID: 0908A01-010A

Client Sample ID: MW-22
 Tag Number:
 Collection Date: 8/13/2009 6:40:00 PM
 Matrix: GROUNDWATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|--|--------|----------|------|-------|------------------|----|-----------------------|
| VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B | | | | | (SW5030B) | | Analyst: JCT |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:53:00 AM |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:53:00 AM |
| 1,1-Dichloroethene | 650 | 250 | | ug/L | 117208 | 50 | 8/17/2009 11:58:00 PI |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:53:00 AM |
| Benzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:53:00 AM |
| Carbon tetrachloride | 30 | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:53:00 AM |
| Chloroform | 17 | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:53:00 AM |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:53:00 AM |
| Ethylbenzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:53:00 AM |
| Methylene chloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:53:00 AM |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:53:00 AM |
| Toluene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:53:00 AM |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:53:00 AM |
| Trichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:53:00 AM |
| Vinyl chloride | BRL | 2.0 | | ug/L | 117208 | 1 | 8/19/2009 1:53:00 AM |
| Xylenes, Total | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:53:00 AM |
| Surr: 4-Bromofluorobenzene | 91.8 | 61.3-128 | | %REC | 117208 | 1 | 8/19/2009 1:53:00 AM |
| Surr: 4-Bromofluorobenzene | 96.7 | 61.3-128 | | %REC | 117208 | 50 | 8/17/2009 11:58:00 PI |
| Surr: Dibromofluoromethane | 107 | 67.8-130 | | %REC | 117208 | 1 | 8/19/2009 1:53:00 AM |
| Surr: Dibromofluoromethane | 103 | 67.8-130 | | %REC | 117208 | 50 | 8/17/2009 11:58:00 PI |
| Surr: Toluene-d8 | 93.9 | 70.6-121 | | %REC | 117208 | 1 | 8/19/2009 1:53:00 AM |
| Surr: Toluene-d8 | 90.7 | 70.6-121 | | %REC | 117208 | 50 | 8/17/2009 11:58:00 PI |

| | | | | |
|-------------|-----|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| | BRL | Below Reporting Limit | E | Estimated value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| | N | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| | S | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.

Date: 21-Aug-09

CLIENT: BROWN AND CALDWELL
Lab Order: 0908A01
Project: Owens Corning
Lab ID: 0908A01-011A

Client Sample ID: EB-123
Tag Number:
Collection Date: 8/13/2009 7:20:00 PM
Matrix: AQUEOUS

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|--|--------|----------|------|-------|-----------|----|----------------------|
| VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B | | | | | | | |
| | | | | | (SW5030B) | | Analyst: JCT |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:09:00 AM |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:09:00 AM |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:09:00 AM |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:09:00 AM |
| Benzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:09:00 AM |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:09:00 AM |
| Chloroform | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:09:00 AM |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:09:00 AM |
| Ethylbenzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:09:00 AM |
| Methylene chloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:09:00 AM |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:09:00 AM |
| Toluene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:09:00 AM |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:09:00 AM |
| Trichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:09:00 AM |
| Vinyl chloride | BRL | 2.0 | | ug/L | 117208 | 1 | 8/18/2009 5:09:00 AM |
| Xylenes, Total | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:09:00 AM |
| Surr: 4-Bromofluorobenzene | 91.9 | 61.3-128 | | %REC | 117208 | 1 | 8/18/2009 5:09:00 AM |
| Surr: Dibromofluoromethane | 110 | 67.8-130 | | %REC | 117208 | 1 | 8/18/2009 5:09:00 AM |
| Surr: Toluene-d8 | 95.5 | 70.6-121 | | %REC | 117208 | 1 | 8/18/2009 5:09:00 AM |

| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
|-------------|---|--|---------|---|
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.

Date: 21-Aug-09

CLIENT: BROWN AND CALDWELL
 Lab Order: 0908A01
 Project: Owens Corning
 Lab ID: 0908A01-012A

Client Sample ID: DUP-A1
 Tag Number:
 Collection Date: 8/13/2009 12:00:00 PM
 Matrix: GROUNDWATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|--|--------|----------|------|------------------|---------|--------------|-----------------------|
| VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B | | | | (SW5030B) | | Analyst: JCT | |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:46:00 AM |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:46:00 AM |
| 1,1-Dichloroethene | 740 | 50 | | ug/L | 117208 | 10 | 8/19/2009 12:04:00 PI |
| 1,2-Dichloroethane | 5.2 | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:46:00 AM |
| Benzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:46:00 AM |
| Carbon tetrachloride | 33 | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:46:00 AM |
| Chloroform | 19 | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:46:00 AM |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:46:00 AM |
| Ethylbenzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:46:00 AM |
| Methylene chloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:46:00 AM |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:46:00 AM |
| Toluene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:46:00 AM |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:46:00 AM |
| Trichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:46:00 AM |
| Vinyl chloride | BRL | 2.0 | | ug/L | 117208 | 1 | 8/19/2009 3:46:00 AM |
| Xylenes, Total | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:46:00 AM |
| Surr: 4-Bromofluorobenzene | 93.9 | 61.3-128 | %REC | | 117208 | 10 | 8/19/2009 12:04:00 PI |
| Surr: 4-Bromofluorobenzene | 93.0 | 61.3-128 | %REC | | 117208 | 1 | 8/19/2009 3:46:00 AM |
| Surr: Dibromofluoromethane | 114 | 67.8-130 | %REC | | 117208 | 10 | 8/19/2009 12:04:00 PI |
| Surr: Dibromofluoromethane | 114 | 67.8-130 | %REC | | 117208 | 1 | 8/19/2009 3:46:00 AM |
| Surr: Toluene-d8 | 95.4 | 70.6-121 | %REC | | 117208 | 10 | 8/19/2009 12:04:00 PI |
| Surr: Toluene-d8 | 97.7 | 70.6-121 | %REC | | 117208 | 1 | 8/19/2009 3:46:00 AM |

| | | | | |
|--------------------|-----|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| | BRL | Below Reporting Limit | E | Estimated value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| | N | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| | S | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.

Date: 21-Aug-09

CLIENT: BROWN AND CALDWELL
Lab Order: 0908A01
Project: Owens Corning
Lab ID: 0908A01-013A

Client Sample ID: MW-15
Tag Number:
Collection Date: 8/13/2009 8:20:00 PM
Matrix: GROUNDWATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|--|--------|----------|------|-------|-----------|----|----------------------|
| VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B | | | | | | | |
| | | | | | (SW5030B) | | Analyst: JCT |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:37:00 AM |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:37:00 AM |
| 1,1-Dichloroethene | 420 | 50 | | ug/L | 117208 | 10 | 8/18/2009 1:11:00 PM |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:37:00 AM |
| Benzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:37:00 AM |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:37:00 AM |
| Chloroform | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:37:00 AM |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:37:00 AM |
| Ethylbenzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:37:00 AM |
| Methylene chloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:37:00 AM |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:37:00 AM |
| Toluene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:37:00 AM |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:37:00 AM |
| Trichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:37:00 AM |
| Vinyl chloride | BRL | 2.0 | | ug/L | 117208 | 1 | 8/18/2009 5:37:00 AM |
| Xylenes, Total | BRL | 5.0 | | ug/L | 117208 | 1 | 8/18/2009 5:37:00 AM |
| Surr: 4-Bromofluorobenzene | 90.8 | 61.3-128 | | %REC | 117208 | 10 | 8/18/2009 1:11:00 PM |
| Surr: 4-Bromofluorobenzene | 90.1 | 61.3-128 | | %REC | 117208 | 1 | 8/18/2009 5:37:00 AM |
| Surr: Dibromofluoromethane | 109 | 67.8-130 | | %REC | 117208 | 10 | 8/18/2009 1:11:00 PM |
| Surr: Dibromofluoromethane | 110 | 67.8-130 | | %REC | 117208 | 1 | 8/18/2009 5:37:00 AM |
| Surr: Toluene-d8 | 89.5 | 70.6-121 | | %REC | 117208 | 10 | 8/18/2009 1:11:00 PM |
| Surr: Toluene-d8 | 94.9 | 70.6-121 | | %REC | 117208 | 1 | 8/18/2009 5:37:00 AM |

| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
|-------------|---|--|---------|---|
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.

Date: 21-Aug-09

CLIENT: BROWN AND CALDWELL
 Lab Order: 0908A01
 Project: Owens Corning
 Lab ID: 0908A01-014A

Client Sample ID: MW-35
 Tag Number:
 Collection Date: 8/13/2009 5:30:00 PM
 Matrix: GROUNDWATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|--|--------|----------|------|-------|------------------|----|-----------------------|
| VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B | | | | | (SW5030B) | | Analyst: JCT |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:18:00 AM |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:18:00 AM |
| 1,1-Dichloroethene | 470 | 250 | | ug/L | 117208 | 50 | 8/18/2009 12:26:00 AM |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:18:00 AM |
| Benzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:18:00 AM |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:18:00 AM |
| Chloroform | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:18:00 AM |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:18:00 AM |
| Ethylbenzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:18:00 AM |
| Methylene chloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:18:00 AM |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:18:00 AM |
| Toluene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:18:00 AM |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:18:00 AM |
| Trichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:18:00 AM |
| Vinyl chloride | BRL | 2.0 | | ug/L | 117208 | 1 | 8/19/2009 3:18:00 AM |
| Xylenes, Total | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 3:18:00 AM |
| Surr: 4-Bromofluorobenzene | 92.4 | 61.3-128 | | %REC | 117208 | 1 | 8/19/2009 3:18:00 AM |
| Surr: 4-Bromofluorobenzene | 95.3 | 61.3-128 | | %REC | 117208 | 50 | 8/18/2009 12:26:00 AM |
| Surr: Dibromofluoromethane | 115 | 67.8-130 | | %REC | 117208 | 1 | 8/19/2009 3:18:00 AM |
| Surr: Dibromofluoromethane | 107 | 67.8-130 | | %REC | 117208 | 50 | 8/18/2009 12:26:00 AM |
| Surr: Toluene-d8 | 94.9 | 70.6-121 | | %REC | 117208 | 1 | 8/19/2009 3:18:00 AM |
| Surr: Toluene-d8 | 93.2 | 70.6-121 | | %REC | 117208 | 50 | 8/18/2009 12:26:00 AM |

| Qualifiers: | | | | |
|-------------|--|---------|---|--|
| * | Value exceeds Maximum Contaminant Level | < | Less than Result value | |
| > | Greater than Result value | B | Analyte detected in the associated Method Blank | |
| BRL | Below Reporting Limit | E | Estimated value above quantitation range | |
| H | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit | |
| N | Analyte not NELAC certified | Rpt Lim | Reporting Limit | |
| S | Spike Recovery outside limits due to matrix | | | |

Analytical Environmental Services, Inc.

Date: 21-Aug-09

CLIENT: BROWN AND CALDWELL
Lab Order: 0908A01
Project: Owens Corning
Lab ID: 0908A01-015A

Client Sample ID: MW-37 ZONE 1
Tag Number:
Collection Date: 8/14/2009 10:00:00 AM
Matrix: GROUNDWATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|--|--------|----------|------|-------|-----------|----|----------------------|
| VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B | | | | | | | |
| | | | | | (SW5030B) | | Analyst: JCT |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:25:00 AM |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:25:00 AM |
| 1,1-Dichloroethene | 5.5 | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:25:00 AM |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:25:00 AM |
| Benzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:25:00 AM |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:25:00 AM |
| Chloroform | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:25:00 AM |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:25:00 AM |
| Ethylbenzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:25:00 AM |
| Methylene chloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:25:00 AM |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:25:00 AM |
| Toluene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:25:00 AM |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:25:00 AM |
| Trichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:25:00 AM |
| Vinyl chloride | BRL | 2.0 | | ug/L | 117208 | 1 | 8/19/2009 1:25:00 AM |
| Xylenes, Total | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 1:25:00 AM |
| Surr: 4-Bromofluorobenzene | 94.4 | 61.3-128 | | %REC | 117208 | 1 | 8/19/2009 1:25:00 AM |
| Surr: Dibromofluoromethane | 107 | 67.8-130 | | %REC | 117208 | 1 | 8/19/2009 1:25:00 AM |
| Surr: Toluene-d8 | 94.1 | 70.6-121 | | %REC | 117208 | 1 | 8/19/2009 1:25:00 AM |

| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
|-------------|---|--|---------|---|
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.

Date: 21-Aug-09

CLIENT: BROWN AND CALDWELL
 Lab Order: 0908A01
 Project: Owens Corning
 Lab ID: 0908A01-016A

Client Sample ID: EB-124
 Tag Number:
 Collection Date: 8/14/2009 10:20:00 AM
 Matrix: AQUEOUS

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|--|--------|----------|------|-------|------------------|----|----------------------|
| VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B | | | | | (SW5030B) | | Analyst: JCT |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 4:14:00 AM |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 4:14:00 AM |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 4:14:00 AM |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 4:14:00 AM |
| Benzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 4:14:00 AM |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 4:14:00 AM |
| Chloroform | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 4:14:00 AM |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 4:14:00 AM |
| Ethylbenzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 4:14:00 AM |
| Methylene chloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 4:14:00 AM |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 4:14:00 AM |
| Toluene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 4:14:00 AM |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 4:14:00 AM |
| Trichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 4:14:00 AM |
| Vinyl chloride | BRL | 2.0 | | ug/L | 117208 | 1 | 8/19/2009 4:14:00 AM |
| Xylenes, Total | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 4:14:00 AM |
| Surr: 4-Bromofluorobenzene | 94.3 | 61.3-128 | | %REC | 117208 | 1 | 8/19/2009 4:14:00 AM |
| Surr: Dibromofluoromethane | 112 | 67.8-130 | | %REC | 117208 | 1 | 8/19/2009 4:14:00 AM |
| Surr: Toluene-d8 | 94.1 | 70.6-121 | | %REC | 117208 | 1 | 8/19/2009 4:14:00 AM |

| | | | | |
|--------------------|---|--|---------|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.

Date: 21-Aug-09

CLIENT: BROWN AND CALDWELL
Lab Order: 0908A01
Project: Owens Corning
Lab ID: 0908A01-017A

Client Sample ID: MW-37 ZONE 2
Tag Number:
Collection Date: 8/14/2009 12:15:00 PM
Matrix: GROUNDWATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|--|--------|----------|------|-------|------------------|----|----------------------|
| VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B | | | | | (SW5030B) | | Analyst: JCT |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:49:00 AM |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:49:00 AM |
| 1,1-Dichloroethene | 200 | 50 | | ug/L | 117208 | 10 | 8/18/2009 2:48:00 AM |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:49:00 AM |
| Benzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:49:00 AM |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:49:00 AM |
| Chloroform | 14 | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:49:00 AM |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:49:00 AM |
| Ethylbenzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:49:00 AM |
| Methylene chloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:49:00 AM |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:49:00 AM |
| Toluene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:49:00 AM |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:49:00 AM |
| Trichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:49:00 AM |
| Vinyl chloride | BRL | 2.0 | | ug/L | 117208 | 1 | 8/19/2009 2:49:00 AM |
| Xylenes, Total | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 2:49:00 AM |
| Surr: 4-Bromofluorobenzene | 93.7 | 61.3-128 | | %REC | 117208 | 1 | 8/19/2009 2:49:00 AM |
| Surr: 4-Bromofluorobenzene | 90.2 | 61.3-128 | | %REC | 117208 | 10 | 8/18/2009 2:48:00 AM |
| Surr: Dibromofluoromethane | 113 | 67.8-130 | | %REC | 117208 | 1 | 8/19/2009 2:49:00 AM |
| Surr: Dibromofluoromethane | 107 | 67.8-130 | | %REC | 117208 | 10 | 8/18/2009 2:48:00 AM |
| Surr: Toluene-d8 | 91.9 | 70.6-121 | | %REC | 117208 | 10 | 8/18/2009 2:48:00 AM |
| Surr: Toluene-d8 | 94.0 | 70.6-121 | | %REC | 117208 | 1 | 8/19/2009 2:49:00 AM |

| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
|-------------|---|--|---------|---|
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.

Date: 21-Aug-09

CLIENT: BROWN AND CALDWELL
 Lab Order: 0908A01
 Project: Owens Corning
 Lab ID: 0908A01-018A

Client Sample ID: MW-37 ZONE 3
 Tag Number:
 Collection Date: 8/14/2009 1:25:00 PM
 Matrix: GROUNDWATER

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|--|--------|----------|------|-------|------------------|----|-----------------------|
| VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B | | | | | (SW5030B) | | Analyst: JCT |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 12:01:00 AI |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 12:01:00 AI |
| 1,1-Dichloroethene | 6.8 | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 12:01:00 AI |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 12:01:00 AI |
| Benzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 12:01:00 AI |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 12:01:00 AI |
| Chloroform | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 12:01:00 AI |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 12:01:00 AI |
| Ethylbenzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 12:01:00 AI |
| Methylene chloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 12:01:00 AI |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 12:01:00 AI |
| Toluene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 12:01:00 AI |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 12:01:00 AI |
| Trichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 12:01:00 AI |
| Vinyl chloride | BRL | 2.0 | | ug/L | 117208 | 1 | 8/19/2009 12:01:00 AI |
| Xylenes, Total | BRL | 5.0 | | ug/L | 117208 | 1 | 8/19/2009 12:01:00 AI |
| Surr: 4-Bromofluorobenzene | 91.8 | 61.3-128 | | %REC | 117208 | 1 | 8/19/2009 12:01:00 AI |
| Surr: Dibromofluoromethane | 106 | 67.8-130 | | %REC | 117208 | 1 | 8/19/2009 12:01:00 AI |
| Surr: Toluene-d8 | 94.7 | 70.6-121 | | %REC | 117208 | 1 | 8/19/2009 12:01:00 AI |

| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
|-------------|---|--|---------|---|
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

Analytical Environmental Services, Inc.

Date: 21-Aug-09

CLIENT: BROWN AND CALDWELL
 Lab Order: 0908A01
 Project: Owens Corning
 Lab ID: 0908A01-019A

Client Sample ID: TRIP BLANK
 Tag Number:
 Collection Date: 8/14/2009
 Matrix: AQUEOUS

| Analyses | Result | Limit | Qual | Units | BatchID | DF | Date Analyzed |
|--|--------|----------|------|------------------|---------|--------------|-----------------------|
| VOLATILE ORGANIC COMPOUNDS BY GC/MS SW8260B | | | | (SW5030B) | | Analyst: JCT | |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/17/2009 12:18:00 PI |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/17/2009 12:18:00 PI |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/17/2009 12:18:00 PI |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 117208 | 1 | 8/17/2009 12:18:00 PI |
| Benzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/17/2009 12:18:00 PI |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/17/2009 12:18:00 PI |
| Chloroform | BRL | 5.0 | | ug/L | 117208 | 1 | 8/17/2009 12:18:00 PI |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/17/2009 12:18:00 PI |
| Ethylbenzene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/17/2009 12:18:00 PI |
| Methylene chloride | BRL | 5.0 | | ug/L | 117208 | 1 | 8/17/2009 12:18:00 PI |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/17/2009 12:18:00 PI |
| Toluene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/17/2009 12:18:00 PI |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/17/2009 12:18:00 PI |
| Trichloroethene | BRL | 5.0 | | ug/L | 117208 | 1 | 8/17/2009 12:18:00 PI |
| Vinyl chloride | BRL | 2.0 | | ug/L | 117208 | 1 | 8/17/2009 12:18:00 PI |
| Xylenes, Total | BRL | 5.0 | | ug/L | 117208 | 1 | 8/17/2009 12:18:00 PI |
| Surr: 4-Bromofluorobenzene | 97.4 | 61.3-128 | | %REC | 117208 | 1 | 8/17/2009 12:18:00 PI |
| Surr: Dibromofluoromethane | 109 | 67.8-130 | | %REC | 117208 | 1 | 8/17/2009 12:18:00 PI |
| Surr: Toluene-d8 | 94.1 | 70.6-121 | | %REC | 117208 | 1 | 8/17/2009 12:18:00 PI |

| Qualifiers: | * | Value exceeds Maximum Contaminant Level | < | Less than Result value |
|-------------|---|--|---------|---|
| | > | Greater than Result value | B | Analyte detected in the associated Method Blank |
| BRL | | Below Reporting Limit | E | Estimated value above quantitation range |
| H | | Holding times for preparation or analysis exceeded | J | Estimated value detected below Reporting Limit |
| N | | Analyte not NELAC certified | Rpt Lim | Reporting Limit |
| S | | Spike Recovery outside limits due to matrix | | |

CLIENT: BROWN AND CALDWELL
 Work Order: 0908A01
 Project: Owens Corning
ANALYTICAL QC SUMMARY REPORT
 TestCode: Volatile Organic Compounds by GC/MS SW8260B

| Sample ID: MB-117208 | SampType: MBLK | Batch ID: 117208 | Units: ug/L | Prep Date: 8/17/2009 | RunNo: 153860 | | | | | | |
|----------------------------|---|------------------|-------------|--------------------------|----------------|----------|-----------|-------------|------|----------|------|
| Client ID: | TestCode: Volatile Organic Compounds by GC/MS SW8260B | | | Analysis Date: 8/17/2009 | SeqNo: 3170895 | | | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1,1-Trichloroethane | BRL | | | | | 5.0 | | | | | |
| 1,1-Dichloroethane | BRL | | | | | 5.0 | | | | | |
| 1,1-Dichloroethene | BRL | | | | | 5.0 | | | | | |
| 1,2-Dichloroethane | BRL | | | | | 5.0 | | | | | |
| Benzene | BRL | | | | | 5.0 | | | | | |
| Carbon tetrachloride | BRL | | | | | 5.0 | | | | | |
| Chloroform | BRL | | | | | 5.0 | | | | | |
| cis-1,2-Dichloroethene | BRL | | | | | 5.0 | | | | | |
| Ethylbenzene | BRL | | | | | 5.0 | | | | | |
| Methylene chloride | BRL | | | | | 5.0 | | | | | |
| Tetrachloroethene | BRL | | | | | 5.0 | | | | | |
| Toluene | BRL | | | | | 5.0 | | | | | |
| trans-1,2-Dichloroethene | BRL | | | | | 5.0 | | | | | |
| Trichloroethene | BRL | | | | | 5.0 | | | | | |
| Vinyl chloride | BRL | | | | | 2.0 | | | | | |
| Xylenes, Total | BRL | | | | | 5.0 | | | | | |
| Surr: 4-Bromofluorobenzene | 47.22 | 0 | 50 | 0 | 94.4 | 61.3 | 128 | 0 | 0 | 0 | |
| Surr: Dibromofluoromethane | 54.52 | 0 | 50 | 0 | 109 | 67.8 | 130 | 0 | 0 | 0 | |
| Surr: Toluene-d8 | 46.06 | 0 | 50 | 0 | 92.1 | 70.6 | 121 | 0 | 0 | 0 | |

| Sample ID: LCS-117208 | SampType: LCS | Batch ID: 117208 | Units: ug/L | Prep Date: 8/17/2009 | RunNo: 153860 | | | | | | |
|-----------------------|---|------------------|-------------|--------------------------|----------------|----------|-----------|-------------|------|----------|------|
| Client ID: | TestCode: Volatile Organic Compounds by GC/MS SW8260B | | | Analysis Date: 8/17/2009 | SeqNo: 3170894 | | | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 70.92 | 5.0 | 50 | 0 | 142 | 64.2 | 156 | 0 | 0 | 0 | |
| Benzene | 58.86 | 5.0 | 50 | 0 | 118 | 77.6 | 130 | 0 | 0 | 0 | |

Qualifiers:

| | | | |
|---------|---|---|--|
| < | Less than Result value | > | Greater than Result value |
| BRL | Below Reporting Limit | E | Estimated value above quantitation range |
| J | Estimated value detected below Reporting Limit | N | Analyte not NELAC certified |
| Rpt Lim | Reporting Limit | S | Spike Recovery outside limits due to matrix |
| B | Analyte detected in the associated Method Blank | H | Holding times for preparation or analysis exceeded |
| R | RPD outside limits due to matrix | | |

CLIENT: BROWN AND CALDWELL
 Work Order: 0908A01
 Project: Owens Corning

ANALYTICAL QC SUMMARY REPORT

TestCode: Volatile Organic Compounds by GC/MS SW8260B

| | | | | | |
|-----------------------|---|------------------|-------------|--------------------------|----------------|
| Sample ID: LCS-117208 | SampType: LCS | Batch ID: 117208 | Units: ug/L | Prep Date: 8/17/2009 | RunNo: 153860 |
| Client ID: | TestCode: Volatile Organic Compounds by GC/MS SW8260B | | | Analysis Date: 8/17/2009 | SeqNo: 3170894 |

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|----------------------------|--------|-----------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| Toluene | 60.17 | 5.0 | 50 | 0 | 120 | 76.8 | 132 | 0 | 0 | | |
| Trichloroethene | 59.83 | 5.0 | 50 | 0 | 120 | 77.7 | 134 | 0 | 0 | | |
| Surr: 4-Bromofluorobenzene | 55.11 | 0 | 50 | 0 | 110 | 61.3 | 128 | 0 | 0 | | |
| Surr: Dibromofluoromethane | 51.18 | 0 | 50 | 0 | 102 | 67.8 | 130 | 0 | 0 | | |
| Surr: Toluene-d8 | 51.99 | 0 | 50 | 0 | 104 | 70.6 | 121 | 0 | 0 | | |

| | | | | | |
|---------------------------|---|------------------|-------------|--------------------------|----------------|
| Sample ID: 0908A01-018AMS | SampType: MS | Batch ID: 117208 | Units: ug/L | Prep Date: 8/17/2009 | RunNo: 153981 |
| Client ID: MW-37 ZONE 3 | TestCode: Volatile Organic Compounds by GC/MS SW8260B | | | Analysis Date: 8/18/2009 | SeqNo: 3172774 |

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|----------------------------|--------|-----------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| 1,1-Dichloroethene | 74.23 | 5.0 | 50 | 9.04 | 130 | 46.8 | 169 | 0 | 0 | | |
| Benzene | 63.12 | 5.0 | 50 | 1.21 | 124 | 74.4 | 134 | 0 | 0 | | |
| Toluene | 63.84 | 5.0 | 50 | 1.74 | 124 | 73.7 | 138 | 0 | 0 | | |
| Trichloroethene | 61.52 | 5.0 | 50 | 0 | 123 | 66.9 | 142 | 0 | 0 | | |
| Surr: 4-Bromofluorobenzene | 54.12 | 0 | 50 | 0 | 108 | 61.3 | 128 | 0 | 0 | | |
| Surr: Dibromofluoromethane | 53.51 | 0 | 50 | 0 | 107 | 67.8 | 130 | 0 | 0 | | |
| Surr: Toluene-d8 | 54 | 0 | 50 | 0 | 108 | 70.6 | 121 | 0 | 0 | | |

| | | | | | |
|----------------------------|---|------------------|-------------|--------------------------|----------------|
| Sample ID: 0908A01-018AMSD | SampType: MSD | Batch ID: 117208 | Units: ug/L | Prep Date: 8/17/2009 | RunNo: 153981 |
| Client ID: MW-37 ZONE 3 | TestCode: Volatile Organic Compounds by GC/MS SW8260B | | | Analysis Date: 8/18/2009 | SeqNo: 3172777 |

| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|----------------------------|--------|-----------|-----------|-------------|------|----------|-----------|-------------|------|----------|------|
| 1,1-Dichloroethene | 72.2 | 5.0 | 50 | 9.04 | 126 | 46.8 | 169 | 74.23 | 2.77 | 20 | |
| Benzene | 61.24 | 5.0 | 50 | 1.21 | 120 | 74.4 | 134 | 63.12 | 3.02 | 20 | |
| Toluene | 62.18 | 5.0 | 50 | 1.74 | 121 | 73.7 | 138 | 63.84 | 2.63 | 20 | |
| Trichloroethene | 59.55 | 5.0 | 50 | 0 | 119 | 66.9 | 142 | 61.52 | 3.25 | 20 | |
| Surr: 4-Bromofluorobenzene | 54.23 | 0 | 50 | 0 | 108 | 61.3 | 128 | 54.12 | 0 | 0 | |
| Surr: Dibromofluoromethane | 51.16 | 0 | 50 | 0 | 102 | 67.8 | 130 | 53.51 | 0 | 0 | |

Qualifiers: < Less than Result value
 BRL Below Reporting Limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit
 > Greater than Result value
 E Estimated value above quantitation range
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix
 B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

CLIENT: BROWN AND CALDWELL
 Work Order: 0908A01
 Project: Owens Corning

ANALYTICAL QC SUMMARY REPORT

TestCode: Volatile Organic Compounds by GC/MS SW8260B

| | | | | | | | | | | |
|----------------------------|---|------------------|-------------|--------------------------|----------------|-----------|-------------|------|----------|------|
| Sample ID: 0908A01-018AMSD | SampType: MSD | Batch ID: 117208 | Units: ug/L | Prep Date: 8/17/2009 | RunNo: 153981 | | | | | |
| Client ID: MW-37 ZONE 3 | TestCode: Volatile Organic Compounds by GC/MS SW8260B | | | Analysis Date: 8/18/2009 | SeqNo: 3172777 | | | | | |
| Analyte | Result | RPT Limit | SPK value | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Surr: Toluene-d8 | 52.47 | 0 | 50 | 105 | 70.6 | 121 | 54 | 0 | 0 | 0 |

| Qualifiers: | < | > | B | H | R |
|--|---|---|---|---|--|
| Less than Result value | | | | | Analyte detected in the associated Method Blank |
| BRL Below Reporting Limit | | E | | H | Holding times for preparation or analysis exceeded |
| Estimated value detected below Reporting Limit | N | | | R | RPD outside limits due to matrix |
| Rpt Lim Reporting Limit | S | | | | |
| Greater than Result value | | | | | |
| Estimated value above quantitation range | | | | | |
| Analyte not NELAC certified | | | | | |
| Spike Recovery outside limits due to matrix | | | | | |

December 01, 2009

Service Request No: J0905825

Tamara Berryman
Brown and Caldwell
990 Hammond Drive
Suite 400
Atlanta, GA 30328

Laboratory Results for: Owens Corning/136868

Dear Tamara:

Enclosed are the results of the sample(s) submitted to our laboratory on November 21, 2009. For your reference, these analyses have been assigned our service request number **J0905825**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 4409. You may also contact me via email at CMyers@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.



Craig Myers
Project Manager

Page 1 of 98

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Brown and Caldwell
Project: Owens Corning
Sample Matrix: Water

Service Request No.: J0905825
Date Received: 11/21/09

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Sixty-four water samples and two trip blanks were received for analysis at Columbia Analytical Services on 11/21/09. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at $4\pm 2^{\circ}\text{C}$ upon receipt at the lab except for aqueous samples designated for metals analyses, which were stored at room temperature.

Volatile Organic Compounds by GC-MS

The samples were analyzed for Volatile Organics using EPA Method 8260. The following observations were made regarding this delivery group.

Surrogate Exceptions

The upper control criterion was exceeded for the following surrogate in samples MW-19, MW-9 and Method Blank JWG0903993-4: 4-Bromofluorobenzene. No target analytes were detected in the samples that were associated to the surrogate in question. The error associated with an elevated recovery equates to a high bias. The quality of the sample data is not significantly affected. No further corrective action was appropriate.

Matrix Spike Recovery Exceptions

The control criterion for the matrix spike recovery of 1,1-Dichloroethene for sample MW-29R Zone 3 and MW-24 is not applicable. The analyte concentrations in the samples were significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Lab Control Sample Exceptions

The spike recovery of 1,1,1-Trichloroethane (TCA) for Laboratory Control Sample (LCS) JWG0903993-3 was outside the upper control criterion. The analyte in question was not detected in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

The spike recovery of o-Xylene for Laboratory Control Sample (LCS) JWG0904010-3 was outside the lower control criterion. The analyte in question was not detected in the associated field samples. Since the analyte was detected in the MRL check standard, instrument sensitivity was documented. The data quality was not significantly affected and no further corrective action was taken.

Approved by _____

Date _____

12/1/09

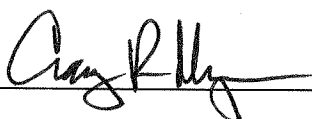
Elevated Method Reporting Limits

Samples MW-7 and MW-28 required a dilution due to the presence of elevated levels of target analytes. The reporting limits are adjusted to reflect the dilution.

Batch QC Notes and Discussion

Quality control samples for MS/DMS were performed using samples from another sample delivery group (SDG). The frequency requirement for quality control sample analysis was consistent with the project's requirements. Matrix specific quality control results have no bearing on sample data from a different matrix or location. Therefore, control of the batch has been evaluated using the method blank and the laboratory control sample.

Approved by _____



Date _____

12/1/09

Data Qualifiers

Inorganic Data

- * The result is an outlier. See case narrative.
- # The control limit criteria are not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimated amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- Z Too many colonies were present (TNTC). The numeric value represents the filtration volume.
- i The MRL/MDL has been elevated due to matrix interference.
- X See case narrative.

Metals Data

- * The result is an outlier. See case narrative.
- # The control limit criteria are not applicable. See case narrative.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The reported value is estimated because of the presence of matrix interference.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The result was determined by Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data

- * The result is an outlier. See case narrative.
- # The control limit criteria are not applicable. See case narrative.
- A The tentatively identified compound is a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria were exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides)
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Petroleum Hydrocarbon Specific

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Acronyms

| | |
|------------|--|
| ASTM | American Society for Testing and Materials |
| A2LA | American Association for Laboratory Accreditation |
| CARB | California Air Resources Board |
| CAS Number | Chemical Abstract Service registry Number |
| CFC | Chlorofluorocarbon |
| CFU | Colony-Forming Unit |
| DEC | Department of Environmental Conservation |
| DEQ | Department of Environmental Quality |
| DHS | Department of Health Services |
| DOE | Department of Ecology |
| DOH | Department of Health |
| EPA | U. S. Environmental Protection Agency |
| ELAP | Environmental Laboratory Accreditation Program |
| GC | Gas Chromatography |
| GC/MS | Gas Chromatography/Mass Spectrometry |
| LUFT | Leaking Underground Fuel Tank |
| M | Modified |
| MCL | Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA. |
| MDL | Method Detection Limit |
| MPN | Most Probable Number |
| MRL | Method Reporting Limit |
| NA | Not Applicable |
| NC | Not Calculated |
| NCASI | National Council of the Paper Industry for Air and Stream Improvement |
| ND | Not Detected |
| NIOSH | National Institute for Occupational Safety and Health |
| PQL | Practical Quantitation Limit |
| RCRA | Resource Conservation and Recovery Act |
| SIM | Selected Ion Monitoring |
| TPH | Total Petroleum Hydrocarbons |
| tr | Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL. |

Client: Brown and Caldwell
Project: Owens Corning/136868

Service Request: J0905825

SAMPLE CROSS-REFERENCE

| <u>SAMPLE #</u> | <u>CLIENT SAMPLE ID</u> | <u>DATE</u> | <u>TIME</u> |
|-----------------|-------------------------|-------------|-------------|
| J0905825-001 | MW-22 | 11/19/09 | 16:35 |
| J0905825-002 | MW-19 | 11/19/09 | 15:35 |
| J0905825-003 | MW-13 | 11/19/09 | 14:45 |
| J0905825-004 | MW-12 | 11/19/09 | 12:55 |
| J0905825-005 | MW-11 | 11/19/09 | 11:25 |
| J0905825-006 | MW-9 | 11/19/09 | 10:25 |
| J0905825-007 | MW-6 | 11/19/09 | 09:00 |
| J0905825-008 | MW-26 | 11/18/09 | 18:35 |
| J0905825-009 | MW-25 | 11/18/09 | 15:45 |
| J0905825-010 | MW-21 | 11/18/09 | 14:00 |
| J0905825-011 | MW-16 | 11/18/09 | 13:15 |
| J0905825-012 | TW-46 | 11/18/09 | 11:25 |
| J0905825-013 | Alloy | 11/18/09 | 09:35 |
| J0905825-014 | MW-5 | 11/17/09 | 17:00 |
| J0905825-015 | MW-14 | 11/17/09 | 16:05 |
| J0905825-016 | MW-10 | 11/17/09 | 15:10 |
| J0905825-017 | MW-1 | 11/17/09 | 14:05 |
| J0905825-018 | MW-2 | 11/17/09 | 11:35 |
| J0905825-019 | MW-18 | 11/17/09 | 10:35 |
| J0905825-020 | MW-4 | 11/17/09 | 09:20 |
| J0905825-021 | TW-43 | 11/19/09 | 10:00 |
| J0905825-022 | TW-42 | 11/18/09 | 09:45 |
| J0905825-023 | MW-37 Zone 3 | 11/17/09 | 10:45 |
| J0905825-024 | MW-37 Zone 2 | 11/17/09 | 12:45 |
| J0905825-025 | MW-37 Zone 1 | 11/17/09 | 16:00 |
| J0905825-026 | MW-36 Zone 5 | 11/16/09 | 16:15 |
| J0905825-027 | MW-36 Zone 3 | 11/17/09 | 08:00 |
| J0905825-028 | MW-36 Zone 1 | 11/16/09 | 14:30 |
| J0905825-029 | MW-35 | 11/17/09 | 17:25 |
| J0905825-030 | MW-29R Zone 3 | 11/16/09 | 11:30 |
| J0905825-031 | MW-29R Zone 4 | 11/16/09 | 12:15 |
| J0905825-032 | SW-1 | 11/18/09 | 11:05 |
| J0905825-033 | SW-3A | 11/18/09 | 16:00 |
| J0905825-034 | SW-3B | 11/18/09 | 15:50 |
| J0905825-035 | SW-6 | 11/18/09 | 10:37 |
| J0905825-036 | SW-10 | 11/18/09 | 10:20 |
| J0905825-037 | SW-11 | 11/18/09 | 12:20 |
| J0905825-038 | SW-12 | 11/18/09 | 12:35 |
| J0905825-039 | SW-13 | 11/18/09 | 11:50 |
| J0905825-040 | SW-14 | 11/18/09 | 12:05 |
| J0905825-041 | SW-15 | 11/18/09 | 10:57 |
| J0905825-042 | MW-30 | 11/20/09 | 09:35 |
| J0905825-043 | EB-11-20-09 | 11/20/09 | 10:00 |
| J0905825-044 | MW-31 | 11/20/09 | 12:10 |
| J0905825-045 | MW-7 | 11/20/09 | 10:35 |
| J0905825-046 | MW-28 | 11/20/09 | 12:15 |

Client: Brown and Caldwell
Project: Owens Corning/136868

Service Request: J0905825

SAMPLE CROSS-REFERENCE

| <u>SAMPLE #</u> | <u>CLIENT SAMPLE ID</u> | <u>DATE</u> | <u>TIME</u> |
|-----------------|-------------------------|-------------|-------------|
| J0905825-047 | MW-32 | 11/19/09 | 14:00 |
| J0905825-048 | MW-15 | 11/20/09 | 09:00 |
| J0905825-049 | MW-17 | 11/19/09 | 11:25 |
| J0905825-050 | MW-20 | 11/19/09 | 17:55 |
| J0905825-051 | MW-24 | 11/19/09 | 15:50 |
| J0905825-052 | MW-27 | 11/19/09 | 17:10 |
| J0905825-053 | SW-3 | 11/18/09 | 15:35 |
| J0905825-054 | EB111709 | 11/17/09 | 11:00 |
| J0905825-055 | EB111909 | 11/19/09 | 11:50 |
| J0905825-056 | DUP111609 | 11/16/09 | 08:00 |
| J0905825-057 | DUP111909 | 11/19/09 | 12:00 |
| J0905825-058 | TW-41 | 11/16/09 | 15:20 |
| J0905825-059 | MW-3 | 11/17/09 | 08:25 |
| J0905825-060 | TW-44 | 11/16/09 | 19:00 |
| J0905825-061 | TW-40 | 11/16/09 | 16:25 |
| J0905825-062 | EB-11-16-09 | 11/16/09 | 15:30 |
| J0905825-063 | DUP-11-18-09 | 11/18/09 | 12:00 |
| J0905825-064 | Trip Blank 1 | 11/18/09 | 00:00 |
| J0905825-065 | Trip Blank 2 | 11/18/09 | 00:00 |
| J0905825-066 | EB-11-18-09 | 11/18/09 | 11:40 |

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/19/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-22
Lab Code: J0905825-001
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---------------------------------|------------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| 1,1-Dichloroethane | 2.7 | | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| 1,1-Dichloroethene | 540 | D | 10 | 1.6 | 10 | 11/30/09 | 11/30/09 | JWG0904039 | |
| 1,2-Dichloroethane (EDC) | 5.6 | | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Carbon Tetrachloride | 24 | | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Chloroform | 14 | | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Tetrachloroethene (PCE) | 1.3 | | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Trichloroethene (TCE) | 1.1 | | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 105 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 119 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 101 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 95 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/19/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-19
Lab Code: J0905825-002
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---------------------------------|-------------|----------|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| 1,1-Dichloroethane | 3.1 | | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| 1,1-Dichloroethene | 300 | D | 10 | 1.6 | 10 | 11/30/09 | 11/30/09 | JWG0904039 | |
| 1,2-Dichloroethane (EDC) | 7.5 | | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Carbon Tetrachloride | 0.34 | J | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Chloroform | 7.2 | | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Tetrachloroethene (PCE) | 3.3 | | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Trichloroethene (TCE) | 2.1 | | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------------------|
| 1,2-Dichloroethane-d4 | 109 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 122 | 75-120 | 11/25/09 | Outside Control Limits |
| Dibromofluoromethane | 95 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 90 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/19/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-13
Lab Code: J0905825-003
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---------------------------------|------------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| 1,1-Dichloroethane | 2.5 | | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| 1,1-Dichloroethene | 490 | D | 10 | 1.6 | 10 | 11/30/09 | 11/30/09 | JWG0904039 | |
| 1,2-Dichloroethane (EDC) | 5.6 | | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Carbon Tetrachloride | 25 | | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Chloroform | 16 | | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Tetrachloroethene (PCE) | 1.6 | | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Trichloroethene (TCE) | 1.4 | | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 104 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 117 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 99 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 92 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/19/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-12
Lab Code: J0905825-004
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---------------------------------|-------------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| 1,1-Dichloroethane | 1.8 | | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| 1,1-Dichloroethene | 300 | D | 10 | 1.6 | 10 | 11/30/09 | 11/30/09 | JWG0904039 | |
| 1,2-Dichloroethane (EDC) | 3.5 | | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Carbon Tetrachloride | 13 | | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Chloroform | 19 | | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Tetrachloroethene (PCE) | 1.2 | | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Trichloroethene (TCE) | 0.36 | J | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 103 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 118 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 101 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 96 | 88-117 | 11/25/09 | Acceptable |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/19/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-11
Lab Code: J0905825-005
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---------------------------------|-------------|----------|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| 1,1-Dichloroethane | 3.1 | | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| 1,1-Dichloroethene | 190 | D | 10 | 1.6 | 10 | 11/30/09 | 11/30/09 | JWG0904039 | |
| 1,2-Dichloroethane (EDC) | 1.4 | | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Benzene | 0.58 | J | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Vinyl Chloride | 12 | | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 105 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 114 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 104 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 92 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/19/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-9
Lab Code: J0905825-006
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------------------|
| 1,2-Dichloroethane-d4 | 108 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 123 | 75-120 | 11/25/09 | Outside Control Limits |
| Dibromofluoromethane | 98 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 93 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/19/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-6
Lab Code: J0905825-007
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 106 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 118 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 99 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 93 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/18/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-26
Lab Code: J0905825-008
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 106 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 117 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 100 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 91 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/18/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-25
Lab Code: J0905825-009
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 103 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 120 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 102 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 94 | 88-117 | 11/25/09 | Acceptable |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/18/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-21
Lab Code: J0905825-010
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0903993 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 105 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 117 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 101 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 90 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/18/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-16
Lab Code: J0905825-011
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 104 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 107 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 106 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 102 | 88-117 | 11/25/09 | Acceptable |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/18/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: TW-46
Lab Code: J0905825-012
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---------------------------------|-------------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethane | 2.7 | | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethene | 45 | | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,2-Dichloroethane (EDC) | 1.8 | | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Carbon Tetrachloride | 8.4 | | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Chloroform | 8.3 | | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Trichloroethene (TCE) | 0.47 | J | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 105 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 109 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 103 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 101 | 88-117 | 11/25/09 | Acceptable |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/18/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: Alloy
Lab Code: J0905825-013
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|------------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethene | 2.2 | | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 101 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 106 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 98 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 100 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/17/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-5
Lab Code: J0905825-014
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 108 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 111 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 105 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 102 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/17/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-14
Lab Code: J0905825-015
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 102 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 110 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 101 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 101 | 88-117 | 11/25/09 | Acceptable |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/17/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-10
Lab Code: J0905825-016
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 105 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 108 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 104 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 99 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/17/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-1
Lab Code: J0905825-017
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 107 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 112 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 99 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 100 | 88-117 | 11/25/09 | Acceptable |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/17/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-2
Lab Code: J0905825-018
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 101 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 110 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 100 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 101 | 88-117 | 11/25/09 | Acceptable |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/17/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-18
Lab Code: J0905825-019
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 106 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 113 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 105 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 101 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/17/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-4
Lab Code: J0905825-020
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 107 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 111 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 102 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 103 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/19/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: TW-43
Lab Code: J0905825-021
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 101 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 108 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 99 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 98 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/18/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: TW-42
Lab Code: J0905825-022
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 106 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 111 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 101 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 104 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/17/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-37 Zone 3
Lab Code: J0905825-023
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|-------------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethene | 4.8 | | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Benzene | 0.90 | J | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Total Xylenes | 0.40 | J | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Toluene | 1.9 | | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 99 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 107 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 98 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 98 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/17/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-37 Zone 2
Lab Code: J0905825-024
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethane | 1.6 | | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethene | 180 | | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,2-Dichloroethane (EDC) | 2.7 | | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Chloroform | 11 | | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Toluene | 1.2 | | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 106 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 109 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 101 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 106 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/17/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-37 Zone 1
Lab Code: J0905825-025
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---------------------------------|-------------|----------|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethane | 0.57 | J | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethene | 20 | | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,2-Dichloroethane (EDC) | 0.85 | J | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Toluene | 0.73 | J | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 109 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 103 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 104 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 99 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/16/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-36 Zone 5
Lab Code: J0905825-026
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|------------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethene | 2.4 | | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 109 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 112 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 106 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 108 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/17/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-36 Zone 3
Lab Code: J0905825-027
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 107 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 115 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 103 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 106 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/16/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-36 Zone 1
Lab Code: J0905825-028
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 108 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 115 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 102 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 98 | 88-117 | 11/25/09 | Acceptable |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
 Project: Owens Corning/136868
 Sample Matrix: Water

Service Request: J0905825
 Date Collected: 11/17/2009
 Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-35
 Lab Code: J0905825-029
 Extraction Method: EPA 5030B
 Analysis Method: 8260B

Units: ug/L
 Basis: NA
 Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethane | 1.9 | | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethene | 340 | D | 10 | 1.6 | 10 | 11/30/09 | 11/30/09 | JWG0904039 | |
| 1,2-Dichloroethane (EDC) | 2.9 | | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Tetrachloroethene (PCE) | 0.88 | J | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Trichloroethene (TCE) | 0.70 | J | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 103 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 106 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 99 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 103 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/16/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-29R Zone 3
Lab Code: J0905825-030
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---------------------------------|-------------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethane | 2.3 | | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethene | 230 | D | 10 | 1.6 | 10 | 11/30/09 | 11/30/09 | JWG0904039 | |
| 1,2-Dichloroethane (EDC) | 3.8 | | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Carbon Tetrachloride | 9.8 | | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Chloroform | 12 | | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Trichloroethene (TCE) | 0.49 | J | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 104 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 109 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 97 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 101 | 88-117 | 11/25/09 | Acceptable |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/16/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-29R Zone 4
Lab Code: J0905825-031
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---------------------------------|------------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| 1,1-Dichloroethane | 2.3 | | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| 1,1-Dichloroethene | 320 | D | 10 | 1.6 | 10 | 11/30/09 | 11/30/09 | JWG0904039 | |
| 1,2-Dichloroethane (EDC) | 3.8 | | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Carbon Tetrachloride | 4.6 | | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Chloroform | 13 | | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 106 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 117 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 104 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 106 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/18/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: SW-1
Lab Code: J0905825-032
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|-------------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| 1,1-Dichloroethene | 7.8 | | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Carbon Tetrachloride | 0.34 | J | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Chloroform | 0.58 | J | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 104 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 111 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 104 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 105 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/18/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: SW-3A
Lab Code: J0905825-033
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---------------------------------|-------------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| 1,1-Dichloroethane | 1.6 | | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| 1,1-Dichloroethene | 290 | D | 10 | 1.6 | 10 | 11/30/09 | 11/30/09 | JWG0904039 | |
| 1,2-Dichloroethane (EDC) | 1.9 | | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Carbon Tetrachloride | 7.4 | | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Chloroform | 7.1 | | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Tetrachloroethene (PCE) | 0.65 | J | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Trichloroethene (TCE) | 0.72 | J | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Vinyl Chloride | 4.8 | | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 103 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 112 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 103 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 104 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/18/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: SW-3B
Lab Code: J0905825-034
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|-------------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| 1,1-Dichloroethene | 1.1 | | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Chloroform | 0.54 | J | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 105 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 113 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 106 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 98 | 88-117 | 11/25/09 | Acceptable |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/18/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: SW-6
Lab Code: J0905825-035
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|-------------|----------|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| 1,1-Dichloroethene | 5.3 | | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Chloroform | 0.35 | J | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 106 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 106 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 105 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 98 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
 Project: Owens Corning/136868
 Sample Matrix: Water

Service Request: J0905825
 Date Collected: 11/18/2009
 Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: SW-10
 Lab Code: J0905825-036
 Extraction Method: EPA 5030B
 Analysis Method: 8260B

Units: ug/L
 Basis: NA
 Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|-------------|----------|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| 1,1-Dichloroethene | 2.9 | | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Chloroform | 0.20 | J | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 108 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 112 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 106 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 103 | 88-117 | 11/25/09 | Acceptable |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/18/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: SW-11
Lab Code: J0905825-037
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|-------------|----------|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| 1,1-Dichloroethene | 7.7 | | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Carbon Tetrachloride | 0.28 | J | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Chloroform | 3.2 | | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 104 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 106 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 99 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 99 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/18/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: SW-12
Lab Code: J0905825-038
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|------------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,1-Dichloroethene | 7.5 | | 1.0 | 0.16 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Chloroform | 2.6 | | 1.0 | 0.10 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 98 | 71-122 | 11/26/09 | Acceptable |
| 4-Bromofluorobenzene | 109 | 75-120 | 11/26/09 | Acceptable |
| Dibromofluoromethane | 103 | 82-116 | 11/26/09 | Acceptable |
| Toluene-d8 | 99 | 88-117 | 11/26/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/18/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: SW-13
Lab Code: J0905825-039
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 103 | 71-122 | 11/26/09 | Acceptable |
| 4-Bromofluorobenzene | 102 | 75-120 | 11/26/09 | Acceptable |
| Dibromofluoromethane | 100 | 82-116 | 11/26/09 | Acceptable |
| Toluene-d8 | 96 | 88-117 | 11/26/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/18/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: SW-14
Lab Code: J0905825-040
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|------------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,1-Dichloroethene | 5.1 | | 1.0 | 0.16 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Chloroform | 3.3 | | 1.0 | 0.10 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 101 | 71-122 | 11/26/09 | Acceptable |
| 4-Bromofluorobenzene | 108 | 75-120 | 11/26/09 | Acceptable |
| Dibromofluoromethane | 99 | 82-116 | 11/26/09 | Acceptable |
| Toluene-d8 | 102 | 88-117 | 11/26/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/18/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: SW-15
Lab Code: J0905825-041
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|-------------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,1-Dichloroethene | 6.8 | | 1.0 | 0.16 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Chloroform | 0.53 | J | 1.0 | 0.10 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 98 | 71-122 | 11/26/09 | Acceptable |
| 4-Bromofluorobenzene | 113 | 75-120 | 11/26/09 | Acceptable |
| Dibromofluoromethane | 101 | 82-116 | 11/26/09 | Acceptable |
| Toluene-d8 | 99 | 88-117 | 11/26/09 | Acceptable |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/20/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-30
Lab Code: J0905825-042
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | 1.6 | | 1.0 | 0.21 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| 1,1-Dichloroethane | 16 | | 1.0 | 0.56 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| 1,1-Dichloroethene | 4200 | D | 100 | 16 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,2-Dichloroethane (EDC) | 22 | | 1.0 | 0.15 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Carbon Tetrachloride | 180 | | 1.0 | 0.18 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Chloroform | 6.2 | | 1.0 | 0.10 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Tetrachloroethene (PCE) | 2.6 | | 1.0 | 0.22 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Trichloroethene (TCE) | 5.1 | | 1.0 | 0.15 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 109 | 71-122 | 11/30/09 | Acceptable |
| 4-Bromofluorobenzene | 102 | 75-120 | 11/30/09 | Acceptable |
| Dibromofluoromethane | 106 | 82-116 | 11/30/09 | Acceptable |
| Toluene-d8 | 99 | 88-117 | 11/30/09 | Acceptable |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/20/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: EB-11-20-09
Lab Code: J0905825-043
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 107 | 71-122 | 11/26/09 | Acceptable |
| 4-Bromofluorobenzene | 111 | 75-120 | 11/26/09 | Acceptable |
| Dibromofluoromethane | 104 | 82-116 | 11/26/09 | Acceptable |
| Toluene-d8 | 101 | 88-117 | 11/26/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/20/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-31
Lab Code: J0905825-044
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---------------------------------|-------------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| 1,1-Dichloroethane | 17 | | 1.0 | 0.56 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| 1,1-Dichloroethene | 4900 | D | 100 | 16 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,2-Dichloroethane (EDC) | 21 | | 1.0 | 0.15 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Carbon Tetrachloride | 52 | | 1.0 | 0.18 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Chloroform | 5.6 | | 1.0 | 0.10 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Tetrachloroethene (PCE) | 5.3 | | 1.0 | 0.22 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Trichloroethene (TCE) | 5.4 | | 1.0 | 0.15 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 110 | 71-122 | 11/30/09 | Acceptable |
| 4-Bromofluorobenzene | 108 | 75-120 | 11/30/09 | Acceptable |
| Dibromofluoromethane | 108 | 82-116 | 11/30/09 | Acceptable |
| Toluene-d8 | 100 | 88-117 | 11/30/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/20/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-7
Lab Code: J0905825-045
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|----|------|-----|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | 30000 | D | 1000 | 210 | 1000 | 11/30/09 | 11/30/09 | JWG0904039 | |
| 1,1-Dichloroethane | 96 | JD | 100 | 56 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,1-Dichloroethene | 60000 | D | 1000 | 160 | 1000 | 11/30/09 | 11/30/09 | JWG0904039 | |
| 1,2-Dichloroethane (EDC) | ND | U | 100 | 15 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Benzene | ND | U | 100 | 52 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Carbon Tetrachloride | ND | U | 100 | 18 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Chloroform | ND | U | 100 | 10 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| cis-1,2-Dichloroethene | ND | U | 100 | 12 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Ethylbenzene | ND | U | 100 | 10 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Total Xylenes | ND | U | 300 | 32 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Methylene Chloride | ND | U | 500 | 72 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Tetrachloroethene (PCE) | 35 | JD | 100 | 22 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Toluene | 130 | D | 100 | 52 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| trans-1,2-Dichloroethene | ND | U | 100 | 13 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Trichloroethene (TCE) | ND | U | 100 | 15 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Vinyl Chloride | ND | U | 100 | 25 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 104 | 71-122 | 11/26/09 | Acceptable |
| 4-Bromofluorobenzene | 111 | 75-120 | 11/26/09 | Acceptable |
| Dibromofluoromethane | 105 | 82-116 | 11/26/09 | Acceptable |
| Toluene-d8 | 99 | 88-117 | 11/26/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/20/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-28
Lab Code: J0905825-046
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|----|------|-----|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | 93000 | D | 1000 | 210 | 1000 | 11/30/09 | 11/30/09 | JWG0904039 | |
| 1,1-Dichloroethane | 410 | D | 100 | 56 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,1-Dichloroethene | 110000 | D | 1000 | 160 | 1000 | 11/30/09 | 11/30/09 | JWG0904039 | |
| 1,2-Dichloroethane (EDC) | 100 | D | 100 | 15 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Benzene | ND | U | 100 | 52 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Carbon Tetrachloride | ND | U | 100 | 18 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Chloroform | 46 | JD | 100 | 10 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| cis-1,2-Dichloroethene | ND | U | 100 | 12 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Ethylbenzene | ND | U | 100 | 10 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Total Xylenes | 46 | JD | 300 | 32 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Methylene Chloride | ND | U | 500 | 72 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Tetrachloroethene (PCE) | 40 | JD | 100 | 22 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Toluene | 85 | JD | 100 | 52 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| trans-1,2-Dichloroethene | ND | U | 100 | 13 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Trichloroethene (TCE) | 88 | JD | 100 | 15 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Vinyl Chloride | ND | U | 100 | 25 | 100 | 11/26/09 | 11/26/09 | JWG0904005 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 104 | 71-122 | 11/26/09 | Acceptable |
| 4-Bromofluorobenzene | 108 | 75-120 | 11/26/09 | Acceptable |
| Dibromofluoromethane | 112 | 82-116 | 11/26/09 | Acceptable |
| Toluene-d8 | 101 | 88-117 | 11/26/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/19/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-32
Lab Code: J0905825-047
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | 14 | | 1.0 | 0.21 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,1-Dichloroethane | 10 | | 1.0 | 0.56 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,1-Dichloroethene | 29 | | 1.0 | 0.16 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 104 | 71-122 | 11/26/09 | Acceptable |
| 4-Bromofluorobenzene | 111 | 75-120 | 11/26/09 | Acceptable |
| Dibromofluoromethane | 100 | 82-116 | 11/26/09 | Acceptable |
| Toluene-d8 | 106 | 88-117 | 11/26/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/20/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-15
Lab Code: J0905825-048
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---------------------------------|-------------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,1-Dichloroethane | 1.9 | | 1.0 | 0.56 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,1-Dichloroethene | 320 | D | 10 | 1.6 | 10 | 11/30/09 | 11/30/09 | JWG0904039 | |
| 1,2-Dichloroethane (EDC) | 2.9 | | 1.0 | 0.15 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Tetrachloroethene (PCE) | 0.62 | J | 1.0 | 0.22 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Trichloroethene (TCE) | 0.74 | J | 1.0 | 0.15 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 108 | 71-122 | 11/26/09 | Acceptable |
| 4-Bromofluorobenzene | 110 | 75-120 | 11/26/09 | Acceptable |
| Dibromofluoromethane | 108 | 82-116 | 11/26/09 | Acceptable |
| Toluene-d8 | 97 | 88-117 | 11/26/09 | Acceptable |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/19/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-17
Lab Code: J0905825-049
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|-------------|----------|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,1-Dichloroethene | 0.46 | J | 1.0 | 0.16 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 108 | 71-122 | 11/26/09 | Acceptable |
| 4-Bromofluorobenzene | 116 | 75-120 | 11/26/09 | Acceptable |
| Dibromofluoromethane | 104 | 82-116 | 11/26/09 | Acceptable |
| Toluene-d8 | 102 | 88-117 | 11/26/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/19/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-20
Lab Code: J0905825-050
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---------------------------------|-------------|----------|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,1-Dichloroethene | 19 | | 1.0 | 0.16 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| 1,2-Dichloroethane (EDC) | 0.66 | J | 1.0 | 0.15 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Carbon Tetrachloride | 3.4 | | 1.0 | 0.18 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Chloroform | 44 | | 1.0 | 0.10 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/26/09 | 11/26/09 | JWG0904005 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 105 | 71-122 | 11/26/09 | Acceptable |
| 4-Bromofluorobenzene | 106 | 75-120 | 11/26/09 | Acceptable |
| Dibromofluoromethane | 102 | 82-116 | 11/26/09 | Acceptable |
| Toluene-d8 | 103 | 88-117 | 11/26/09 | Acceptable |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/19/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-24
Lab Code: J0905825-051
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---------------------------------|-------------|----------|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,1-Dichloroethane | 0.66 | J | 1.0 | 0.56 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,1-Dichloroethene | 85 | | 1.0 | 0.16 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,2-Dichloroethane (EDC) | 1.7 | | 1.0 | 0.15 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Chloroform | 19 | | 1.0 | 0.10 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 118 | 71-122 | 11/27/09 | Acceptable |
| 4-Bromofluorobenzene | 112 | 75-120 | 11/27/09 | Acceptable |
| Dibromofluoromethane | 104 | 82-116 | 11/27/09 | Acceptable |
| Toluene-d8 | 109 | 88-117 | 11/27/09 | Acceptable |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/19/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-27
Lab Code: J0905825-052
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---------------------------------|-------------|----------|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,1-Dichloroethane | 1.0 | | 1.0 | 0.56 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,1-Dichloroethene | 120 | | 1.0 | 0.16 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,2-Dichloroethane (EDC) | 1.9 | | 1.0 | 0.15 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Carbon Tetrachloride | 3.8 | | 1.0 | 0.18 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Chloroform | 12 | | 1.0 | 0.10 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Tetrachloroethene (PCE) | 0.92 | J | 1.0 | 0.22 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Trichloroethene (TCE) | 1.2 | | 1.0 | 0.15 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 109 | 71-122 | 11/27/09 | Acceptable |
| 4-Bromofluorobenzene | 102 | 75-120 | 11/27/09 | Acceptable |
| Dibromofluoromethane | 105 | 82-116 | 11/27/09 | Acceptable |
| Toluene-d8 | 105 | 88-117 | 11/27/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/18/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: SW-3
Lab Code: J0905825-053
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|-------------|----------|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,1-Dichloroethene | 1.1 | | 1.0 | 0.16 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Chloroform | 0.52 | J | 1.0 | 0.10 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 110 | 71-122 | 11/27/09 | Acceptable |
| 4-Bromofluorobenzene | 111 | 75-120 | 11/27/09 | Acceptable |
| Dibromofluoromethane | 111 | 82-116 | 11/27/09 | Acceptable |
| Toluene-d8 | 110 | 88-117 | 11/27/09 | Acceptable |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/17/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: EB111709
Lab Code: J0905825-054
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 117 | 71-122 | 11/27/09 | Acceptable |
| 4-Bromofluorobenzene | 111 | 75-120 | 11/27/09 | Acceptable |
| Dibromofluoromethane | 107 | 82-116 | 11/27/09 | Acceptable |
| Toluene-d8 | 107 | 88-117 | 11/27/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/19/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: EB111909
Lab Code: J0905825-055
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 110 | 71-122 | 11/27/09 | Acceptable |
| 4-Bromofluorobenzene | 112 | 75-120 | 11/27/09 | Acceptable |
| Dibromofluoromethane | 109 | 82-116 | 11/27/09 | Acceptable |
| Toluene-d8 | 107 | 88-117 | 11/27/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/16/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: DUP111609
Lab Code: J0905825-056
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---------------------------------|-------------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,1-Dichloroethane | 2.4 | | 1.0 | 0.56 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,1-Dichloroethene | 410 | D | 10 | 1.6 | 10 | 11/30/09 | 11/30/09 | JWG0904039 | |
| 1,2-Dichloroethane (EDC) | 3.7 | | 1.0 | 0.15 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Carbon Tetrachloride | 10 | | 1.0 | 0.18 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Chloroform | 12 | | 1.0 | 0.10 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Trichloroethene (TCE) | 0.55 | J | 1.0 | 0.15 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 114 | 71-122 | 11/27/09 | Acceptable |
| 4-Bromofluorobenzene | 102 | 75-120 | 11/27/09 | Acceptable |
| Dibromofluoromethane | 104 | 82-116 | 11/27/09 | Acceptable |
| Toluene-d8 | 102 | 88-117 | 11/27/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/19/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: DUP111909
Lab Code: J0905825-057
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|---------------------------------|------------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,1-Dichloroethene | 85 | | 1.0 | 0.16 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,2-Dichloroethane (EDC) | 1.7 | | 1.0 | 0.15 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Chloroform | 18 | | 1.0 | 0.10 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 115 | 71-122 | 11/27/09 | Acceptable |
| 4-Bromofluorobenzene | 116 | 75-120 | 11/27/09 | Acceptable |
| Dibromofluoromethane | 112 | 82-116 | 11/27/09 | Acceptable |
| Toluene-d8 | 111 | 88-117 | 11/27/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/16/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: TW-41
Lab Code: J0905825-058
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 117 | 71-122 | 11/27/09 | Acceptable |
| 4-Bromofluorobenzene | 98 | 75-120 | 11/27/09 | Acceptable |
| Dibromofluoromethane | 110 | 82-116 | 11/27/09 | Acceptable |
| Toluene-d8 | 102 | 88-117 | 11/27/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/17/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: MW-3
Lab Code: J0905825-059
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 110 | 71-122 | 11/27/09 | Acceptable |
| 4-Bromofluorobenzene | 105 | 75-120 | 11/27/09 | Acceptable |
| Dibromofluoromethane | 109 | 82-116 | 11/27/09 | Acceptable |
| Toluene-d8 | 102 | 88-117 | 11/27/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/16/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: TW-44
Lab Code: J0905825-060
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 112 | 71-122 | 11/28/09 | Acceptable |
| 4-Bromofluorobenzene | 109 | 75-120 | 11/28/09 | Acceptable |
| Dibromofluoromethane | 106 | 82-116 | 11/28/09 | Acceptable |
| Toluene-d8 | 103 | 88-117 | 11/28/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/16/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: TW-40
Lab Code: J0905825-061
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|-------------|----------|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| 1,1-Dichloroethene | 0.58 | J | 1.0 | 0.16 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 112 | 71-122 | 11/28/09 | Acceptable |
| 4-Bromofluorobenzene | 107 | 75-120 | 11/28/09 | Acceptable |
| Dibromofluoromethane | 106 | 82-116 | 11/28/09 | Acceptable |
| Toluene-d8 | 105 | 88-117 | 11/28/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/16/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: EB-11-16-09
Lab Code: J0905825-062
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 107 | 71-122 | 11/28/09 | Acceptable |
| 4-Bromofluorobenzene | 105 | 75-120 | 11/28/09 | Acceptable |
| Dibromofluoromethane | 107 | 82-116 | 11/28/09 | Acceptable |
| Toluene-d8 | 100 | 88-117 | 11/28/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/18/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: DUP-11-18-09
Lab Code: J0905825-063
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|-------------|----------|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| 1,1-Dichloroethene | 2.2 | | 1.0 | 0.16 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Chloroform | 0.24 | J | 1.0 | 0.10 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 108 | 71-122 | 11/28/09 | Acceptable |
| 4-Bromofluorobenzene | 103 | 75-120 | 11/28/09 | Acceptable |
| Dibromofluoromethane | 111 | 82-116 | 11/28/09 | Acceptable |
| Toluene-d8 | 106 | 88-117 | 11/28/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/18/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank 1
Lab Code: J0905825-064
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 111 | 71-122 | 11/28/09 | Acceptable |
| 4-Bromofluorobenzene | 108 | 75-120 | 11/28/09 | Acceptable |
| Dibromofluoromethane | 109 | 82-116 | 11/28/09 | Acceptable |
| Toluene-d8 | 106 | 88-117 | 11/28/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/18/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: Trip Blank 2
Lab Code: J0905825-065
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 109 | 71-122 | 11/28/09 | Acceptable |
| 4-Bromofluorobenzene | 105 | 75-120 | 11/28/09 | Acceptable |
| Dibromofluoromethane | 105 | 82-116 | 11/28/09 | Acceptable |
| Toluene-d8 | 103 | 88-117 | 11/28/09 | Acceptable |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: 11/18/2009
Date Received: 11/21/2009

Volatile Organic Compounds by GC/MS

Sample Name: EB-11-18-09
Lab Code: J0905825-066
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/28/09 | 11/28/09 | JWG0904010 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 108 | 71-122 | 11/28/09 | Acceptable |
| 4-Bromofluorobenzene | 104 | 75-120 | 11/28/09 | Acceptable |
| Dibromofluoromethane | 103 | 82-116 | 11/28/09 | Acceptable |
| Toluene-d8 | 106 | 88-117 | 11/28/09 | Acceptable |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0903993-4
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/24/09 | 11/24/09 | JWG0903993 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/24/09 | 11/24/09 | JWG0903993 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/24/09 | 11/24/09 | JWG0903993 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/24/09 | 11/24/09 | JWG0903993 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/24/09 | 11/24/09 | JWG0903993 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/24/09 | 11/24/09 | JWG0903993 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/24/09 | 11/24/09 | JWG0903993 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/24/09 | 11/24/09 | JWG0903993 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/24/09 | 11/24/09 | JWG0903993 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/24/09 | 11/24/09 | JWG0903993 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/24/09 | 11/24/09 | JWG0903993 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/24/09 | 11/24/09 | JWG0903993 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/24/09 | 11/24/09 | JWG0903993 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/24/09 | 11/24/09 | JWG0903993 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/24/09 | 11/24/09 | JWG0903993 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/24/09 | 11/24/09 | JWG0903993 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------------------|
| 1,2-Dichloroethane-d4 | 95 | 71-122 | 11/24/09 | Acceptable |
| 4-Bromofluorobenzene | 122 | 75-120 | 11/24/09 | Outside Control Limits |
| Dibromofluoromethane | 97 | 82-116 | 11/24/09 | Acceptable |
| Toluene-d8 | 94 | 88-117 | 11/24/09 | Acceptable |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0904002-4
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904002 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 108 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 112 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 106 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 99 | 88-117 | 11/25/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0904005-4
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/25/09 | 11/25/09 | JWG0904005 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 102 | 71-122 | 11/25/09 | Acceptable |
| 4-Bromofluorobenzene | 112 | 75-120 | 11/25/09 | Acceptable |
| Dibromofluoromethane | 101 | 82-116 | 11/25/09 | Acceptable |
| Toluene-d8 | 108 | 88-117 | 11/25/09 | Acceptable |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0904010-4
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/27/09 | 11/27/09 | JWG0904010 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 107 | 71-122 | 11/27/09 | Acceptable |
| 4-Bromofluorobenzene | 104 | 75-120 | 11/27/09 | Acceptable |
| Dibromofluoromethane | 106 | 82-116 | 11/27/09 | Acceptable |
| Toluene-d8 | 107 | 88-117 | 11/27/09 | Acceptable |

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: JWG0904039-3
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

| Analyte Name | Result | Q | MRL | MDL | Dilution Factor | Date Extracted | Date Analyzed | Extraction Lot | Note |
|-----------------------------|--------|---|-----|------|-----------------|----------------|---------------|----------------|------|
| 1,1,1-Trichloroethane (TCA) | ND | U | 1.0 | 0.21 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| 1,1-Dichloroethane | ND | U | 1.0 | 0.56 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| 1,1-Dichloroethene | ND | U | 1.0 | 0.16 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| 1,2-Dichloroethane (EDC) | ND | U | 1.0 | 0.15 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Benzene | ND | U | 1.0 | 0.52 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Carbon Tetrachloride | ND | U | 1.0 | 0.18 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Chloroform | ND | U | 1.0 | 0.10 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| cis-1,2-Dichloroethene | ND | U | 1.0 | 0.12 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Ethylbenzene | ND | U | 1.0 | 0.10 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Total Xylenes | ND | U | 3.0 | 0.32 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Methylene Chloride | ND | U | 5.0 | 0.72 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Tetrachloroethene (PCE) | ND | U | 1.0 | 0.22 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Toluene | ND | U | 1.0 | 0.52 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| trans-1,2-Dichloroethene | ND | U | 1.0 | 0.13 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Trichloroethene (TCE) | ND | U | 1.0 | 0.15 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |
| Vinyl Chloride | ND | U | 1.0 | 0.25 | 1 | 11/30/09 | 11/30/09 | JWG0904039 | |

| Surrogate Name | %Rec | Control Limits | Date Analyzed | Note |
|-----------------------|------|----------------|---------------|------------|
| 1,2-Dichloroethane-d4 | 104 | 71-122 | 11/30/09 | Acceptable |
| 4-Bromofluorobenzene | 104 | 75-120 | 11/30/09 | Acceptable |
| Dibromofluoromethane | 108 | 82-116 | 11/30/09 | Acceptable |
| Toluene-d8 | 105 | 88-117 | 11/30/09 | Acceptable |

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825

**Surrogate Recovery Summary
 Volatile Organic Compounds by GC/MS**

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

| <u>Sample Name</u> | <u>Lab Code</u> | <u>Sur1</u> | <u>Sur2</u> | <u>Sur3</u> | <u>Sur4</u> |
|--------------------|-----------------|-------------|-------------|-------------|-------------|
| MW-22 | J0905825-001 | 105 | 119 | 101 | 95 |
| MW-19 | J0905825-002 | 109 | 122 * | 95 | 90 |
| MW-13 | J0905825-003 | 104 | 117 | 99 | 92 |
| MW-12 | J0905825-004 | 103 | 118 | 101 | 96 |
| MW-11 | J0905825-005 | 105 | 114 | 104 | 92 |
| MW-9 | J0905825-006 | 108 | 123 * | 98 | 93 |
| MW-6 | J0905825-007 | 106 | 118 | 99 | 93 |
| MW-26 | J0905825-008 | 106 | 117 | 100 | 91 |
| MW-25 | J0905825-009 | 103 | 120 | 102 | 94 |
| MW-21 | J0905825-010 | 105 | 117 | 101 | 90 |
| MW-16 | J0905825-011 | 104 | 107 | 106 | 102 |
| TW-46 | J0905825-012 | 105 | 109 | 103 | 101 |
| Alloy | J0905825-013 | 101 | 106 | 98 | 100 |
| MW-5 | J0905825-014 | 108 | 111 | 105 | 102 |
| MW-14 | J0905825-015 | 102 | 110 | 101 | 101 |
| MW-10 | J0905825-016 | 105 | 108 | 104 | 99 |
| MW-1 | J0905825-017 | 107 | 112 | 99 | 100 |
| MW-2 | J0905825-018 | 101 | 110 | 100 | 101 |
| MW-18 | J0905825-019 | 106 | 113 | 105 | 101 |
| MW-4 | J0905825-020 | 107 | 111 | 102 | 103 |
| TW-43 | J0905825-021 | 101 | 108 | 99 | 98 |
| TW-42 | J0905825-022 | 106 | 111 | 101 | 104 |
| MW-37 Zone 3 | J0905825-023 | 99 | 107 | 98 | 98 |
| MW-37 Zone 2 | J0905825-024 | 106 | 109 | 101 | 106 |
| MW-37 Zone 1 | J0905825-025 | 109 | 103 | 104 | 99 |
| MW-36 Zone 5 | J0905825-026 | 109 | 112 | 106 | 108 |
| MW-36 Zone 3 | J0905825-027 | 107 | 115 | 103 | 106 |
| MW-36 Zone 1 | J0905825-028 | 108 | 115 | 102 | 98 |
| MW-35 | J0905825-029 | 103 | 106 | 99 | 103 |
| MW-29R Zone 3 | J0905825-030 | 104 | 109 | 97 | 101 |
| MW-29R Zone 4 | J0905825-031 | 106 | 117 | 104 | 106 |
| SW-1 | J0905825-032 | 104 | 111 | 104 | 105 |
| SW-3A | J0905825-033 | 103 | 112 | 103 | 104 |
| SW-3B | J0905825-034 | 105 | 113 | 106 | 98 |

Surrogate Recovery Control Limits (%)

| | |
|------------------------------|--------|
| Sur1 = 1,2-Dichloroethane-d4 | 71-122 |
| Sur2 = 4-Bromofluorobenzene | 75-120 |
| Sur3 = Dibromofluoromethane | 82-116 |
| Sur4 = Toluene-d8 | 88-117 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825

**Surrogate Recovery Summary
 Volatile Organic Compounds by GC/MS**

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

| <u>Sample Name</u> | <u>Lab Code</u> | <u>Sur1</u> | <u>Sur2</u> | <u>Sur3</u> | <u>Sur4</u> |
|--------------------|-----------------|-------------|-------------|-------------|-------------|
| SW-6 | J0905825-035 | 106 | 106 | 105 | 98 |
| SW-10 | J0905825-036 | 108 | 112 | 106 | 103 |
| SW-11 | J0905825-037 | 104 | 106 | 99 | 99 |
| SW-12 | J0905825-038 | 98 | 109 | 103 | 99 |
| SW-13 | J0905825-039 | 103 | 102 | 100 | 96 |
| SW-14 | J0905825-040 | 101 | 108 | 99 | 102 |
| SW-15 | J0905825-041 | 98 | 113 | 101 | 99 |
| MW-30 | J0905825-042 | 109 | 102 | 106 | 99 |
| EB-11-20-09 | J0905825-043 | 107 | 111 | 104 | 101 |
| MW-31 | J0905825-044 | 110 | 108 | 108 | 100 |
| MW-7 | J0905825-045 | 104 | 111 | 105 | 99 |
| MW-28 | J0905825-046 | 104 | 108 | 112 | 101 |
| MW-32 | J0905825-047 | 104 | 111 | 100 | 106 |
| MW-15 | J0905825-048 | 108 | 110 | 108 | 97 |
| MW-17 | J0905825-049 | 108 | 116 | 104 | 102 |
| MW-20 | J0905825-050 | 105 | 106 | 102 | 103 |
| MW-24 | J0905825-051 | 118 | 112 | 104 | 109 |
| MW-27 | J0905825-052 | 109 | 102 | 105 | 105 |
| SW-3 | J0905825-053 | 110 | 111 | 111 | 110 |
| EB111709 | J0905825-054 | 117 | 111 | 107 | 107 |
| EB111909 | J0905825-055 | 110 | 112 | 109 | 107 |
| DUP111609 | J0905825-056 | 114 | 102 | 104 | 102 |
| DUP111909 | J0905825-057 | 115 | 116 | 112 | 111 |
| TW-41 | J0905825-058 | 117 | 98 | 110 | 102 |
| MW-3 | J0905825-059 | 110 | 105 | 109 | 102 |
| TW-44 | J0905825-060 | 112 | 109 | 106 | 103 |
| TW-40 | J0905825-061 | 112 | 107 | 106 | 105 |
| EB-11-16-09 | J0905825-062 | 107 | 105 | 107 | 100 |
| DUP-11-18-09 | J0905825-063 | 108 | 103 | 111 | 106 |
| Trip Blank 1 | J0905825-064 | 111 | 108 | 109 | 106 |
| Trip Blank 2 | J0905825-065 | 109 | 105 | 105 | 103 |
| EB-11-18-09 | J0905825-066 | 108 | 104 | 103 | 106 |
| Method Blank | JWG0903993-4 | 95 | 122 * | 97 | 94 |
| Method Blank | JWG0904002-4 | 108 | 112 | 106 | 99 |

Surrogate Recovery Control Limits (%)

| | |
|------------------------------|--------|
| Sur1 = 1,2-Dichloroethane-d4 | 71-122 |
| Sur2 = 4-Bromofluorobenzene | 75-120 |
| Sur3 = Dibromofluoromethane | 82-116 |
| Sur4 = Toluene-d8 | 88-117 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825

**Surrogate Recovery Summary
 Volatile Organic Compounds by GC/MS**

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

| <u>Sample Name</u> | <u>Lab Code</u> | <u>Sur1</u> | <u>Sur2</u> | <u>Sur3</u> | <u>Sur4</u> |
|------------------------------|-----------------|-------------|-------------|-------------|-------------|
| Method Blank | JWG0904005-4 | 102 | 112 | 101 | 108 |
| Method Blank | JWG0904010-4 | 107 | 104 | 106 | 107 |
| Method Blank | JWG0904039-3 | 104 | 104 | 108 | 105 |
| MW-29R Zone 3MS | JWG0904002-1 | 93 | 102 | 95 | 98 |
| MW-29R Zone 3DMS | JWG0904002-2 | 102 | 109 | 100 | 101 |
| MW-20MS | JWG0904005-1 | 107 | 113 | 103 | 104 |
| MW-20DMS | JWG0904005-2 | 106 | 111 | 102 | 104 |
| MW-24MS | JWG0904010-1 | 105 | 108 | 102 | 105 |
| MW-24DMS | JWG0904010-2 | 110 | 109 | 107 | 104 |
| Lab Control Sample | JWG0903993-3 | 97 | 119 | 97 | 97 |
| Lab Control Sample | JWG0904002-3 | 90 | 108 | 94 | 105 |
| Lab Control Sample | JWG0904005-3 | 102 | 116 | 99 | 107 |
| Lab Control Sample | JWG0904010-3 | 101 | 105 | 99 | 105 |
| Lab Control Sample | JWG0904039-1 | 105 | 114 | 108 | 106 |
| Duplicate Lab Control Sample | JWG0904039-2 | 107 | 114 | 111 | 108 |

Surrogate Recovery Control Limits (%)

| | |
|------------------------------|--------|
| Sur1 = 1,2-Dichloroethane-d4 | 71-122 |
| Sur2 = 4-Bromofluorobenzene | 75-120 |
| Sur3 = Dibromofluoromethane | 82-116 |
| Sur4 = Toluene-d8 | 88-117 |

Results flagged with an asterisk (*) indicate values outside control criteria.
 Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Extracted: 11/25/2009
Date Analyzed: 11/25/2009

**Matrix Spike/Duplicate Matrix Spike Summary
 Volatile Organic Compounds by GC/MS**

Sample Name: MW-29R Zone 3
Lab Code: J0905825-030
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0904002

| Analyte Name | Sample Result | MW-29R Zone 3MS JWG0904002-1 Matrix Spike | | | MW-29R Zone 3DMS JWG0904002-2 Duplicate Matrix Spike | | | %Rec Limits | RPD | RPD Limit |
|-----------------------------|---------------|---|----------|-------|--|----------|-------|-------------|-----|-----------|
| | | Result | Expected | %Rec | Result | Expected | %Rec | | | |
| 1,1,1-Trichloroethane (TCA) | ND | 23.9 | 20.0 | 120 | 22.5 | 20.0 | 113 | 76-130 | 6 | 30 |
| 1,1-Dichloroethane | 2.3 | 24.4 | 20.0 | 111 | 24.7 | 20.0 | 112 | 78-125 | 1 | 30 |
| 1,1-Dichloroethane | 230 | 387E | 20.0 | 808 # | 390E | 20.0 | 823 # | 79-133 | 1 | 30 |
| 1,2-Dichloroethane (EDC) | 3.8 | 25.3 | 20.0 | 108 | 25.5 | 20.0 | 109 | 74-126 | 1 | 30 |
| Benzene | ND | 21.9 | 20.0 | 109 | 21.4 | 20.0 | 107 | 78-123 | 2 | 30 |
| Carbon Tetrachloride | 9.8 | 32.5 | 20.0 | 113 | 33.0 | 20.0 | 116 | 76-131 | 2 | 30 |
| Chloroform | 12 | 33.2 | 20.0 | 107 | 32.9 | 20.0 | 106 | 81-124 | 1 | 30 |
| cis-1,2-Dichloroethene | ND | 21.5 | 20.0 | 108 | 20.9 | 20.0 | 105 | 75-127 | 3 | 30 |
| Ethylbenzene | ND | 21.6 | 20.0 | 108 | 21.4 | 20.0 | 107 | 87-122 | 1 | 30 |
| Total Xylenes | ND | 65.5 | 60.0 | 109 | 62.0 | 60.0 | 103 | 80-121 | 5 | 30 |
| Methylene Chloride | ND | 20.4 | 20.0 | 102 | 19.8 | 20.0 | 99 | 75-123 | 3 | 30 |
| Tetrachloroethene (PCE) | ND | 22.3 | 20.0 | 111 | 21.7 | 20.0 | 108 | 79-123 | 3 | 30 |
| Toluene | ND | 20.9 | 20.0 | 105 | 20.8 | 20.0 | 104 | 86-119 | 0 | 30 |
| trans-1,2-Dichloroethene | ND | 23.3 | 20.0 | 117 | 23.2 | 20.0 | 116 | 76-125 | 1 | 30 |
| Trichloroethene (TCE) | 0.49 | 23.7 | 20.0 | 116 | 22.4 | 20.0 | 109 | 77-128 | 6 | 30 |
| Vinyl Chloride | ND | 23.6 | 20.0 | 118 | 22.9 | 20.0 | 114 | 78-141 | 3 | 30 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Extracted: 11/26/2009
Date Analyzed: 11/26/2009

**Matrix Spike/Duplicate Matrix Spike Summary
 Volatile Organic Compounds by GC/MS**

Sample Name: MW-20
Lab Code: J0905825-050
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0904005

| Analyte Name | Sample Result | MW-20MS JWG0904005-1 Matrix Spike | | | MW-20DMS JWG0904005-2 Duplicate Matrix Spike | | | %Rec Limits | RPD | RPD Limit |
|-----------------------------|---------------|---|----------|------|--|----------|------|-------------|-----|-----------|
| | | Result | Expected | %Rec | Result | Expected | %Rec | | | |
| 1,1,1-Trichloroethane (TCA) | ND | 23.7 | 20.0 | 118 | 23.9 | 20.0 | 119 | 76-130 | 1 | 30 |
| 1,1-Dichloroethane | ND | 22.1 | 20.0 | 110 | 22.2 | 20.0 | 111 | 78-125 | 1 | 30 |
| 1,1-Dichloroethene | 19 | 44.4 | 20.0 | 128 | 45.1 | 20.0 | 132 | 79-133 | 2 | 30 |
| 1,2-Dichloroethane (EDC) | 0.66 | 23.3 | 20.0 | 113 | 24.1 | 20.0 | 117 | 74-126 | 4 | 30 |
| Benzene | ND | 21.2 | 20.0 | 106 | 21.9 | 20.0 | 109 | 78-123 | 3 | 30 |
| Carbon Tetrachloride | 3.4 | 27.6 | 20.0 | 121 | 28.7 | 20.0 | 126 | 76-131 | 4 | 30 |
| Chloroform | 44 | 63.4 | 20.0 | 98 | 65.5 | 20.0 | 109 | 81-124 | 3 | 30 |
| cis-1,2-Dichloroethene | ND | 21.1 | 20.0 | 105 | 21.6 | 20.0 | 108 | 75-127 | 3 | 30 |
| Ethylbenzene | ND | 20.1 | 20.0 | 100 | 21.0 | 20.0 | 105 | 87-122 | 5 | 30 |
| Total Xylenes | ND | 61.4 | 60.0 | 102 | 62.2 | 60.0 | 104 | 80-121 | 1 | 30 |
| Methylene Chloride | ND | 20.0 | 20.0 | 100 | 21.3 | 20.0 | 107 | 75-123 | 6 | 30 |
| Tetrachloroethene (PCE) | ND | 22.2 | 20.0 | 111 | 21.1 | 20.0 | 105 | 79-123 | 5 | 30 |
| Toluene | ND | 20.8 | 20.0 | 104 | 21.2 | 20.0 | 106 | 86-119 | 2 | 30 |
| trans-1,2-Dichloroethene | ND | 22.3 | 20.0 | 112 | 23.5 | 20.0 | 118 | 76-125 | 5 | 30 |
| Trichloroethene (TCE) | ND | 23.2 | 20.0 | 116 | 23.0 | 20.0 | 115 | 77-128 | 1 | 30 |
| Vinyl Chloride | ND | 23.4 | 20.0 | 117 | 23.4 | 20.0 | 117 | 78-141 | 0 | 30 |

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Extracted: 11/28/2009
Date Analyzed: 11/28/2009

**Matrix Spike/Duplicate Matrix Spike Summary
 Volatile Organic Compounds by GC/MS**

Sample Name: MW-24
Lab Code: J0905825-051
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0904010

| Analyte Name | Sample Result | MW-24MS JWG0904010-1 Matrix Spike | | | MW-24DMS JWG0904010-2 Duplicate Matrix Spike | | | %Rec Limits | RPD | RPD Limit |
|-----------------------------|---------------|---|----------|-------|--|----------|-------|-------------|-----|-----------|
| | | Result | Expected | %Rec | Result | Expected | %Rec | | | |
| 1,1,1-Trichloroethane (TCA) | ND | 21.9 | 20.0 | 109 | 21.3 | 20.0 | 107 | 76-130 | 3 | 30 |
| 1,1-Dichloroethane | 0.66 | 20.9 | 20.0 | 101 | 21.1 | 20.0 | 102 | 78-125 | 1 | 30 |
| 1,1-Dichloroethene | 85 | 112 | 20.0 | 133 # | 107 | 20.0 | 111 # | 79-133 | 4 | 30 |
| 1,2-Dichloroethane (EDC) | 1.7 | 22.5 | 20.0 | 104 | 21.6 | 20.0 | 100 | 74-126 | 4 | 30 |
| Benzene | ND | 19.9 | 20.0 | 99 | 19.4 | 20.0 | 97 | 78-123 | 3 | 30 |
| Carbon Tetrachloride | ND | 21.9 | 20.0 | 110 | 21.4 | 20.0 | 107 | 76-131 | 2 | 30 |
| Chloroform | 19 | 39.1 | 20.0 | 103 | 37.2 | 20.0 | 93 | 81-124 | 5 | 30 |
| cis-1,2-Dichloroethene | ND | 20.1 | 20.0 | 101 | 20.1 | 20.0 | 101 | 75-127 | 0 | 30 |
| Ethylbenzene | ND | 19.9 | 20.0 | 99 | 17.9 | 20.0 | 90 | 87-122 | 11 | 30 |
| Total Xylenes | ND | 55.6 | 60.0 | 93 | 54.1 | 60.0 | 90 | 80-121 | 3 | 30 |
| Methylene Chloride | ND | 19.7 | 20.0 | 99 | 18.7 | 20.0 | 93 | 75-123 | 5 | 30 |
| Tetrachloroethene (PCE) | ND | 19.8 | 20.0 | 99 | 17.8 | 20.0 | 89 | 79-123 | 11 | 30 |
| Toluene | ND | 18.7 | 20.0 | 93 | 18.6 | 20.0 | 93 | 86-119 | 1 | 30 |
| trans-1,2-Dichloroethene | ND | 21.5 | 20.0 | 107 | 20.6 | 20.0 | 103 | 76-125 | 4 | 30 |
| Trichloroethene (TCE) | ND | 20.6 | 20.0 | 103 | 20.9 | 20.0 | 105 | 77-128 | 2 | 30 |
| Vinyl Chloride | ND | 21.9 | 20.0 | 109 | 21.7 | 20.0 | 109 | 78-141 | 1 | 30 |

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Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Extracted: 11/24/2009
Date Analyzed: 11/24/2009

**Lab Control Spike Summary
 Volatile Organic Compounds by GC/MS**

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0903993

| Analyte Name | Lab Control Sample JWG0903993-3 | | | %Rec Limits |
|-----------------------------|------------------------------------|----------|-------|----------------|
| | Result | Expected | %Rec | |
| 1,1,1-Trichloroethane (TCA) | 25.2 | 20.0 | 126 * | 79-124 |
| 1,1-Dichloroethane | 22.9 | 20.0 | 115 | 80-128 |
| 1,1-Dichloroethene | 24.7 | 20.0 | 124 | 78-130 |
| 1,2-Dichloroethane (EDC) | 24.7 | 20.0 | 123 | 80-124 |
| Benzene | 20.8 | 20.0 | 104 | 79-119 |
| Carbon Tetrachloride | 24.6 | 20.0 | 123 | 81-125 |
| Chloroform | 23.3 | 20.0 | 117 | 83-124 |
| cis-1,2-Dichloroethene | 21.1 | 20.0 | 106 | 80-126 |
| Ethylbenzene | 20.0 | 20.0 | 100 | 90-118 |
| Total Xylenes | 59.6 | 60.0 | 99 | 86-121 |
| Methylene Chloride | 21.4 | 20.0 | 107 | 72-124 |
| Tetrachloroethene (PCE) | 22.2 | 20.0 | 111 | 80-121 |
| Toluene | 19.9 | 20.0 | 99 | 86-117 |
| trans-1,2-Dichloroethene | 24.0 | 20.0 | 120 | 77-124 |
| Trichloroethene (TCE) | 21.4 | 20.0 | 107 | 76-124 |
| Vinyl Chloride | 20.2 | 20.0 | 101 | 78-132 |

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Extracted: 11/25/2009
Date Analyzed: 11/25/2009

**Lab Control Spike Summary
 Volatile Organic Compounds by GC/MS**

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0904002

| Analyte Name | Lab Control Sample JWG0904002-3 | | | %Rec Limits |
|-----------------------------|------------------------------------|----------|------|----------------|
| | Result | Expected | %Rec | |
| 1,1,1-Trichloroethane (TCA) | 20.3 | 20.0 | 101 | 79-124 |
| 1,1-Dichloroethane | 19.4 | 20.0 | 97 | 80-128 |
| 1,1-Dichloroethene | 20.9 | 20.0 | 105 | 78-130 |
| 1,2-Dichloroethane (EDC) | 19.7 | 20.0 | 99 | 80-124 |
| Benzene | 18.9 | 20.0 | 95 | 79-119 |
| Carbon Tetrachloride | 19.6 | 20.0 | 98 | 81-125 |
| Chloroform | 19.2 | 20.0 | 96 | 83-124 |
| cis-1,2-Dichloroethene | 19.4 | 20.0 | 97 | 80-126 |
| Ethylbenzene | 19.8 | 20.0 | 99 | 90-118 |
| Total Xylenes | 58.8 | 60.0 | 98 | 86-121 |
| Methylene Chloride | 18.2 | 20.0 | 91 | 72-124 |
| Tetrachloroethene (PCE) | 19.6 | 20.0 | 98 | 80-121 |
| Toluene | 20.4 | 20.0 | 102 | 86-117 |
| trans-1,2-Dichloroethene | 19.8 | 20.0 | 99 | 77-124 |
| Trichloroethene (TCE) | 20.1 | 20.0 | 101 | 76-124 |
| Vinyl Chloride | 19.6 | 20.0 | 98 | 78-132 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Extracted: 11/25/2009
Date Analyzed: 11/25/2009

Lab Control Spike Summary
Volatile Organic Compounds by GC/MS

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0904005

| Analyte Name | Lab Control Sample JWG0904005-3 Lab Control Spike | | | %Rec Limits |
|-----------------------------|---|----------|------|----------------|
| | Result | Expected | %Rec | |
| 1,1,1-Trichloroethane (TCA) | 20.0 | 20.0 | 100 | 79-124 |
| 1,1-Dichloroethane | 19.5 | 20.0 | 97 | 80-128 |
| 1,1-Dichloroethene | 21.3 | 20.0 | 107 | 78-130 |
| 1,2-Dichloroethane (EDC) | 19.5 | 20.0 | 97 | 80-124 |
| Benzene | 18.5 | 20.0 | 93 | 79-119 |
| Carbon Tetrachloride | 20.0 | 20.0 | 100 | 81-125 |
| Chloroform | 19.9 | 20.0 | 99 | 83-124 |
| cis-1,2-Dichloroethene | 19.5 | 20.0 | 97 | 80-126 |
| Ethylbenzene | 19.3 | 20.0 | 96 | 90-118 |
| Total Xylenes | 56.0 | 60.0 | 93 | 86-121 |
| Methylene Chloride | 18.4 | 20.0 | 92 | 72-124 |
| Tetrachloroethene (PCE) | 18.5 | 20.0 | 93 | 80-121 |
| Toluene | 19.0 | 20.0 | 95 | 86-117 |
| trans-1,2-Dichloroethene | 20.0 | 20.0 | 100 | 77-124 |
| Trichloroethene (TCE) | 19.9 | 20.0 | 99 | 76-124 |
| Vinyl Chloride | 18.2 | 20.0 | 91 | 78-132 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Extracted: 11/27/2009
Date Analyzed: 11/27/2009

**Lab Control Spike Summary
 Volatile Organic Compounds by GC/MS**

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0904010

Lab Control Sample
 JWG0904010-3
 Lab Control Spike

| Analyte Name | Result | Expected | %Rec | %Rec Limits |
|-----------------------------|--------|----------|------|-------------|
| 1,1,1-Trichloroethane (TCA) | 19.7 | 20.0 | 99 | 79-124 |
| 1,1-Dichloroethane | 19.2 | 20.0 | 96 | 80-128 |
| 1,1-Dichloroethene | 21.8 | 20.0 | 109 | 78-130 |
| 1,2-Dichloroethane (EDC) | 18.5 | 20.0 | 93 | 80-124 |
| Benzene | 18.6 | 20.0 | 93 | 79-119 |
| Carbon Tetrachloride | 19.6 | 20.0 | 98 | 81-125 |
| Chloroform | 19.0 | 20.0 | 95 | 83-124 |
| cis-1,2-Dichloroethene | 18.9 | 20.0 | 94 | 80-126 |
| Ethylbenzene | 19.1 | 20.0 | 95 | 90-118 |
| Total Xylenes | 54.1 | 60.0 | 90 | 86-121 |
| Methylene Chloride | 17.3 | 20.0 | 87 | 72-124 |
| Tetrachloroethene (PCE) | 17.6 | 20.0 | 88 | 80-121 |
| Toluene | 18.3 | 20.0 | 91 | 86-117 |
| trans-1,2-Dichloroethene | 19.8 | 20.0 | 99 | 77-124 |
| Trichloroethene (TCE) | 19.1 | 20.0 | 96 | 76-124 |
| Vinyl Chloride | 19.6 | 20.0 | 98 | 78-132 |

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Brown and Caldwell
Project: Owens Corning/136868
Sample Matrix: Water

Service Request: J0905825
Date Extracted: 11/30/2009
Date Analyzed: 11/30/2009

**Lab Control Spike/Duplicate Lab Control Spike Summary
 Volatile Organic Compounds by GC/MS**

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: JWG0904039

| Analyte Name | Lab Control Sample JWG0904039-1 Lab Control Spike | | | Duplicate Lab Control Sample JWG0904039-2 Duplicate Lab Control Spike | | | %Rec Limits | RPD | RPD Limit |
|-----------------------------|---|----------|------|---|----------|------|----------------|-----|--------------|
| | Result | Expected | %Rec | Result | Expected | %Rec | | | |
| 1,1,1-Trichloroethane (TCA) | 21.9 | 20.0 | 110 | 21.2 | 20.0 | 106 | 79-124 | 3 | 30 |
| 1,1-Dichloroethane | 21.7 | 20.0 | 109 | 21.3 | 20.0 | 106 | 80-128 | 2 | 30 |
| 1,1-Dichloroethene | 23.1 | 20.0 | 116 | 22.5 | 20.0 | 112 | 78-130 | 3 | 30 |
| 1,2-Dichloroethane (EDC) | 21.4 | 20.0 | 107 | 21.7 | 20.0 | 108 | 80-124 | 1 | 30 |
| Benzene | 21.1 | 20.0 | 105 | 21.0 | 20.0 | 105 | 79-119 | 0 | 30 |
| Carbon Tetrachloride | 22.2 | 20.0 | 111 | 21.5 | 20.0 | 108 | 81-125 | 3 | 30 |
| Chloroform | 21.3 | 20.0 | 107 | 21.5 | 20.0 | 108 | 83-124 | 1 | 30 |
| cis-1,2-Dichloroethene | 20.6 | 20.0 | 103 | 21.0 | 20.0 | 105 | 80-126 | 2 | 30 |
| Ethylbenzene | 19.4 | 20.0 | 97 | 19.5 | 20.0 | 98 | 90-118 | 1 | 30 |
| Total Xylenes | 57.1 | 60.0 | 95 | 56.9 | 60.0 | 95 | 86-121 | 0 | 30 |
| Methylene Chloride | 19.4 | 20.0 | 97 | 19.8 | 20.0 | 99 | 72-124 | 2 | 30 |
| Tetrachloroethene (PCE) | 18.9 | 20.0 | 94 | 18.4 | 20.0 | 92 | 80-121 | 3 | 30 |
| Toluene | 19.3 | 20.0 | 97 | 19.4 | 20.0 | 97 | 86-117 | 1 | 30 |
| trans-1,2-Dichloroethene | 22.5 | 20.0 | 113 | 21.9 | 20.0 | 110 | 77-124 | 3 | 30 |
| Trichloroethene (TCE) | 21.7 | 20.0 | 109 | 21.3 | 20.0 | 107 | 76-124 | 2 | 30 |
| Vinyl Chloride | 20.4 | 20.0 | 102 | 19.9 | 20.0 | 99 | 78-132 | 3 | 30 |

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



Columbia Analytical Services, Inc.
Cooler Receipt Form

Client: Brown & Caldwell
Project: Owen's Corning

Work order: J0905825

Cooler received on 11.21.09

and opened on 11.24.09 by GB

COURIER: CAS UPS FEDEX

Other _____ Airbill # 795531869007

- | | | | | |
|----|---|--|---------------------------------|---------------------------|
| 1 | Were custody seals on outside of cooler? If yes, how many and where? | <input checked="" type="radio"/> Yes | <input type="radio"/> No | ex: 1 on lid 2 on cooler |
| 2 | Were seals intact and signature and date correct? | <input checked="" type="radio"/> Yes | <input type="radio"/> No | N/A |
| 3 | Were custody papers properly filled out? COC # | <input checked="" type="radio"/> Yes | <input type="radio"/> No | N/A |
| 4 | Temperature of cooler(s) upon receipt (Should be 4 +/- 2 degrees C) | | | |
| 5 | Temperature Blank | <u>1.9 c 1.0 c</u> | | |
| 6 | Were Ice or Ice Packs present | <input checked="" type="radio"/> Ice | <input type="radio"/> Ice Packs | |
| 7 | Did all bottles arrive in good condition (unbroken, etc...)? | <input checked="" type="radio"/> Yes | <input type="radio"/> No | N/A |
| 8 | Type of packing material present | <u>garbage bags / bubble bags / ziplock!</u> | | |
| 9 | Were all bottle labels complete (sample ID, preservation, etc...)? | <input checked="" type="radio"/> Yes | <input type="radio"/> No | N/A |
| 10 | Did all bottle labels and tags agree with custody papers? | <input checked="" type="radio"/> Yes | <input type="radio"/> No | N/A |
| 11 | Were the correct bottles used for the tests indicated? | <input checked="" type="radio"/> Yes | <input type="radio"/> No | N/A |
| 12 | Were all of the preserved bottles received with the appropriate preservative? HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 Preservative additions noted below | <input checked="" type="radio"/> Yes | <input type="radio"/> No | N/A <u>HCl pH<2</u> |
| 13 | Were all samples received within analysis holding times? | <input checked="" type="radio"/> Yes | <input type="radio"/> No | N/A |
| 14 | Were VOA vials checked for absence of air bubbles? If present, note below | <input checked="" type="radio"/> Yes | <input type="radio"/> No | N/A |
| 15 | Where did the bottles originate? | <input checked="" type="radio"/> CAS | <input type="radio"/> Client | |

| Sample ID | Reagent | Lot # | ml added | Initials |
|-----------|---------|-------|----------|----------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Additional comments and/or explanation of all discrepancies noted above:

Client approval to run samples if discrepancies noted: _____ Date: 90

Date: 11.24.08 Initials: CB

SR #: J090825

Note that pH is checked and meets the required pH criterion listed in the column heading unless otherwise noted on cooler receipt form.

| Container | Bottle Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|-------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-----|-------|-----|-----|-----|------|-----|-------|-------|--|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |
| 40ml | 40ml | 40ml | 40ml | 125ml | 125ml | 125ml | 125ml | 250ml | 250ml | 250ml | 250ml | 250ml | 250ml | 250ml | 500ml | 500ml | 500ml | 500ml | 1L | 1L | 1L | 1L | 1L | 20z | 4oz | 8oz | 16oz | 5g | 100ml | Misc. | |
| G | G | G | G | P | P | P | P | F | F | F | F | P | P | P | P | P | P | P | P | P | P | G | G | G | G | G | G | ENC | P | Misc. | |
| | HCl | Sodium Thiosulfate | H2SO4 | HCl | H2SO4 | HNO3 | HNO3 | H2SO4 | HNO3 | HNO3 | HNO3 | NaOH | NaOH | NaOH | H2SO4 | HNO3 | HNO3 | HNO3 | HNO3 | HNO3 | HNO3 | HCl | H2SO4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Req. pH | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | >12 | >12 | >12 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | | |
| Sample # | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 003 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 004 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 005 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 006 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 008 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 009 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 010 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 011 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 012 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 014 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 015 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 016 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 017 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 018 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 024 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 025 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 026 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 027 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 028 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 029 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 030 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 031 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 032 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 033 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 034 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 035 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 036 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 037 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 038 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 039 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 040 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

→ -063 2
 -064 2
 -065 2
 -066 3

SR # 20905825
CAS Contact Craig Myers

| | | | | | |
|--|--|---|------|--|-----|
| Project Name <u>Owens Corning</u> | | Project Number <u>136868</u> | | ANALYSIS REQUESTED (Include Method Number and Preservative) <u>HCL</u> | |
| Project Manager <u>Jim Claffey/Tamara Bergman</u> | | Email Address <u>tbergman@brnccald.com</u> | | PRESERVATIVE | |
| Company/Address <u>990 Hammond Dr NE, Ste 400 Atlanta, GA 30328 ³⁰³²⁸</u> | | FAX# <u>770-396-9495</u> | | NUMBER OF CONTAINERS <u>VOCs</u> | |
| Phone # <u>770-396-9495</u> | | Sampler's Printed Name <u>Dan McClay</u> | | REMARKS/ ALTERNATE DESCRIPTION | |
| Sampler's Signature <u>[Signature]</u> | | LAB ID | | SAMPLING DATE | |
| CLIENT SAMPLE ID | | LAB ID | | SAMPLING DATE | |
| MATRIX | | SAMPLING TIME | | SAMPLING DATE | |
| MW-22 | | | 1635 | GW | 3 X |
| MW-19 | | | 1459 | | |
| MW-13 | | | 1445 | | |
| MW-12 | | | 1255 | | |
| MW-11 | | | 1125 | | |
| MW-9 | | | 1025 | | |
| MW-6 | | | 0900 | | |
| MW-26 | | | 1835 | | |
| MW-25 | | | 1545 | | |
| MW-21 | | | 1400 | | |
| SPECIAL INSTRUCTIONS/COMMENTS <u>* Focused 8260 list (Project specific) of VOCs 16 constituents. Contact Tamara Bergman for list. - shipping 3 coolers. Samples in coolers 1 & 2.</u> | | | | | |
| TURNAROUND REQUIREMENTS <u>STANDARD</u> | | RUSH (SURCHARGES APPLY) | | REPORT REQUIREMENTS | |
| REQUESTED FAX DATE <u>1 week from arrival of samples</u> | | REQUESTED REPORT DATE | | I. Results Only II. Results + OC Summaries (LCS, DUP, MS/MSD as required) <u>X</u> III. Results + OC and Calibration Summaries IV. Data Validation Report with Raw Data V. Specialized Forms / Custom Report | |
| Edata <u>Yes</u> No | | RELINQUISHED BY | | Signature Printed Name Firm Date/Time | |
| CUSTODY SEALS: Y N | | RECEIVED BY | | Signature Printed Name Firm Date/Time | |
| RECEIVED BY | | RECEIVED BY | | RECEIVED BY | |
| Signature <u>[Signature]</u> | | Signature <u>[Signature]</u> | | Signature <u>[Signature]</u> | |
| Printed Name <u>[Name]</u> | | Printed Name <u>[Name]</u> | | Printed Name <u>[Name]</u> | |
| Firm <u>[Firm]</u> | | Firm <u>[Firm]</u> | | Firm <u>[Firm]</u> | |
| Date/Time <u>[Date/Time]</u> | | Date/Time <u>[Date/Time]</u> | | Date/Time <u>[Date/Time]</u> | |



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PAGE 2 OF 7

SR #

30905825

CAS Contact

Cara Myers

www.caslab.com

| | | | | | |
|---|--------|--|---------------|--|-------------------------------|
| Project Name Owens Corning | | Project Number 136868 | | ANALYSIS REQUESTED (Include Method Number) | |
| Project Manager Jim Claffey / Tamara Bergman | | Email Address tberryman@brncauld.com | | PRESERVATIVE 1 | |
| Company/Address 990 Hammond Dr. NE, Ste 400 Atlanta, GA 30328 | | FAX# 770-396-9495 | | NUMBER OF CONTAINERS VOCS | |
| Phone # 770-394-2997 | | Sampler's Printed Name Dan McElroy | | PRESERVATIVE KEY 0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn Acetate 6. MeOH 7. NaHSO4 8. Other | |
| CLIENT SAMPLE ID | LAB ID | SAMPLING DATE | SAMPLING TIME | MATRIX | REMARKS/ALTERNATE DESCRIPTION |
| MW-16 | | 11/8/09 | 1315 | GW | |
| TN-46 | | | 1125 | | |
| Alloy | | | 0935 | | |
| MW-5 | | 11/7/09 | 1700 | | |
| MW-14 | | | 1605 | | |
| MW-10 | | | 1570 | | |
| MW-1 | | | 1405 | | |
| MW-2 | | | 1135 | | |
| MW-18 | | | 1035 | | |
| MW-4 | | | 0920 | | |
| SPECIAL INSTRUCTIONS/COMMENTS * Focused 8260 list (Project specific) of VOCS. Contact Tamara Bergman for list (16 constituents) | | | | | |
| TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) <input checked="" type="checkbox"/> STANDARD REQUESTED FAX DATE REQUESTED REPORT DATE | | REPORT REQUIREMENTS I. Results Only <input checked="" type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data V. Specialized Forms / Custom Report Edata <input type="checkbox"/> Yes <input type="checkbox"/> No | | INVOICE INFORMATION PO# BILL TO: | |
| RECEIVED BY [Signature] Printed Name Sumner Strom Firm CAS Date/Time 11/2/09 1045 | | RECEIVED BY [Signature] Printed Name FEDEX Firm FEDEX Date/Time | | RECEIVED BY | |
| RECEIVED BY [Signature] Printed Name Carle Nino Firm Advanced Calverell Date/Time 11/2/09 14:30 | | RECEIVED BY [Signature] Printed Name FEDEX Firm FEDEX Date/Time | | RECEIVED BY | |



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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PAGE 3 OF 7

SR # 50905825

CAS Contact Craig Myers

| | | | | | | | | | |
|---|---|---|------------------------------------|---|------------------------------------|---|------------------------------------|---|--|
| Project Name Onens Corning | | Project Number 136868 | | ANALYSIS REQUESTED (Include Method Number) | | | | | |
| Project Manager Jim Claffey / Tamara Beryman | | Email Address tberryman@brunncald.com | | PRESERVATIVE 1 | | | | | |
| Company/Address 990 Hammond Dr. NE Ste 400 Atlanta, GA 30328 | | FAX# 770-396-9495 | | PRESERVATIVE KEY 0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO4 8. Other _____ | | | | | |
| Phone # 770-394-2097 | Sampler's Signature <i>[Signature]</i> | Sampler's Printed Name Dan McKey | LAB ID | SAMPLING DATE | SAMPLING TIME | MATRIX | NUMBER OF CONTAINERS | REMARKS/ ALTERNATE DESCRIPTION | |
| 44-45 | | | | 11/19/09 | 16:00 | GW | 3 | 3 | |
| TW-43 | | | | 11/19/09 | 16:00 | GW | 3 | | |
| TW-42 | | | | 11/19/09 | 09:45 | | | | |
| MW-37 Zone 3 | | | | 11/17/09 | 10:45 | | | | |
| MW-37 Zone A | | | | 11/17/09 | 12:45 | | | | |
| MW-37 Zone 1 | | | | 11/17/09 | 16:00 | | | | |
| MW-36 Zone 5 | | | | 11/16/09 | 16:15 | | | | |
| MW-36 Zone 3 | | | | 11/17/09 | 08:00 | | | | |
| MW-36 Zone 1 | | | | 11/16/09 | 14:30 | | | | |
| MW-35 | | | | 11/17/09 | 17:35 | | | | |
| SPECIAL INSTRUCTIONS/COMMENTS * Focused list of VOCs (project specific) Contact Tamara Beryman for list of 16 constituents. | | | | | | TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) <input checked="" type="checkbox"/> STANDARD REQUESTED FAX DATE _____ REQUESTED REPORT DATE _____ | | REPORT REQUIREMENTS <input checked="" type="checkbox"/> I. Results Only <input checked="" type="checkbox"/> II. Results + QC Summaries (LCS, DUF, MS/MSD as required) <input type="checkbox"/> III. Results + QC and Calibration Summaries <input type="checkbox"/> IV. Data Validation Report with Raw Data <input type="checkbox"/> V. Specialized Forms / Custom Report Edata <input type="checkbox"/> Yes <input type="checkbox"/> No | INVOICE INFORMATION PO# _____ BILL TO: _____ |
| SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ | | CUSTODY SEALS: Y N | | RECEIVED BY | | RECEIVED BY | | RECEIVED BY | |
| RELINQUISHED BY | | RELINQUISHED BY | | RELINQUISHED BY | | RELINQUISHED BY | | RELINQUISHED BY | |
| Signature <i>[Signature]</i> | Signature <i>[Signature]</i> | Signature <i>[Signature]</i> | Signature <i>[Signature]</i> | Signature <i>[Signature]</i> | Signature <i>[Signature]</i> | Signature <i>[Signature]</i> | Signature <i>[Signature]</i> | Signature <i>[Signature]</i> | Signature <i>[Signature]</i> |
| Printed Name Carle Mino | Printed Name FEDEX | Printed Name FEDEX | Printed Name FEDEX | Printed Name FEDEX | Printed Name FEDEX | Printed Name FEDEX | Printed Name FEDEX | Printed Name FEDEX | Printed Name FEDEX |
| Firm Brunn and Caldwell | Firm FEDEX | Firm FEDEX | Firm FEDEX | Firm FEDEX | Firm FEDEX | Firm FEDEX | Firm FEDEX | Firm FEDEX | Firm FEDEX |
| Date/Time 11/20/09 14:30 | Date/Time 11/20/09 14:30 | Date/Time 11/20/09 14:30 | Date/Time 11/20/09 14:30 | Date/Time 11/20/09 14:30 | Date/Time 11/20/09 14:30 | Date/Time 11/20/09 14:30 | Date/Time 11/20/09 14:30 | Date/Time 11/20/09 14:30 | Date/Time 11/20/09 14:30 |

See QAPP

SR #

300525

CAS Contact

Craig Maes

| | | | | | |
|--|--------|--|---------------|---|-------------------------------|
| Project Name <i>Owens Corning</i> | | Project Number <i>136868</i> | | ANALYSIS REQUESTED (Include Method Number) | |
| Project Manager <i>Jim Claffey / Tamara Bergman</i> | | Email Address <i>Tbergman@brunnald.com</i> | | PRESERVATIVE <i>1</i> | |
| Company/Address <i>990 Hammond Dr NE, Ste 400 Atlanta, GA 30328</i> | | FAX# <i>770-394-2997</i> | | PRELIMINARY ANALYSIS <i>VOCs*</i> | |
| Phone # <i>770-394-2997</i> | | FAX# <i>770-396-9495</i> | | PRESERVATIVE KEY | |
| Sampler's Signature <i>Jan McCoy</i> | | Sampler's Printed Name <i>Jan McCoy</i> | | 0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO4 8. Other | |
| CLIENT SAMPLE ID | LAB ID | DATE | SAMPLING TIME | MATRIX | REMARKS/ALTERNATE DESCRIPTION |
| MW-29R Zone 3 | | <i>11/10/09</i> | <i>11:30</i> | <i>GW</i> | |
| MW-29R Zone 4 | | <i>11/10/09</i> | <i>13:15</i> | <i>GW</i> | |
| SW-1 | | <i>11/10/09</i> | <i>11:05</i> | <i>SW</i> | |
| SW-3A | | <i>16:00</i> | | | |
| SW-3B | | <i>15:50</i> | | | |
| SW-6 | | <i>10:37</i> | | | |
| SW-10 | | <i>10:30</i> | | | |
| SW-11 | | <i>12:20</i> | | | |
| SW-12 | | <i>12:35</i> | | | |
| SW-13 | | <i>11:50</i> | | | |
| SPECIAL INSTRUCTIONS/COMMENTS <i>* Focused list of VOCs (project specific) Contact Tamara Bergman for list of 16 constituents</i> | | | | | |
| TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) <input checked="" type="checkbox"/> STANDARD | | REPORT REQUIREMENTS I. Results Only <input checked="" type="checkbox"/> II. Results + GC Summaries (LCS, DUP, MS/MSD as required) III. Results + GC and Calibration Summaries IV. Data Validation Report with Raw Data V. Specialized Forms / Custom Report | | INVOICE INFORMATION PO# BILL TO: | |
| REQUESTED FAX DATE | | REQUESTED REPORT DATE | | Edata Yes No | |
| RECEIVED BY <i>Jan McCoy</i> | | RECEIVED BY <i>Samuel Stewart</i> | | RECEIVED BY | |
| RELINQUISHED BY <i>Jan McCoy</i> | | RELINQUISHED BY <i>Samuel Stewart</i> | | RELINQUISHED BY | |
| Signature <i>Jan McCoy</i> | | Signature <i>Samuel Stewart</i> | | Signature | |
| Printed Name <i>Jan McCoy</i> | | Printed Name <i>Samuel Stewart</i> | | Printed Name | |
| Firm <i>ACS</i> | | Firm <i>ACS</i> | | Firm | |
| Date/Time <i>11/21/09 10:45</i> | | Date/Time <i>11/21/09 10:45</i> | | Date/Time | |
| SAMPLE RECEIPT: CONDITION/COOLER TEMP. | | CUSTODY SEALS: Y N | | RECEIVED BY | |
| RELINQUISHED BY | | RELINQUISHED BY | | RELINQUISHED BY | |
| Signature <i>Jan McCoy</i> | | Signature <i>Samuel Stewart</i> | | Signature | |
| Printed Name <i>Jan McCoy</i> | | Printed Name <i>Samuel Stewart</i> | | Printed Name | |
| Firm <i>ACS</i> | | Firm <i>ACS</i> | | Firm | |
| Date/Time <i>11/20/09 14:30</i> | | Date/Time <i>11/20/09 14:30</i> | | Date/Time | |



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SR # 5005825
CAS Contact Craig Myers

Project Name: Owens Corning
 Project Manager: Jim Claffey/Tamara Bergman
 Company/Address: 990 Hammond Dr NE, Ste 400 Atlanta, GA 30328
 Project Number: 136868
 Email Address: Tbergman@brnccald.com
 Phone #: 770-394-2997
 FAX#: 770-396-9495
 Sampler's Signature: *Tail Myg*
 Sampler's Printed Name: Dan McCloy

| CLIENT SAMPLE ID | LAB ID | SAMPLING | | MATRIX | PRESERVATIVE | ANALYSIS REQUESTED (Include Method Number) | REMARKS/ ALTERNATE DESCRIPTION |
|------------------|--------|----------|-------|--------|--------------|--|-----------------------------------|
| | | DATE | TIME | | | | |
| SW-14 | | 11/18/09 | 12:05 | SW | X | | |
| SW-15 | | 11/18/09 | 10:57 | SW | | | |
| MW-30 | | 11/20/09 | 09:35 | GW | | | |
| EB-11#20-09 | | 11/20/09 | 10:00 | W | | | |
| MW-31 | | 11/20/09 | 12:10 | GW | | | |
| MW-7 | | 11/20/09 | 10:25 | GW | | | |
| MW-28 | | 11/20/09 | 12:16 | GW | | | |
| MW-32 | | 11/14/09 | 14:00 | GW | | | |
| MW-15 | | 11/20/09 | 09:00 | GW | | | |
| MW-17 | | 11/19/09 | 11:25 | GW | | | |

SPECIAL INSTRUCTIONS/COMMENTS: * Focused list of VOCs (project specific)
 Contact Tamara Bergman for list of 16 constituents

See QAPP

TURNAROUND REQUIREMENTS
 RUSH (SURCHARGES APPLY)
 STANDARD
 REQUESTED FAX DATE: _____
 REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS
 I. Results Only
 II. Results + OC Summaries (LCS, DUP, MS/MSD as required)
 III. Results + OC and Calibration Summaries
 IV. Data Validation Report with Raw Data
 V. Specialized Forms / Custom Report
 Edata Yes No

RECEIVED BY: *[Signature]*
 Signature: _____
 Printed Name: _____
 Firm: _____
 Date/Time: 11/21/09 10:45

RECEIVED BY: *[Signature]*
 Signature: _____
 Printed Name: _____
 Firm: _____
 Date/Time: 11/21/09 10:45

1. NONE
2. HCL
3. HNO₃
4. H₂SO₄
5. NaOH
6. Zn, Acetate
7. MeOH
8. NaHSO₄
9. Other _____



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PAGE 6 OF 7

SR #

50905825

CAS Contact

Craig Myers

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| | | | | | |
|--|-----------------------------|---|--------------|---|--------------|
| Project Name Owens Corning | | Project Number 136888 | | ANALYSIS REQUESTED (Include Method Number and Preservative) | |
| Project Manager Jim Claffey/Tamara Berryman | | Email Address tberryman@brownald.com | | PRESERVATIVE 1 | |
| Company/Address 990 Hammond Dr NE, Ste 400 Atlanta, GA 30328 | | | | NUMBER OF CONTAINERS VOCs | |
| Phone # 770-394-2997 | FAX# 770-396-9495 | Sampler's Printed Name Dan McCloy | | | |
| CLIENT SAMPLE ID | | SAMPLING DATE | TIME | MATRIX | |
| MW-20 | | 11/19/09 | 17:55 | GW | X |
| MW-24 | | 11/19/09 | 15:50 | GW | X |
| MW-27 | | 11/19/09 | 17:10 | GW | X |
| SW-3 | | 11/18/09 | 15:35 | SW | X |
| EB111709 | | 11/17/09 | 11:00 | W | X |
| EB111909 | | 11/19/09 | 11:50 | W | X |
| DUP 111609 | | 11/19/09 | 08:00 | GW | X |
| DUP 111909 | | 11/19/09 | 13:00 | GW | X |
| SPECIAL INSTRUCTIONS/COMMENTS * Focused list of VOCs (project specific). Contact Tamara Berryman for list of 16 constituents | | | | | |
| See QAPP <input type="checkbox"/> | | TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) <input checked="" type="checkbox"/> STANDARD REQUESTED FAX DATE REQUESTED REPORT DATE | | REPORT REQUIREMENTS <input checked="" type="checkbox"/> I. Results Only <input checked="" type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MS/MSD as required) <input type="checkbox"/> III. Results + QC and Calibration Summaries <input type="checkbox"/> IV. Data Validation Report with Raw Data <input type="checkbox"/> V. Specialized Forms / Custom Report Edata Yes <input type="checkbox"/> No <input type="checkbox"/> | |
| SAMPLE RECEIPT: CONDITION/COOLER TEMP: | | RECEIVED BY | | RECEIVED BY | |
| RELINQUISHED BY | | RELINQUISHED BY | | RELINQUISHED BY | |
| Signature OW | Signature | Signature | Signature | Signature | Signature |
| Printed Name carlene mims | Printed Name | Printed Name | Printed Name | Printed Name | Printed Name |
| Firm Brown and Calender | Firm | Firm | Firm | Firm | Firm |
| Date/Time 11/20/09 14:30 | Date/Time | Date/Time | Date/Time | Date/Time | Date/Time |
| INVOICE INFORMATION | | INVOICE INFORMATION | | INVOICE INFORMATION | |
| PO# | | PO# | | PO# | |
| BILL TO: | | BILL TO: | | BILL TO: | |



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SR #

J0905825

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PAGE

7 OF 7

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Project Name: Owens Corning
 Project Manager: Jim Claffey/Tamara Bergman
 Company/Address: 990 Hammond Dr NE, Ste 400
 Atlanta, GA 30328
 Project Number: 136868
 Email Address: tbergman@browncauld.com
 Phone #: 770-394-2997
 Sampler's Signature: *Paul Mcgy*
 Sampler's Printed Name: Dan McCloy
 FAX#: 770-396-9495

ANALYSIS REQUESTED (Include Method Number and Preservative)
 PRESERVATIVE: 1
 NUMBER OF CONTAINERS: 3
 VOCs

REMARKS/ALTERNATE DESCRIPTION

| CLIENT SAMPLE ID | LAB ID | SAMPLING DATE | SAMPLING TIME | MATRIX |
|--------------------------------|--------|---------------|---------------|--------|
| TW-41 | | 11/16/09 | 1520 | GW 3 X |
| MW-3 | | 11/17/09 | 0825 | |
| TW-44 | | 11/16/09 | 1900 | |
| TW-40 | | 11/16/09 | 1625 | |
| EB-11-16-09 | | 11/16/09 | 1530 | W |
| Dup-11-18-09 | | 11/18/09 | 1200 | GW |
| 11-18-09 Trip Blank | | | | |
| Trip Blank | | | | W |
| Trip Blank | | | | W |
| EB-11-18-09 | | 11/18/09 | 1140 | W |

SPECIAL INSTRUCTIONS/COMMENTS
 * Focused list of VOCs (Project specific)
 Contact Tamara Bergman for list of 16 constituents

TURNAROUND REQUIREMENTS
 RUSH (SURCHARGES APPLY)
 STANDARD
 REQUESTED FAX DATE
 REQUESTED REPORT DATE

REPORT REQUIREMENTS
 I. Results Only
 II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
 III. Results + QC and Calibration Summaries
 IV. Data Validation Report with Raw Data
 V. Specialized Forms / Custom Report
 Edata Yes No

See OAPP

SAMPLE RECEIPT: CONDITION/COOLER TEMP: 98
 RELINQUISHED BY: *cu*
 Signature: *cu*
 Printed Name: *Caroline*
 Firm: *Brown and Caldwell*
 Date/Time: *11/16/09 14:30*

RECEIVED BY: *FEDEX*
 Signature: *FEDEX*
 Printed Name: *FEDEX*
 Firm: *FEDEX*
 Date/Time: *11/16/09 14:30*

RECEIVED BY: *Sumner*
 Signature: *Sumner*
 Printed Name: *Sumner*
 Firm: *Sumner*
 Date/Time: *11/16/09 1045*

RELINQUISHED BY: *Sumner*
 Signature: *Sumner*
 Printed Name: *Sumner*
 Firm: *Sumner*
 Date/Time: *11/16/09 1045*

APPENDIX C: HISTORICAL GROUNDWATER DATA

(Excerpted from the 2005 Annual Groundwater and Surface Water Monitoring Report, ARCADIS G&M, Inc., 2006)

Table E-1. Summary of Selected Groundwater Analytical Results for Overburden Wells, Owens Corning, Anderson, South Carolina.

| Sample dates | Units | November-90 | August 91 | August-93 | December-95 | December-96 | November-97 | December-98 | December-99 | December-00 | November-01 | December-02 | December-03 | December-04 | November-05 |
|------------------------------|-------|-------------|-----------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| MW-5 | | | | | | | | | | | | | | | |
| Halogenated Alkenes | | | | | | | | | | | | | | | |
| Tetrachloroethene | ug/l | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichloroethene | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Vinyl Chloride | ug/l | NA | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Halogenated Methanes | | | | | | | | | | | | | | | |
| Carbon Tetrachloride | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroform | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylene Chloride | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Halogenated Ethenes | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Aromatic Hydrocarbons | | | | | | | | | | | | | | | |
| benzene | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Metals | | | | | | | | | | | | | | | |
| Arsenic | ug/l | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Barium | ug/l | 390 | 230 | 240 | 174 | 160 | 100 | 130 | 89 | 140 | 140 | NA | NA | NA | NA |
| Beryllium | ug/l | NA | 1 | 1 | ND | ND | ND | ND | ND | ND | ND | NA | NA | NA | NA |
| Chromium | ug/l | ND | 16 | 10 | 4.3 | 2.7 | ND | 4 | ND | ND | ND | NA | NA | NA | NA |
| Lead | ug/l | ND | ND | ND | ND | ND | ND | 8 | ND | ND | ND | NA | NA | NA | NA |
| Nickel | ug/l | ND | 7.1 | ND | ND | 1 | ND | 3 | ND | ND | ND | NA | NA | NA | NA |
| Fluoride | ug/l | NA | ND | NA | ND | 31.4 | 100 | ND | ND | 179 | ND | NA | NA | NA | NA |

ND - Not Detected
 NA - Not Analyzed
 Qualifiers are in 2nd column

Table E-2. Summary of Selected Groundwater Results for the Top of Rock Wells, Owens Corning, Anderson, South Carolina.

| Sample dates | Units | MW-21 | | | | | | | | | | MW-24 | | | | | | | | | | | | | | |
|------------------------------|-------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----|----|
| | | August-93 | December-95 | December-96 | November-97 | December-98 | December-99 | December-00 | November-01 | December-02 | December-03 | December-04 | November-05 | September-93 | December-95 | December-96 | November-97 | December-98 | December-99 | December-00 | November-01 | December-02 | December-03 | December-04 | | |
| Halogenated Alkenes | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tetrafluoroethylene | ug/l | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Hexachloroethene | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethylene | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Vinyl chloride | ug/l | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Halogenated Methanes | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carbon Tetrachloride | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroform | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylene Chloride | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Halogenated Ethanes | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Aromatic Hydrocarbons | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Metals | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arsenic | ug/l | ND | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Barium | ug/l | 1200 | 661 | 260 | 100 | 100 | 130 | 250 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Beryllium | ug/l | 3.3 | 2.2 | 1.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chromium | ug/l | 9.5 | 4 | 2.8 | 1 | 1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Lead | ug/l | 7.9 | 31.7 | 6.7 | ND | ND | ND | 5.8 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Nickel | ug/l | ND | 5.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Fluoride | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fluoride | ug/l | NA | ND | 44.9 | 100 | ND | ND | 180 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

ND = Not Detected

NA = Not Analyzed

Quantities are Not Listed

Table E-2. Summary of Selected Groundwater Results for the Top of Rock Wells, Owens Corning, Anderson, South Carolina.

| Sample dates | Units | TW-42 | | | | TW-46 | | | | | | | |
|------------------------------|-------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|----|----|
| | | December-02 | December-03 | December-04 | November-05 | October-01 | November-01 | December-02 | December-03 | December-04 | November-05 | | |
| Halogenated Alkenes | | | | | | | | | | | | | |
| Tetrachloroethylene | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichloroethylene | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,1-trichloroethane | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Vinyl Chloride | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Halogenated Methanes | | | | | | | | | | | | | |
| Carbon Tetrachloride | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroform | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylene Chloride | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Halogenated Ethanes | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-dichloroethane | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Aromatic Hydrocarbons | | | | | | | | | | | | | |
| Benzene | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Metals | | | | | | | | | | | | | |
| Aluminum | ug/l | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Barium | ug/l | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Beryllium | ug/l | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Chromium | ug/l | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Copper | ug/l | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Lead | ug/l | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Nickel | ug/l | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Zinc | ug/l | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Fluoride | | | | | | | | | | | | | |
| | ug/l | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

ND - Not Detected
 NA - Not Analyzed
 Squares are Not Lined

Table E-3. Summary of Selected Groundwater Results for Bedrock Wells, Owens Corning, Anderson, South Carolina.

| Parameter | Units | MW-22 | | | | | | | | | | MW-27 | | | | | | | | | | | | | |
|------------------------------|-------|-----------|-------------|-------------|-------------|-------------|-------------|--------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|--------|-------------|-------------|-------------|-------------|-----|-----|
| | | August-93 | December-95 | December-96 | December-98 | December-99 | December-00 | Nov-01 | December-02 | December-03 | December-04 | November-05 | September-93 | December-95 | December-96 | December-98 | December-99 | December-00 | Nov-01 | December-02 | December-03 | December-04 | November-05 | | |
| Halogenated Alkenes | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tetra chloroethylene | ug/l | ND | ND | 3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichloroethylene | ug/l | NA | NA | 7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethylene | ug/l | ND | 400 | ND | ND | 566 | 566 | 480 | 300 | 310 | 300 | 300 | 300 | 310 | 300 | 300 | 310 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 |
| Vinyl Chloride | ug/l | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Halogenated Methanes | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carbon Tetrachloride | ug/l | 18 | 26 | 40 | 21 | 24.2 | 24.2 | 21.9 | 12 | 14 | 12 | 12 | 12 | 14 | 12 | 12 | 14 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Chloroform | ug/l | ND | ND | 11 | 12 | 11.4 | 12.9 | 12.7 | 10 | 11 | 10 | 10 | 11 | 11 | 10 | 10 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Methylene Chloride | ug/l | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Halogenated Ethanes | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/l | ND | ND | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | ug/l | ND | ND | 5 | ND | 5 | 5.7 | 4.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Aromatic Hydrocarbons | | | | | | | | | | | | | | | | | | | | | | | | | |
| benzene | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Metals | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arsenic | ug/l | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Boron | ug/l | 78.5 | 81.9 | 80 | 80 | 92 | 100 | 96 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Iron | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Vanadium | ug/l | ND | 1.5 | 1.0 | ND | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Lead | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Nickel | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Fluoride | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fluoride | ug/l | ND | ND | 38.1 | 1.0 | ND | ND | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

ND - Not Detected
NA - Not Analyzed

Table E-3. Summary of Selected Groundwater Results for Bertrick Wells, Owens Corning, Anderson, South Carolina.

| Parameter | Units | MW-29R | | Alloy | | | | | | | | | | Gladden | | | | | |
|------------------------------|-------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|--------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|
| | | December-04 | November-05 | September-93 | December-95 | December-96 | November-97 | December-98 | December-99 | December-00 | Nov-01 | December-02 | December-03 | December-04 | November-05 | September-93 | December-96 | November-97 | December-98 |
| Halogenated Alkenes | | | | | | | | | | | | | | | | | | | |
| Tetrachloroethylene | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichloroethylene | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethylene | ug/l | 2.0 | 95 | 1.2 | 1.2 | 1.2 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2 | ND | ND |
| Vinyl Chloride | ug/l | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND |
| Halogenated Methanes | | | | | | | | | | | | | | | | | | | |
| Carbon Tetrachloride | ug/l | 12 | 3.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroform | ug/l | 11 | 3.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylene Chloride | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 9.7 |
| Halogenated Ethanes | | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Aromatic Hydrocarbons | | | | | | | | | | | | | | | | | | | |
| Benzene | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Metals | | | | | | | | | | | | | | | | | | | |
| Arsenic | ug/l | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Barium | ug/l | NA | NA | 1100 | 216 | 160 | 50 | 40 | 88 | 65 | 77 | NA | NA | NA | NA | NA | 43.4 | 200 | 40 |
| Beryllium | ug/l | NA | NA | 3.1 | 1.1 | 1.7 | ND | ND | ND | ND | ND | NA | NA | NA | NA | NA | ND | ND | ND |
| Chromium | ug/l | NA | NA | 22 | 4 | 3.6 | 3 | 2 | ND | ND | ND | NA | NA | NA | NA | NA | ND | ND | 1 |
| Cadmium | ug/l | NA | NA | 190 | 34 | 25.9 | 6 | 6 | 7.8 | 5.5 | 5.2 | NA | NA | NA | NA | NA | 6.6 | ND | ND |
| Nickel | ug/l | NA | NA | 28 | 5.6 | ND | 3 | 3 | ND | ND | ND | NA | NA | NA | NA | NA | ND | 1 | 1 |
| Fluoride | ug/l | NA | NA | 370 | ND | 88.3 | 100 | 100 | ND | 230 | ND | NA | NA | NA | NA | NA | 45.3 | 200 | ND |

ND = Non-Detect
 NA = Not Analyzed

Table E.3 Summary of Selected Groundwater Results for Bedrock Wells, Owens Corning, Anderson, South Carolina.

| Parameter | Units | TW-40 | | | | TW-41 | | | | TW-44 | | | |
|------------------------------|-------|------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|
| | | October-01 | November-01 | December-02 | December-03 | December-04 | December-05 | October-01 | November-01 | December-02 | December-03 | December-04 | November-05 |
| Halogenated Alkenes | | | | | | | | | | | | | |
| Tetrachloroethylene | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichloroethylene | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethylene | ug/l | 1.6 | 4.6 | ND | 2.7 | ND | ND | ND | ND | ND | ND | ND | ND |
| Vinyl Chloride | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Halogenated Methanes | | | | | | | | | | | | | |
| Carbon tetrachloride | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroform | ug/l | 11.3 | 2.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylene Chloride | ug/l | 1.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Halogenated Ethanes | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | ug/l | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Aromatic Hydrocarbons | | | | | | | | | | | | | |
| benzene | ug/l | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND |
| Metals | | | | | | | | | | | | | |
| Arsenic | ug/l | NA | ND | NA | ND | NA | NA | NA | NA | NA | NA | NA | NA |
| Boron | ug/l | 1.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Barium | ug/l | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Cadmium | ug/l | 1.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Chromium | ug/l | 0.4 | NA | NA | 11 | NA | NA | NA | NA | NA | NA | NA | NA |
| Cobalt | ug/l | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Copper | ug/l | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Fluoride | ug/l | 1.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

ND = Not Detected
 NA = Not Analyzed

APPENDIX D: MANN-KENDELL TEST RESULTS

BROWN AND CALDWELL

D

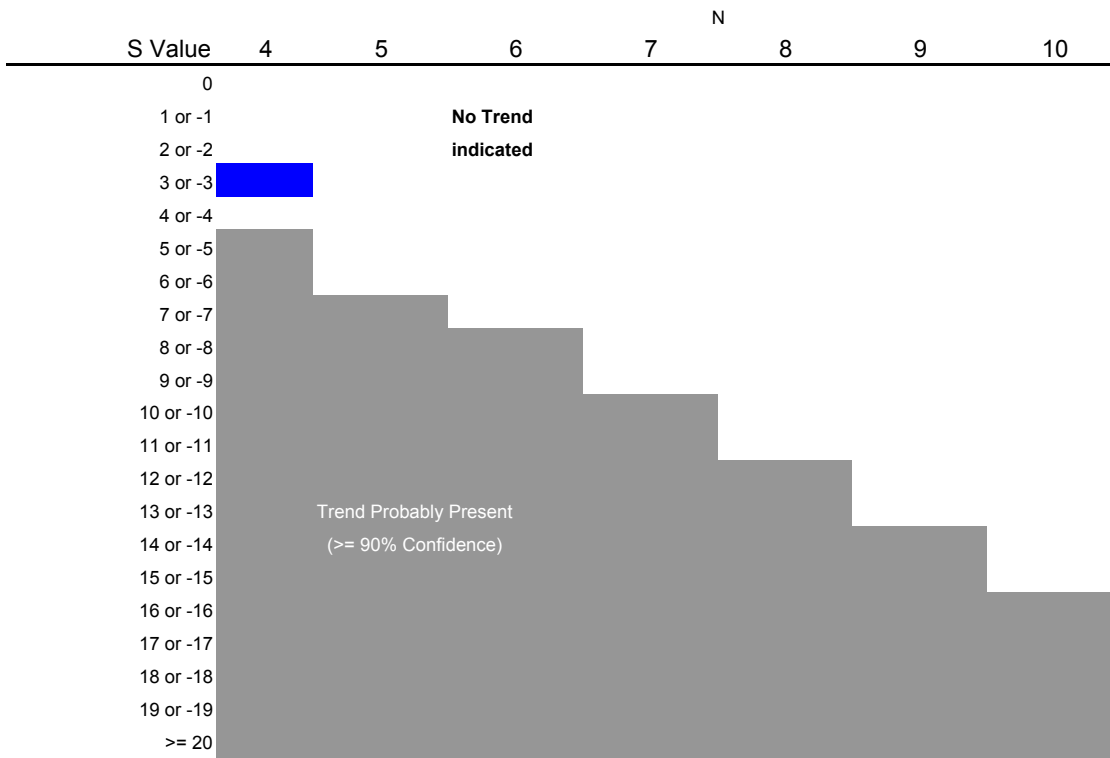
DCE - MW-27

| $\mu\text{g/L}$ | Nov-06 | Nov-07 | Nov-08 | Nov-09 | |
|--------------------------|--------|--------|--------|--------|----|
| | 180 | 200 | 120 | 120 | |
| Row 3: Compare to Nov-06 | | 1 | -1 | -1 | -1 |
| Row 4: Compare to Nov-07 | | | -1 | -1 | -2 |
| Row 5: Compare to Nov-08 | | | | 0 | 0 |
| S | | | | S = | -3 |
| N | | | | N = | 4 |

Mann-Kendall Statistic (S) = Total

Conclusion: No Trend (Stable)

Confidence Level Chart



| Stability Evaluation Results | |
|-----------------------------------|--------------------------|
| Trend present (>= 90% Confidence) | |
| S < 0 | Concentration decreasing |
| S > 0 | Concentration Increasing |

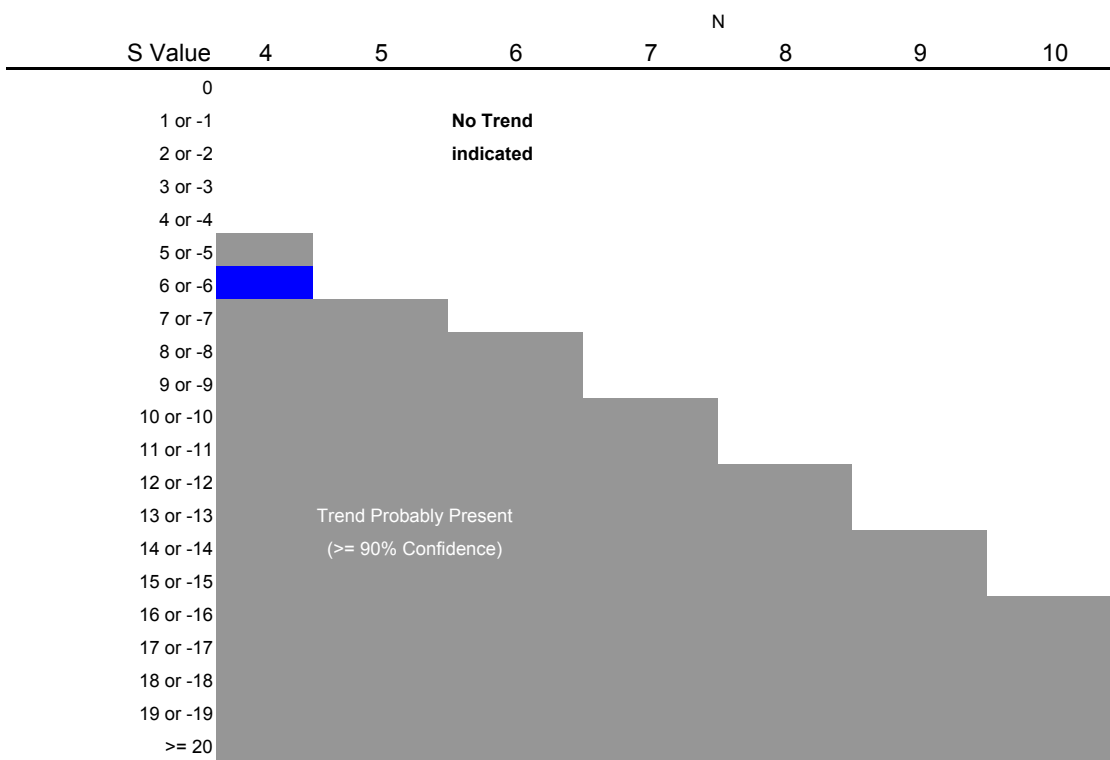
DCE - MW-35

| $\mu\text{g/L}$ | Feb-09 | May-09 | Aug-09 | Nov-09 | |
|--------------------------|--------|--------|--------|--------|--------|
| | 550 | 500 | 470 | 340 | |
| Row 3: Compare to Feb-09 | | -1 | -1 | -1 | -3 |
| Row 4: Compare to May-09 | | | -1 | -1 | -2 |
| Row 5: Compare to Aug-09 | | | | -1 | -1 |
| S | | | | | S = -6 |
| N | | | | | N = 4 |

Mann-Kendall Statistic (S) = Total

Conclusion: Decreasing Trend

Confidence Level Chart



Stability Evaluation Results

Trend present (>= 90% Confidence)

S < 0 Concentration decreasing

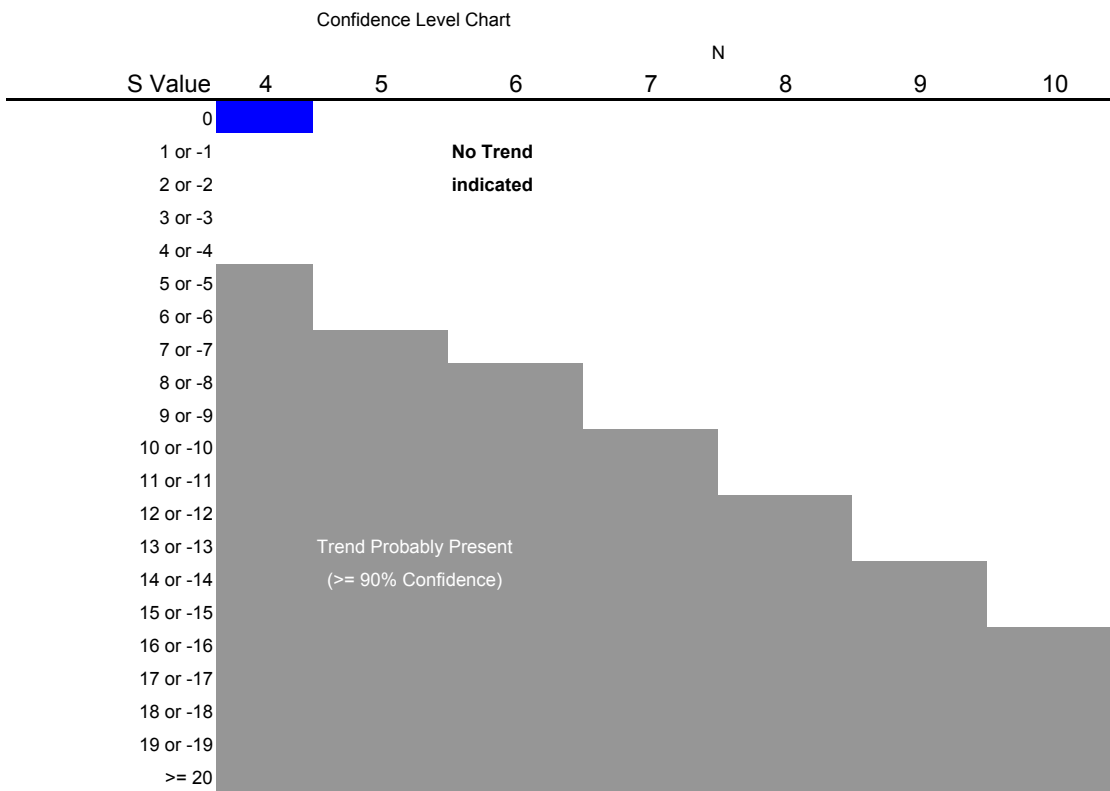
S > 0 Concentration Increasing

DCE - MW-37 Zone 1

| $\mu\text{g/L}$ | Feb-09 | May-09 | Aug-09 | Nov-09 | |
|--------------------------|--------|--------|--------|--------|----|
| | 8.3 | 72 | 5.5 | 20 | |
| Row 3: Compare to Feb-09 | | 1 | -1 | 1 | 1 |
| Row 4: Compare to May-09 | | | -1 | -1 | -2 |
| Row 5: Compare to Aug-09 | | | | 1 | 1 |
| S | | | | S = | 0 |
| N | | | | N = | 4 |

Mann-Kendall Statistic (S) = Total

Conclusion: No Trend (Stable)



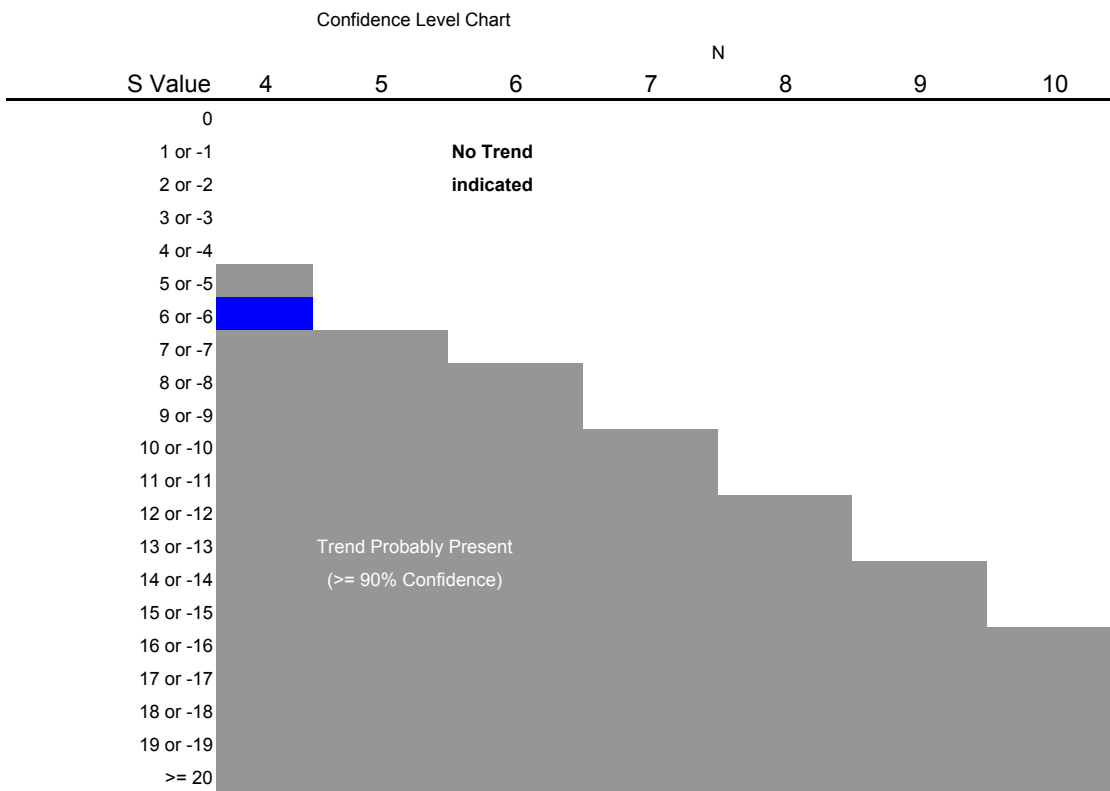
| Stability Evaluation Results | |
|-------------------------------------|--------------------------|
| Trend present (>= 90% Confidence) | |
| S < 0 | Concentration decreasing |
| S > 0 | Concentration Increasing |

DCE - MW-37 Zone 2

| $\mu\text{g/L}$ | Feb-09 | May-09 | Aug-09 | Nov-09 | |
|--------------------------|--------|--------|--------|--------|--------|
| | 370 | 290 | 200 | 180 | |
| Row 3: Compare to Feb-09 | | -1 | -1 | -1 | -3 |
| Row 4: Compare to May-09 | | | -1 | -1 | -2 |
| Row 5: Compare to Aug-09 | | | | -1 | -1 |
| S | | | | | S = -6 |
| N | | | | | N = 4 |

Mann-Kendall Statistic (S) = Total

Conclusion: Decreasing Trend



| Stability Evaluation Results | |
|-----------------------------------|--------------------------|
| Trend present (>= 90% Confidence) | |
| S < 0 | Concentration decreasing |
| S > 0 | Concentration Increasing |

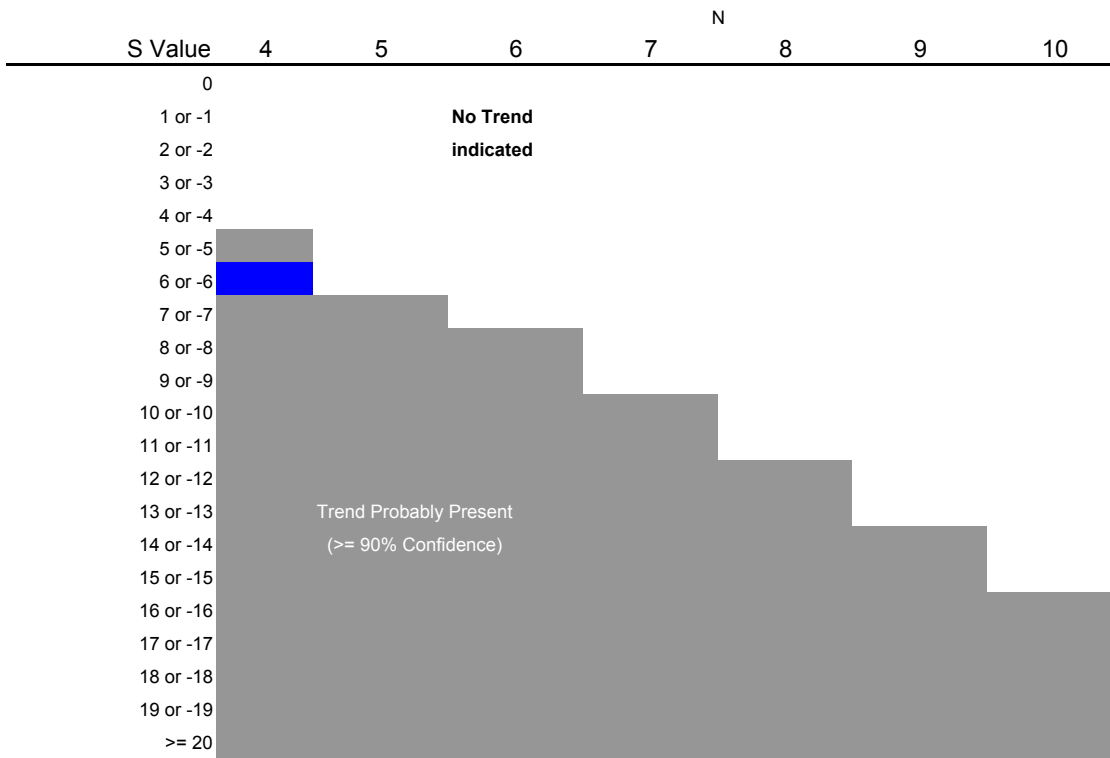
DCE - MW-37 Zone 3

| $\mu\text{g/L}$ | Feb-09 | May-09 | Aug-09 | Nov-09 | |
|--------------------------|--------|--------|--------|--------|--------|
| | 11 | 7.4 | 6.8 | 4.8 | |
| Row 3: Compare to Feb-09 | | -1 | -1 | -1 | -3 |
| Row 4: Compare to May-09 | | | -1 | -1 | -2 |
| Row 5: Compare to Aug-09 | | | | -1 | -1 |
| S | | | | | S = -6 |
| N | | | | | N = 4 |

Mann-Kendall Statistic (S) = Total

Conclusion: Decreasing Trend

Confidence Level Chart



| Stability Evaluation Results | |
|-----------------------------------|--------------------------|
| Trend present (>= 90% Confidence) | |
| S < 0 | Concentration decreasing |
| S > 0 | Concentration Increasing |