

2016 Semiannual Groundwater Monitoring Report

Prepared for
Owens Corning
Anderson, South Carolina
July 28, 2016

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List of Abbreviations

| | | | |
|-------------|---|---------------|---|
| 1,1-DCA | 1,1-dichloroethane | TCE | trichloroethene |
| 1,2-DCA | 1,2-dichloroethane | trans-1,2-DCE | trans-1,2-dichloroethene |
| 1,1-DCE | 1,1-dichloroethene | U.S. EPA | United States Environmental Protection Agency |
| 1,1,1-TCA | 1,1,1-trichloroethane | VOC | volatile organic compound |
| AES | Analytical Environmental Services, Inc. | Waterloo | Solinst Waterloo Multilevel Groundwater Monitoring System |
| bgs | below ground surface | | |
| btoc | below top of casing | | |
| cis-1,2-DCE | cis-1,2-dichloroethene | | |
| COC | constituent of concern | | |
| DO | dissolved oxygen | | |
| EB | equipment blank | | |
| ft | feet or foot | | |
| gpm | gallons per minute | | |
| ICM | Interim Corrective Measures | | |
| µg/L | micrograms per liter | | |
| MCL | maximum contaminant level | | |
| NAVD88 | North American Vertical Datum of 1988 | | |
| ORP | oxidation-reduction potential | | |
| PCE | tetrachloroethene | | |
| QA/QC | quality assurance/quality control | | |
| RCRA | Resource Recovery and Conservation Act | | |
| RFI | RCRA Facility Investigation | | |
| RL | reporting limit | | |
| SCDHEC | South Carolina Department of Health and Environmental Control | | |
| SESDPROC | Science and Ecosystem Support Division Groundwater Sampling Procedure | | |
| SWMU | Solid Waste Management Unit | | |
| SOP | standard operating procedure | | |

Professional Geologist Certification

The 2016 Semiannual 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.



Reinhard Ruhmke, P.G.
Managing Geologist
South Carolina Professional Geologist #2469

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Date



Section 1

Introduction

This 2016 Semiannual Groundwater Monitoring Report (Report) was prepared by Brown and Caldwell on behalf of the Owens Corning Anderson (Owens Corning), South Carolina facility for submittal to the United States Environmental Protection Agency (U.S. EPA) in accordance with the October 1989 Consent Order (89-34-R) with the U.S. EPA under Section 3008(h) of the Resource Recovery and Conservation Act (RCRA). This Report summarizes the February and May 2016 quarterly groundwater monitoring events and the May 2016 semiannual residential well monitoring event. The Consent Order requires that Owens Corning perform annual groundwater monitoring, and in 2005, the U.S. EPA required that quarterly groundwater monitoring be conducted for select bedrock wells (MW-15, MW-22, and MW-29R) located in the Northeast Area. Since that time, additional bedrock monitoring wells (MW-35, MW-36, MW-37, MW-38, MW-39, MW-41, MW-42, MW-43 and MW-44) have been installed and were included in the two quarterly monitoring events reported herein. In 2009, U.S. EPA required Owens Corning to conduct semiannual monitoring of select residential wells located northeast of the Site.

Section 1 of this Report presents an introduction and Section 2 summarizes the well sampling activities, procedures and analytical methods and includes detailed information on Site hydrogeology and aquifer characteristics. Section 3 provides and discusses the analytical results and Section 4 provides conclusions. Appendices to this document contain the groundwater sampling field forms, laboratory analytical reports and historical groundwater data.

The Owens Corning facility is situated on approximately 160 acres of land located at 4837 Highway 81 South in Starr, South Carolina within Anderson County (Site). As shown on Figure 1, the property is bounded to the west by Highway 81 South, True Temper Road to the north, Keys Street to the east, and Harry Drive to the south. Over time Owens Corning has acquired additional properties located adjacent to or near the northeast corner of the original plant property. These properties are also shown on Figure 1 and include the northwest and southeastern corners of the intersection of Keys Street and True Temper Road, and the former Hall Property located to the north of True Temper Road and along Betsy Creek. The facility is located approximately 4 miles south of the town of Anderson.

The facility 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 the U.S. EPA and the South Carolina Department of Health and Environmental Control (SCDHEC).

Section 2

Groundwater Assessment

Brown and Caldwell personnel performed the first and second quarter groundwater monitoring events between February 22 and 24, 2016, and May 9 and 12, 2016, respectively. The semiannual residential well sampling event was also conducted on May 12, 2016. This Section provides an overview of the quarterly monitoring activities and semiannual residential well sampling activities and includes information on Site hydrogeology and aquifer characteristics, groundwater 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 beneath the Site ranges from approximately 5 to 100 feet (ft). The primary lineaments and fracture zones beneath 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, 2009), which was prepared by Brown and Caldwell on behalf of Owens Corning for submittal to the U.S. EPA.

2.2 Aquifer Characteristics

At the Site, groundwater is present in both the overburden/saprolite unit and the bedrock unit. Water level measurements were collected from 34 and 35 wells during the February and May 2016 quarterly monitoring events, respectively. The water levels for both events are provided in Tables 1 and 2, respectively. Refer to Figure 1 (Site Map) to identify well locations. The water level measurements were used to calculate groundwater elevations and prepare potentiometric maps for the overburden and bedrock aquifers for the February (Figures 2 through 6) and May (Figures 7 through 11) 2016 monitoring events. Well construction information is provided in Table 3.

Based on the monitoring well measurements from February 2016, groundwater levels in the overburden aquifer ranged from 3.90 (MW-11) to 21.90 (TW-46) feet (ft) below top of casing (btoc) and from 776.32 to 794.68 ft in elevation [North American Vertical Datum of 1988 (NAVD88)]. Measurements from the same time period taken from wells in the bedrock aquifer exhibit heads ranging from 0.05 ft above the top of the casing (MW-38 Zone 2) to 48.50 ft btoc (MW-39 Zone 3) and from 771.23 to 757.70 ft in elevation (NAVD88). In May 2016, the groundwater levels in the overburden aquifer ranged from 5.17 (MW-11) to 22.97 (TW-46) ft btoc and from 775.05 to 793.61 ft in elevation (NAVD88). Measurements from wells in the bedrock aquifer exhibit hydraulic heads ranging from 0.50 ft above top of casing (MW-38 Zone 2) to 50.41 ft btoc (MW-39 Zone 3) and from 771.68 to 755.79 ft in elevation (NAVD88). The variation in head in the bedrock aquifer is highly dependent on both the elevation and the presence of bedrock fractures relative to the wells' screened interval.

Based on the February 2016 data, onsite groundwater in both the overburden and bedrock aquifers flows toward the fracture zones associated with Betsy Creek, giving an east-northeasterly gradient. This is

consistent with the historical groundwater flow direction with the exception that groundwater from solid waste management unit (SWMU)-9 was previously shown flowing more to the north than the northeast. Measurements from the bedrock aquifer wells offsite indicate that flow direction continues to align with Betsy Creek as the stream turns toward the north-northeast in the area of MW-35. The magnitude of the horizontal gradient onsite varies depending on the aquifer and fracture zone. Based on the May 2016 data, calculated horizontal gradients are as follows: 0.0159 feet/foot (ft/ft) in the overburden (calculated between MW-21 and MW-23); 0.0148ft/ft in the bedrock aquifer in the 699 to 740 feet (NAVD88) zone (calculated between MW-27 and MW-41 Zone 1); 0.0246 ft/ft in the bedrock aquifer in the 632 to 699 feet (NAVD88) zone (calculated between MW-15 and MW-22); 0.0115 ft/ft in the bedrock aquifer in the 574 to 630 feet (NAVD88) zone (calculated between MW-19 and MW-41 Zone 2); 0.0109 ft/ft in the and bedrock aquifer in the 430 to 530 feet (NAVD88) zone (calculated between MW-37 Zone 3 and MW-41 Zone 3). The following vertical gradients were also observed during the May 2016 event: a downward gradient of 0.0325 ft/ft across the overburden/bedrock aquifer (calculated between MW-12 and MW-19); and an upward gradient of 0.0174 ft/ft at the intersection of Keys Street and True Temper Road across the overburden/bedrock aquifer (calculated between MW-21 and MW-38 Zone 2).

The interim corrective measures bedrock hydraulic containment system started up on November 3, 2011. The system currently pumps groundwater from one (EW-1) of two bedrock extraction wells. EW-1 is located approximately 250 ft north of the intersection between Keys Street and True Temper Road (Figure 1) and has total depth of 450 ft below ground surface (bgs). The pump intake is at 425 ft bgs and currently withdraws groundwater at a rate of approximately 29.4 gallons per minute (gpm). Additional information regarding the interim corrective measures system was reported in the *Q1 2016 –Interim Corrective Measures Performance Monitoring Report* that was submitted to the U.S. EPA and SCDHEC in May 2016. At some point the second extraction well, EW-2, may be used depending on the performance of extraction well EW-1. The overburden aquifer was unaffected by the active pumping of extraction well EW-1 as a surface casing was installed. However, due to the pumping associated with the hydraulic containment system, varying amounts of drawdown were observed in bedrock wells in the vicinity of EW-1. The amount of drawdown is dependent on the interconnectivity between the fracture system in the bedrock zone in which the wells are screened and the fracture system in the open borehole extraction well, EW-1. The distribution of drawdown within the bedrock system was used to aid in developing the bedrock groundwater potentiometric surfaces presented on Figures 3 through 6 and 8 through 11.

2.3 Groundwater Monitoring Wells

The quarterly groundwater monitoring program includes 12 bedrock monitoring wells (MW-15, MW-22, MW-29R, MW-35, MW-36, MW-37, MW-38, MW-39, MW-41, MW-42, MW-43, and MW-44) and is sufficient to monitor for any changes in the plume. As previously discussed, MW-33 has been removed from the quarterly and annual groundwater monitoring program because it was converted to groundwater extraction well EW-1 for the interim corrective measures (ICM) hydraulic containment system and MW-34 is no longer operational and therefore, is not part of the quarterly and annual groundwater monitoring program. Refer to Table 3 for the well construction details and monitoring frequency of each of the wells, and Figure 1 for the well locations. Multiple water-bearing zones were gauged and sampled in bedrock wells MW-29R, MW-36, MW-37, MW-38, MW-39, MW-41, MW-42 and MW-43 (Tables 1 and 2).

2.4 Groundwater Sampling Procedures

On February 22 and May 9, 2016, depth to groundwater measurements were collected from the 12 bedrock monitoring wells of which eight have multiple water bearing zones. Water levels were also measured in monitoring wells: MW-3, MW-4, MW-6, MW-11 through MW-14, MW-16, MW-19, MW-21, MW-23, MW-25, MW-26, MW-27, P1, P2, Alloy, TW-40, TW-41, TW-42, TW-43, TW-44, and TW-46. 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 monitoring events. Prior to collecting groundwater samples from the wells, the wells were purged using a low-flow submersible electric pump and/or bladder pump. The Solinst Waterloo Multilevel Groundwater Monitoring System (Waterloo) 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 gpm through dedicated Teflon-lined tubing equipped with a field-calibrated, in-line YSI® 556 meter to measure field parameters: pH, temperature, specific conductance, oxidation-reduction potential (ORP), and dissolved oxygen (DO). Turbidity was measured using a HF® Scientific DRT-15CE turbidity meter. Purging was considered complete when at least three of the field parameters had stabilized. Groundwater samples were collected when pH, temperature and specific conductance had stabilized as defined in U.S. EPA's Science and Ecosystem Support Division Groundwater Sampling Procedure (SESDPROC-301-R3), March 2013. 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 approximately 4 degrees Celsius (temperatures verified by laboratory and are reported in the laboratory analytical report in Appendix B). Clean sample containers were provided by the analytical laboratory. 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.

2.5 Residential Well Sampling Procedures

The semiannual residential well sampling event was conducted concurrently with the May 2016 quarterly sampling event. A total of 8 residential wells were sampled (Figure 12). The residential wells were sampled in accordance with methods described in U.S. EPA's Field Branches Quality System and Technical Procedures. The residential wells located at 134 Friendship Lane, 311 Kaye Drive, 115 Elrod Road, 335 Elrod Road, 408 Clinkscales Road, 1303 Clinkscales Road and 605 Clinkscales Road were not sampled due to inoperable pumps. Wells that pumped into a holding tank were purged of at least one tank volume (generally 15 to 20 gallons) prior to sampling. After purging, the samples were collected at a low flow rate from the spigot connected to the holding tank. Wells that did not utilize a holding tank were also purged of approximately 15 to 20 gallons and sampled directly from the well head. Water quality parameters pH, conductivity, temperature, DO, ORP, and turbidity were measured during purging and recorded on groundwater sampling forms which are included in Appendix A. 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).

Once the analytical data were validated (Section 2.7), a letter documenting the results for each well owner was prepared and mailed to each well owner by Brown and Caldwell.

2.6 Analytical Procedures

Groundwater and residential well samples were submitted to Analytical Environmental Services, Inc. (AES) of Atlanta, Georgia for analysis of the focused list of volatile organic compounds (VOCs) using U.S. 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-dichloroethene (cis-1,2-DCE); trans-1,2-dichloroethene (trans-1,2-DCE); vinyl chloride; carbon tetrachloride; chloroform; methylene chloride; benzene; toluene; ethylbenzene and xylenes.

2.7 Quality Assurance/Quality Control

The groundwater sampling was performed in accordance with U.S. EPA's Groundwater Sampling Standard Operating Procedure (SOP) (SESDPROC-301-R3), March 2013. 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. Two duplicate samples were collected during both the February and May sampling events. An evaluation of the analytical results for the duplicate samples showed that the reported constituents and concentrations were similar. Three equipment blanks (EBs) were collected during both the February and May sampling to determine the efficacy of non-dedicated equipment decontamination activities. The EB samples were obtained by collecting distilled water passed through or over decontaminated equipment. Trip blanks, provided by AES, were in all coolers and were submitted for analysis with the groundwater samples. The EB and trip blank samples were analyzed for the same constituents as the groundwater samples. No detections were found in any of the EB or trip blank samples. The analytical reports for these samples are provided in Appendix B.

Following laboratory analysis, data validation was performed by BC to ensure that the generated data were of acceptable quality such that appropriate decisions could be made. Data validation included a quality control review of the field and laboratory generated data and intended to answer questions such as:

- Were field procedures, including sample collection, handling and storage properly followed?
- Do the reported data include all requested analytical results for all samples collected?
- Were the correct analytical methods used and reported?
- Are there any anomalous results?
- Were results for quality assurance/quality control (QA/QC) samples acceptable?

Validation for the groundwater data was performed and included a review of field notes, sample holding times, blank contamination, spike recoveries, and duplicate precision; it also included qualifying the data, if problems were found. According to the data validation process, all groundwater data are usable. Estimated values are identified in data tables by the appropriate qualifiers.

Section 3

Analytical Results

The following section includes the results for the February and May 2016 quarterly groundwater events and the May 2016 semiannual residential well monitoring event. The quarterly events included collecting groundwater samples from nine bedrock wells located on the northeast portion of the Owens Corning property (including MW-15, MW-22, MW-29R, MW-35, MW-36, MW-37, MW-38, MW-39 and MW-44), and three offsite bedrock wells (MW-41, MW-42 and MW-43). During the May 2016 sampling event, groundwater samples were collected from eight residential wells.

The February and May 2016 groundwater analytical results are summarized in Tables 4 and 5, respectively. The May 2016 residential well analytical results are summarized in Table 6. Historical groundwater analytical data can be found in previous reports submitted to U.S. EPA. Laboratory analytical reports that include method detection limits and QA/QC information are provided in Appendix B.

Based on historical and recent Site monitoring data, 1,1-DCE is the primary constituents detected in groundwater. One analytical parameter, 1,1-DCE, was selected for presentation on isoconcentration contour maps for the February and May events as shown on Figures 13 through 20. This analyte was selected because it is the most prevalent and widespread analyte detected in the bedrock wells.

3.1 Groundwater Analytical Results

To understand the distribution of 1,1-DCE, isoconcentration maps were created for multiple vertical intervals within the fractured bedrock. The projected distribution of 1,1-DCE over the vertical intervals from 699 ft to 740 ft, 632 ft to 699 ft, 574 ft to 630 ft, and 430 ft to 530 ft (NAVD88) for the February and May 2016 events are presented on Figures 13 through 16 and Figures 17 through 20, respectively. Assuming that 1,1-DCE entered the top of bedrock near SWMU-9, the axis of the plume, consistent with the groundwater flow direction and local bedrock fracture patterns as identified in the Bedrock Geologic Map of the Little Mountain Area Anderson South Quadrangle (Soricelli et al., 2003) is oriented to the north-northeast. Refer to the *Supplemental RCRA Facility Investigation Report* (Brown and Caldwell, 2009) for a more detailed review of these figures.

In February and May 2016, the concentration of 1,1-DCE in well MW-15 showed a slight increase over the first two quarterly monitoring events from 160 micrograms per liter ($\mu\text{g/L}$) in February to 180 $\mu\text{g/L}$ in May.

Concentrations of 1,1-DCE in well MW-29R Zone 3 and Zone 4 showed increases over the first two quarterly monitoring events conducted in 2016. In Zone 3, the 1,1-DCE concentration was 140 $\mu\text{g/L}$ in February and 240 $\mu\text{g/L}$ in May. In Zone 4, the concentration was 130 $\mu\text{g/L}$ in February and 220 $\mu\text{g/L}$ in May. Farther downgradient (north) of MW-29R, 1,1-DCE has not been detected in groundwater above maximum contaminant levels (MCLs) in any of the three MW-36 zones during the quarterly monitoring events since it was installed in 2008. During the May 2016 sampling event, MW-36 Zone 5 was not sampled due to an insufficient amount of water in the zone.

During February and May 2016, the 1,1-DCE concentration in MW-37 Zone 1 showed a slight decrease while Zone 2 showed slight increases. In Zone 1, the 1,1-DCE concentration decreased from 96 $\mu\text{g/L}$ in February to 73 $\mu\text{g/L}$ in May. Concentrations of 1,1-DCE in Zone 2 increased from 160 $\mu\text{g/L}$ in February to 290 $\mu\text{g/L}$ in May. The 1,1-DCE concentration in MW-37 Zone 3 was below the laboratory reporting limit (RL) in both February and May sampling events. Bedrock well MW-38 is comprised of a cluster of two wells to isolate

Zone 1 and Zone 2. MW-38 Zone 1 and 2 were below the RL in both sampling events. Bedrock well MW-39 was installed during the summer of 2010, southeast of MW-37, to laterally delineate 1,1-DCE. No VOCs, including 1,1-DCE, were detected above laboratory RLs during the February and May monitoring events in groundwater collected from MW-39 (Tables 4 and 5). Accordingly, delineation of the south edge of the plume is complete; this has been the case since MW-39 was installed in 2010.

MW-35, located northeast of the intersection of True Temper Road and Keys Streets, showed a slight increase in 1,1-DCE concentrations, with 45 µg/L in February and 50 µg/L in May. Bedrock wells MW-41 and MW-42 were installed during the summer of 2010 to delineate 1,1-DCE in the Northeast Area and added to the monitoring program. Both wells consist of nested wells, such that three independent zones could be sampled. For MW-41, the 1,1-DCE concentrations from February to May in Zone 1 decreased (150 µg/L and 130 µg/L), Zone 2 concentrations were 180 µg/L and 190 µg/L, and Zone 3 concentrations were 20 µg/L and 17 µg/L. Bedrock wells MW-42 and MW-43 are currently the farthest wells from the Site in the northeast direction. MW-42 is located northeast of MW-35 and MW-43 is located due north of MW-35. During the February and May monitoring events, no VOCs were detected above MCLs in groundwater collected from these two wells. Therefore, the plume has been delineated to the northeast; this has been the case since MW-43 was installed in 2011.

The only other constituent of concern (COC) detected above its MCL of 5 µg/L in the bedrock wells was carbon tetrachloride. This COC has been detected previously and was detected in MW-22, MW-29R Zones 3 and 4, and MW-37 Zone 2 during the February and May monitoring events. The maximum detected concentration of carbon tetrachloride in bedrock wells was in MW-22 at 22 µg/L in May. No other parameters from the focused list of VOCs were detected above MCLs in the bedrock well samples.

3.2 Residential Well Analytical Results

None of the parameters from the focused list of VOCs were detected above RLs in the residential well samples. All residential well analytical results are included in Table 6. Locations of the residential wells are provided on Figure 12, with the corresponding well location map ID's provided in Table 7. Laboratory analytical reports that include method detection limits and QA/QC information are provided in Appendix B.

Section 4

Summary and Conclusions

The first and second quarterly groundwater monitoring events for 2016 were conducted at the Owens Corning Site in February and May 2016, respectively. Samples were collected from 12 bedrock wells during the February and May events and from 8 residential wells during the May event. The samples were analyzed for the focused list of VOCs. Multiple water-bearing zones were sampled in bedrock wells MW-29R, MW-36, MW-37, MW-38, MW-39, MW-41, MW-42 and MW-43.

The following conclusions were developed based on the data collected during the quarterly monitoring events summarized in this report:

- Based on historical and recent Site monitoring data 1,1-DCE and 1,1,1-TCA are the primary constituents in groundwater, though 1,1-DCE is the primary constituent that persists beyond SWMU-9 and the Site property boundary. Additionally, 1,1-DCE is only found within the bedrock aquifer and not the overburden aquifer beyond the Site property boundary. 1,1,1-TCA was not detected in any of the sampled wells.
- Concentration data obtained from the downgradient Northeast Area bedrock wells reveal that the 1,1-DCE plume in this area has been relatively stable since early 2010.
- In bedrock well MW-35, the 1,1-DCE concentration decreased from 580 µg/L in August 2010 to 50 µg/L in May 2016.
- The 1,1-DCE concentration in bedrock well MW-41 Zone 2 has decreased from 530 µg/L in November 2010 to 190 µg/L in May 2016.
- During the February and May monitoring events, no VOCs were detected above MCLs in groundwater collected from the bedrock wells, MW-36, MW-38, MW-39, MW-42, and MW-43. Monitoring well MW-42 and MW-43 are the farthest monitoring wells located to the north-northeast, and monitoring well MW-39 is the farthest to the southeast. The absence of Site COCs in these wells indicates that delineation remains intact.
- The only other VOC detected in bedrock groundwater samples above its MCL was carbon tetrachloride. Concentrations have generally been below 25 µg/L since early 2010, with the exception of MW-22 where the concentration was 31 µg/L in February 2013. Carbon tetrachloride is being captured by the bedrock hydraulic containment system and it is effectively removed from the groundwater during treatment and prior to discharge into Betsy Creek.
- The 1,1-DCE plume has been delineated and is relatively stable. Since startup of the ICM system in November 2011, significant reduction has occurred in the 1,1-DCE concentrations in the Northeast Area, specifically in wells MW-35 and MW-41 Zone 2.

The next quarterly monitoring event is planned for August 2016, followed by the annual monitoring event and the semiannual residential well sampling event in November 2016.

Section 5

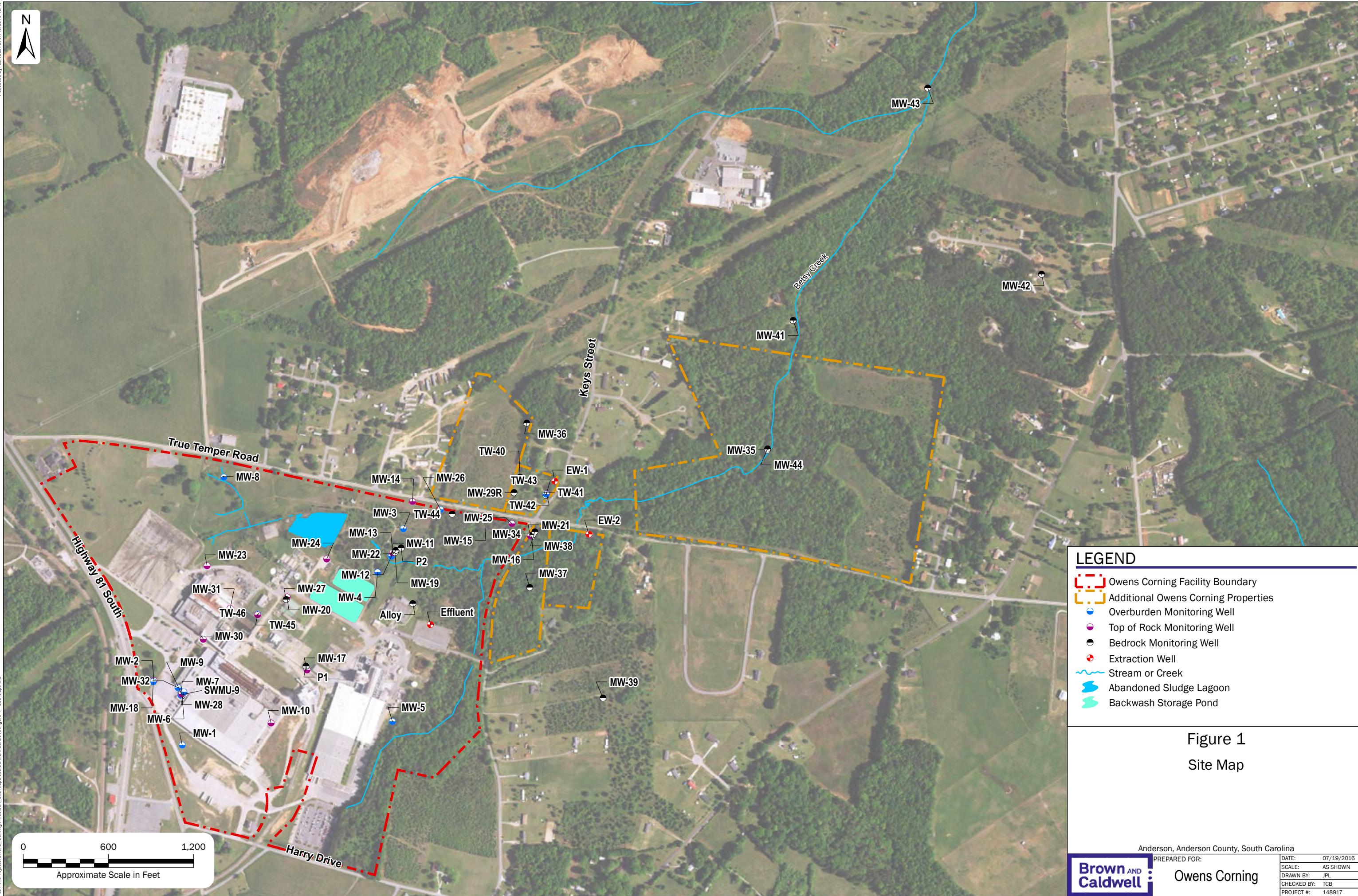
Limitations

This document was prepared solely for Owens Corning in accordance with professional standards at the time the services were performed and in accordance with the contract between Owens Corning and Brown and Caldwell dated January 30, 2016. This document is governed by the specific scope of work authorized by Owens Corning; it is not intended to be relied upon by any other party except for regulatory authorities contemplated by the scope of work. We have relied on information or instructions provided by Owens Corning and other parties and, unless otherwise expressly indicated, have made no independent investigation as to the validity, completeness, or accuracy of such information.

Section 6

References

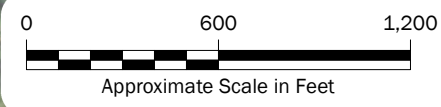
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- United States Environmental Protection Agency. 2013. *Groundwater Sampling Operating Procedure (SESDFPROC-301-R3)*.



LEGEND

- Owens Corning Facility Boundary
- Additional Owens Corning Properties
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Stream or Creek
- Abandoned Sludge Lagoon
- Backwash Storage Pond

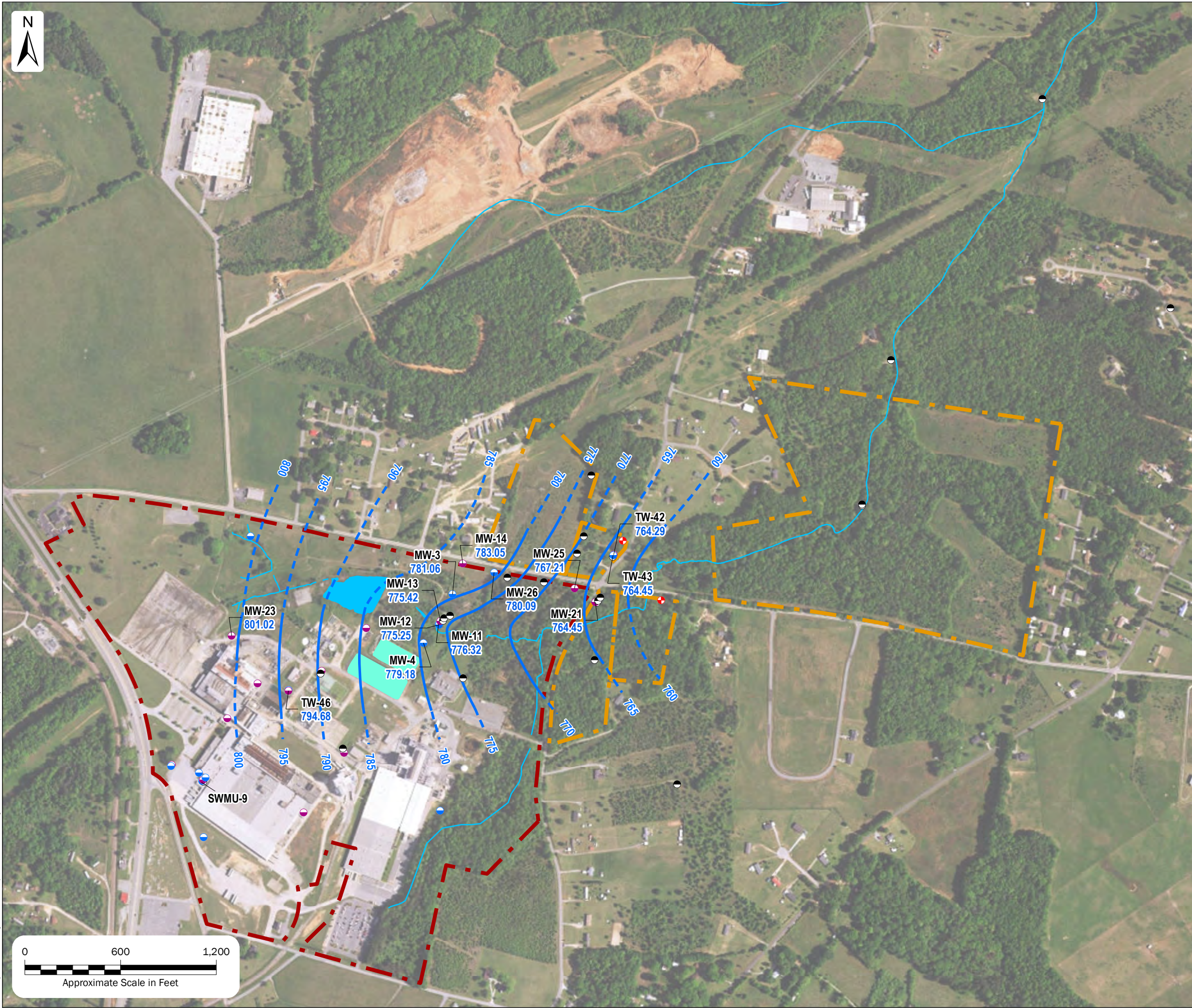
Figure 1
Site Map



Anderson, Anderson County, South Carolina

Brown AND Caldwell PREPARED FOR: **Owens Corning**

| | |
|-------------|------------|
| DATE: | 07/19/2016 |
| SCALE: | AS SHOWN |
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| PROJECT #: | 148917 |



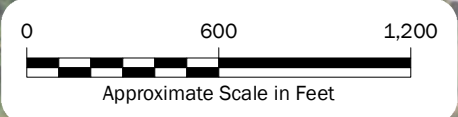
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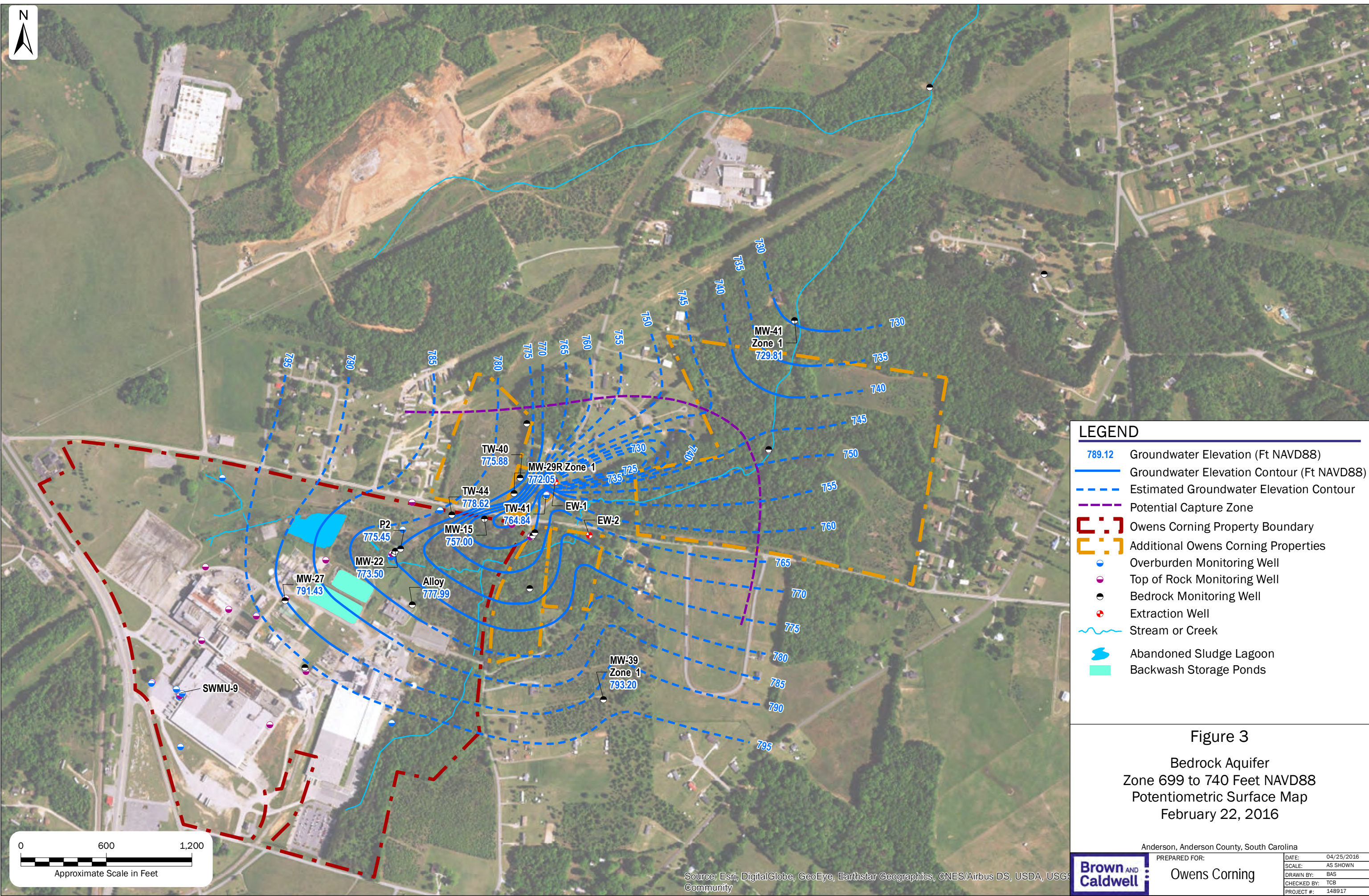
- 789.12 Groundwater Elevation (Ft NAVD88)
- Groundwater Elevation Contour (Ft NAVD88)
- - - Estimated Groundwater Elevation Contour
- [Red Dashed Box] Owens Corning Facility Boundary
- [Orange Dashed Box] Additional Owens Corning Properties
- [Blue Circle] Overburden Monitoring Well
- [Pink Circle] Top of Rock Monitoring Well
- [Black Circle] Bedrock Monitoring Well
- [Red Circle] Extraction Well
- [Blue Wavy Line] Stream or Creek
- [Light Blue Area] Abandoned Sludge Lagoon
- [Green Area] Backwash Storage Ponds

Figure 2
 Overburden / Saprolite
 Potentiometric Surface Map
 February 22, 2016

Anderson, Anderson County, South Carolina

| | | |
|---------------------------|---------------|---------------|
| Brown AND Caldwell | PREPARED FOR: | Owens Corning |
| | DATE: | 04/25/2016 |
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| | CHECKED BY: | TCB |
| | PROJECT #: | 148917 |

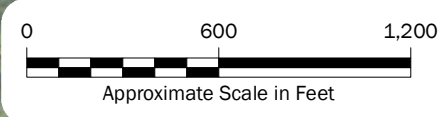


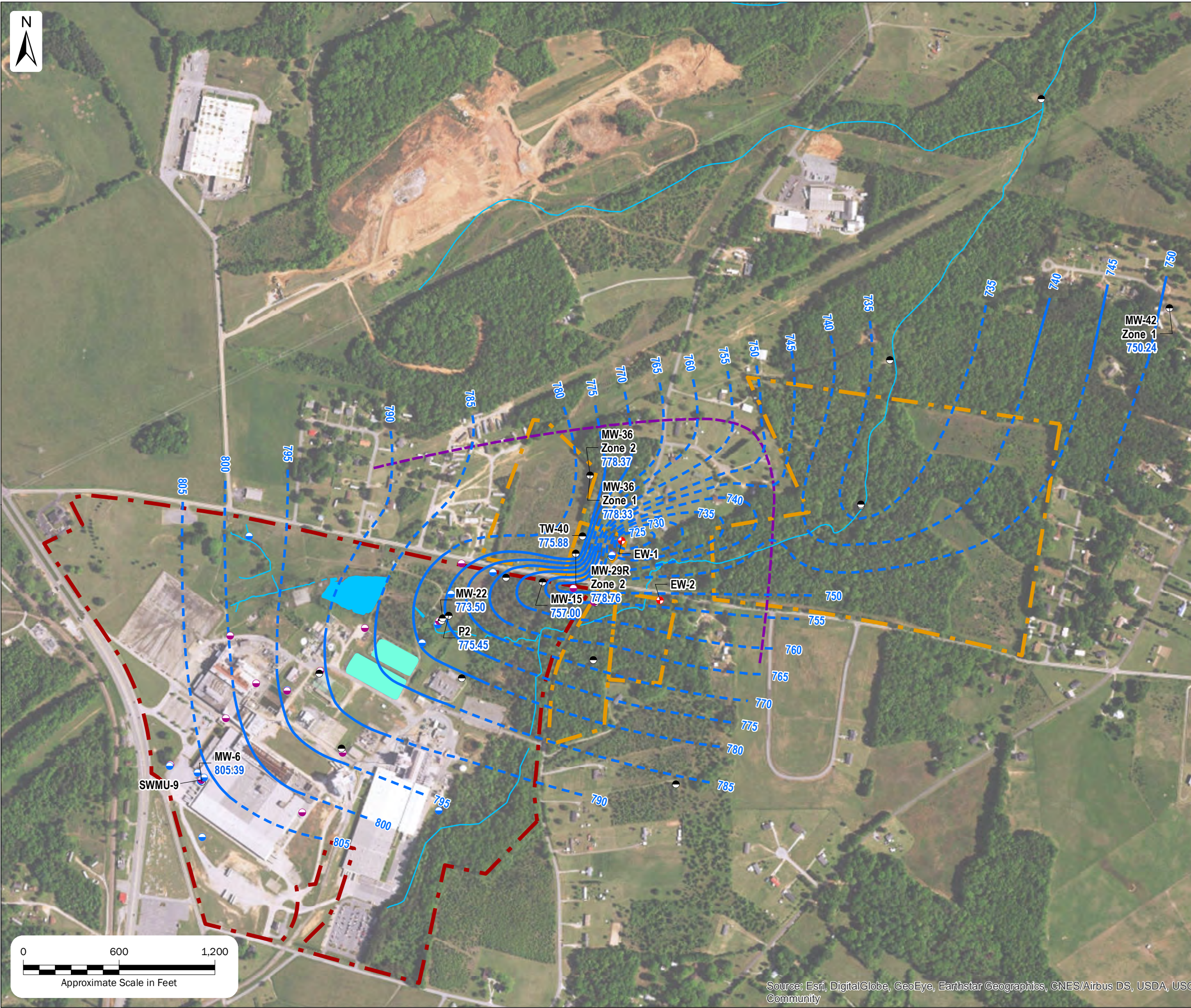


LEGEND

- 789.12 Groundwater Elevation (Ft NAVD88)
- Groundwater Elevation Contour (Ft NAVD88)
- Estimated Groundwater Elevation Contour
- Potential Capture Zone
- Owens Corning Property Boundary
- Additional Owens Corning Properties
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Stream or Creek
- Abandoned Sludge Lagoon
- Backwash Storage Ponds

Figure 3
 Bedrock Aquifer
 Zone 699 to 740 Feet NAVD88
 Potentiometric Surface Map
 February 22, 2016





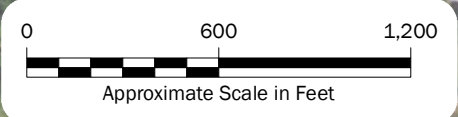
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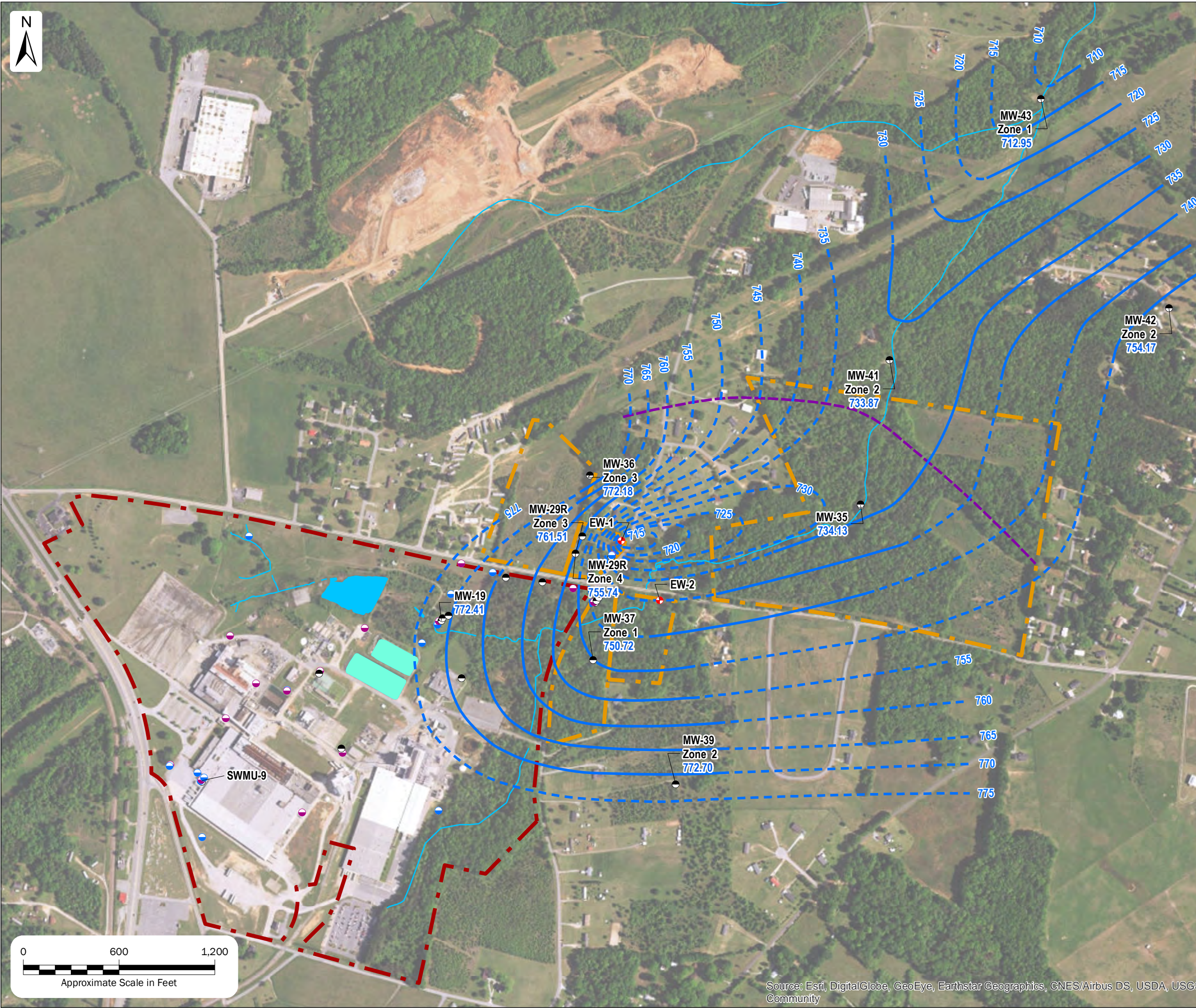
- 789.12 Groundwater Elevation (Ft NAVD88)
- Groundwater Elevation Contour (Ft NAVD88)
- Estimated Groundwater Elevation Contour
- Potential Capture Zone
- Owens Corning Property Boundary
- Additional Owens Corning Properties
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Stream or Creek
- Abandoned Sludge Lagoon
- Backwash Storage Ponds

Figure 4
 Bedrock Aquifer
 Zone 632 to 699 Feet NAVD88
 Potentiometric Surface Map
 February 22, 2016

Anderson, Anderson County, South Carolina

| | | |
|--|---------------|---------------|
| | PREPARED FOR: | Owens Corning |
| | DATE: | 04/25/2016 |
| | SCALE: | AS SHOWN |
| | DRAWN BY: | GTG |
| | CHECKED BY: | TCB |
| | PROJECT #: | 148917 |





LEGEND

- 789.12 Groundwater Elevation (Ft NAVD88)
- Groundwater Elevation Contour (Ft NAVD88)
- - - Estimated Groundwater Elevation Contour
- - - Potential Capture Zone
- - - Owens Corning Property Boundary
- - - Additional Owens Corning Properties
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- ~ Stream or Creek
- Abandoned Sludge Lagoon
- Backwash Storage Ponds

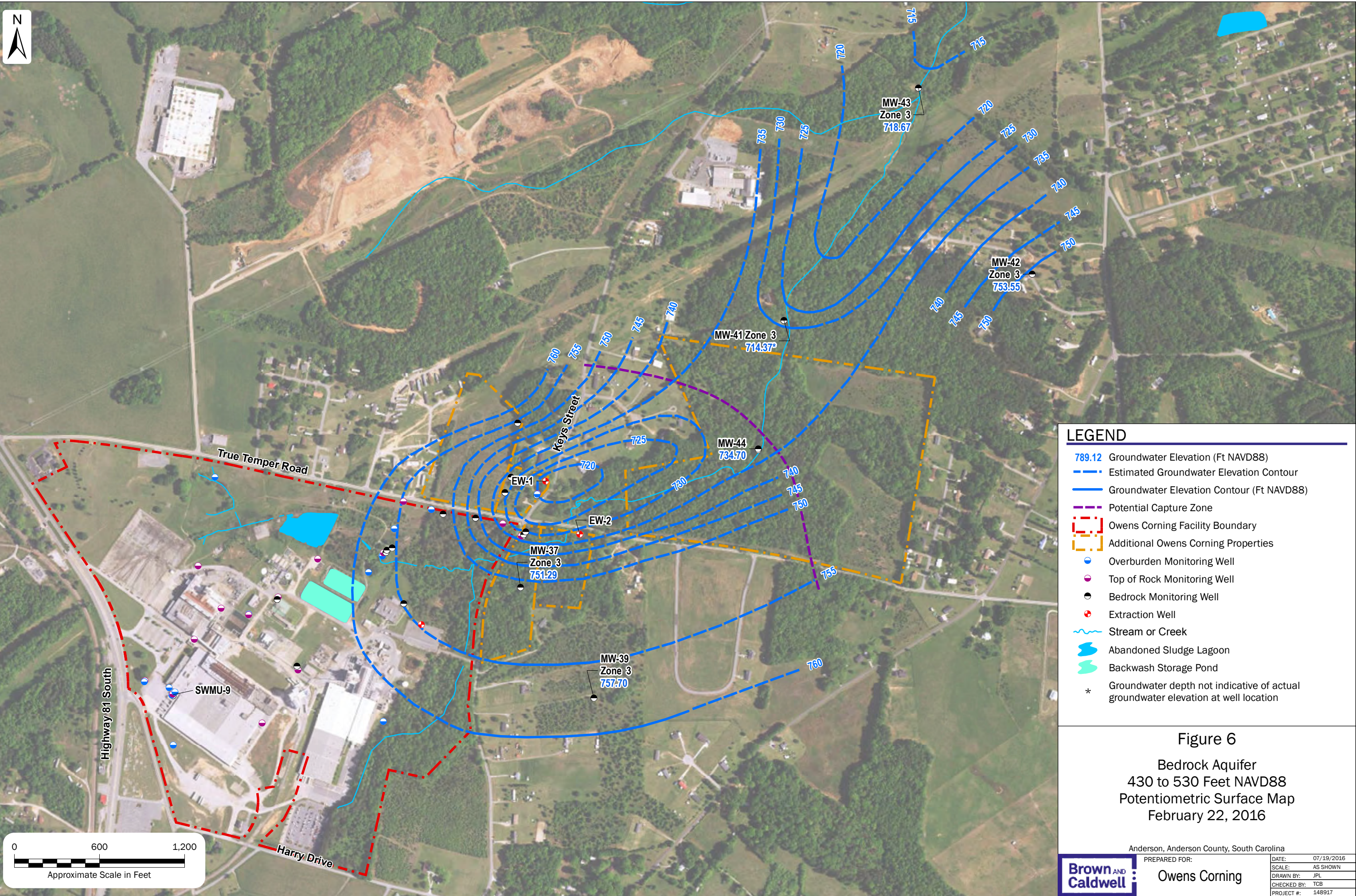
Figure 5
 Bedrock Aquifer
 Zone 574-630 Feet NAVD88
 Potentiometric Surface Map
 February 22, 2016

Anderson, Anderson County, South Carolina

PREPARED FOR:
Owens Corning



| | |
|-------------|------------|
| DATE: | 04/25/2016 |
| SCALE: | AS SHOWN |
| DRAWN BY: | GTG |
| CHECKED BY: | TCB |
| PROJECT #: | 148917 |



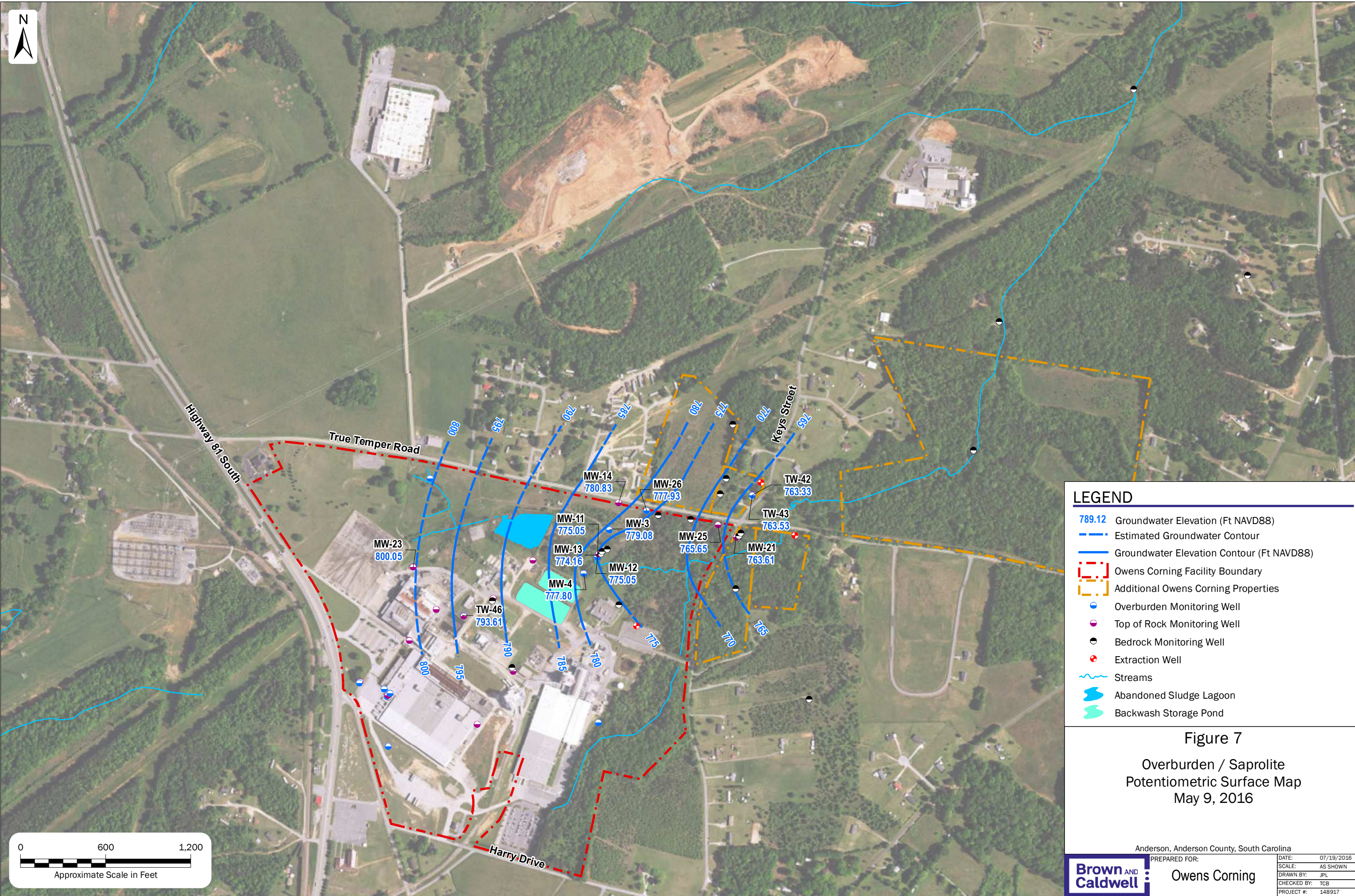
LEGEND

- 789.12 Groundwater Elevation (Ft NAVD88)
- Estimated Groundwater Elevation Contour
- Groundwater Elevation Contour (Ft NAVD88)
- Potential Capture Zone
- Owens Corning Facility Boundary
- Additional Owens Corning Properties
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Stream or Creek
- Abandoned Sludge Lagoon
- Backwash Storage Pond
- * Groundwater depth not indicative of actual groundwater elevation at well location

Figure 6
 Bedrock Aquifer
 430 to 530 Feet NAVD88
 Potentiometric Surface Map
 February 22, 2016

Anderson, Anderson County, South Carolina

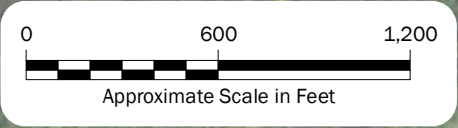
| | | | | |
|---------------------------|---------------|---------------|-------------|------------|
| Brown AND Caldwell | PREPARED FOR: | Owens Corning | DATE: | 07/19/2016 |
| | | | SCALE: | AS SHOWN |
| | | | DRAWN BY: | JPL |
| | | | CHECKED BY: | TCB |
| | | | PROJECT #: | 148917 |



LEGEND

- 789.12 Groundwater Elevation (Ft NAVD88)
- Estimated Groundwater Contour
- Groundwater Elevation Contour (Ft NAVD88)
- Owens Corning Facility Boundary
- Additional Owens Corning Properties
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Streams
- Abandoned Sludge Lagoon
- Backwash Storage Pond

Figure 7
 Overburden / Saprolite
 Potentiometric Surface Map
 May 9, 2016

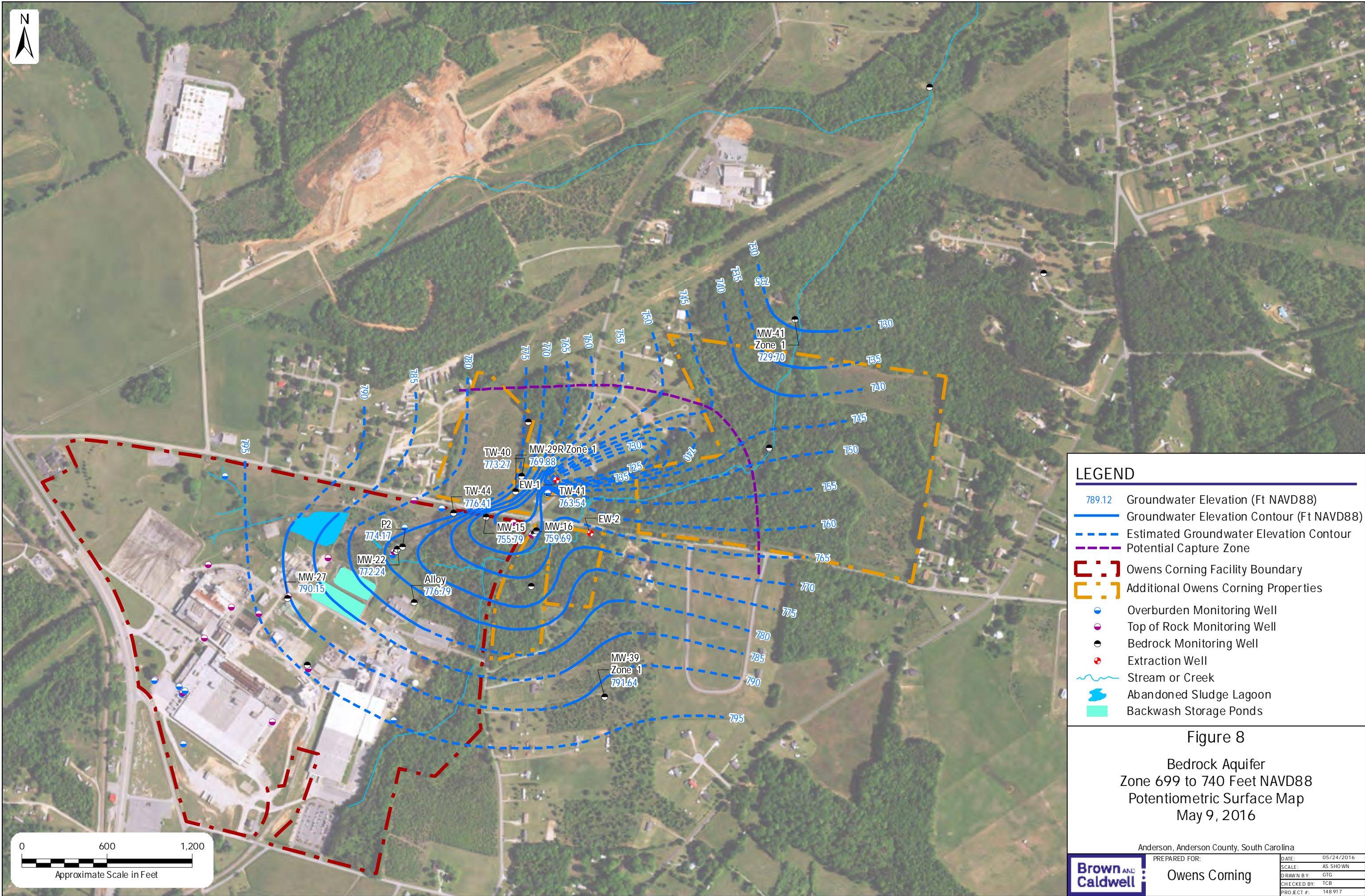


Anderson, Anderson County, South Carolina

PREPARED FOR: **Owens Corning**

Brown AND Caldwell

| | |
|-------------|------------|
| DATE: | 07/19/2016 |
| SCALE: | AS SHOWN |
| DRAWN BY: | JPL |
| CHECKED BY: | TCB |
| PROJECT #: | 148917 |

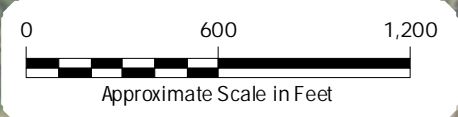


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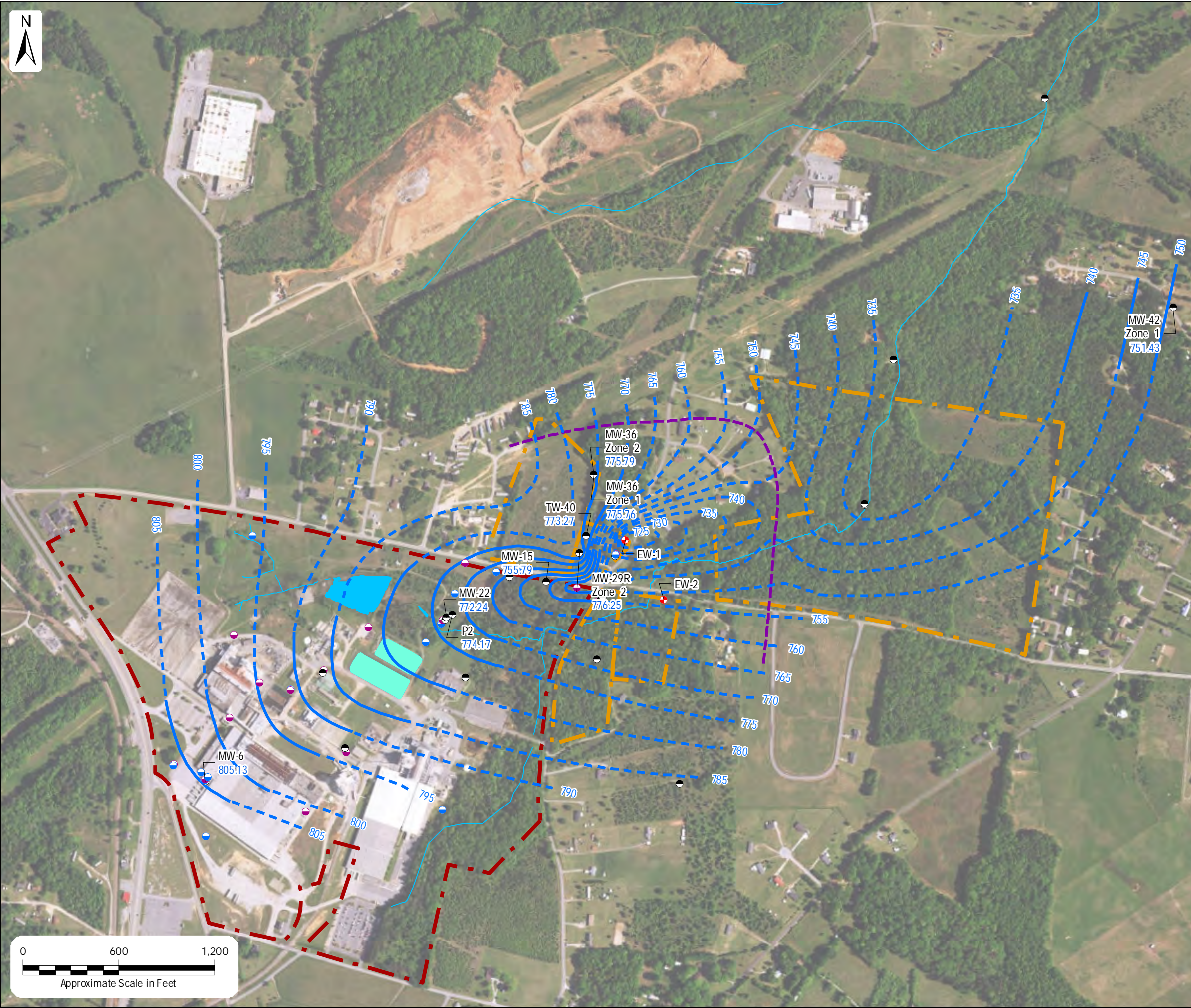
- 789.12 Groundwater Elevation (Ft NAVD88)
- Groundwater Elevation Contour (Ft NAVD88)
- - - Estimated Groundwater Elevation Contour
- - - Potential Capture Zone
- - - Owens Corning Facility Boundary
- - - Additional Owens Corning Properties
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- + Extraction Well
- ~ Stream or Creek
- Abandoned Sludge Lagoon
- Backwash Storage Ponds

Figure 8
 Bedrock Aquifer
 Zone 699 to 740 Feet NAVD88
 Potentiometric Surface Map
 May 9, 2016

Anderson, Anderson County, South Carolina



| | | |
|---------------------------|---------------|---------------|
| Brown AND Caldwell | PREPARED FOR: | Owens Corning |
| | DATE: | 05/24/2016 |
| | SCALE: | AS SHOWN |
| | DRAWN BY: | GTG |
| | CHECKED BY: | TCB |
| PROJECT #: | | 148 917 |



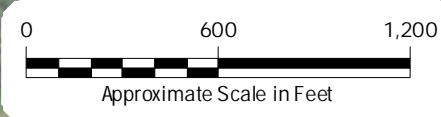
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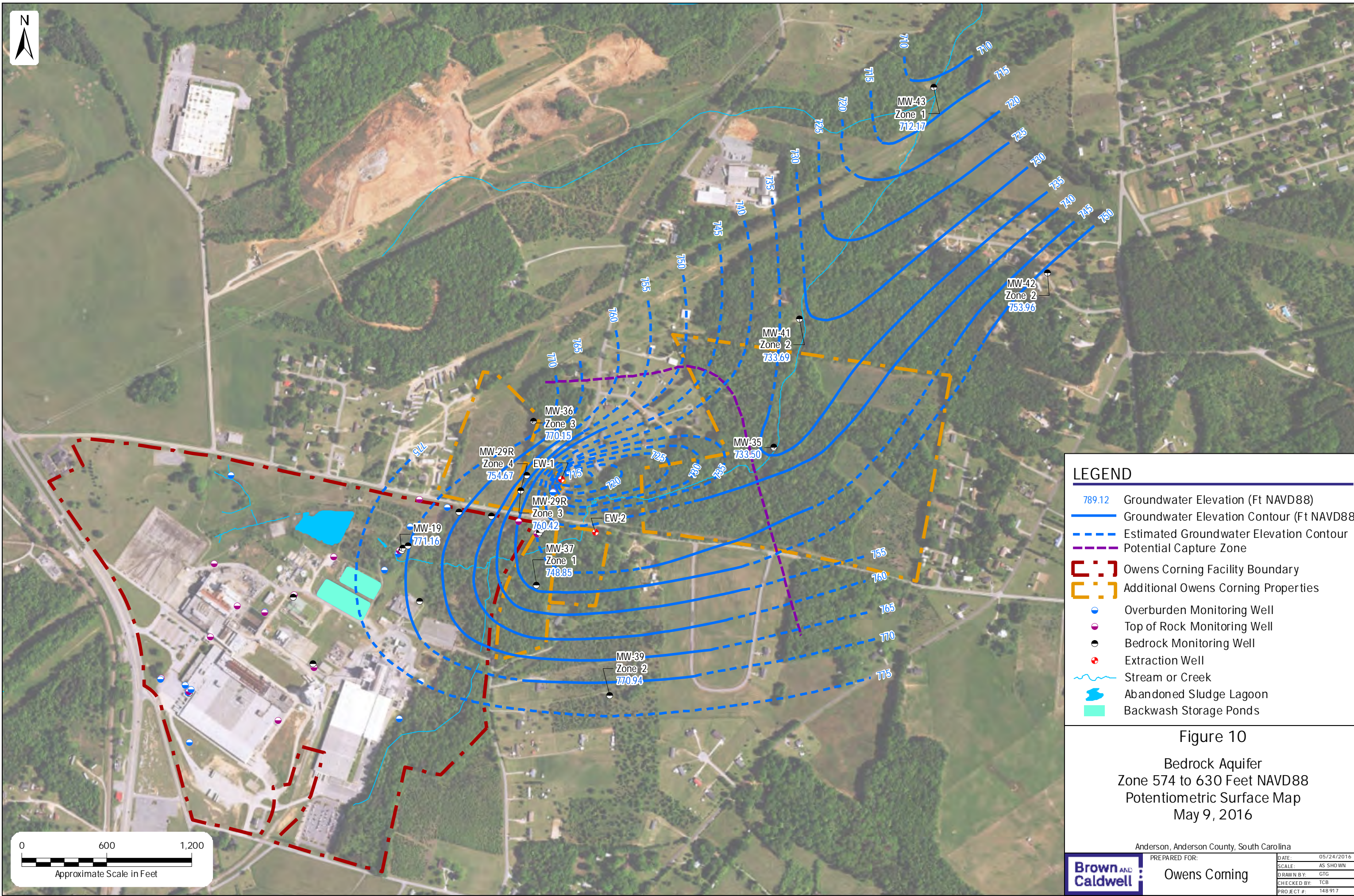
- 789.12 Groundwater Elevation (Ft NAVD88)
- Groundwater Elevation Contour (Ft NAVD88)
- Estimated Groundwater Elevation Contour
- Potential Capture Zone
- Owens Corning Facility Boundary
- Additional Owens Corning Properties
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Stream or Creek
- Abandoned Sludge Lagoon
- Backwash Storage Ponds

Figure 9
 Bedrock Aquifer
 Zone 632 to 699 Feet NAVD88
 Potentiometric Surface Map
 May 9, 2016

Anderson, Anderson County, South Carolina

| | | |
|------------|---------------|---------------|
| | PREPARED FOR: | Owens Corning |
| | DATE: | 05/24/2016 |
| | SCALE: | AS SHOWN |
| | DRAWN BY: | GTG |
| | CHECKED BY: | TCB |
| PROJECT #: | | 148 917 |



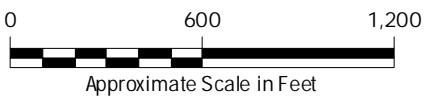


LEGEND

- 789.12 Groundwater Elevation (Ft NAVD88)
- Groundwater Elevation Contour (Ft NAVD88)
- - - Estimated Groundwater Elevation Contour
- - - Potential Capture Zone
- - - Owens Corning Facility Boundary
- - - Additional Owens Corning Properties
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- + Extraction Well
- ~ Stream or Creek
- Abandoned Sludge Lagoon
- Backwash Storage Ponds

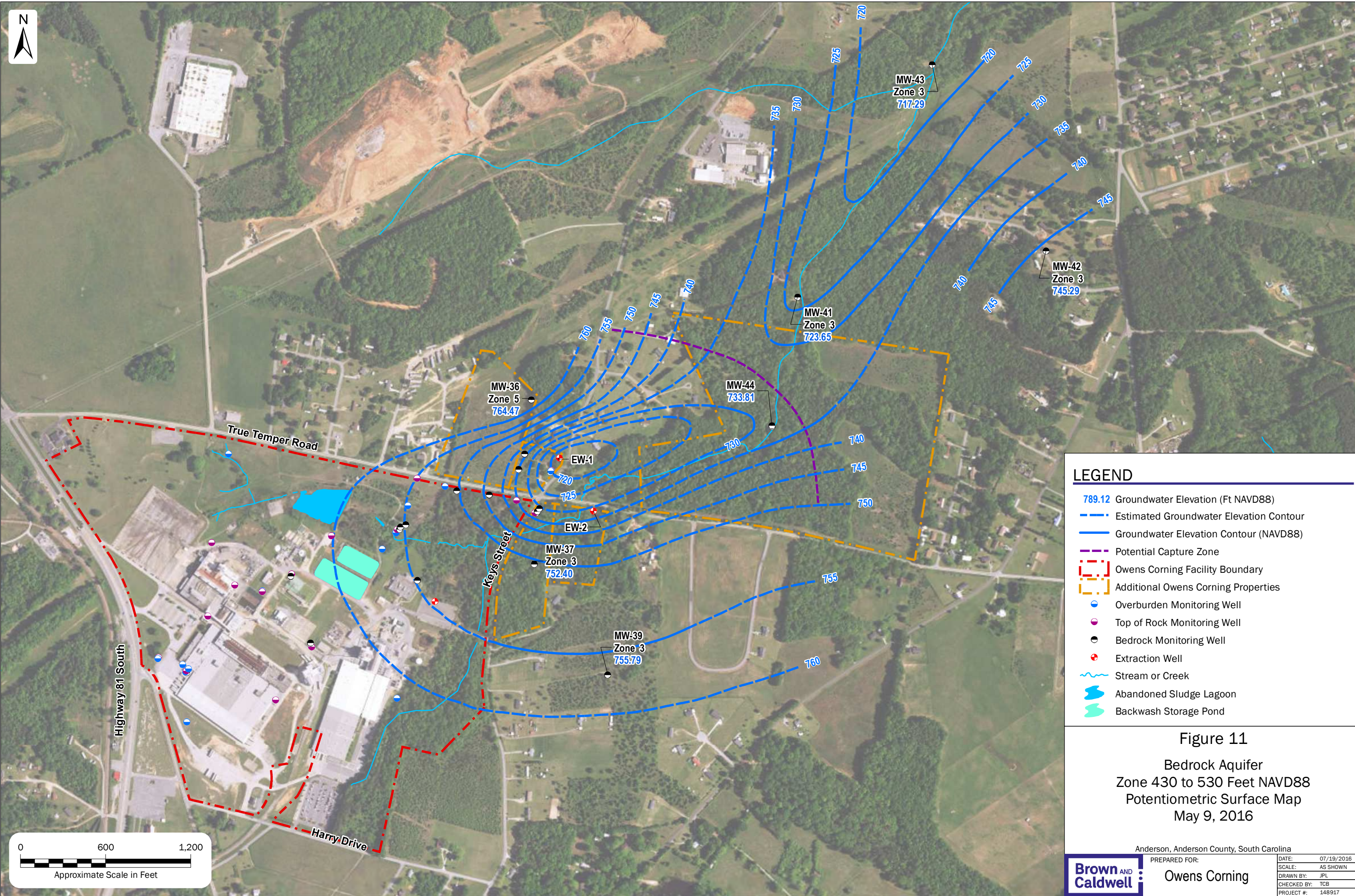
Figure 10
 Bedrock Aquifer
 Zone 574 to 630 Feet NAVD88
 Potentiometric Surface Map
 May 9, 2016

Anderson, Anderson County, South Carolina



PREPARED FOR:
Owens Corning

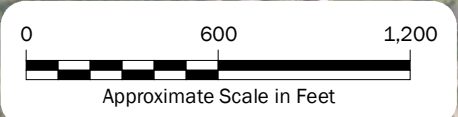
| | |
|-------------|------------|
| DATE: | 05/24/2016 |
| SCALE: | AS SHOWN |
| DRAWN BY: | GTG |
| CHECKED BY: | TCB |
| PROJECT #: | 148 917 |



LEGEND

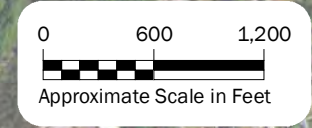
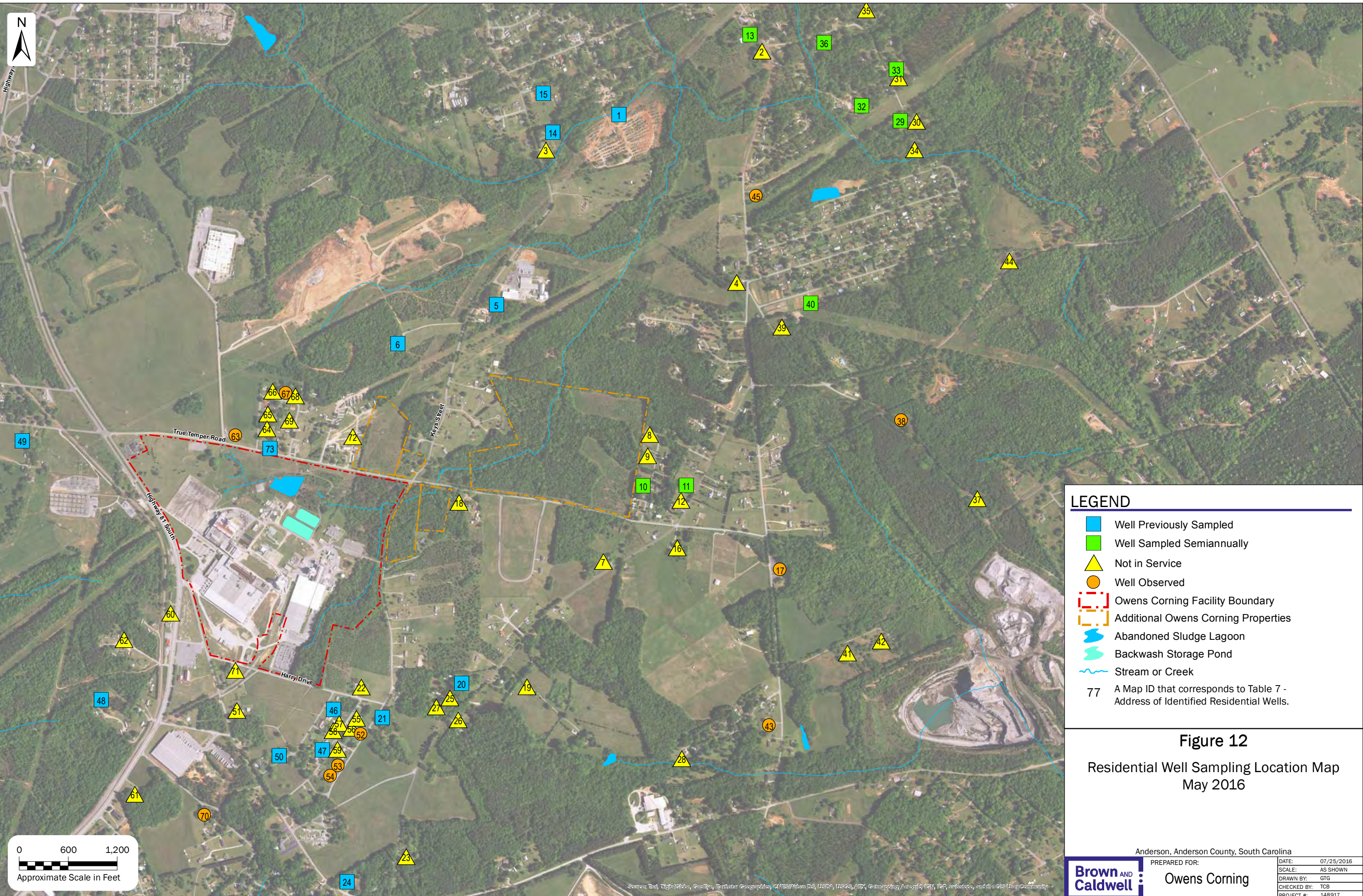
- 789.12 Groundwater Elevation (Ft NAVD88)
- Estimated Groundwater Elevation Contour
- Groundwater Elevation Contour (NAVD88)
- Potential Capture Zone
- Owens Corning Facility Boundary
- Additional Owens Corning Properties
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Stream or Creek
- Abandoned Sludge Lagoon
- Backwash Storage Pond

Figure 11
 Bedrock Aquifer
 Zone 430 to 530 Feet NAVD88
 Potentiometric Surface Map
 May 9, 2016



| | |
|---|---------------|
| Anderson, Anderson County, South Carolina | |
| PREPARED FOR: | Owens Corning |
| DATE: | 07/19/2016 |
| SCALE: | AS SHOWN |
| DRAWN BY: | JPL |
| CHECKED BY: | TCB |
| PROJECT #: | 148917 |





LEGEND

- Well Previously Sampled
- Well Sampled Semiannually
- ▲ Not in Service
- Well Observed
- Owens Corning Facility Boundary
- Additional Owens Corning Properties
- Abandoned Sludge Lagoon
- Backwash Storage Pond
- ~ Stream or Creek

77 A Map ID that corresponds to Table 7 - Address of Identified Residential Wells.

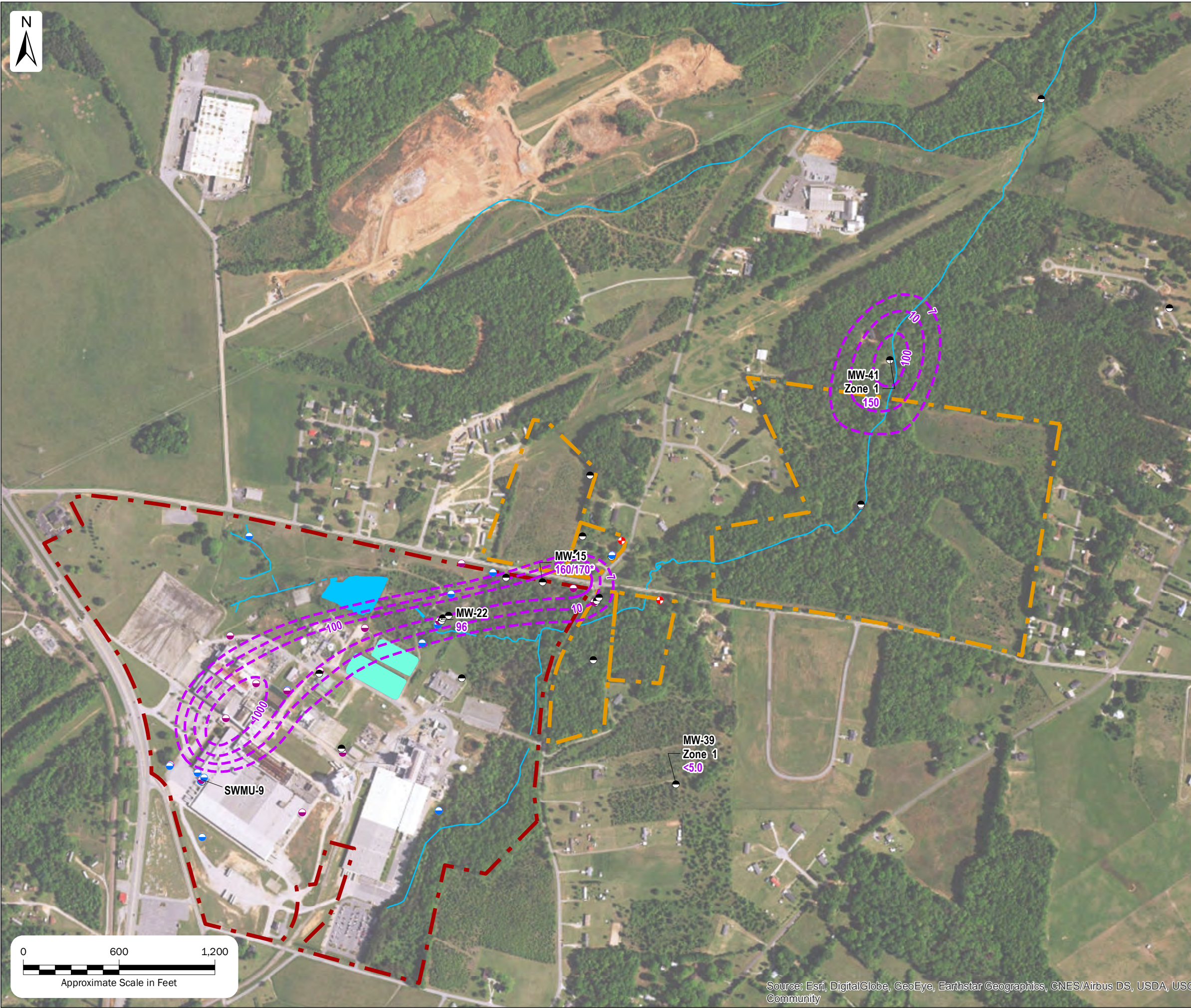
Figure 12
 Residential Well Sampling Location Map
 May 2016

Anderson, Anderson County, South Carolina

PREPARED FOR: **Owens Corning**

| | |
|-------------|------------|
| DATE: | 07/25/2016 |
| SCALE: | AS SHOWN |
| DRAWN BY: | GTG |
| CHECKED BY: | TCB |
| PROJECT #: | 148917 |

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, IGP, Swisstopo, and the GIS User Community



LEGEND

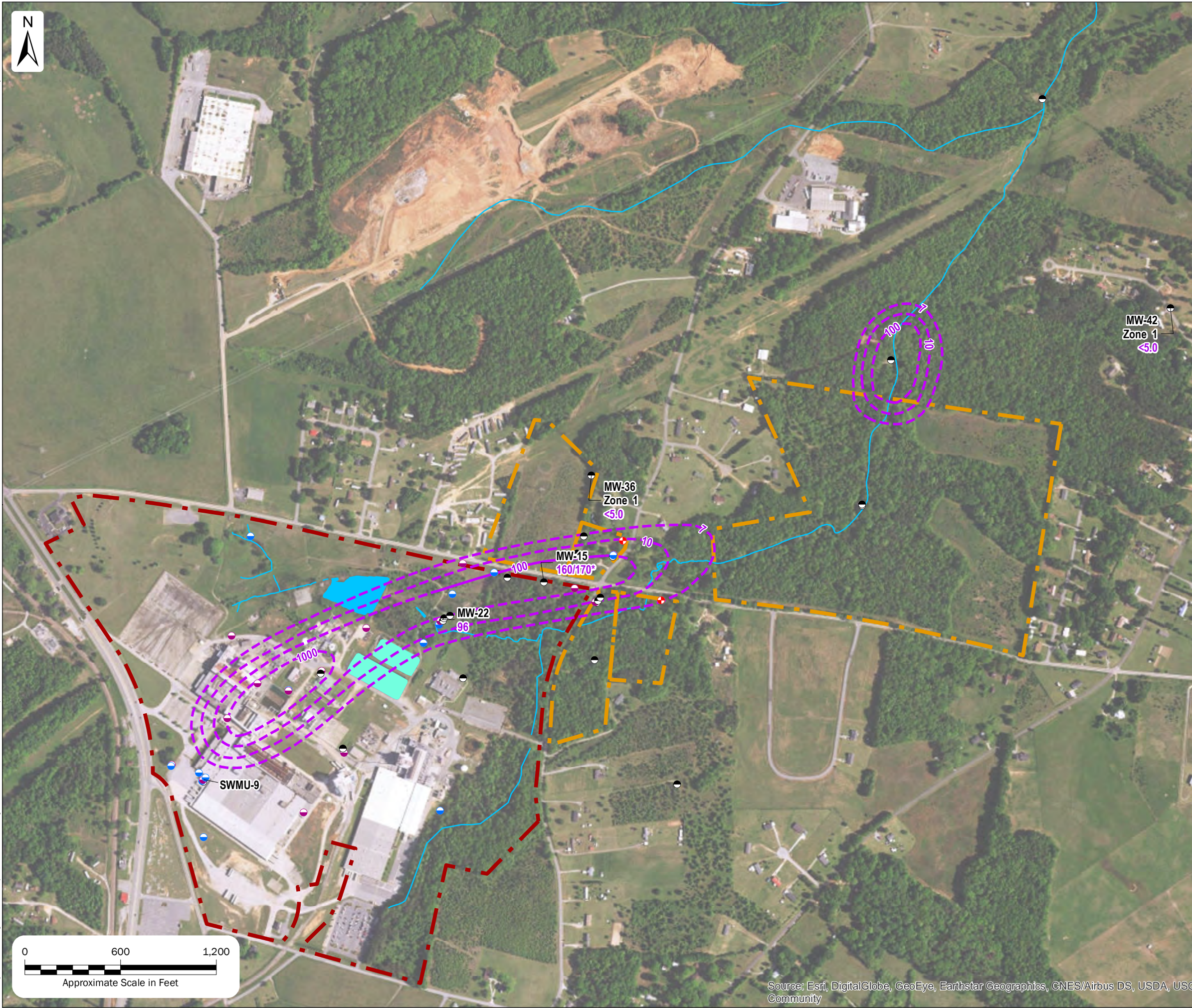
- 21 1,1-Dichloroethene Concentration (µg/L)
- <5.0 Concentration Below Detection Limit
- 1,1-Dichloroethene Iso-Contour (µg/L)
- Estimated 1,1-Dichloroethene Iso-Contour (µg/L)
- Owens Corning Facility Boundary
- Additional Owens Corning Properties
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Stream or Creek
- Abandoned Sludge Lagoon
- Backwash Storage Ponds
- * Duplicate sample

The 7 µg/L isocontour is used to represent the maximum contaminant level of 1,1-DCE.

Figure 13
 Bedrock Aquifer
 Zone 699 to 740 Feet NAVD88
 1,1-Dichloroethene Isoconcentration Map
 February 2016

Anderson, Anderson County, South Carolina

| | | | | |
|--|---------------|---------------|------------|------------|
| | PREPARED FOR: | Owens Corning | DATE: | 04/25/2016 |
| | SCALE: | AS SHOWN | DRAWN BY: | GTG |
| | CHECKED BY: | TCB | PROJECT #: | 148917 |
| | | | | |
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LEGEND

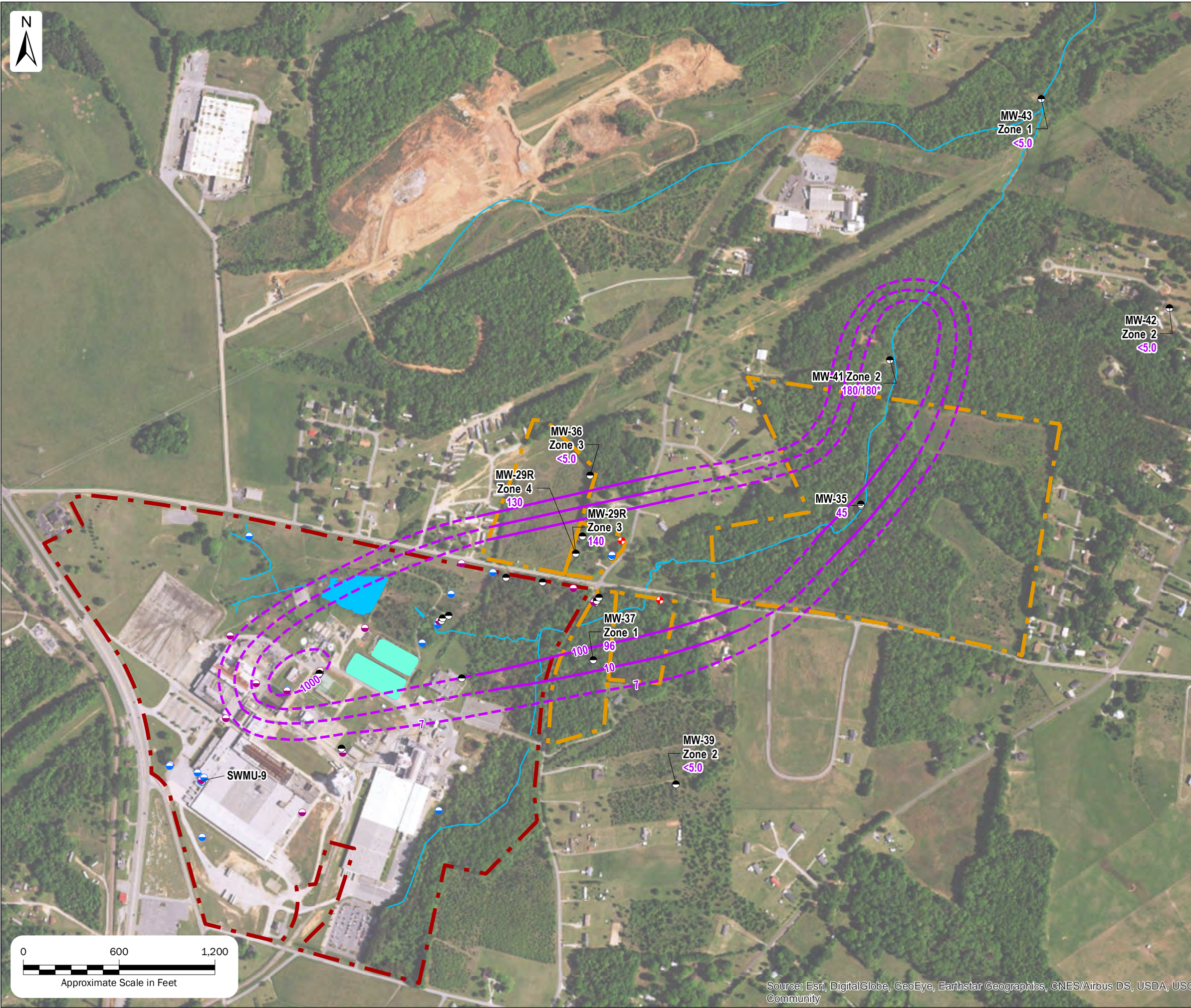
- 21 1,1-Dichloroethene Concentration ($\mu\text{g/L}$)
- <5.0 Concentration Below Detection Limit
- 1,1-Dichloroethene Iso-Contour ($\mu\text{g/L}$)
- - - Estimated 1,1-Dichloroethene Iso-Contour ($\mu\text{g/L}$)
- - - Owens Corning Facility Boundary
- - - Additional Owens Corning Properties
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- + Extraction Well
- ~ Stream or Creek
- Abandoned Sludge Lagoon
- Backwash Storage Ponds
- *

The 7 $\mu\text{g/L}$ isocontour is used to represent the maximum contaminant level of 1,1-DCE.

Figure 14
 Bedrock Aquifer
 Zone 632 to 699 Feet NAVD88
 1,1-Dichloroethene Isoconcentration Map
 February 2016

Anderson, Anderson County, South Carolina

| | | | | |
|--|---------------|---------------|-------------|------------|
| | PREPARED FOR: | Owens Corning | DATE: | 04/25/2016 |
| | | | SCALE: | AS SHOWN |
| | | | DRAWN BY: | GTG |
| | | | CHECKED BY: | TCB |
| | | | PROJECT #: | 148917 |



LEGEND

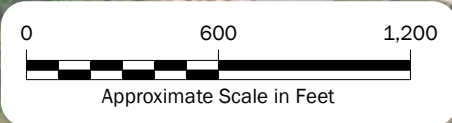
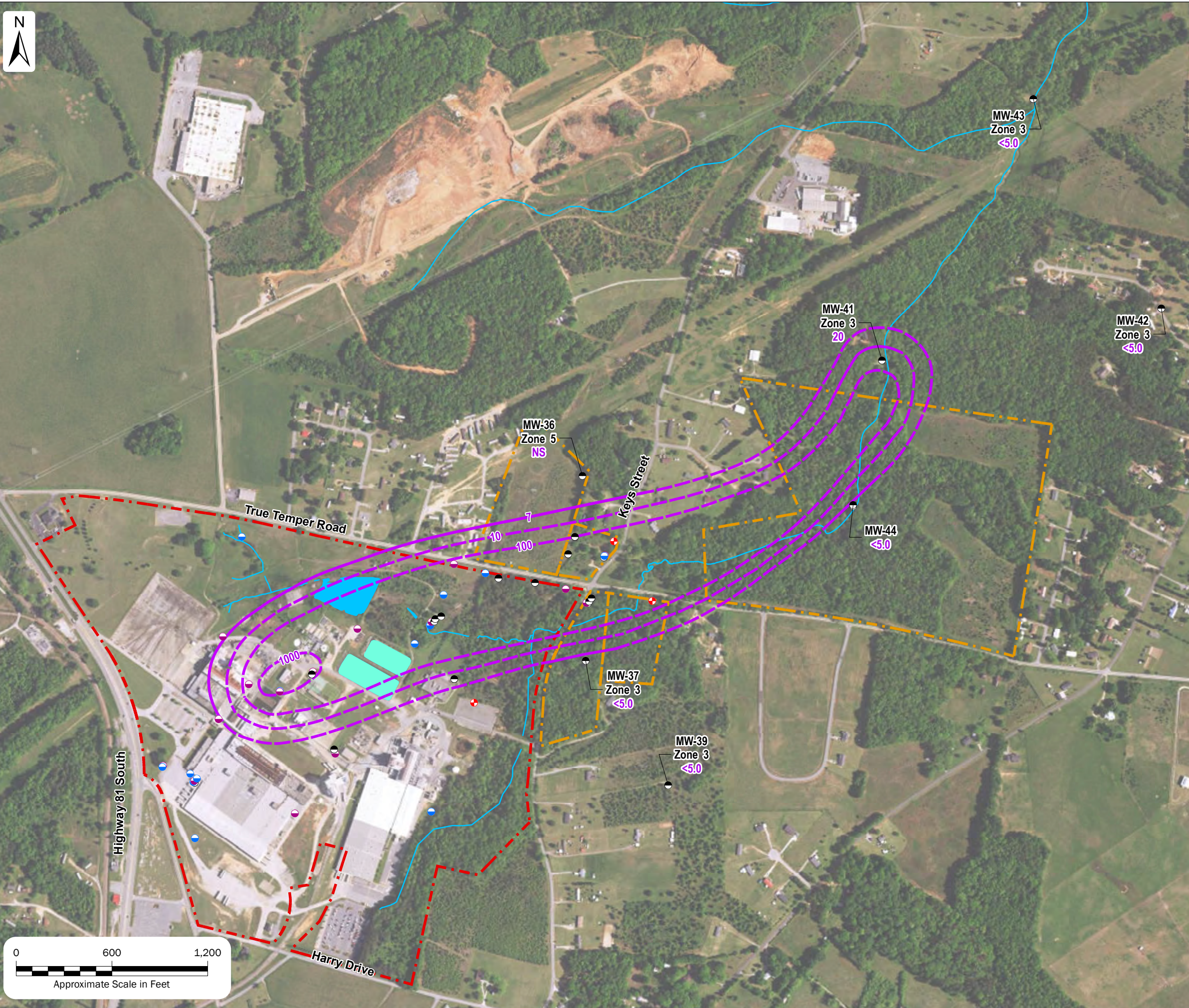
- 21 1,1-Dichloroethene Concentration (µg/L)
- <5.0 Concentration Below Detection Limit
- 1,1-Dichloroethene Iso-Contour (µg/L)
- Estimated 1,1-Dichloroethene Iso-Contour (µg/L)
- Owens Corning Facility Boundary
- Additional Owens Corning Properties
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Stream or Creek
- Abandoned Sludge Lagoon
- Backwash Storage Ponds
- * Duplicate sample

The 7 µg/L isocontour is used to represent the maximum contaminant level of 1,1-DCE.

Figure 15
 Bedrock Aquifer
 Zone 574 to 630 Feet NAVD88
 1,1-Dichloroethene Isoconcentration Map
 February 2016

Anderson, Anderson County, South Carolina

| | | | | |
|--|---------------|---------------|------------|------------|
| | PREPARED FOR: | Owens Corning | DATE: | 04/25/2016 |
| | SCALE: | AS SHOWN | DRAWN BY: | GTG |
| | CHECKED BY: | TCB | PROJECT #: | 148917 |
| | | | | |
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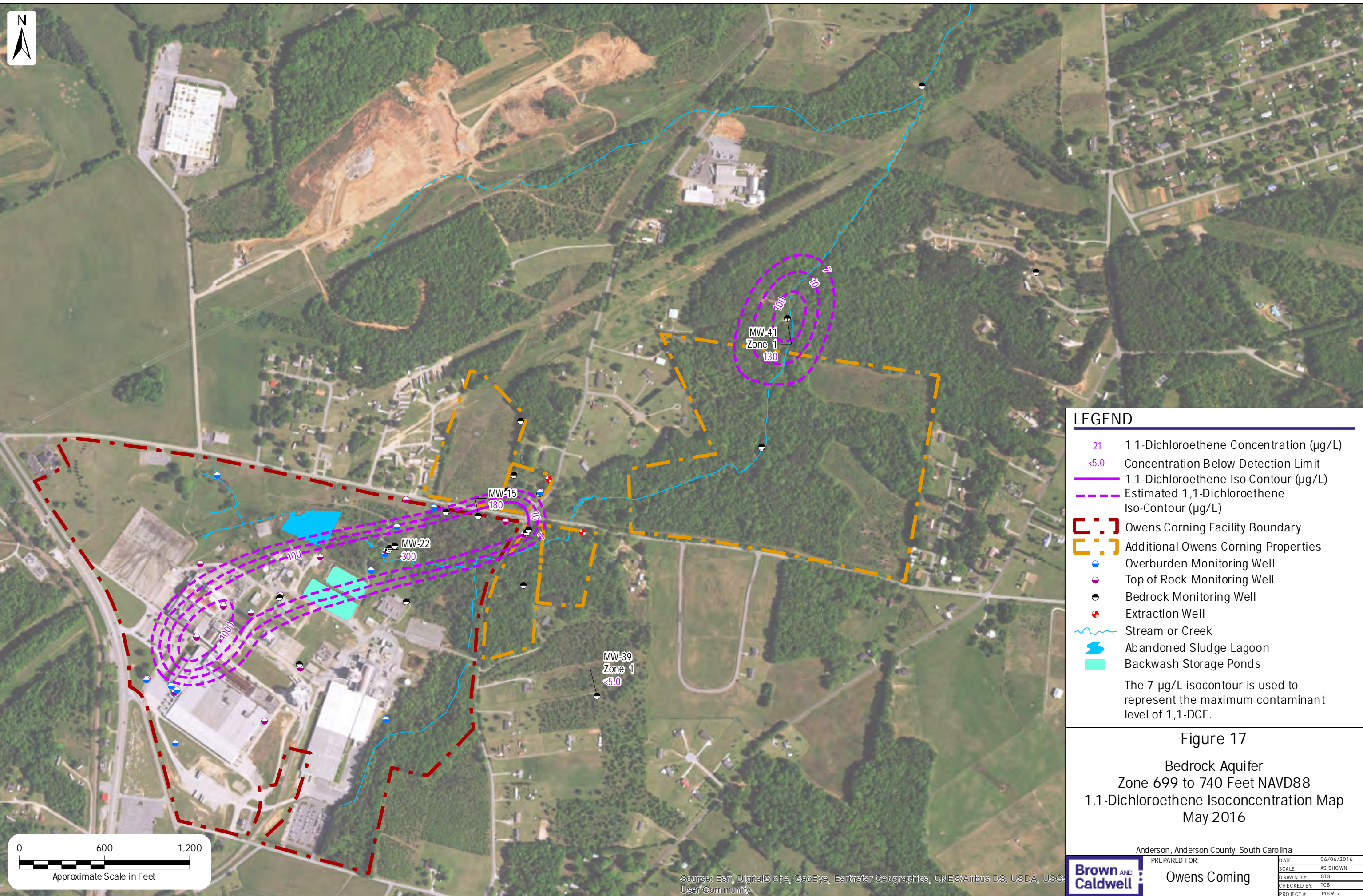
LEGEND

- 21 1,1-Dichloroethene Concentration (µg/L)
- <5.0 Concentration Below Detection Limit
- 1,1-Dichloroethene Iso-Contour (µg/L)
- - - Estimated 1,1-Dichloroethene Iso-Contour (µg/L)
- Owens Corning Facility Boundary
- Additional Owens Corning Properties
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- + Extraction Well
- ~ Streams
- Abandoned Sludge Lagoon
- Backwash Storage Pond
- *

The 7 µg/L isocontour is used to represent the maximum contaminant level of 1,1-DCE.

Figure 16
 Bedrock Aquifer
 Zone 430 to 530 Feet NAVD88
 1,1-Dichloroethene Isoconcentration Map
 February 2016

| | | |
|--|---|-------------------|
| | Anderson, Anderson County, South Carolina | DATE: 06/06/2016 |
| | PREPARED FOR: Owens Corning | SCALE: AS SHOWN |
| | | DRAWN BY: JPL |
| | | CHECKED BY: TCB |
| | | PROJECT #: 148917 |

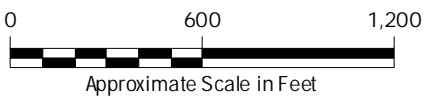


LEGEND

- 21 1,1-Dichloroethene Concentration (µg/L)
- <5.0 Concentration Below Detection Limit
- 1,1-Dichloroethene Iso-Contour (µg/L)
- Estimated 1,1-Dichloroethene Iso-Contour (µg/L)
- Owens Corning Facility Boundary
- Additional Owens Corning Properties
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Stream or Creek
- Abandoned Sludge Lagoon
- Backwash Storage Ponds

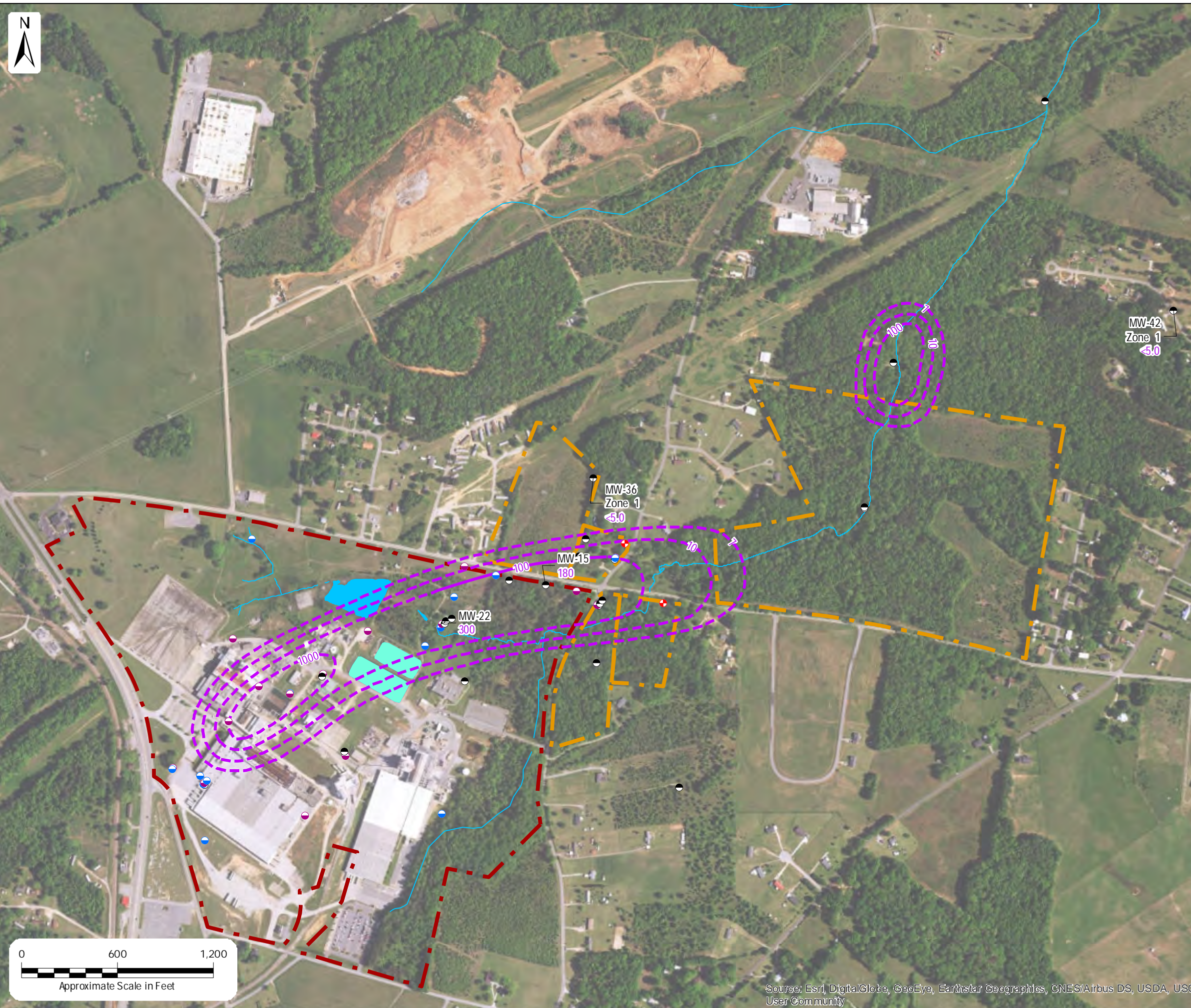
The 7 µg/L isocontour is used to represent the maximum contaminant level of 1,1-DCE.

Figure 17
 Bedrock Aquifer
 Zone 699 to 740 Feet NAVD88
 1,1-Dichloroethene Isoconcentration Map
 May 2016



Anderson, Anderson County, South Carolina

| | | |
|---------------------------|---------------|---------------|
| Brown AND Caldwell | PREPARED FOR: | Owens Corning |
| | DATE: | 06/06/2016 |
| | SCALE: | AS SHOWN |
| | DRAWN BY: | GTG |
| | CHECKED BY: | TCB |
| | PROJECT #: | 148 917 |



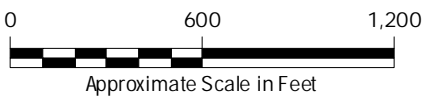
LEGEND

- 21 1,1-Dichloroethene Concentration ($\mu\text{g/L}$)
- ≤ 5.0 Concentration Below Detection Limit
- 1,1-Dichloroethene Iso-Contour ($\mu\text{g/L}$)
- Estimated 1,1-Dichloroethene Iso-Contour ($\mu\text{g/L}$)
- Owens Corning Facility Boundary
- Additional Owens Corning Properties
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- ~~~~~ Stream or Creek
- Abandoned Sludge Lagoon
- Backwash Storage Ponds

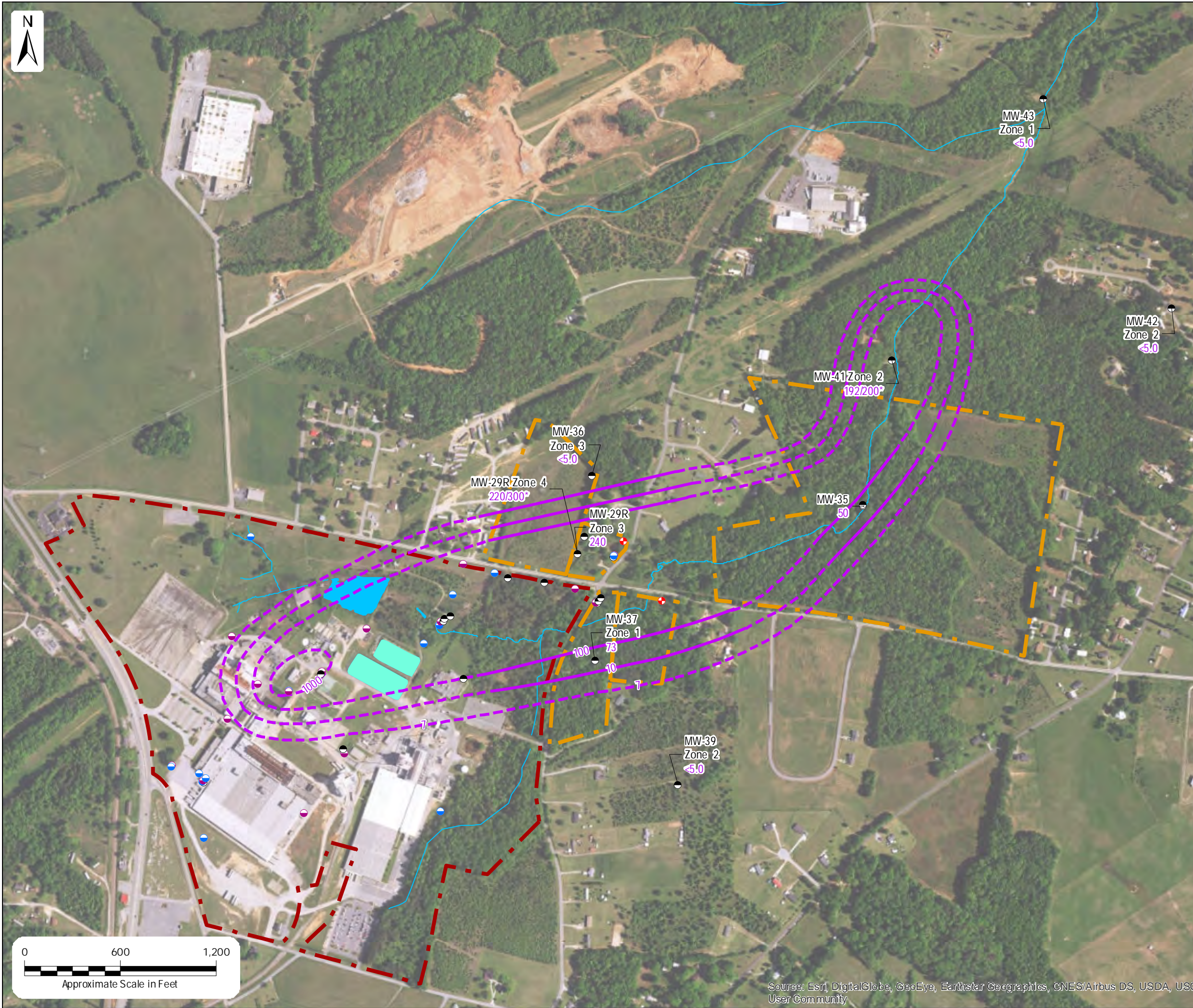
The 7 $\mu\text{g/L}$ isocontour is used to represent the maximum contaminant level of 1,1-DCE.

Figure 18
 Bedrock Aquifer
 Zone 632 to 699 Feet NAVD88
 1,1-Dichloroethene Isoconcentration Map
 May 2016

Anderson, Anderson County, South Carolina



| | |
|---------------|--------------------|
| PREPARED FOR: | DATE: 06/06/2016 |
| Owens Corning | SCALE: AS SHOWN |
| | DRAWN BY: GTG |
| | CHECKED BY: TCB |
| | PROJECT #: 148 917 |

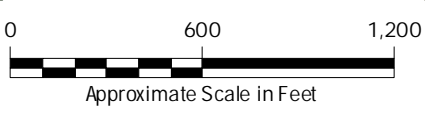


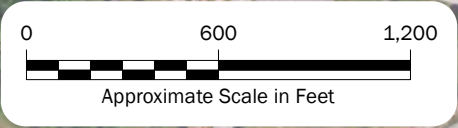
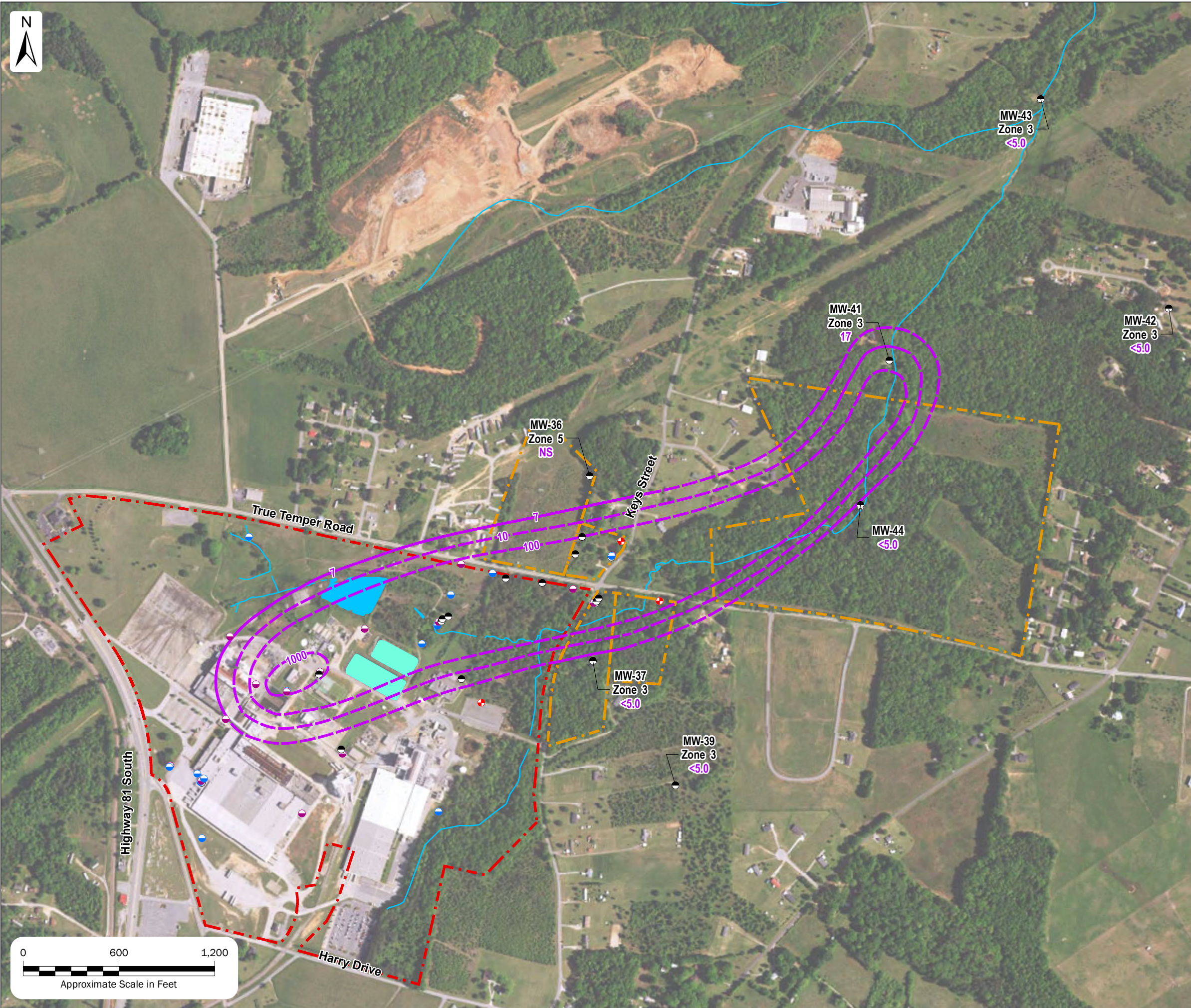
LEGEND

- 21 1,1-Dichloroethene Concentration (µg/L)
- <5.0 Concentration Below Detection Limit
- 1,1-Dichloroethene Iso-Contour (µg/L)
- - - Estimated 1,1-Dichloroethene Iso-Contour (µg/L)
- - - Owens Corning Facility Boundary
- - - Additional Owens Corning Properties
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- ~ Stream or Creek
- Abandoned Sludge Lagoon
- Backwash Storage Ponds
- * Duplicate sample

The 7 µg/L isocontour is used to represent the maximum contaminant level of 1,1-DCE.

Figure 19
 Bedrock Aquifer
 Zone 574 to 630 Feet NAVD88
 1,1-Dichloroethene Isoconcentration Map
 May 2016





LEGEND

- 21 1,1-Dichloroethene Concentration (µg/L)
- <5.0 Concentration Below Detection Limit
- 1,1-Dichloroethene Iso-Contour (µg/L)
- Estimated 1,1-Dichloroethene Iso-Contour (µg/L)
- Owens Corning Facility Boundary
- Additional Owens Corning Properties
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Streams
- Abandoned Sludge Lagoon
- Backwash Storage Pond
- * Duplicate sample
- NS Not Sampled

The 7 µg/L isocontour is used to represent the maximum contaminant level of 1,1-DCE.

Figure 20
 Bedrock Aquifer
 Zone 430 to 530 Feet NAVD88
 1,1-Dichloroethene Isoconcentration Map
 May 2016

Anderson, Anderson County, South Carolina

| | | |
|--|---------------|---------------|
| | PREPARED FOR: | Owens Corning |
| | DATE: | 07/19/2016 |
| | SCALE: | AS SHOWN |
| | DRAWN BY: | JPL |
| | CHECKED BY: | TCB |
| | PROJECT #: | 148917 |

Table 1. Quarterly Sampling Groundwater Elevation Data - February 22, 2016
Owens Corning - Anderson, SC

| Monitoring Well | Screen Interval (ft bgs) | Screened Interval Location | Surface Elevation (ft NAVD88) | TOC Elevation (ft NAVD88) | Static Depth to Water (ft Below TOC) 2/22/2016 | Static Water Elevation, (ft NAVD88) 2/22/2016 |
|-----------------------------|--------------------------|----------------------------|-------------------------------|---------------------------|--|---|
| MW-3 | 13-28 | O | 795.61 | 796.76 | 15.70 | 781.06 |
| MW-4 | 14.7-29.7 | O | 796.72 | 798.38 | 19.20 | 779.18 |
| MW-6 | 123.6-133.6 | BR | 819.82 | 819.69 | 14.30 | 805.39 |
| MW-11 | 6.0-16.0 | O | 778.32 | 780.22 | 3.90 | 776.32 |
| MW-12 | 23-33 | O | 778.42 | 780.95 | 5.70 | 775.25 |
| MW-13 | 67-72 | TOR | 779.20 | 782.22 | 6.80 | 775.42 |
| MW-14 | 69.2-74.2 | TOR | 796.39 | 798.45 | 15.40 | 783.05 |
| MW-15 | 69.5-99.5 | BR | 777.11 | 779.45 | 22.45 | 757.00 |
| MW-16 | 49-59 | BR | 768.14 | 770.37 | NG | NG |
| MW-19 | 154-169 | BR | 779.69 | 781.81 | 9.40 | 772.41 |
| MW-21 | 6.5-16.5 | TOR | 768.63 | 771.15 | 6.70 | 764.45 |
| MW-22 | 78-116 | BR | 780.45 | 782.65 | 9.15 | 773.50 |
| MW-23 | 83-93 | TOR | 808.97 | 811.47 | 10.45 | 801.02 |
| MW-25 | 40-50 | TOR | 774.40 | 776.71 | 9.50 | 767.21 |
| MW-26 | 56.7-66.7 | O | 790.40 | 793.09 | 13.00 | 780.09 |
| MW-27 | 69-99 | BR | 808.93 | 811.13 | 19.70 | 791.43 |
| MW-29R Zone 1 | 56.7-69.8 | BR | 784.90 | 787.03 | 14.98 | 772.05 |
| MW-29R Zone 2 | 127.3-139.5 | BR | 784.90 | 787.03 | 8.27 | 778.76 |
| MW-29R Zone 3 | 154.5-169.6 | BR | 784.90 | 787.03 | 25.52 | 761.51 |
| MW-29R Zone 4 | 177.6-202.2 | BR | 784.90 | 787.03 | 31.29 | 755.74 |
| MW-35 ^a | 152-162 | BR | 740.90 | 743.73 | 9.60 | 734.13 |
| MW-36 Zone 1 | 99.1-116 | BR | 783.00 | 785.63 | 7.30 | 778.33 |
| MW-36 Zone 2 | 139.5-150.7 | BR | 783.00 | 785.63 | 7.26 | 778.37 |
| MW-36 Zone 3 | 180.2-192.7 | BR | 783.00 | 785.63 | 13.45 | 772.18 |
| MW-36 Zone 4 | 225.6-239.2 | BR | 783.00 | 785.63 | 15.82 | 769.81 |
| MW-36 Zone 5 | 269.9-275 | BR | 783.00 | 785.63 | 20.29 | 765.34 |
| MW-37 Zone 1 | 185-195 | BR | 780.20 | 782.92 | 32.20 | 750.72 |
| MW-37 Zone 2 | 222-232 | BR | 780.20 | 782.84 | 28.50 | 754.34 |
| MW-37 Zone 3 | 257-272 | BR | 780.20 | 782.79 | 31.50 | 751.29 |
| MW-38 Zone 1 | 415-430 | BR | 768.10 | 771.23 | 14.60 | 756.63 |
| MW-38 Zone 2 ^{a,b} | 479.6-499.6 | BR | 768.10 | 771.18 | -0.05 | 771.23 |
| MW-39 Zone 1 | 95-105 | BR | 804.10 | 806.20 | 13.00 | 793.20 |
| MW-39 Zone 2 | 195-215 | BR | 804.10 | 806.20 | 33.50 | 772.70 |
| MW-39 Zone 3 | 280-300 | BR | 804.10 | 806.20 | 48.50 | 757.70 |
| MW-41 Zone 1 | 17-32 | BR | 733.40 | 736.56 | 6.75 | 729.81 |
| MW-41 Zone 2 ^a | 109-129 | BR | 733.40 | 736.79 | 2.92 | 733.87 |
| MW-41 Zone 3 | 279-299 | BR | 733.40 | 736.77 | 22.40 | 714.37 |
| MW-42 Zone 1 | 114-129 | BR | 785.50 | 785.44 | 35.20 | 750.24 |
| MW-42 Zone 2 | 202-222 | BR | 785.50 | 785.42 | 31.25 | 754.17 |
| MW-42 Zone 3 | 265-285 | BR | 785.50 | 785.40 | 31.85 | 753.55 |
| MW-43 Zone 1 | 91.8 - 111.8 | BR | 716.15 | 719.19 | 6.24 | 712.95 |
| MW-43 Zone 2 | 149.57 - 179.57 | BR | 716.15 | 719.20 | 3.53 | 715.67 |
| MW-43 Zone 3 | 261.8 - 281.8 | BR | 716.15 | 719.17 | 0.50 | 718.67 |
| MW-44 | 280-300 | BR | 741.00 | 743.95 | 9.25 | 734.70 |
| P1 | 24.5-39.5 | BR | 813.10 | 815.42 | 19.00 | 796.42 |
| P2 | 53-115 | BR | 783.93 | 785.65 | 10.20 | 775.45 |
| Alloy | 56-61 | BR | 789.56 | 791.69 | 13.70 | 777.99 |
| TW-40 | 84-94 | BR | 785.81 | 788.63 | 12.75 | 775.88 |
| TW-41 | 50.3-55.3 | BR | 775.50 | 778.84 | 14.00 | 764.84 |
| TW-42 | 21-26 | TOR | 775.86 | 778.09 | 13.80 | 764.29 |
| TW-43 | 8.6-18.6 | O | 775.82 | 778.15 | 13.70 | 764.45 |
| TW-44 | 64-74 | BR | 782.68 | 785.52 | 6.90 | 778.62 |
| TW-45 ^c | 18.8-28.8 | O | 816.70 | 816.76 | NG | NG |
| TW-46 | 83.3-88.3 | TOR | 816.72 | 816.58 | 21.90 | 794.68 |

bgs - below ground surface

BR - bedrock

NG - not gauged

O - overburden

TOR - top of rock

TOC - top of casing

NAVD88 - North American Vertical Datum of 1988

ft bgs - feet below ground surface

^a MW-35, MW-38 Zone 2, MW-41 Zone 2 TOC elevation has been adjusted by adding couplings and ball valve to surveyed elevation at top of casing.

^b Static depth to water readings at artesian well (MW-38 Zone 2) were measured by using a ruler to measure the height of flow coming from the flow valve.

^c Water level was not measured due to collapse of well.

Table 2. Quarterly Sampling Groundwater Elevation Data - May 9, 2016
Owens Corning - Anderson, SC

| Monitoring Well | Screen Interval (ft bgs) | Screened Interval Location | Surface Elevation (ft NAVD88) | TOC Elevation (ft NAVD88) | Static Depth to Water (ft Below TOC) 5/9/2016 | Static Water Elevation, (ft NAVD88) 5/9/2016 |
|-----------------------------|--------------------------|----------------------------|-------------------------------|---------------------------|---|--|
| MW-3 | 13-28 | O | 795.61 | 796.76 | 17.68 | 779.08 |
| MW-4 | 14.7-29.7 | O | 796.72 | 798.38 | 20.58 | 777.80 |
| MW-6 | 123.6-133.6 | BR | 819.82 | 819.69 | 14.56 | 805.13 |
| MW-11 | 6.0-16.0 | O | 778.32 | 780.22 | 5.17 | 775.05 |
| MW-12 | 23-33 | O | 778.42 | 780.95 | 5.90 | 775.05 |
| MW-13 | 67-72 | TOR | 779.20 | 782.22 | 8.06 | 774.16 |
| MW-14 | 69.2-74.2 | TOR | 796.39 | 798.45 | 17.62 | 780.83 |
| MW-15 | 69.5-99.5 | BR | 777.11 | 779.45 | 23.66 | 755.79 |
| MW-16 | 49-59 | BR | 768.14 | 770.37 | 10.68 | 759.69 |
| MW-19 | 154-169 | BR | 779.69 | 781.81 | 10.65 | 771.16 |
| MW-21 | 6.5-16.5 | TOR | 768.63 | 771.15 | 7.54 | 763.61 |
| MW-22 | 78-116 | BR | 780.45 | 782.65 | 10.41 | 772.24 |
| MW-23 | 83-93 | TOR | 808.97 | 811.47 | 11.42 | 800.05 |
| MW-25 | 40-50 | TOR | 774.40 | 776.71 | 11.06 | 765.65 |
| MW-26 | 56.7-66.7 | O | 790.40 | 793.09 | 15.16 | 777.93 |
| MW-27 | 69-99 | BR | 808.93 | 811.13 | 20.98 | 790.15 |
| MW-29R Zone 1 | 56.7-69.8 | BR | 784.90 | 787.03 | 17.15 | 769.88 |
| MW-29R Zone 2 | 127.3-139.5 | BR | 784.90 | 787.03 | 10.78 | 776.25 |
| MW-29R Zone 3 | 154.5-169.6 | BR | 784.90 | 787.03 | 26.61 | 760.42 |
| MW-29R Zone 4 | 177.6-202.2 | BR | 784.90 | 787.03 | 32.36 | 754.67 |
| MW-35 ^a | 152-162 | BR | 740.90 | 743.73 | 10.23 | 733.50 |
| MW-36 Zone 1 | 99.1-116 | BR | 783.00 | 785.63 | 9.87 | 775.76 |
| MW-36 Zone 2 | 139.5-150.7 | BR | 783.00 | 785.63 | 9.84 | 775.79 |
| MW-36 Zone 3 | 180.2-192.7 | BR | 783.00 | 785.63 | 15.48 | 770.15 |
| MW-36 Zone 4 | 225.6-239.2 | BR | 783.00 | 785.63 | 17.26 | 768.37 |
| MW-36 Zone 5 | 269.9-275 | BR | 783.00 | 785.63 | 21.16 | 764.47 |
| MW-37 Zone 1 | 185-195 | BR | 780.20 | 782.92 | 34.07 | 748.85 |
| MW-37 Zone 2 | 222-232 | BR | 780.20 | 782.84 | 29.50 | 753.34 |
| MW-37 Zone 3 | 257-272 | BR | 780.20 | 782.79 | 30.39 | 752.40 |
| MW-38 Zone 1 | 415-430 | BR | 768.10 | 771.23 | 15.53 | 755.70 |
| MW-38 Zone 2 ^{a,b} | 479.6-499.6 | BR | 768.10 | 771.18 | -0.50 | 771.68 |
| MW-39 Zone 1 | 95-105 | BR | 804.10 | 806.20 | 14.56 | 791.64 |
| MW-39 Zone 2 | 195-215 | BR | 804.10 | 806.20 | 35.26 | 770.94 |
| MW-39 Zone 3 | 280-300 | BR | 804.10 | 806.20 | 50.41 | 755.79 |
| MW-41 Zone 1 | 17-32 | BR | 733.40 | 736.56 | 6.86 | 729.70 |
| MW-41 Zone 2 ^a | 109-129 | BR | 733.40 | 736.79 | 3.10 | 733.69 |
| MW-41 Zone 3 | 279-299 | BR | 733.40 | 736.77 | 13.12 | 723.65 |
| MW-42 Zone 1 | 114-129 | BR | 785.50 | 785.44 | 34.01 | 751.43 |
| MW-42 Zone 2 | 202-222 | BR | 785.50 | 785.42 | 31.46 | 753.96 |
| MW-42 Zone 3 | 265-285 | BR | 785.50 | 785.40 | 40.11 | 745.29 |
| MW-43 Zone 1 | 91.8 - 111.8 | BR | 716.15 | 719.19 | 7.02 | 712.17 |
| MW-43 Zone 2 | 149.57 - 179.57 | BR | 716.15 | 719.20 | 4.59 | 714.61 |
| MW-43 Zone 3 | 261.8 - 281.8 | BR | 716.15 | 719.17 | 1.88 | 717.29 |
| MW-44 | 280-300 | BR | 741.00 | 743.95 | 10.14 | 733.81 |
| P1 | 24.5-39.5 | BR | 813.10 | 815.42 | 19.46 | 795.96 |
| P2 | 53-115 | BR | 783.93 | 785.65 | 11.48 | 774.17 |
| Alloy | 56-61 | BR | 789.56 | 791.69 | 14.90 | 776.79 |
| TW-40 | 84-94 | BR | 785.81 | 788.63 | 15.36 | 773.27 |
| TW-41 | 50.3-55.3 | BR | 775.50 | 778.84 | 15.30 | 763.54 |
| TW-42 | 21-26 | TOR | 775.86 | 778.09 | 14.76 | 763.33 |
| TW-43 | 8.6-18.6 | O | 775.82 | 778.15 | 14.62 | 763.53 |
| TW-44 | 64-74 | BR | 782.68 | 785.52 | 9.11 | 776.41 |
| TW-45 ^c | 18.8-28.8 | O | 816.70 | 816.76 | NG | NG |
| TW-46 | 83.3-88.3 | TOR | 816.72 | 816.58 | 22.97 | 793.61 |

bgs - below ground surface

BR - bedrock

NG - not gauged

O - overburden

TOR - top of rock

TOC - top of casing

NAVD88 - North American Vertical Datum of 1988

ft bgs - feet below ground surface

^a MW-35, MW-38 Zone 2, MW-41 Zone 2 TOC elevation has been adjusted by adding couplings and ball valve to surveyed elevation at top of casing.

elevation at top of casing.

^b Static depth to water readings at artesian well (MW-38 Zone 2) were measured by using a ruler to measure the height of flow coming from the flow valve.

^c Water level was not measured due to collapse of well.

Table 4. Quarterly Sampling Groundwater Analytical Results - February 2016

Owens Corning - Anderson, SC

| Sample ID | MCL | MW-15 | 16053-Dup ¹ | MW-22 | MW-29R Zone 3 | MW-29R Zone 4 | 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 | MW-38 Zone 1 | MW-38 Zone 2 | MW-39 Zone 1 | MW-39 Zone 2 | MW-39 Zone 3 | MW-41 Zone 1 | MW-41 Zone 2 | 16053-Dup-1 ² | MW-41 Zone 3 | MW-42 Zone 1 | MW-42 Zone 2 | MW-42 Zone 3 | MW-43 Zone 1 | MW-43 Zone 2 | MW-43 Zone 3 | MW-44 | | |
|-----------------------------------|--------|------------|------------------------|-----------|---------------|---------------|-----------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------|-------|--|
| Sample Date | | 2/22/16 | 2/22/16 | 2/23/16 | 2/23/16 | 2/23/16 | 2/22/16 | 2/23/16 | 2/23/16 | 2/24/15 | 2/24/16 | 2/24/16 | 2/24/16 | 2/23/16 | 2/23/16 | 2/23/16 | 2/23/16 | 2/23/16 | 2/22/16 | 2/22/16 | 2/22/16 | 2/22/16 | 2/24/16 | 2/24/16 | 2/24/16 | 2/22/16 | 2/22/16 | 2/22/16 | 2/22/16 | | |
| Screened Interval (ft) | (ug/L) | 69.5-99.5 | 69.5-99.5 | 78-116 | 154.5-169.6 | 177.6-202.2 | 152-162 | 99.1-116 | 180.2-192.7 | 269.9-275 | 185-195 | 222-232 | 257-272 | 415-430 | 479.6-499.6 | 95-105 | 195-215 | 280-300 | 17-32 | 109-129 | 109-129 | 279-299 | 114-129 | 202-222 | 265-285 | 92.5 - 112.5 | 150 - 180 | 262.5 - 282.5 | 280-300 | | |
| Volatile Organic Compounds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 200 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| 1,1-Dichloroethane | - | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| 1,1-Dichloroethene | 7 | 160 | 170 | 96 | 140 | 130 | 45 | < 5.0 | < 5.0 | NS | 96 | 160 | 45 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | 160 | 180 | 180 | 20 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| 1,2-Dichloroethane | 5 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| Benzene | 5 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| Carbon tetrachloride | 5 | < 5.0 | < 5.0 | 20 | 7.1 | 6.1 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | 6.1 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| Chloroform ³ | 80 | < 5.0 | < 5.0 | 6.6 | 5.9 | 5.7 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | 5.8 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| cis-1,2-Dichloroethene | 70 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| Ethylbenzene | 700 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| Methylene chloride | 5 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| Tetrachloroethene | 5 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| Toluene | 1,000 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| trans-1,2-Dichloroethene | 100 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| Trichloroethene | 5 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| Vinyl chloride | 2 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | NS | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | |
| Xylenes, total | 10,000 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| Field Parameters | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pH (s.u.) | - | 6.97 | NA | 5.70 | 5.58 | 5.60 | 9.40 | 6.08 | 7.25 | NS | 7.78 | 6.36 | 7.96 | 7.81 | 8.14 | 8.55 | 7.83 | 8.18 | 7.53 | 7.90 | NA | 9.51 | 10.22 | 7.85 | 8.15 | 6.55 | 8.09 | 8.07 | 9.43 | | |
| Temperature (degrees C) | - | 17.22 | NA | 18.49 | 16.01 | 15.85 | 16.08 | 15.77 | 14.24 | NS | 15.80 | 15.68 | 17.05 | 12.90 | 14.20 | 15.82 | 13.09 | 14.01 | 15.69 | 15.57 | NA | 15.62 | 17.92 | 18.67 | 16.97 | 16.43 | 16.23 | 16.43 | 15.93 | | |
| Specific Conductance (uS/cm) | - | 0.207 | NA | 0.141 | 0.168 | 0.148 | 0.305 | 0.100 | 1.319 | NS | 0.588 | 0.229 | 0.403 | 2.248 | 0.179 | 0.110 | 0.453 | 0.282 | 0.206 | 0.220 | NA | 0.353 | 0.207 | 0.814 | 0.252 | 0.080 | 0.196 | 0.316 | 0.212 | | |
| Eh (mV) | - | 64.1 | NA | 52.9 | 187.9 | 191.4 | 42.4 | 195.6 | -55.0 | NS | -187.0 | 64.7 | -167.9 | -136.3 | -144.0 | 0.0 | -105.2 | -118.3 | -4.2 | -113.9 | NA | -89.2 | 70.7 | -135.6 | -143.0 | 81.8 | -74.8 | -93.3 | 28.3 | | |
| Dissolved Oxygen (mg/L) | - | 0.56 | NA | 4.64 | 7.96 | 7.63 | 0.60 | 4.94 | 9.92 | NS | 0.78 | 0.81 | 1.01 | 6.38 | 2.38 | 6.52 | 1.93 | 2.55 | 1.11 | 0.58 | NA | 1.41 | 4.51 | 1.73 | 2.17 | 4.45 | 9.22 | 1.35 | 0.77 | | |
| Turbidity (NTU) | - | 1.97 | NA | 5.33 | 0.42 | 0.80 | 6.60 | 0.32 | <10 | NS | 2.19 | 1.76 | 2.02 | 10.94 | 1.19 | 1.20 | 9.17 | 6.39 | 9.13 | 6.28 | NA | 56.00 | 11.40 | 2.56 | 12.80 | 7.23 | 6.12 | 6.12 | 2.5 | | |

ft - feet
MCL - Maximum Contaminant Level
ug/L - micrograms per liter
mg/L - milligrams per liter
uS/cm - microsiemens per centimeter
mV - millivolts
NTU - nephelometric turbidity units
NS - not sampled due to insufficient water in zone.
s.u. - standard units
¹ 16053-Dup was collected from MW-15.
² 16053-Dup-1 was collected from MW-41 Zone 2.
³ MCL listed for Chloroform is for Total Trihalomethanes.
Bold VOC results indicate concentration above the MCL.

Table 5. Quarterly Sampling Groundwater Analytical Results - May 2016

Owens Corning - Anderson, SC

| Sample ID | MCL (ug/L) | MW-15 | MW-22 | MW-29R Zone 3 | MW-29R Zone 4 | 16131-Dup-2 ¹ | 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 | MW-38 Zone 1 | MW-38 Zone 2 | MW-39 Zone 1 | MW-39 Zone 2 | MW-39 Zone 3 | MW-41 Zone 1 | MW-41 Zone 2 | 16131-Dup-1 ² | MW-41 Zone 3 | MW-42 Zone 1 | MW-42 Zone 2 | MW-42 Zone 3 | MW-43 Zone 1 | MW-43 Zone 2 | MW-43 Zone 3 | MW-44 | | |
|-----------------------------------|------------|------------|------------|---------------|---------------|--------------------------|-----------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------|-------|--|
| Sample Date | | 5/10/16 | 5/10/16 | 5/10/16 | 5/10/16 | 5/10/16 | 5/9/16 | 5/10/16 | 5/10/16 | - | 5/11/16 | 5/11/16 | 5/11/16 | 5/10/16 | 5/11/16 | 5/11/16 | 5/11/16 | 5/11/16 | 5/10/16 | 5/10/16 | 5/10/16 | 5/10/16 | 5/11/16 | 5/11/16 | 5/11/16 | 5/9/16 | 5/9/16 | 5/9/16 | 5/10/16 | | |
| Screened Interval (ft) | | 69.5-99.5 | 78-116 | 154.5-169.6 | 177.6-202.2 | - | 152-162 | 99.1-116 | 180.2-192.7 | 269.9-275 | 185-195 | 222-232 | 257-272 | 415-430 | 479.6-499.6 | 95-105 | 195-215 | 280-300 | 17-32 | 109-129 | - | 279-299 | 114-129 | 202-222 | 265-285 | 92.5 - 112.5 | 150 - 180 | 262.5 - 282.5 | 280-300 | | |
| Volatile Organic Compounds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 200 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| 1,1-Dichloroethane | - | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| 1,1-Dichloroethane | 7 | 180 | 300 | 240 | 220 | 300 | 50 | < 5.0 | < 5.0 | NS | 73 | 290 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | 130 | 190 | 200 | 17 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| 1,2-Dichloroethane | 5 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| Benzene | 5 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| Carbon tetrachloride | 5 | < 5.0 | 22 | 13 | 10 | 9.3 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | 12 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| Chloroform ³ | 80 | < 5.0 | 8.2 | 8.1 | 7.9 | 7.9 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | 7.9 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| cis-1,2-Dichloroethene | 70 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| Ethylbenzene | 700 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| Methylene chloride | 5 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| Tetrachloroethene | 5 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| Toluene | 1,000 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| trans-1,2-Dichloroethene | 100 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| Trichloroethene | 5 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| Vinyl chloride | 2 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | NS | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | |
| Xylenes, total | 10,000 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | NS | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | |
| Field Parameters | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pH (s.u.) | - | 6.17 | 4.99 | 5.33 | 5.39 | NA | 8.07 | 5.72 | 7.03 | NS | 7.64 | 6.15 | 7.64 | 7.59 | 7.44 | 5.71 | 7.72 | 7.88 | 7.47 | 7.82 | NA | 9.49 | 9.94 | 7.49 | 7.50 | 6.47 | 8.02 | 7.79 | 8.66 | | |
| Temperature (degrees C) | - | 17.53 | 18.14 | 16.76 | 17.70 | NA | 16.40 | 16.76 | 26.07 | NS | 16.77 | 15.54 | 16.67 | 21.11 | 17.90 | 17.69 | 27.89 | 29.15 | 15.52 | 15.74 | NA | 16.42 | 17.48 | 18.41 | 18.85 | 16.37 | 17.75 | 22.19 | 16.31 | | |
| Specific Conductance (uS/cm) | - | 0.193 | 0.132 | 0.166 | 0.143 | NA | 0.192 | 0.095 | 1.309 | NS | 0.557 | 0.212 | 0.402 | 2.022 | 0.177 | 0.087 | 0.444 | 0.290 | 0.188 | 0.215 | NA | 0.346 | 0.231 | 0.651 | 0.209 | 0.087 | 0.203 | 0.316 | 0.213 | | |
| Eh (mV) | - | -436.7 | -191.7 | 98.0 | 87.9 | NA | -164.2 | 133.4 | 29.6 | NS | -242.8 | 26.1 | -100.5 | -413.2 | -269.3 | -60.3 | -458.7 | -168.9 | 25.7 | -13.6 | NA | -37.2 | -198.6 | -336.8 | -287.7 | 87.2 | -38.9 | -311.9 | -439.6 | | |
| Dissolved Oxygen (mg/L) | - | 0.38 | 2.25 | 59.92 | 41.86 | NA | 0.79 | 67.13 | 50.59 | NS | 29.57 | 25.01 | 27.69 | 0.78 | 1.90 | 3.89 | 0.25 | 16.15 | 33.12 | 21.72 | NA | 70.53 | 2.99 | 0.81 | 0.88 | 44.63 | 10.82 | 10.41 | 0.35 | | |
| Turbidity (NTU) | - | 0.82 | 0.19 | 0.00 | 0.00 | NA | 1.53 | 0.00 | <10 | NS | 8.04 | 2.72 | 1.15 | 177 | 0.00 | 1.19 | 27.8 | 16.3 | 0.00 | 1.02 | NA | 69.4 | 4.03 | 6.04 | 9.98 | 5.46 | 5.97 | 45.1 | 1.10 | | |

ft - feet
MCL - Maximum Contaminant Level
ug/L - micrograms per liter
mg/L - milligrams per liter
uS/cm - microsiemens per centimeter
mV - millivolts
NTU - nephelometric turbidity units
NS - not sampled due to insufficient water in zone.
s.u. - standard units
¹ 16131-Dup-2 was collected from MW-29R-Zone 4.
² 16131-Dup-1 was collected from MW-41 Zone 2.
³ MCL listed for Chloroform is for Total Trihalomethanes.
Bold VOC results indicate concentration above the MCL.

Table 6. Residential Well Analytical Results - May 2016

Owens Corning - Anderson, SC

| Sample ID | | 628 Airline Road | 412 Kaye Drive | 117 Faye Drive | 303 Kaye Drive | 200 Kaye Drive | 119 Cloverhill Drive | 721 Clinkscales Road | 200 Friendship Lane |
|-----------------------------------|------------|------------------|----------------|----------------|----------------|----------------|----------------------|----------------------|---------------------|
| Sample Date | MCL (ug/L) | 5/12/16 | 5/12/16 | 5/12/16 | 5/12/16 | 5/12/16 | 5/12/16 | 5/12/16 | 5/12/16 |
| Volatile Organic Compounds | | | | | | | | | |
| 1,1,1-Trichloroethane | 200 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 1,1-Dichloroethane | - | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 1,1-Dichloroethene | 7 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 1,2-Dichloroethane | 5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Benzene | 5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Carbon tetrachloride | 5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Chloroform ¹ | 80 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| cis-1,2-Dichloroethene | 70 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Ethylbenzene | 700 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Methylene chloride | 5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Tetrachloroethene | 5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Toluene | 1,000 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| trans-1,2-Dichloroethene | 100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Trichloroethene | 5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Vinyl chloride | 2 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| Xylenes, total | 10,000 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Field Parameters | | | | | | | | | |
| pH (s.u.) | - | 5.51 | 6.28 | 7.03 | 6.18 | 6.33 | 6.15 | 6.47 | 6.27 |
| Temperature (degrees C) | - | 15.81 | 19.34 | 16.51 | 16.84 | 16.58 | 15.67 | 16.53 | 19.67 |
| Specific Conductance (uS/cm) | - | 0.080 | 0.041 | 0.268 | 0.144 | 0.076 | 0.035 | 0.036 | 0.071 |
| Eh (mV) | - | 155.6 | 97.2 | 124.3 | 95.1 | 133.4 | 123.5 | 129.6 | 134.5 |
| Dissolved Oxygen (mg/L) | - | 158.62 | 121.26 | 133.41 | 167.03 | 162.79 | 189.84 | 214.89 | 170.30 |
| Turbidity (NTU) | - | 1.29 | 4.14 | 2.32 | 3.04 | 0.00 | 1.46 | 0.00 | 3.21 |

MCL - Maximum Contaminant Level

ug/L - micrograms per liter

mg/L - milligrams per liter

uS/cm - microsiemens per centimeter

mV - millivolts

NTU - nephelometric turbidity units

NS- not sampled

s.u. - standard units

¹ MCL listed for Chloroform is for Total Trihalomethanes.**Bold** VOC results indicate concentration above the MCL.

**Table 7. Residential Well Location Map ID
Owens Corning - Anderson, SC**

| Map ID* | Location | Map ID* | Location |
|---------|-------------------------|---------|-----------------------|
| 1 | 3715 Mabry Street | 38 | 215 Elrod Road |
| 2 | 634 Airline Road | 39 | 115 Elrod Road |
| 3 | 3735 Keys Street | 40 | 119 Cloverhill Drive |
| 4 | 1100 Airline Road | 41 | 122 Kayle Drive |
| 5 | 3721 Keys Street | 42 | 138 Kayle Drive |
| 6 | 4004 Keys Street | 43 | 1802 Airline Road |
| 7 | 605 Clinkscales Road | 44 | 1303 Clinkscales Road |
| 8 | 134 Friendship Lane | 45 | 815 Airline Road |
| 9 | 138 Friendship Lane | 46 | 300 Jones Road |
| 10 | 200 Friendship Lane | 47 | 5104 Johnson Street |
| 11 | 721 Clinkscales Road | 48 | 104 Herbs Lane |
| 12 | 711 Clinkscales Road | 49 | 203 Travis Road |
| 13 | 628 Airline Road | 50 | 107 Jones Road |
| 14 | 3731 Keys Street | 51 | 303 Flat Rock Road |
| 15 | 3713 Keys Street | 52 | 4518 Keys Street |
| 16 | 624 True Temper Road | 53 | 4608 Keys Street |
| 17 | 1501 Airline Road | 54 | 4610 Keys Street |
| 18 | 420 True Temper Road | 55 | 5005 Johnson Street |
| 19 | 408 Clinkscales Road | 56 | 5009 Johnson Street |
| 20 | 401 Clinkscales Road | 57 | 5010 Johnson Street |
| 21 | 4515 Keys Street | 58 | 5014 Johnson Street |
| 22 | 305 Harry Drive | 59 | 5101 Johnson Street |
| 23 | 150 Clinkscales Road | 60 | 4906 Highway 81 South |
| 24 | 943 Flat Rock Road | 61 | 5305 Highway 81 South |
| 25 | 325 Clinkscales Road | 62 | 116 Young Road |
| 26 | 322 Clinkscales Road | 63 | 201 True Temper Road |
| 27 | 321 Clinkscales Road | 64 | 106 Pickens Circle |
| 28 | 137 Knowlandwood Circle | 65 | 110 Pickens Circle |
| 29 | 412 Kaye Drive | 66 | 123 Pickens Circle |
| 30 | 413 Kaye Drive | 67 | 127 Pickens Circle |
| 31 | 311 Kaye Drive | 68 | 131 Pickens Circle |
| 32 | 117 Faye Drive | 69 | 136 Pickens Circle |
| 33 | 303 Kaye Drive | 70 | 206 Wesley Court |
| 34 | End of Kaye Drive | 71 | 104 Harry Drive |
| 35 | 217 Kaye Drive | 72 | 299 True Temper Road |
| 36 | 200 Kaye Drive | 73 | 119 True Temper Road |
| 37 | 335 Elrod Road | | |

* Map ID corresponds to Figure 12 - Residential Well Sampling Location Map - May 2016

Appendix A: Groundwater Sampling Field Data Sheets



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-15

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: Outside of Facility
 Client: Owens Corning Personnel: JPL
 Project Location: Anderson, South Carolina Weather: overcast 63°

2. WELL DATA

Date Measured: 2/2/16 Time: 1316 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: 22.5 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 feet Well Volume: 12.86 gal Screened Interval (from GS): 69.5-92.5
 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: 2/2/16 Time: 1740 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: 1.25 gal/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|-------------------------|----------------------------|---------------|--------------|---|----------------------------|------------------------------|-----------------------|-------------|-------------|
| 1746 | 1.0 | 7.48 | 17.17 | 0.243 | 63.8 | 0.74 | 4.44 | 29.5 | |
| 1751 | 2.0 | 7.22 | 17.18 | 0.224 | 63.5 | 0.74 | 4.68 | 30.1 | |
| 1755 | 3.0 | 7.13 | 17.19 | 0.220 | 63.9 | 0.71 | 4.00 | 30.4 | |
| 1759 | 4.0 | 7.09 | 17.19 | 0.217 | 64.0 | 0.68 | 2.77 | 30.6 | Slowed pump |
| 1800 1805 | 5.25 | 7.00 | 17.21 | 0.209 | 64.2 | 0.59 | 2.24 | 30.9 | Water spike |

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: 30.9 Field Filtered? Yes No
 Sample ID: 16053-MW-15 Sample Date: 2/2/16 Sample Time: 1812 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: 16053-DUP # of Containers: 2
 Equipment Blank Collected? Yes No ID: 16053-EB # of Containers: 2

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-15

3. BURGE DATA (continued from page 1)

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|------|----------------------------|------|-------|--------------------------|---------------------|------------------------|-----------|-------------|----------|
| | | ±0.1 | ±0.2 | > of ±3% or ±0.010 mS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1809 | 6.0 | 6.97 | 17.37 | 0.207 | 641 | 0.56 | 1.97 | 30.9 | |
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Purge data continued on next sheet?

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Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-22

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: Woods onsite
 Client: Owens Corning Personnel: JPL
 Project Location: Anderson, South Carolina Weather: overcast (50s)

2. WELL DATA

Date Measured: 2/23/16 Time: 0840 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: 9.15 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: 106.95 feet Well Volume: 279 gal Screened Interval (from GS): 70-116

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: 2/23/16 Time: 0845 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): 411 stable well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: 11.25 gal/min Calibrated? Yes No

1. YSI
2. LaMotte
3. Monsoon
4. _____

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|-------------|----------------------------|---------------|--------------|---|----------------------------|------------------------------|-----------------------|-------------|--------------------|
| <u>0859</u> | <u>1.0</u> | <u>5.92</u> | <u>18.41</u> | <u>.144</u> | <u>35.2</u> | <u>4.73</u> | <u>71000</u> | <u>10</u> | |
| <u>0905</u> | <u>2.0</u> | <u>5.67</u> | <u>18.51</u> | <u>.140</u> | <u>40.1</u> | <u>4.53</u> | <u>71000</u> | <u>9.8</u> | |
| <u>0909</u> | <u>3.25</u> | <u>5.68</u> | <u>18.51</u> | <u>.140</u> | <u>40.9</u> | <u>4.51</u> | <u>6.76</u> | <u>9.1</u> | <u>Slowed Pump</u> |
| <u>0915</u> | <u>4.25</u> | <u>5.66</u> | <u>18.50</u> | <u>.140</u> | <u>47.9</u> | <u>4.49</u> | <u>4.83</u> | <u>9.1</u> | |
| <u>0908</u> | <u>5.0</u> | <u>5.70</u> | <u>18.49</u> | <u>.141</u> | <u>52.9</u> | <u>4.64</u> | <u>5.33</u> | <u>9.1</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: 16054-MW-22 Sample Date: 2/23/16 Sample Time: 0920 # 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

purged 4 gallons before starting to take readings
b/c turbidity was high & gritty grey turbidity for about
10 minutes

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 3-Waterloo

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: _____
 Client: Owens Corning Personnel: GAGA?
 Project Location: Anderson, South Carolina Weather: OVERCAST, 60°F

2. WELL DATA

Date Measured: 2.23.16 Time: 0900 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: 694.2 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: 139.8 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 = 0.687 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 2.23.16 Time: 0920 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 STABILITY gallons
 Was well purged dry? Yes No Pumping Rate: .1 gal/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|--|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 0935 | 0.25 | 5.65 | 15.89 | 0.178 | 165.5 | 8.70 | 1.21 | 6913.4 | |
| 0940 | 0.5 | 5.63 | 15.95 | 0.176 | 171.5 | 8.49 | 0.76 | 6913.7 | |
| 0945 | 0.75 | 5.59 | 15.99 | 0.175 | 181.4 | 8.13 | 0.62 | 6913.5 | |
| 0950 | 1.0 | 5.58 | 16.02 | 0.172 | 185.4 | 7.98 | 0.58 | 6913.4 | |
| 0955 | 1.25 | 5.58 | 16.01 | 0.168 | 187.9 | 7.96 | 0.42 | 6913.4 | |

SAMPLED @ 1000

Purge data continued on next sheet?

4. SAMPLING DATA

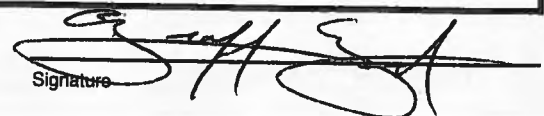
Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 16054-MW-29R -
 Sample ID: ZONE3 Sample Date: 2.23.16 Sample Time: 1000 # 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

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: _____
 Client: Owens Corning Personnel: GAGAT
 Project Location: Anderson, South Carolina Weather: OVERCAST 46°F

2. WELL DATA

Date Measured: 2.23.16 Time: 1005 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: 6250.0 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: _____ 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: 2.23.16 Time: 1010 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): _____ well volumes or STABILITY gallons
 Was well purged dry? Yes No Pumping Rate: 1.25 gal/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|---|----------------------------|------------------------------|-----------------------|-------------|----------|
| 1015 | 0.25 | 5.61 | 14.13 | 0.151 | 202.8 | 9.77 | 2.19 | 6279 | |
| 1020 | 0.5 | 5.63 | 15.02 | 0.150 | 188.3 | 2.34 | 0.98 | 6260 | |
| 1025 | 0.75 | 5.67 | 15.80 | 0.147 | 178.9 | 7.38 | 0.94 | 6268 | |
| 1030 | 1.0 | 5.70 | 15.81 | 0.146 | 177.2 | 7.35 | 0.94 | 6272 | |
| 1035 | 1.25 | 5.65 | 15.77 | 0.147 | 188.0 | 7.77 | 0.88 | 6274 | |

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: 6270 Field Filtered? Yes No
 Sample ID: 20250 Sample Date: 2.23.16 Sample Time: 1050 # 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 4-Waterloo

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 ±0.010 mS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1040 | 1.5 | 5.60 | 15.86 | 0.148 | 190.4 | 7.63 | 0.85 | 6269 | |
| 1045 | 1.75 | 5.60 | 15.85 | 0.148 | 191.4 | 7.63 | 0.80 | 6270 | |
| | | SAMPLED @ | | | | 1050 | | | |
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Purge data continued on next sheet?

Signature _____

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-35

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: Dohi Area
 Client: Owens Corning Personnel: JPL
 Project Location: Anderson, South Carolina Weather: overcast

2. WELL DATA

Date Measured: 4/22/16 Time: 1535 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: 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: 9.6 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 152.4 feet Well Volume: 25.5 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: 2/22/16 Time: 1545 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): 1115 well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: 1.25 gal/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|-------------|----------------------------|---------------|--------------|--|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| <u>1607</u> | <u>1.0</u> | <u>9.99</u> | <u>15.06</u> | <u>0.253</u> | <u>85.8</u> | <u>1.09</u> | <u>66.8</u> | <u>10.1</u> | |
| <u>1621</u> | <u>2.0</u> | <u>9.82</u> | <u>16.09</u> | <u>0.348</u> | <u>63.9</u> | <u>0.96</u> | <u>54.8</u> | <u>12.1</u> | |
| <u>1626</u> | <u>3.0</u> | <u>9.84</u> | <u>16.12</u> | <u>0.330</u> | <u>56.8</u> | <u>0.78</u> | <u>31.3</u> | <u>13.0</u> | |
| <u>1631</u> | <u>4.0</u> | <u>9.48</u> | <u>16.14</u> | <u>0.331</u> | <u>47.1</u> | <u>0.59</u> | <u>10.2</u> | <u>13.6</u> | |
| <u>1634</u> | <u>4.5</u> | <u>9.47</u> | <u>16.11</u> | <u>0.318</u> | <u>46.3</u> | <u>0.57</u> | <u>10.45</u> | <u>13.0</u> | |

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: 13.0 Field Filtered? Yes No
 Sample ID: 16053-MW-35 Sample Date: 2/22 Sample Time: 1642 # 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

Not artesian

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

John J. Lane

GROUNDWATER SAMPLING FIELD DATA SHEET

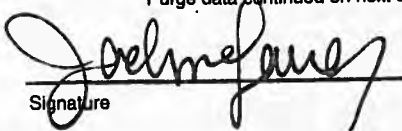
BROWN AND CALDWELL

WELL ID: MW-35

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 | ±0.2 °C | > of ±3% or ±0.010 mS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1636 | 5.0 | 9.45 | 16.08 | 0.313 | 45.0 | 0.56 | 10.03 | 13.0 | |
| 1640 | 6.0 | 9.40 | 16.09 | 0.305 | 42.4 | 0.60 | 6.60 | 13.0 | |
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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: 148917 Task Number: 100-xxx Area of Concern: _____
 Client: Owens Corning Personnel: GAGAT
 Project Location: Anderson, South Carolina Weather: OVERCAST, 48°F

2. WELL DATA

Date Measured: 2.23.16 Time: 1120 Temporary Well: Yes No

Casing Diameter: 2 inches
 Screen Diameter: 6 inches
 Sampling Interval: 99.1-116 feet
 Depth to Static Water: 6127.5 Dg
 Depth to Product: — feet
 Length of Water Column: 100.9 feet

Length of water column calculation:
 (8558.7-Current Dg reading)*0.01797*2.3108 = Length of water column (ft)
 Well Vol. calculation:
 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)

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: 2.23.16 Time: 1125 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): _____ well volumes or STABILITY gallons

Was well purged dry? Yes No Pumping Rate: 1.35 gal/min Calibrated? Yes No

- Equipment Model(s)
- GEORON
 - YS3
 - MP-50
 - _____

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|--|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 1130 | 0.2 | 6.10 | 15.72 | 0.099 | 190.8 | 4.87 | 0.32 | 6129.9 | |
| 1135 | 0.4 | 6.08 | 15.73 | 0.101 | 193.4 | 4.99 | 0.25 | 6132.1 | |
| 1140 | 0.6 | 6.08 | 15.77 | 0.100 | 195.6 | 4.94 | 0.32 | 6128.4 | |
| | | | | SAMPLED | @ | 1145 | | | |

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

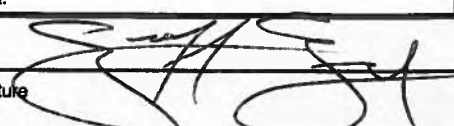
Depth to Water at Time of Sampling: 6128.4 Field Filtered? Yes No
 16054-MW-36-
 Sample ID: Zone 1 Sample Date: 2.23.16 Sample Time: 1145 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

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 3-Waterloo

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: _____
 Client: Owens Corning Personnel: _____
 Project Location: Anderson, South Carolina Weather: _____

2. WELL DATA

Date Measured: 2-23-16 Time: 1405 Temporary Well: Yes No

Casing Diameter: 2 inches
 Screen Diameter: 6 inches
 Sampling Interval: 180.2-192.7 feet
 Depth to Static Water: 690.3 feet
 Depth to Product: feet
 Length of Water Column: 169.4 feet

Length of water column calculation:
 $(9093.1 - \text{Current Dg reading}) * 0.02725 * 2.3108 = \text{Length of water column (ft)}$
 Well Vol. calculation:
 $1 \text{ well vol.} = [\text{vol sand interval (6") - vol of waterloo casing (2")}] + \text{vol of water in tubing (1/4")}$
 $= [18.36 \text{ gal} - 2.09 \text{ gal}] + (0.0102 \times \text{length of water column})$

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: 2-23-16 Time: 1410 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: _____

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

Volume to Purge (minimum): well volumes or STABILIZED 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 ±0.010 mS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1420 | 0.1 | 7.25 | 14.24 | 1.319 | -55.0 | 9.92 | 610 | 7510.2 | |
| | | STOPPED | | PUMPING TO | | LET | | RECHARGE | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

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

16054-MW-36
 Sample ID: Zone 3 Sample Date: 2-23-16 Sample Time: 1600 # 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 DLEWDOWN During Purge Letting
RECHARGE TO SAMPLE. TOOK SAMPLE AFTER SOME
RECHARGE ENOUGH TO SAMPLE.

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-37 Zone 1

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: _____
 Client: Owens Corning Personnel: GAGAT
 Project Location: Anderson, South Carolina Weather: OVERCAST, 55°F

2. WELL DATA

Date Measured: 2-24-16 Time: 0905 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: 31.91 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: 163.1 feet Well Volume: 6.7 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 8-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 2-24-16 Time: 0935 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): — well volumes or STABILITY gallons
 Was well purged dry? Yes No Pumping Rate: 1-25 gal/min Calibrated? Yes No

1. MP-50
2. SOLINST
3. YSI
4. _____

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|--|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 0940 | 0.29 | 7.56 | 15.83 | 0.587 | -171.8 | 1.09 | 3.04 | 37.7 | |
| 0945 | 0.75 | 7.74 | 15.86 | 0.587 | -186.2 | 0.78 | 2.92 | 43.9 | |
| 0950 | 1.2 | 7.76 | 15.85 | 0.586 | -186.3 | 0.85 | 2.51 | 51.7 | |
| 0955 | 1.5 | 7.78 | 15.80 | 0.588 | -187.5 | 0.75 | 2.31 | 60.9 | |
| 1000 | 1.8 | 7.78 | 15.80 | 0.588 | -187.0 | 0.78 | 2.19 | 65.2 | |

SAMPLED @ 1005

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: 65.2 Field Filtered? Yes No
 Sample ID: 16055-MW-37-Zone 1 Sample Date: 2-24-16 Sample Time: 1005 # 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-37 Zone 2

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: _____
 Client: Owens Corning Personnel: _____
 Project Location: Anderson, South Carolina Weather: _____

2. WELL DATA

Date Measured: 2-24-16 Time: 1330 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: 27.61 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: 204.4 feet Well Volume: 22078.3 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: 2-24-16 Time: 1400 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 STABILIT gallons
 Was well purged dry? Yes No Pumping Rate: .1 - .25 gal/min Calibrated? Yes No

1. YSI
2. MP-50
3. SOLINST
4. LANOTTE 2020

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|--|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 1405 | 0.5 | 10.20 | 16.58 | 0.284 | -64.2 | 1.15 | 5.87 | 28.42 | |
| 1410 | 0.8 | 8.34 | 16.16 | 0.263 | -3.9 | 0.36 | 4.21 | 28.55 | |
| 1415 | 1.2 | 7.07 | 16.06 | 0.257 | 18.0 | 0.79 | 3.27 | 28.67 | |
| 1420 | 1.6 | 6.55 | 16.01 | 0.242 | 24.6 | 0.83 | 2.92 | 28.52 | |
| 1425 | 2.0 | 6.50 | 16.00 | 0.235 | 40.7 | 0.91 | 2.64 | 28.31 | |

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: 16055-MW-37-Zone 2 Sample Date: 2-24-16 Sample Time: 1450 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: 1
 Equipment Blank Collected? Yes No ID: 16055-EB # of Containers: 2

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-37 Zone 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 ±0.010 mS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1430 | 2.4 | 6.47 | 16.09 | 0.234 | 43.7 | 0.90 | 2.19 | 26.29 | |
| 1435 | 2.6 | 6.41 | 15.94 | 0.231 | 51.9 | 0.89 | 2.01 | 26.19 | |
| 1440 | 2.8 | 6.39 | 15.87 | 0.231 | 57.2 | 0.87 | 1.92 | 28.17 | |
| 1445 | 3.1 | 6.36 | 15.68 | 0.229 | 64.7 | 0.81 | 1.76 | 28.17 | |
| | | | SAMPLED @ | | 1450 | | | | |
| | | | | | | | | | |

Purge data continued on next sheet?

Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-37 Zone 3

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: _____
 Client: Owens Corning Personnel: _____
 Project Location: Anderson, South Carolina Weather: _____

2. WELL DATA

Date Measured: 2-29-16 Time: 1035 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: 30.34 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: 241.6 feet Well Volume: 9.91 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: 2-24-16 Time: 1055 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): _____ well volumes or STABILITY gallons
 Was well purged dry? Yes No Pumping Rate: 1-25 gal/min Calibrated? Yes No

1. YSI
2. MP-50
3. SOLINST
4. _____

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|--|-------------------------------|---------------------------------|-----------------------|-------------|-----------------------|
| 1100 | 0.25 | 8.06 | 16.60 | 0.403 | -157.9 | 1.16 | 14.0 | 26.4 | |
| 1105 | 0.5 | 8.02 | 16.80 | 0.402 | -171.4 | 1.04 | 16.0 | 33.2 | BLACK, FILL WITH DIRT |
| 1110 | 0.7 | 8.00 | 17.12 | 0.402 | -171.5 | 1.11 | 12.1 | 39.9 | |
| 1115 | 0.9 | 7.98 | 17.04 | 0.403 | -170.6 | 1.04 | 3.94 | 43.6 | |
| 1120 | 1.1 | 7.97 | 17.27 | 0.403 | -169.9 | 1.03 | 2.14 | 47.9 | |

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: 53.1 Field Filtered? Yes No
 Sample ID: 16055-MW-37-Zone 3 Sample Date: 2-24-16 Sample Time: 1130 # 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

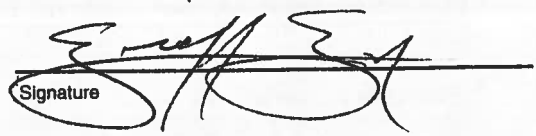
BROWN AND CALDWELL

WELL ID: MW-37 Zone 3

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 ±0.010 mS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1125 | 1.3 | 7.96 | 17.05 | 0.403 | -167.9 | 1.01 | 2.02 | 53.1 | |
| | | SAMPLED @ | | 1130 | | | | | |
| <div style="font-size: 4em; opacity: 0.5;">X</div> | | | | | | | | | |

Purge data cont nued on next sheet?


 Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-38 Zone 1

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-XXX Area of Concern: _____
 Client: Owens Corning Personnel: NOVACK
 Project Location: Anderson, South Carolina Weather: overcast / 60°F

2. WELL DATA

Date Measured: 2/23/16 Time: 3:15 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: 430 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 15.5 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: 414.5 feet Well Volume: 16.9 gal Screened Interval (from GS): 415-430
 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: 2/23/16 Time: 9:40 Equipment Model(s):
 Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____ 1. Salinostat
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____ 2. YSI
 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): _____ well volumes or Stability 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 ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|---|----------------------------|------------------------------|-----------------------|-------------|--------------------------------|
| 1000 | 0.50 | 7.85 | 12.26 | 1.858 | -121.9 | 3.46 | 92.2 | 10.7 | |
| 1026 | 0.75 | 8.31 | 13.86 | 2.095 | -75.3 | 1.57 | 71000 | 22.1 | Turbidity, milky to gray-black |
| 1039 | 1.25 | 8.35 | 14.00 | 2.097 | -58.2 | 1.09 | 41.0 | 33.3 | |
| 1053 | 1.75 | 7.85 | 14.29 | 2.305 | -123.8 | 7.77 | 42.8 44.1 | 44.1 | |
| 1104 | 2.00 | 7.83 | 14.12 | 2.291 | -136.2 | 7.42 | 28.1 | 55.0 | |

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Salinostat
 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: 2021 Sample Date: 2-23-16 Sample Time: _____ # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Purge data continued on next sheet?

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-38 Zone 1

3. PURGE DATA (continued from page _____)

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|--|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 1116 | 2.25 | 7.42 | 13.78 | 2.275 | -139.8 | 6.98 | 15.8 | 59.2 | |
| 1128 | 2.50 | 7.81 | 13.48 | 2.265 | -139.2 | 6.65 | 12.0 | 63.9 | |
| 1140 | 2.75 | 7.81 | 13.33 | 2.256 | -137.5 | 6.37 | 12.31 | 64.8 | |
| 1145 | 2.85 | 7.81 | 13.12 | 2.255 | -136.7 | 6.35 | 12.45 | 65.3 | |
| 1150 | 2.95 | 7.81 | 12.90 | 2.248 | -136.3 | 6.38 | 10.94 | 65.9 | |
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Purge data continued on next sheet?

Signature _____

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-38 Zone 2

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: Crating Intersection
 Client: Owens Corning Personnel: JPL + CD
 Project Location: Anderson, South Carolina Weather: overcast

2. WELL DATA

Date Measured: 2/23/16 Time: 1040 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: 499.6 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: -1 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: Artesian
 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: 2/23/16 Time: 1054 Equipment Model(s):

Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Artesian
 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): till stable volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: ~0.1 gal/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|---|----------------------------|------------------------------|-----------------------|-------------|----------|
| 1057 | 0.5 | 8.09 | 14.68 | 0.180 | -110.2 | 3.97 | 0.79 | -1 | |
| 1103 | 1.0 | 8.10 | 14.77 | 0.181 | -122.7 | 3.82 | 0.68 | -1 | |
| 1108 | 1.5 | 8.12 | 14.66 | 0.180 | -131.0 | 2.74 | 0.78 | -1 | |
| 1115 | 2.0 | 8.12 | 14.45 | 0.179 | -137.0 | 2.51 | 0.70 | -1 | |
| 1127 | 2.5 | 8.14 | 14.20 | 0.179 | -144.0 | 2.38 | 1.19 | -1 | |

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: Artesian
 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: -1 Field Filtered? Yes No
 Sample ID: 16054-MW-38-22 Sample Date: 2/23/16 Sample Time: 1130 # 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 is Artesian

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-39 Zone 1

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-XXX Area of Concern: Backyard of house
 Client: Owens Corning Personnel: OPL + CN
 Project Location: Anderson, South Carolina Weather: Overcast

2. WELL DATA

Date Measured: 2/23/16 Time: 9:14:14 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: 105 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: ~~105~~ 13.0 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: ~~105~~ 92.0 feet Well Volume: ~~105~~ 3.77 gal Screened Interval (from GS): 95-105
 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: 2/23/16 Time: 15:13 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: PS
 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: 2.1 gal/min Calibrated? Yes No

- Equipment Model(s)
 1. YSI
 2. LaMotte
 3. Solinst
 4. _____

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|--|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 1522 | 1.0 | 8.36 | 15.79 | .112 | -33.1 | 6.71 | 1.62 | 14.6 | |
| 1530 | 2.0 | 8.53 | 15.87 | .112 | -16.3 | 6.53 | 0.83 | 14.4 | |
| 1539 | 3.0 | 8.57 | 15.86 | .111 | -6.2 | 6.57 | 0.81 | 14.4 | |
| 1547 | 4.0 | 8.55 | 15.82 | .110 | 0.04 | 6.52 | 1.2 | 14.4 | |

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: 14.4 Field Filtered? Yes No
 Sample ID: 16054-MW-39-21 Sample Date: 2/23/16 Sample Time: 1550 # 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.

Signature: [Handwritten Signature]

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-39 Zone 2

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: Backyard
 Client: Owens Corning Personnel: JPL + CN
 Project Location: Anderson, South Carolina Weather: Overcast

2. WELL DATA

Date Measured: 2/23/16 Time: 1600 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: 215 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 33.5 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: 181.5 feet Well Volume: 7.44 gal Screened Interval (from GS): 195-215
 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: 2/23/16 Time: 1602 Equipment Model(s):
 Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: YSI
 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): fill well full volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: 2.1 gal/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|---|----------------------------|------------------------------|-----------------------|-------------|-------------------------------|
| 1616 | 0.5 | 7.96 | 14.08 | 0.454 | -89.6 | 2.21 | 21.7 | 48.7 | |
| 1624 | 1.0 | 7.94 | 13.67 | 0.449 | -99.6 | 2.09 | 12.0 | 53.7 | |
| 1642 | 1.5 | 7.99 | 13.57 | 0.476 | -117.7 | 1.46 | >1000 | 72.2 | |
| 1702 | 2.0 | 7.90 | 14.67 | 0.452 | -106.6 | 1.60 | 18 | 78.0 | |
| 1712 | 2.25 | 7.87 | 14.40 | 0.452 | -108.9 | 1.67 | 19.3 | — | water level went gooder - Str |

Purge data continued on next sheet? - Str

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: 15041-MW-39-32 Sample Date: 2/23/16 Sample Time: 1748 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: 16554-EB # of Containers: _____

Geochemical Analyses

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

5. COMMENTS

Water very turbid at initial purge, cleared up after 5-10 minutes of purging

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-39 Zone 2

3. PURGE DATA (continued from page 1)

| Time | Cum. Gallons Removed (gal) | pH ±0.1 | Temp ±0.2 | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|------------|--------------|--|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 1718 | 2.5 | 7.85 | 13.98 | 0.453 | -108.8 | 1.66 | 14.6 | - | |
| 1729 | 2.75 | 7.83 | 13.54 | 0.453 | -107.0 | 1.86 | 15.0 | - | |
| 1737 | 3.0 | 7.83 | 13.09 | 0.453 | -105.2 | 1.93 | 9.17 | - | |
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Purge data continued on next sheet?

John J. Jones
Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-39 Zone 3

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: Backyard
 Client: Owens Corning Personnel: JPL, CM, GG
 Project Location: Anderson, South Carolina Weather: Overcast 49°F

2. WELL DATA

Date Measured: 2/23/16 Time: 1750 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: 300 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 48.5 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: 251.5 feet Well Volume: 10.3 gal Screened Interval (from GS): 280-300
 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: 2/23/16 Time: 1755 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): Stable well volumes or — gallons
 Was well purged dry? Yes No Pumping Rate: 6.1 gal/min Calibrated? Yes No

1. YSI
2. LaMotte
3. Solinst
4. _____

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|-------------|----------------------------|-------------|--------------|--------------------------|---------------------|------------------------|-------------|-------------|--------------------------|
| | | ±0.1 su | ±2°C | > of ±3% or ±0.010 mS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| <u>1803</u> | <u>0.5</u> | <u>8.05</u> | <u>14.78</u> | <u>0.285</u> | <u>-110.3</u> | <u>2.33</u> | <u>7.33</u> | <u>45.7</u> | |
| <u>1811</u> | <u>1.0</u> | <u>8.23</u> | <u>14.57</u> | <u>0.281</u> | <u>-119.6</u> | <u>2.45</u> | <u>7.41</u> | <u>—</u> | <u>water meter stuck</u> |
| <u>1821</u> | <u>1.5</u> | <u>8.23</u> | <u>14.23</u> | <u>0.280</u> | <u>-120.6</u> | <u>2.42</u> | <u>5.48</u> | <u>—</u> | |
| <u>1833</u> | <u>2.0</u> | <u>8.18</u> | <u>14.01</u> | <u>0.282</u> | <u>-118.3</u> | <u>2.55</u> | <u>6.39</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: _____ Field Filtered? Yes No
 Sample ID: 16054-MW-39-23 Sample Date: 2/23/16 Sample Time: 1635 # 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.

Signature: [Handwritten Signature]

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-41 Zone 1

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-XXX Area of Concern: _____
 Client: Owens Corning Personnel: GAGAT
 Project Location: Anderson, South Carolina Weather: RAINING, 60°F

2. WELL DATA

Date Measured: 2-22-16 Time: 1500 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: 129.32 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 6.75 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: 25.25 feet Well Volume: 1.03 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.687 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 2-22-16 Time: 1515 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): _____ well volumes or STABILITY gallons
 Was well purged dry? Yes No Pumping Rate: 1 gal/min Calibrated? Yes No

1. YSI
2. SOLINST
3. LA MOTTE
4. _____

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|------|----------------------------|---------|-------|--------------------------|---------------------|------------------------|-----------|-------------|----------|
| | | ±0.1 su | ±2°C | > of ±3% or ±0.010 mS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1520 | 0.25 | 7.54 | 15.37 | 0.206 | 12.3 | 1.96 | 9.84 | 6.79 | |
| 1525 | 0.50 | 7.45 | 15.70 | 0.202 | 5.5 | 1.82 | 16.2 | 6.79 | |
| 1530 | 0.75 | 7.50 | 15.66 | 0.204 | 4.7 | 1.59 | 15.1 | 6.79 | |
| 1535 | 1.0 | 7.50 | 15.69 | 0.204 | 2.5 | 1.49 | 12.32 | 6.79 | |
| 1540 | 1.25 | 7.50 | 15.69 | 0.205 | -0.2 | 1.39 | 9.82 | 6.79 | |

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: 6.79 Field Filtered? Yes No
 Sample ID: 16053-MW-41-2021 Sample Date: 2-22-16 Sample Time: 1555 # 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

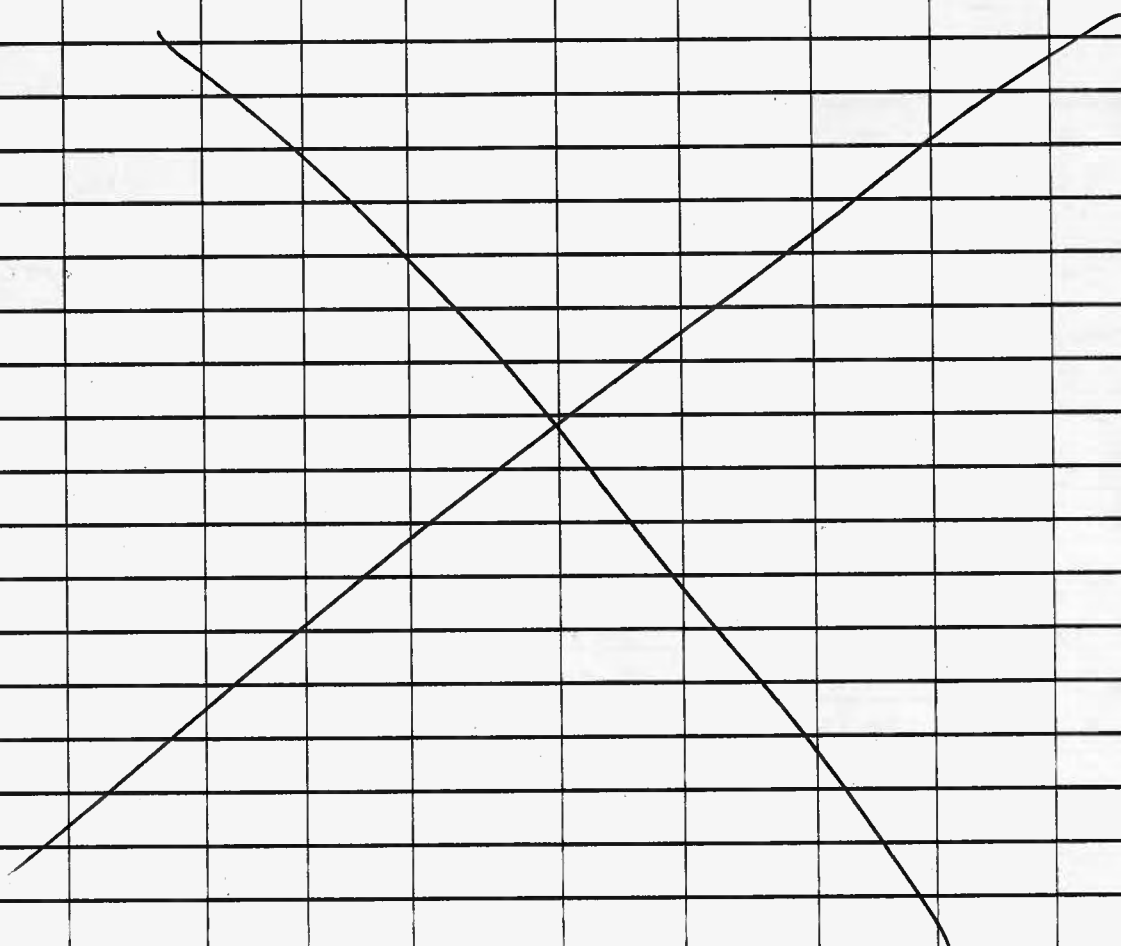
Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

BROWN AND
CALDWELL

WELL ID: MW-41 Zone 1

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 ±0.010 mS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1345 | 1.35 | 7.52 | 15.68 | 0.207 | -1.7 | 1.24 | 9.23 | 6.79 | |
| 1550 | 2.2 | 7.53 | 15.69 | 0.206 | -4.2 | 1.11 | 9.13 | 6.79 | |
| | | SAMPLED @ | | | 1555 | | | | |
|  | | | | | | | | | |

Purge data continued on next sheet?

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-41 Zone 2

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: _____
 Client: Owens Corning Personnel: GG / CN
 Project Location: Anderson, South Carolina Weather: Rainy 50°

2. WELL DATA

Date Measured: 12/22/16 Time: 1611 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: 129 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 2.92 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: 126.08 feet Well Volume: 5.169 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: 02/22/16 Time: 1615 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 STABILIZED gallons
 Was well purged dry? Yes No Pumping Rate: 1 - 2.5 gal/min Calibrated? Yes No

1. Solaist
2. YSI
3. CAMOTTE
4. _____

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|----------------|----------------------------|---------------|--------------|--|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 1620 | 0.4 | 7.83 | 15.64 | 0.221 | -100.4 | 1.02 | 20.0 | 2.99 | |
| 1625 | 0.75 | 7.90 | 15.64 | 0.219 | -103.6 | 0.75 | 7.92 | 2.99 | |
| 1630 | 1.0 | 7.90 | 15.57 | 0.218 | -109.6 | 0.64 | 7.01 | 2.99 | |
| 1635 | 1.3 | 7.90 | 15.57 | 0.220 | -113.9 | 0.58 | 6.28 | 2.99 | |
| SAMPLED @ 1645 | | | | | | | | | |

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: 2.99 Field Filtered? Yes No
 Sample ID: 16053-MW-41-Zone 2 Sample Date: 2-22-16 Sample Time: 1645 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: 16053-DUP-1 # of Containers: 2
 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-41 Zone 3

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: _____
 Client: Owens Corning Personnel: Gagat / Novack
 Project Location: Anderson, South Carolina Weather: overcast / 60°F

2. WELL DATA

Date Measured: 7-22-16 Time: 16:50 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: 299 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 22.4 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: 276.6 feet Well Volume: 11.34 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: 2-22-16 Time: 16:53 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 stabilized gallons
 Was well purged dry? Yes No Pumping Rate: 1 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 ±0.010 mS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1705 | 0.25 | 9.45 | 15.72 | 0.354 | -77.8 | 2.83 | overcast 216.6 | 22.8 | |
| 1715 | 0.25 0.50 | 9.54 | 15.74 | 0.346 | -78.3 | 1.36 | 786 | 24.6 | |
| 1725 | 0.75 | 9.55 | 15.78 | 0.348 | -85.0 | 1.52 | 53 | 27.3 | |
| 1735 | 1.00 | 9.54 | 15.67 | 0.350 | -80.8 | 1.72 | 71.2 | 35.78 | |
| 1748 | 1.30 | 9.52 | 15.68 | 0.352 | -91.7 | 1.81 | 62.0 | 45.4 | |

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: Solinst
 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: 52.48 Field Filtered? Yes No
 Sample ID: 16053 Sample Date: 7-22-16 Sample Time: 18:10 # 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

High turbidity, but stabilized out and running out of daylight - took sample.

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

Signature [Handwritten Signature]

GROUNDWATER SAMPLING FIELD DATA SHEET

**BROWN AND
CALDWELL**

WELL ID: MW-41 Zone 3

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 ±0.010 mS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1800 | 1.60 | 9.51 | 15.62 | 0.353 | -59.2 | 1.41 | 56 | 52.48 | |
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Purge data continued on next sheet?

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-42 Zone 1

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: Neighborhood
 Client: Owens Corning Personnel: JPL + CD
 Project Location: Anderson, South Carolina Weather: Sunny + wet

2. WELL DATA

Date Measured: 2/24/16 Time: 0912.5 Temporary Well: Yes No
 Casing Diameter: 1.5 inches Type: PVC Stainless Galv. Steel Teflon Other
 Screen Diameter: 1.5 inches Type: PVC Stainless Galv. Steel Teflon Other
 Total Depth of Well: 129 feet From: Top of Well Casing (TOC) Top of Protective Casing Other
 Depth to Static Water: 53.2 feet From: Top of Well Casing (TOC) Top of Protective Casing Other
 Depth to Product: 0.2 feet From: Top of Well Casing (TOC) Top of Protective Casing Other
 Length of Water Column: 93.0 feet Well Volume: 3.85 gal Screened Interval (from GS): 114-129
 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: 2/24/16 Time: 0925 Equipment Model(s):
 Purge Method: Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: YS1
 Materials: Pump/Baller Polyethylene Stainless PVC Teflon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable LA Motte
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable Solinst
 Volume to Purge (minimum): - well volumes or Stable gallons
 Was well purged dry? Yes No Pumping Rate: < .1 gal/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|---|----------------------------|------------------------------|-----------------------|-------------|----------|
| 0928 | 0.5 | 11.29 | 17.38 | .324 | 58.6 | 5.29 | 7.45 | 36.1 | |
| 0937 | 1.0 | 11.33 | 17.25 | .280 | 25.2 | 4.91 | 42.4 | 36.6 | |
| 0943 | 1.5 | 11.14 | 17.39 | .223 | 30.4 | 4.81 | 27.0 | 36.8 | |
| 0949 | 2.0 | 10.97 | 17.54 | .205 | 37.2 | 4.63 | 52.5 | 35.9 | |
| 0955 | 2.5 | 10.80 | 17.54 | .269 | 48.7 | 4.81 | 38.6 | 35.9 | |

4. SAMPLING DATA

Method(s): Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Baller 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: 36.0 Field Filtered? Yes No
 Sample ID: 16055-MW-42-21 Sample Date: 2/24/16 Sample Time: 1030 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Purge data continued on next sheet? Yes No
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: Jackson James

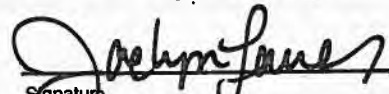
GROUNDWATER SAMPLING FIELD DATA SHEET

BROWN AND CALDWELL

WELL ID: MW-42 Zone 1

| 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 | ±0.2°C | > of ±3% or ±0.010 mS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1002 | 3.0 | 10.64 | 17.57 | 0.246 | 46.7 | 4.68 | 32.0 | 36.0 | |
| 1009 | 3.5 | 10.32 | 17.68 | 0.238 | 55.5 | 4.77 | 17.8 | 36.0 | |
| 1016 | 4.0 | 10.30 | 17.79 | 0.220 | 61.9 | 4.57 | 16.7 | 36.0 | |
| 1024 | 4.5 | 10.28 | 17.91 | 0.212 | 70.6 | 4.53 | 13.2 | 36.0 | |
| 1029 | 5.0 | 10.22 | 17.92 | 0.207 | 70.7 | 4.51 | 11.4 | 36.0 | |
| | | | | | | | | | |

Purge data continued on next sheet?


 Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-42 Zone 2

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: Neighborhood
 Client: Owens Corning Personnel: JPL + CN
 Project Location: Anderson, South Carolina Weather: Sunny + 65

2. WELL DATA

Date Measured: 2/24/16 Time: 1035 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: 222 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 31.25 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: 191 feet Well Volume: 7.82 gal Screened Interval (from GS): 202-222
 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: 2/24/16 Time: 1045 Equipment Model(s):
 Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____ 1. YS1
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____ 2. LaMotte
 Dedicated Prepared Off-Site Field-Cleaned Disposable 3. Solinst
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____ 4. _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): — well volumes or Stable gallons
 Was well purged dry? Yes No Pumping Rate: <.1 gal/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|--|-------------------------------|---------------------------------|-----------------------|-------------|-------------------|
| 1052 | 0.50 | 7.74 | 18.35 | 0.829 | -114.8 | 2.12 | 27.1 | 34.2 | |
| 1100 | 1.00 | 7.83 | 18.41 | 0.815 | -141.6 | 1.40 | 6.16 | | water meter stuck |
| 1111 | 1.50 | 7.86 | 18.69 | 0.813 | -143.2 | 1.58 | 3.46 | — | |
| 1128 | 2.00 | 7.86 | 18.83 | 0.814 | -139.7 | 1.73 | 2.92 | — | |
| 1141 | 2.50 | 7.85 | 18.67 | 0.814 | -135.6 | 1.73 | 2.56 | — | |

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: 148917-MW-42-B2 Sample Date: 2/24/16 Sample Time: 1145 # 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-42 Zone 3

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: Neighborhood
 Client: Owens Corning Personnel: JPL + CN
 Project Location: Anderson, South Carolina Weather: Overcast + windy

2. WELL DATA

Date Measured: 2/24/16 Time: 1343 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: 285 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 31.85 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: 253 feet Well Volume: 10.37 gal Screened Interval (from GS): 215-285

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: 2/24/16 Time: 1350 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): _____ well volumes or Stable gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. YSI
2. LaMotte
3. Solinst
4. _____

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|------|----------------------------|---------|-------|--------------------------|---------------------|------------------------|-----------|-------------|-------------------------|
| | | ±0.1 su | ±2°C | > of ±3% or ±0.010 mS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1402 | 0.5 | 8.16 | 17.76 | 0.290 | -110.7 | 2.78 | 88.7 | 33.2 | |
| 1411 | 1.0 | 8.16 | 17.37 | 0.280 | -144.6 | 2.08 | 20.2 | - | water level meter stuck |
| 1421 | 1.5 | 8.16 | 17.31 | 0.254 | -150.1 | 2.14 | 13.5 | - | |
| 1438 | 2.0 | 8.16 | 17.10 | 0.252 | -148.0 | 2.22 | 11.0 | - | |
| 1445 | 2.5 | 8.15 | 16.97 | 0.252 | -143.0 | 2.17 | 12.8 | - | |

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: 16055-MW-42-23 Sample Date: 2/24/16 Sample Time: 1445 # 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

Tubing is folded over for storage be careful when extracting for next sampling

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-43 Zone 1

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: _____
 Client: Owens Corning Personnel: GG
 Project Location: Anderson, South Carolina Weather: OVERCAST

2. WELL DATA

Date Measured: 2-22-16 Time: 0915 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: 115 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 6.24 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: 108.7 feet Well Volume: 4.46 gal Screened Interval (from GS): 92.5 - 112.5
 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: 2-22-16 Time: 0945 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 STABILIT 7 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 ±0.010 | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 0950 | 0.25 | 6.53 | 16.00 | 0.081 | 87.0 | 5.71 | 30.0 | 6.53 | CLOUDY |
| 0955 | 0.5 | 6.53 | 15.90 | 0.076 | 84.9 | 4.98 | 26.2 | 6.53 | |
| 1000 | 0.75 | 6.53 | 16.02 | 0.076 | 77.8 | 4.67 | 26.4 | 6.53 | |
| 1005 | 1.0 | 6.53 | 16.06 | 0.076 | 71.6 | 4.62 | 27.8 | 6.53 | |
| 1010 | 1.25 | 6.52 | 16.17 | 0.075 | 70.2 | 4.58 | 27.2 | 6.53 | |

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: 6.53 Field Filtered? Yes No
 Sample ID: 16053-MW-43-ZONE1 Sample Date: 2-22-16 Sample Time: 1040 # 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.

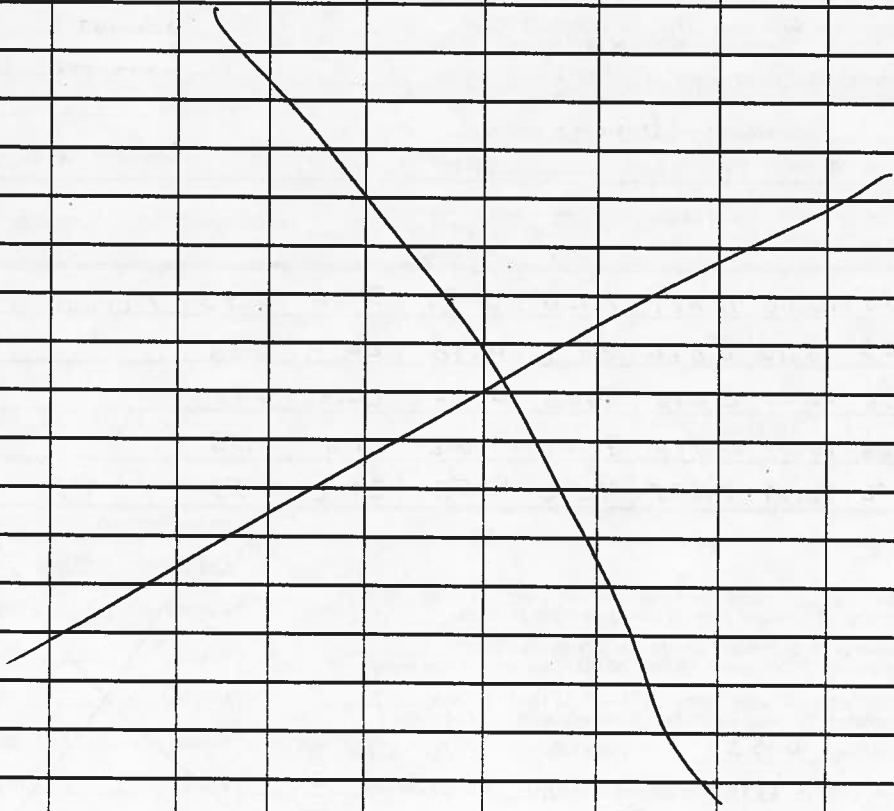
GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-43 Zone 1

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 ±0.010 | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1015 | 1.5 | 6.54 | 16.31 | 0.075 | 71.2 | 4.86 | 20.3 | 6.53 | |
| 1020 | 1.75 | 6.53 | 16.36 | 0.078 | 75.6 | 4.60 | 12.8 | 6.53 | |
| 1025 | 2.0 | 6.53 | 16.37 | 0.076 | 77.3 | 4.56 | 9.21 | 6.53 | |
| 1030 | 2.25 | 6.55 | 16.39 | 0.079 | 79.0 | 4.46 | 8.12 | 6.53 | |
| 1035 | 2.50 | 6.55 | 16.43 | 0.080 | 81.8 | 4.45 | 7.23 | 6.53 | |
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SAMPLED @ 1040



Purge data continued on next sheet?

[Signature]
Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-43 Zone 2

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: _____
 Client: Owens Corning Personnel: GG
 Project Location: Anderson, South Carolina Weather: OVERCAST

2. WELL DATA Date Measured: 2.22.16 Time: 1040 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: 180 feet From: Top of Well Casing (TOC) Top of Protective Casing
 Depth to Static Water: 3.53 feet From: Top of Well Casing (TOC) Top of Protective Casing
 Depth to Product: — feet From: Top of Well Casing (TOC) Top of Protective Casing
 Length of Water Column: 176.5 feet Well Volume: 7.23 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: 2.22.16 Time: 1045 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): — well volumes or STABILITY gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|--|----------------------------|---------------|--------------|--|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 1050 | 0.25 | 7.98 | 16.13 | 0.192 | -81.2 | 9.42 | 20.1 | 4.72 | |
| 1100 | 0.75 | 7.96 | 16.21 | 0.199 | -88.9 | 9.56 | 19.8 | 5.05 | |
| NOISE TUBING CLOGGED WARRANT | | | | | | | | | |
| 1120 | 1.0 | 7.98 | 16.08 | 0.202 | -90.7 | 9.35 | 12.1 | 5.51 | |
| 1125 | 1.25 | 7.97 | 16.13 | 0.201 | -89.6 | 9.35 | 9.98 | 5.95 | |

GG
2-22-16

4. SAMPLING DATA Purge data continued on next sheet?

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: 6.91 Field Filtered? Yes No
 Sample ID: 16053-MW-43-2022 Sample Date: 2.22.16 Sample Time: 1145 # 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.

Signature _____

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-43 Zone 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 ±0.010 mS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1130 | 1.5 | 8.02 | 16.14 | 0.195 | -83.2 | 9.33 | 8.72 | 6.05 | |
| 1135 | 1.75 | 8.06 | 16.26 | 0.196 | -74.5 | 9.25 | 7.92 | 6.51 | |
| 1140 | 2.0 | 8.09 | 16.23 | 0.196 | -74.8 | 9.22 | 6.12 | 6.91 | |
| | | | SAMPLED | @ | 1145 | | | | |
| | | | | | | | | | |

Purge data continued on next sheet?

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-43 Zone 3

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-XXX Area of Concern: _____
 Client: Owens Corning Personnel: CAGAT
 Project Location: Anderson, South Carolina Weather: OVERCAST

2. WELL DATA

Date Measured: 2-22-16 Time: 1830 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: 262 feet From: Top of Well Casing (TOC) Top of Protective Casing
 Depth to Static Water: 0.5 feet From: Top of Well Casing (TOC) Top of Protective Casing
 Depth to Product: — feet From: Top of Well Casing (TOC) Top of Protective Casing
 Length of Water Column: 281.5 feet Well Volume: 11.54 gal Screened Interval (from GS): 262-282
 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: 2-22-16 Time: 1340 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): — well volumes or STABILITY gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|------|----------------------------|---------|---------|--------------------|---------------------|------------------------|-----------|-------------|----------|
| | | ±0.1 su | ±2°C | > of ±3% or ±0.010 | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1345 | 0.3 | 8.08 | 16.36 | 0.324 | -76.1 | 1.30 | 12.2 | 14.21 | |
| 1350 | 0.75 | 8.08 | 16.36 | 0.325 | -79.0 | 1.31 | 9.31 | 21.38 | |
| 1355 | 1.0 | 8.08 | 16.43 | 0.319 | -85.0 | 1.31 | 6.24 | 25.32 | |
| 1400 | 1.25 | 8.07 | 16.43 | 0.316 | -93.3 | 1.35 | 6.12 | 31.9 | |
| | | | SAMPLED | @ | | 1405 | | | |

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: 31.9 Field Filtered? Yes No
 Sample ID: 16053-MW-43-ZONE3 Sample Date: 2-22-16 Sample Time: 1405 # 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-44

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: Dohi Ama
 Client: Owens Corning Personnel: JPL + CN
 Project Location: Anderson, South Carolina Weather: Rainy + 50s

2. WELL DATA

Date Measured: 2/22/16 Time: 1403 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: 300 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 7.25 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: 290.75 feet Well Volume: 48.5 gal Screened Interval (from GS): 280-300

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: 2/22/16 Time: 1435 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): fill static well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: 1-2.25 gal/min Calibrated? Yes No

1. YSI
2. LaMotte
3. GeoSub
4. _____

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|---|----------------------------|------------------------------|-----------------------|-------------|----------|
| 1432 | 1.0 | 9.13 | 16.05 | .213 | 73 | 3.2 | 16.9 | 9.3 | |
| 1439 | 2.0 | 9.32 | 16.05 | .214 | 50.8 | 1.38 | 10.35 | 10.0 | |
| 1443 | 3.0 | 9.4 | 16.12 | .213 | 36.6 | 0.84 | 5.68 | 10.0 | |
| 1447 | 4.0 | 9.44 | 16.04 | .211 | 32.5 | .087 | 4.52 | 10.0 | |
| 1454 | 5.0 | 9.43 | 15.93 | .212 | 28.3 | 0.77 | 2.54 | 10.0 | |

Purge data continued on next sheet? No

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: 10.0 Field Filtered? Yes No
 Sample ID: 16053-MW-44 Sample Date: 2/22/16 Sample Time: 1455 # 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

monsoon does not reach bottom: extra tubing didn't make it to the bottom.

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

Signature: [Handwritten Signature]

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-15

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern:
 Client: Owens Corning Personnel: CN
 Project Location: Anderson, South Carolina Weather: Sunny + 79°F

2. WELL DATA

Date Measured: 5/9/16 Time: 1435 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: 23.66 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: 75.84 feet Well Volume: 12.66 gal Screened Interval (from GS): 89.5-99.5
 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: 5/10/16 Time: 1120 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 STABILITY gallons
 Was well purged dry? Yes No Pumping Rate: gal/min Calibrated? Yes No

1. Lanotte
2. YSI
3. Solinst
4. Monsoon

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|--|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 1126 | 3.0 | 6.10 | 17.28 | 0.207 | -307.4 | 0.41 | 6.47 | 31.03 | Drawdown |
| 1136 | 6.0 | 6.08 | 17.40 | 0.197 | -348.1 | 0.38 | 2.74 | 32.50 | — |
| 1146 | 9.0 | 6.14 | 17.44 | 0.195 | -403.3 | 0.39 | 1.81 | 32.60 | — |
| 1158 | 12.0 | 6.17 | 17.53 | 0.193 | -436.7 | 0.38 | 0.82 | 33.10 | — |

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: 33.15 Field Filtered? Yes No
 Sample ID: 16131-M-515 Sample Date: 5/10/16 Sample Time: 1205 # 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.

[Signature]
 Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-22

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern:
 Client: Owens Corning Personnel: CN
 Project Location: Anderson, South Carolina Weather: Sunny + 75°F

2. WELL DATA

Date Measured: 5/9 Time: 12:14 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: 10.41 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: 105.59 feet Well Volume: 155.11 gal Screened Interval (from GS): 105-116
 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: 5/10/16 Time: 10:00 Equipment Model(s)

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

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|------------|-----------|--------------------------------------|-------------------------|---------------------------|--------------------|-------------|----------|
| 1007 | 3.0 | 5.08 | 18.22 | 0.133 | -167.9 | 2.29 | 0.48 | 11.46 | — |
| 1012 | 6.0 | 5.03 | 18.21 | 0.133 | -193.1 | 2.27 | 0.87 | 11.46 | — |
| 1020 | 9.0 | 5.00 | 18.15 | 0.133 | -191.8 | 2.24 | 0.19 | 11.46 | — |
| 1025 | 12.0 | 4.99 | 18.14 | 0.132 | -191.7 | 2.25 | 0.19 | 11.46 | — |

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: 11.46 Field Filtered? Yes No
 Sample ID: 16131-MW-22 Sample Date: 5/10/16 Sample Time: 1030 # 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.

Chris Shaw
 Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-29R Zone 3-Waterloo

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: _____
 Client: Owens Corning Personnel: GAGAT
 Project Location: Anderson, South Carolina Weather: SUNNY, 85°F

2. WELL DATA

Date Measured: 5-10-16 Time: 1330 Temporary Well: Yes No

Casing Diameter: 2 inches
 Screen Diameter: 6 inches
 Sampling Interval: 154.5-169.6 feet
 Depth to Static Water: 693.3 Dg
 Depth to Product: _____ feet
 Length of Water Column: 138.6 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

Length of water column calculation:
 (9094-Current Dg reading)*0.02775)*2.3108) = Length of water column (ft)
 Well Vol. calculation:
 1 well vol. = [vol sand interval(6") - vol of waterloo casing (2") + vol of water in tubing(1/4")
 = [22.18 gal - 2.52 gal] + (0.0102 gal/ft x length of water column

3. PURGE DATA

Date Purged: 5-10-16 Time: 1349 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): — well volumes or STABILITY gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. MP-50
2. YSS
3. LAMOTE 2060
4. GEOROW

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|----------------|----------------------------|---------------|--------------|--|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 1400 | 0.5 | 5.28 | 16.73 | 0.172 | 80.7 | 42.26 | .09 | 6933 | |
| 1405 | 0.7 | 5.30 | 16.76 | 0.169 | 96.8 | 63.32 | .04 | 6933 | |
| 1410 | 0.9 | 5.32 | 16.76 | 0.167 | 97.4 | 61.51 | .01 | 6933 | |
| 1415 | 1.1 | 5.33 | 16.76 | 0.166 | 98.0 | 59.92 | 0.0 | 6933 | |
| SAMPLED @ 1420 | | | | | | | | | |

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: 693.3 Field Filtered? Yes No
 Sample ID: 20023 Sample Date: 5-10-16 Sample Time: 1420 # 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

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: _____
 Client: Owens Corning Personnel: LAGAT
 Project Location: Anderson, South Carolina Weather: SUNNY, 85°

2. WELL DATA

Date Measured: 5.10.16 Time: 1415 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: 6300 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: 166 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: 5.10.16 Time: 1425 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
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____ 2. GEORON
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____ 3. MP-50
 Dedicated Prepared Off-Site Field-Cleaned Disposable 4. LAMOTTE 2020
 Volume to Purge (minimum): _____ well volumes or _____ 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 ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|----------------|----------------------------|------------|-----------|--------------------------------------|-------------------------|---------------------------|--------------------|-------------|----------|
| 1435 | 0.2 | 5.79 | 17.35 | 0.138 | 69.7 | 42.49 | 0.7 | 6295 | |
| 1445 | 0.4 | 5.40 | 17.55 | 0.144 | 87.2 | 42.67 | 0.2 | 6300 | |
| 1450 | 0.6 | 5.42 | 17.32 | 0.144 | 85.6 | 41.90 | 0.0 | 6275 | |
| 1455 | 0.8 | 5.39 | 17.70 | 0.143 | 87.9 | 41.86 | 0.0 | 6290 | |
| SAMPLED @ 1500 | | | | | | | | | |

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: 6290 Field Filtered? Yes No
 16131-MW-29R-
 Sample ID: 2024 Sample Date: 5.10.16 Sample Time: 1500 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: 16131-DUP-2 # of Containers: 2
 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

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-XXX Area of Concern: _____
 Client: Owens Corning Personnel: CN
 Project Location: Anderson, South Carolina Weather: Cloudy + 75°F

2. WELL DATA

Date Measured: 5/9/16 Time: 1709 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: 10.23 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: 151.7 feet Well Volume: 25.74 gal Screened Interval (from GS): 152-162
 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: 5/9/16 Time: 1740 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 Stability gallons
 Was well purged dry? Yes No Pumping Rate: — gal/min Calibrated? Yes No

1. Geotek manometer
2. YSI
3. Solinst
4. Lanette

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|-------------|----------------------------|-------------|--------------|--------------------------------------|-------------------------|---------------------------|--------------------|--------------|----------|
| <u>1745</u> | <u>2.00</u> | <u>7.73</u> | <u>16.51</u> | <u>0.279</u> | <u>93.2</u> | <u>1.04</u> | <u>170</u> | <u>11.64</u> | <u>—</u> |
| <u>1750</u> | <u>2.50</u> | <u>8.26</u> | <u>16.01</u> | <u>0.244</u> | <u>29.2</u> | <u>1.14</u> | <u>47.1</u> | <u>13.4</u> | <u>—</u> |
| <u>1755</u> | <u>5.00</u> | <u>7.72</u> | <u>16.38</u> | <u>0.191</u> | <u>-38.8</u> | <u>0.85</u> | <u>11.3</u> | <u>16.35</u> | <u>—</u> |
| <u>1800</u> | <u>6.50</u> | <u>7.82</u> | <u>16.56</u> | <u>0.195</u> | <u>-130.4</u> | <u>0.84</u> | <u>10.4</u> | <u>16.45</u> | <u>—</u> |
| <u>1805</u> | <u>7.00</u> | <u>7.97</u> | <u>16.37</u> | <u>0.187</u> | <u>-191.2</u> | <u>0.85</u> | <u>4.52</u> | <u>15.8</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: 15.80 Field Filtered? Yes No
 Sample ID: 16130-35 Sample Date: 5/9/16 Sample Time: 1815 # 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.

[Signature]
 Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-35

3. PURGE DATA (continued from page 1)

| Time | Cum. Gallons Removed (gal) | pH | Temp | Spec. Cond. | ORP | DO | Turbidity | Water Level | Comments |
|------|----------------------------|------|-------|--------------------------|---------------------|------------------------|-----------|-------------|----------|
| | | su | °C | > of ±3% or ±0.010 mS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1810 | 8.5 | 8.07 | 16.40 | 0.192 | -164.2 | 0.79 | 1.53 | 15.80 | — |
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Purge data continued on next sheet?

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-36 Zone 1-Waterloo

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: _____
 Client: Owens Corning Personnel: CAJAT
 Project Location: Anderson, South Carolina Weather: SUNNY, 87°F

2. WELL DATA

Date Measured: 5-10-16 Time: 1515 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: 6191 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: _____ 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: 5-10-16 Time: 1525 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): — well volumes or STABILITY gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. YSE
2. MP-50
3. GEORON
4. LANOTTE 2020

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|------------|-----------|--------------------------------------|-------------------------|---------------------------|--------------------|-------------|----------|
| 1535 | 0.4 | 5.62 | 16.80 | 0.095 | 131.8 | 69.13 | 1.8 | 6128 | |
| 1545 | 0.8 | 5.59 | 16.82 | 0.095 | 137.0 | 67.54 | 0.7 | 6192 | |
| 1550 | 1.25 | 5.66 | 16.80 | 0.095 | 132.7 | 66.49 | 0.0 | 6134 | |
| 1555 | 1.5 | 5.71 | 16.77 | 0.096 | 131.2 | 67.56 | 0.0 | 6129 | |
| 1600 | 1.7 | 5.72 | 16.76 | 0.095 | 133.4 | 67.13 | 0.0 | 6140 | |

SAMPLED @ 1600

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: 6140 Field Filtered? Yes No
16131-MW-36
 Sample ID: ZONE 1 Sample Date: 5-10-16 Sample Time: 1600 # 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.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-36 Zone 3-Waterloo

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: _____
 Client: Owens Corning Personnel: CIAGAT
 Project Location: Anderson, South Carolina Weather: SUNNY, 85°F

2. WELL DATA Date Measured: 5.10.16 Time: 1600 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: _____ 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: _____ 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: 5.10.16 Time: 1605 Equipment Model(s)

Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____ 1. YSI

Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____ 2. CANOTE 2020

Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable 3. MP-50

Volume to Purge (minimum): — well volumes or STABILITY gallons 4. GEORON

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 ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|--|----------------------------|------------|-----------|--------------------------------------|-------------------------|---------------------------|--------------------|-------------|----------|
| 1615 | 0.1 | 7.03 | 26.07 | 1.309 | 29.6 | 50.59 | — | 8501 | |
| WELL WENT DRY AFTER .1 GALLONS ENOUGH TO ONLY GET 1 SET OF PARAMETERS, SAMPLED AFTER RECHARGE. | | | | | | | | | |

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: ZONE3 Sample Date: 5.10.16 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

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: 148917 Task Number: 100-XXX Area of Concern: _____
 Client: Owens Corning Personnel: GAGAT
 Project Location: Anderson, South Carolina Weather: SUNNY, 79°F

2. WELL DATA

Date Measured: 5.11.16 Time: 1100 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: 34.3 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: 5.11.16 Time: 1107 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/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or STABILITY gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. YSI
2. LANOTTE 2020
3. SOLINST
4. MP-50

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|--|-------------------------------|---------------------------------|-----------------------|-------------|----------------|
| 1115 | 0.3 | 7.49 | 15.96 | 0.551 | -186.3 | 22.42 | 52.5 | 49.2 | BLACK AT FIRST |
| 1125 | 1.1 | 7.52 | 16.19 | 0.553 | -219.6 | 21.03 | 16.8 | 64.2 | |
| 1135 | 1.6 | 7.66 | 16.08 | 0.550 | -232.9 | 25.32 | 7.82 | 71.3 | |
| 1145 | 2.1 | 7.63 | 16.47 | 0.556 | -242.4 | 29.93 | 8.91 | 80.5 | |
| 1155 | 2.8 | 7.64 | 16.77 | 0.557 | -242.8 | 27.57 | 8.04 | 85.6 | |

SAMPLED @ 1200

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: 85.6 Field Filtered? Yes No
 Sample ID: 16132-MW-37-ZONE1 Sample Date: 5.11.16 Sample Time: 1200 # 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-37 Zone 2

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-XXX Area of Concern: _____
 Client: Owens Corning Personnel: GAGAT
 Project Location: Anderson, South Carolina Weather: CLOUDY, 80°F

2. WELL DATA

Date Measured: 5-9-16 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: 232 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: 5-11-16 Time: 0955 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): _____ well volumes or STABILITY gallons
 Was well purged dry? Yes No Pumping Rate: 0.05 gal/min Calibrated? Yes No

1. YSI
2. LAMOTTE 2020
3. MP-50
4. SOLINST

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|--|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 1005 | 0.4 | 6.98 | 15.42 | 0.237 | 23.2 | 21.93 | 12.92 | 29.57 | |
| 1015 | 0.9 | 6.29 | 15.55 | 0.221 | 22.8 | 23.94 | 8.65 | 30.25 | |
| 1025 | 1.5 | 6.20 | 15.54 | 0.217 | 24.3 | 25.30 | 3.98 | 30.31 | |
| 1035 | 2.0 | 6.16 | 15.54 | 0.213 | 25.1 | 24.92 | 3.01 | 30.32 | |
| 1045 | 2.5 | 6.15 | 15.54 | 0.212 | 26.1 | 25.01 | 2.72 | 30.32 | |

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: 30.32 Field Filtered? Yes No
16132-MW-37-
 Sample ID: 2012 Sample Date: 5-11-16 Sample Time: 1050 # 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-37 Zone 3

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: _____
 Client: Owens Corning Personnel: CACAT
 Project Location: Anderson, South Carolina Weather: 6:00am, 75°F

2. WELL DATA

Date Measured: 5-11-16 Time: 0825 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: _____ 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: 5-11-16 Time: 0845 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 STABILITY gallons
 Was well purged dry? Yes No Pumping Rate: 0.02 gal/min Calibrated? Yes No

1. YS3
2. LAMOTTE 2020
3. SOLINST
4. MP-50

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|------------|-----------|--------------------------------------|-------------------------|---------------------------|--------------------|-------------|---|
| 0855 | 0.4 | 7.15 | 15.56 | 0.397 | -37.5 | 46.53 | 2.09 | 47.19 | BLACK AT FIRST |
| 0905 | 0.75 | 7.45 | 15.96 | 0.400 | -66.9 | 27.98 | 1.92 | 54.92 | |
| 0910 | 0.9 | 7.53 | 16.10 | 0.400 | -77.9 | 26.76 | 1.57 | 56.71 | |
| 0915 | 1.0 | 7.58 | 16.29 | 0.401 | -87.9 | 29.88 | 1.22 | 60.92 | |
| 0920 | 1.1 | 7.63 | 16.52 | 0.401 | -97.3 | 27.56 | 1.19 | 65.01 | |
| 0925 | 1.2 | 7.64 | 16.67 | 0.402 | -100.5 | 27.69 | 1.15 | | Purge data continued on next sheet? <input checked="" type="checkbox"/> |

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: 67.29 Field Filtered? Yes No
 Sample ID: 16132-MW-37-ZONE3 Sample Date: 5-11-16 Sample Time: 0930 # 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.

Signature [Signature]

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-38 Zone 1

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern:
 Client: Owens Corning Personnel: CW
 Project Location: Anderson, South Carolina Weather: Sunny +82°F

2. WELL DATA

Date Measured: 5/9/16 Time: 1410 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: 430 feet From: Top of Well Casing (TOC) Top of Protective Casing Other:
 Depth to Static Water: 15.53 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: 414.47 feet Well Volume: 16.99 gal Screened Interval (from GS): 420-430
 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: 5/10/16 Time: 1410 Equipment Model(s):

Purge Method: Bailer, Size: Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: MP-50
 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 Stability gallons
 Was well purged dry? Yes No Pumping Rate: gal/min Calibrated? Yes No

1. Lamotte
2. YSI
3. Solinst
4. MP-50

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|------------|-----------|--------------------------------------|-------------------------|---------------------------|--------------------|-------------|----------|
| 1415 | 0.25 | 7.39 | 19.13 | 1.932 | -268.0 | 4.95 | 94.6 | 25.05 | — |
| 1425 | 0.50 | 7.42 | 18.81 | 2.095 | -355.6 | 4.44 | 58.6 | 36.2 | — |
| 1435 | 1.00 | 7.34 | 18.73 | 2.147 | -382.4 | 0.36 | 81.3 | 44.3 | — |
| 1445 | 1.25 | 7.43 | 19.43 | 2.106 | -418.5 | 2.51 | 42.0 | 51.7 | — |
| 1455 | 1.50 | 7.53 | 20.17 | 2.105 | -442.1 | 7.85 | 38.2 | 61.2 | — |

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: 111.45 Field Filtered? Yes No
 Sample ID: 16131-MW-38-21 Sample Date: 5/10/16 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

Turbid black water at start purge.
Turbidity went up > 10 NTU and is constant 150-170. Going to
sample @ 1730

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-38 Zone 1

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 ±0.010 mS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1505 | 1.75 | 7.59 | 20.30 | 2.098 | -459.8 | 1.69 | 38.2 | 65.7 | — |
| 1515 | 2.00 | 7.62 | 20.53 | 2.096 | -464.7 | 1.48 | 43.2 | 70.96 | — |
| 1525 | 2.25 | 7.70 | 21.51 | 2.094 | -462.4 | 1.24 | 42.3 | 75.60 | — |
| 1535 | 2.45 | 7.71 | 20.95 | 2.093 | -477.3 | 1.20 | 72.2 | 80.21 | — Slowed pump |
| 1545 | 2.50 | 7.62 | 20.39 | 2.081 | -477.1 | 1.12 | 54.9 | 85.82 | — |
| 1555 | 2.75 | 7.71 | 20.85 | 2.088 | -492.1 | 0.96 | 109.2 | 90.40 | — turbidity |
| 1605 | 3.00 | 7.80 | 23.44 | 2.061 | -516.2 | 0.76 | 149.5 | 95.20 | — Jump |
| 1615 | 3.15 | 7.85 | 24.09 | 2.065 | -510.9 | 0.70 | 172 | 95.27 | — |
| 1625 | 3.25 | 7.86 | 24.26 | 2.072 | -503.9 | 0.53 | 54.1 | 97.29 | — |
| 1635 | 3.35 | 7.82 | 24.32 | 2.077 | -479.9 | 0.45 | 158 | 98.38 | — |
| 1645 | (0.2) | | | 2.0 | | | | | changed Amp, Purge |
| 1710 | 3.50 | 7.86 | 22.44 | 2.064 | -385.7 | 1.05 | 150 | 105.20 | — |
| 1715 | 3.55 | 7.64 | 21.66 | 2.044 | -386.1 | 0.82 | 138 | 107.31 | — |
| 1720 | 3.65 | 7.60 | 21.25 | 2.032 | -404.7 | 0.78 | 142 | 110.92 | — |
| 1725 | 3.75 | 7.59 | 21.11 | 2.022 | -412.2 | 0.76 | 177 | 111.45 | Sample |
| | | | | | | | | | |

Purge data continued on next sheet?

Carl [Signature]

Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-38 Zone 2

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-XXX Area of Concern: ---
 Client: Owens Corning Personnel: CN
 Project Location: Anderson, South Carolina Weather: Sunny + 73°F

2. WELL DATA

Date Measured: 5/9/16 Time: 1411 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: 499.6 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: 5/11/16 Time: 1147 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: _____
 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 5.2 gallons
 Was well purged dry? Yes No Pumping Rate: --- gal/min Calibrated? Yes No

1. Lanette
2. YSI
3. Solinst
4. _____

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|--|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 1150 | 0.50 | 7.11 | 16.95 | 0.172 | -276.0 | 1.95 | 0.66 | --- | --- |
| 1155 | 1.00 | 6.97 | 17.34 | 0.172 | -278.6 | 1.85 | 0.65 | --- | --- |
| 1200 | 1.35 | 7.12 | 17.96 | 0.172 | -231.0 | 1.89 | 0.0 | --- | --- |
| 1205 | 1.60 | 7.36 | 17.79 | 0.172 | -259.7 | 2.00 | 0.0 | --- | --- |
| 1210 | 2.00 | 7.44 | 17.90 | 0.172 | -269.3 | 1.90 | 0.0 | --- | --- |

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: Artesian Field Filtered? Yes No
 Sample ID: 16132-MW-38-22 Sample Date: 5/11/16 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.

Chris New
 Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-39 Zone 1

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: ---
 Client: Owens Corning Personnel: CN + GG
 Project Location: Anderson, South Carolina Weather: Sunny + 83°F

2. WELL DATA

Date Measured: 5-11-16 Time: 1555 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: 105 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 14.1 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): 95-105
 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: 5-11-16 Time: 1600 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: MP-50
 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 Stability gallons
 Was well purged dry? Yes No Pumping Rate: --- gal/min Calibrated? Yes No

1. Lamotte
2. YSI
3. MP-50
4. Solinst

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|------------|-----------|--------------------------------------|-------------------------|---------------------------|--------------------|-------------|----------|
| 1605 | 0.25 | 5.72 | 17.86 | 0.087 | -62.9 | 8.06 | 7.64 | 15.54 | --- |
| 1610 | 0.50 | 5.56 | 17.88 | 0.086 | -53.7 | 5.13 | 3.41 | 15.61 | --- |
| 1615 | 0.75 | 5.66 | 17.80 | 0.087 | -58.1 | 4.04 | 3.29 | 15.60 | --- |
| 1620 | 1.00 | 5.71 | 17.69 | 0.087 | -60.3 | 3.89 | 1.19 | 15.50 | --- |

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: MP-50
 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: 15.50 Field Filtered? Yes No
 Sample ID: 16132-MW-39-21 Sample Date: 5/11/16 Sample Time: 1625 # 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.

Chad Row
 Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-39 Zone 2

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: _____
 Client: Owens Corning Personnel: CN
 Project Location: Anderson, South Carolina Weather: Sunny + 85°F

2. WELL DATA

Date Measured: 5/19/16 Time: 1230 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: 215 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 3526 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: 179.74 feet Well Volume: 7.36 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: 5/11/16 Time: 1335 Equipment Model(s)
 Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: None
 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 Stability 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 ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|------------|-----------|--------------------------------------|-------------------------|---------------------------|--------------------|-------------|----------|
| 1340 | 0.25 | 7.12 | 19.50 | 0.420 | -289.5 | 0.98 | 101.2 | 37.51 | — |
| 1350 | 1.00 | 6.92 | 19.45 | 0.409 | -310.3 | 0.33 | 100.0 | 58.12 | — |
| 1355 | 1.25 | 7.17 | 20.69 | 0.413 | -330.3 | 0.31 | 60.1 | 63.16 | — |
| 1400 | 1.50 | 7.50 | 21.68 | 0.417 | -358.2 | 0.28 | 43.0 | 68.47 | — |
| 1410 | 1.60 | 7.64 | 22.66 | 0.424 | -383.3 | 0.27 | 34.6 | 73.8 | — |

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: 102.70 Field Filtered? Yes No
 Sample ID: 16132-MW-39-22 Sample Date: 5/11/16 Sample Time: 1550 # 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

Turbidity settled @ 30-20 NTU after 2 hours, Sample @ 1550.

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-39 Zone 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 ±0.010 mS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1420 | 1.80 | 7.66 | 22.89 | 0.429 | -391.6 | 0.25 | 32.4 | 78.71 | — |
| 1430 | 2.00 | 7.84 | 26.98 | 0.437 | -394.5 | 0.27 | 29.2 | 80.16 | — |
| 1440 | 2.20 | 7.29 | 20.62 | 0.430 | -381.7 | 0.25 | 30.1 | 86.23 | — |
| 1450 | 2.30 | 7.69 | 24.80 | 0.437 | -426.9 | 0.23 | 28.7 | 90.40 | — |
| 1500 | 2.40 | 7.76 | 26.32 | 0.439 | -432.7 | 0.23 | 27.2 | 93.36 | — |
| 1510 | 2.50 | 7.71 | 26.05 | 0.439 | -413.9 | 0.25 | 26.9 | 96.72 | — |
| 1520 | 2.60 | 7.74 | 27.56 | 0.441 | -423.7 | 0.25 | 27.1 | 99.13 | — |
| 1530 | 2.75 | 7.82 | 27.88 | 0.445 | -454.2 | 0.23 | 26.3 | 100.96 | — |
| 1540 | 2.90 | 7.72 | 27.89 | 0.444 | -458.7 | 0.25 | 27.8 | 102.70 | — |
| <div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> <p>↓ Turbidity settled sample @ CAT.</p> </div> | | | | | | | | | |
| | | | | | | | | | |

Purge data continued on next sheet?

C.M.

Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-39 Zone 3

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: _____
 Client: Owens Corning Personnel: GAGAT
 Project Location: Anderson, South Carolina Weather: SUNNY, 85°F

2. WELL DATA

Date Measured: 5-11-16 Time: 1330 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: 300 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 53.7 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: 246 feet Well Volume: 10.1 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: 5-11-16 Time: 1335 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 STABILITY gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. YSI
2. LANOTTE 2020
3. MP-50
4. SOLINST

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|------------|-----------|--------------------------------------|-------------------------|---------------------------|--------------------|-------------|----------|
| 1345 | 0.2 | 7.43 | 26.71 | 0.290 | -80.0 | 45.26 | 57.9 | 58.2 | |
| 1255 | 0.4 | 8.10 | 23.13 | 0.284 | -75.2 | 23.75 | 27.4 | 59.4 | |
| 1405 | 0.6 | 7.95 | 24.60 | 0.284 | -55.0 | 18.43 | 22.1 | 66.4 | |
| 1415 | 0.8 | 8.03 | 26.04 | 0.285 | -89.9 | 16.74 | 41.6 | 72.1 | |
| 1425 | 1.0 | 7.96 | 27.42 | 0.287 | -118.5 | 15.55 | 19.0 | 76.9 | |

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: 93.1 Field Filtered? Yes No
 Sample ID: 16132-MW-39-Zone 3 Sample Date: 5-11-16 Sample Time: 1540 # 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-39 Zone 3

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 ± 0.010 mS/cm | > of $\pm 10\%$ or ± 20 mV | > of $\pm 10\%$ or ± 0.2 mg/L | ≤ 10 NTU | | |
| 1430 | 1.1 | 7.92 | 27.23 | 0.286 | -144.1 | 16.66 | 19.2 | 80.2 | |
| 1435 | 1.2 | 7.92 | 27.19 | 0.287 | -163.7 | 17.09 | 19.1 | 82.3 | |
| 1440 | 1.3 | 7.91 | 27.56 | 0.286 | -169.3 | 16.13 | 19.3 | 85.5 | |
| 1445 | 1.4 | 7.94 | 27.25 | 0.289 | -167.7 | 15.38 | 16.1 | 87.9 | |
| 1450 | 1.5 | 7.95 | 27.51 | 0.290 | -173.4 | 14.97 | 16.9 | 87.9 | |
| 1455 | 1.6 | 7.94 | 27.68 | 0.291 | -161.6 | 15.44 | 17.1 | 88.2 | |
| 1500 | CLEANED | | YES | | | | | | |
| 1515 | 2.0 | 7.91 | 28.19 | 0.288 | -167.4 | 15.19 | 16.3 | 90.2 | |
| 1520 | 2.1 | 7.89 | 28.56 | 0.289 | -161.3 | 15.23 | 16.1 | 90.8 | |
| 1525 | 2.2 | 7.89 | 28.97 | 0.290 | -169.7 | 16.51 | 16.1 | 92.1 | |
| 1530 | 2.3 | 7.88 | 28.96 | 0.290 | -167.4 | 16.92 | 16.8 | 92.7 | |
| 1535 | 2.4 | 7.88 | 29.15 | 0.290 | -168.9 | 16.15 | 16.3 | 93.1 | |
| | | SAMPLED @ | | 1540 | | | | | |
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Purge data continued on next sheet?

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-41 Zone 1

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: _____
 Client: Owens Corning Personnel: GAGAT
 Project Location: Anderson, South Carolina Weather: SUNNY, 80°F

2. WELL DATA

Date Measured: 5-9-16 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: 129.32 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 6.86 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: 25.14 feet Well Volume: 1.03 gal Screened Interval (from GS): 17-32
 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: 5-10-16 Time: 1130 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: SOLINST 1. YSF
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____ 2. SOLINST
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____ 3. MP-50
 Dedicated Prepared Off-Site Field-Cleaned Disposable 4. LAMOTTE 2020
 Volume to Purge (minimum): ~ well volumes or STABILITY 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 ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|------------|-----------|--------------------------------------|-------------------------|---------------------------|--------------------|-------------|----------|
| 1135 | 0.4 | 7.62 | 16.18 | 0.190 | 26.9 | 40.62 | 0.98 | 6.85 | |
| 1140 | 0.7 | 7.60 | 15.99 | 0.190 | 30.1 | 32.78 | 0.12 | 6.85 | |
| 1145 | 1.0 | 7.50 | 15.52 | 0.188 | 34.1 | 32.91 | 0.0 | 6.85 | |
| 1150 | 1.2 | 7.47 | 15.48 | 0.187 | 27.2 | 32.98 | 0.0 | 6.85 | |
| 1155 | 1.5 | 7.47 | 15.52 | 0.188 | 25.7 | 33.12 | 0.0 | 6.85 | |

SAMPLED @ 1200

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: Hand 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: 6.85 Field Filtered? Yes No
 Sample ID: 16131-MW-41-ZONE1 Sample Date: 5-10-16 Sample Time: 1200 # 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-41 Zone 2

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: _____
 Client: Owens Corning Personnel: CAGAT
 Project Location: Anderson, South Carolina Weather: SUNNY, 79°F

2. WELL DATA

Date Measured: 5-9-16 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: 129 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 3.10 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: 125.5 feet Well Volume: 5.17 gal Screened Interval (from GS): 109-129
 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: 5-10-16 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: SOLINST 1. MP-50
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____ 2. YSI
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____ 3. SOLINST
 Dedicated Prepared Off-Site Field-Cleaned Disposable 4. LANOTTE 2020
 Volume to Purge (minimum): — well volumes or STABILITY 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 ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|------------|-----------|--------------------------------------|-------------------------|---------------------------|--------------------|-------------|----------|
| 1050 | 0.5 | 7.74 | 15.20 | 0.217 | -2.6 | 35.10 | 5.42 | 3.2 | |
| 1055 | 0.75 | 7.70 | 15.40 | 0.217 | -2.8 | 33.57 | 3.46 | 3.2 | |
| 1100 | 1.0 | 7.81 | 15.53 | 0.216 | -9.8 | 22.52 | 2.91 | 3.2 | |
| 1105 | 1.25 | 7.81 | 15.67 | 0.215 | -11.2 | 20.79 | 1.75 | 3.2 | |
| 1110 | 1.5 | 7.82 | 15.74 | 0.215 | -13.6 | 21.72 | 1.02 | 3.2 | |

SAMPLED @ 1115

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: SOLINST
 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: 3.2 Field Filtered? Yes No
16131-MW-41
 Sample ID: ZONE 2 Sample Date: 5-10-16 Sample Time: 1115 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: 16131-DUP-1 # of Containers: 2
 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-41 Zone 3

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: _____
 Client: Owens Corning Personnel: GAGAT
 Project Location: Anderson, South Carolina Weather: CLOUDY, 70°F

2. WELL DATA

Date Measured: 5.9.16 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: 299 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 13.12 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: 285 feet Well Volume: 11.72 gal Screened Interval (from GS): 280-300
 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: 5.10.16 Time: 0850 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: SOLINST
 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 STABILITY gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. YSI
2. SOLINST
3. MP-50
4. LAMOTTE 2020

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|------------|-----------|--------------------------------------|-------------------------|---------------------------|--------------------|-------------|----------|
| 0900 | 0.4 | 9.44 | 14.95 | 0.343 | -16.9 | 27.54 | 172 | 21.5 | |
| 0905 | 0.75 | 9.47 | 14.92 | 0.345 | -9.8 | 18.34 | 158 | 36.6 | |
| 0915 | 1.1 | 9.41 | 15.14 | 0.342 | -15.6 | 13.78 | 121 | 45.8 | |
| 0925 | 1.5 | 9.42 | 15.19 | 0.344 | -23.6 | 14.02 | 78 | 55.2 | |
| 0935 | 1.75 | 9.44 | 15.35 | 0.345 | -27.6 | 14.40 | 75 | 62.7 | |

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: SOLINST
 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: 95.9 Field Filtered? Yes No
16131-MW-41-
 Sample ID: ZONE 3 Sample Date: 5.10.16 Sample Time: 1020 # 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-41 Zone 3

| 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 ±0.010 mS/cm | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 0945 | 2.0 | 9.46 | 15.62 | 0.345 | -29.5 | 15.08 | 70.6 | 68.8 | |
| 0955 | 2.25 | 9.48 | 15.94 | 0.344 | -22.6 | 48.52 | 69.6 | 74.7 | |
| 1005 | 2.5 | 9.50 | 16.12 | 0.346 | -29.2 | 48.47 | 68.4 | 81.8 | |
| 1015 | 2.75 | 9.49 | 16.42 | 0.346 | -37.2 | 70.53 | 69.4 | 89.2 | |
| | | SAMPLED @ | | 1020 | | | | | |
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Purge data continued on next sheet?

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-42 Zone 1

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-XXX Area of Concern: _____
 Client: Owens Corning Personnel: CN
 Project Location: Anderson, South Carolina Weather: Sunny + 67°F

2. WELL DATA

Date Measured: 5/9/16 Time: 1615 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: 129 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 34.01 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: 94.99 feet Well Volume: 3.89 gal Screened Interval (from GS): 119-129
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: 5/11/16 Time: 0835 Equipment Model(s)

Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: MPSC
 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 Static gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. Lamotte
2. YSI
3. MP-50
4. Solinst

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|-------------|----------------------------|---------------|--------------|--|-------------------------------|---------------------------------|-----------------------|--------------|----------|
| <u>0840</u> | <u>0.50</u> | <u>10.48</u> | <u>17.49</u> | <u>0.474</u> | <u>-204.6</u> | <u>3.26</u> | <u>14.4</u> | <u>35.29</u> | — |
| <u>0845</u> | <u>0.80</u> | <u>10.15</u> | <u>17.52</u> | <u>0.377</u> | <u>-187.7</u> | <u>3.13</u> | <u>11.8</u> | <u>35.51</u> | — |
| <u>0850</u> | <u>1.20</u> | <u>10.06</u> | <u>17.51</u> | <u>0.320</u> | <u>-189.2</u> | <u>3.10</u> | <u>8.44</u> | <u>35.45</u> | — |
| <u>0855</u> | <u>1.50</u> | <u>10.02</u> | <u>17.51</u> | <u>0.272</u> | <u>-195.1</u> | <u>3.01</u> | <u>5.58</u> | <u>35.45</u> | — |
| <u>0900</u> | <u>1.75</u> | <u>9.94</u> | <u>17.48</u> | <u>0.231</u> | <u>-198.6</u> | <u>2.99</u> | <u>4.03</u> | <u>35.45</u> | — |

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: 35.45 Field Filtered? Yes No
 Sample ID: 16132-MW-42-31 Sample Date: 5/11/16 Sample Time: 0905 # 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.

Signature: [Handwritten Signature]

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-42 Zone 2

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern:
 Client: Owens Corning Personnel: CN
 Project Location: Anderson, South Carolina Weather: Sunny + 68°F

2. WELL DATA

Date Measured: 5/9/16 Time: 0913 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: 222 feet From: Top of Well Casing (TOC) Top of Protective Casing Other:
 Depth to Static Water: 31.46 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: 190.54 feet Well Volume: 7.81 gal Screened Interval (from GS): 212-220
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: 5/11/16 Time: 0925 Equipment Model(s)

Purge Method: Bailer, Size: Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: mp-50
 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 5 to 11:17 gallons
 Was well purged dry? Yes No Pumping Rate: gal/min Calibrated? Yes No

1. Lamotte
2. YSI
3. mp-50
4. Solinst

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|------------|-----------|--------------------------------------|-------------------------|---------------------------|--------------------|-------------|----------|
| 0925 | 0.50 | 7.71 | 17.91 | 0.671 | -277.7 | 1.77 | 98.2 | 38.04 | — |
| 0930 | 0.75 | 7.41 | 17.86 | 0.663 | -299.3 | 0.96 | 16.6 | 48.83 | — |
| 0935 | 1.00 | 7.42 | 17.96 | 0.652 | -316.4 | 0.86 | 11.0 | 53.42 | — |
| 0940 | 1.25 | 7.45 | 18.04 | 0.650 | -327.9 | 0.85 | 7.56 | 60.71 | — |
| 0945 | 1.50 | 7.49 | 18.41 | 0.651 | -336.8 | 0.81 | 6.04 | 65.82 | — |

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: 65.82 Field Filtered? Yes No
 Sample ID: 16132-MW-42-22 Sample Date: 5/11/16 Sample Time: 0950 # 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.

Signature: *[Handwritten Signature]*

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-42 Zone 3

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: _____
 Client: Owens Corning Personnel: CW
 Project Location: Anderson, South Carolina Weather: Sunny + 70°F

2. WELL DATA

Date Measured: 5/9/16 Time: 1635 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: 285 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 46.11 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: 242.9 feet Well Volume: 10.64 gal Screened Interval (from GS): 275-285
 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: 5/11/16 Time: 1025 Equipment Model(s)
 Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: MP-50 1. YSI
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____ 2. Lamotte
 Dedicated Prepared Off-Site Field-Cleaned Disposable 3. MP-50
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____ 4. Selinst
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or stability gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

| Time | Cum. Gallons Removed 7.5 (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|-----------------------------------|---------------|--------------|--|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 1030 | 0.25 | 7.14 | 18.71 | 0.232 | -234.5 | 1.48 | 900 | 39.30 | — |
| 1035 | 0.50 | 7.22 | 18.61 | 0.229 | -255.5 | 1.07 | 24.1 | 44.94 | — |
| 1040 | 0.75 | 7.35 | 18.67 | 0.216 | -268.7 | 0.92 | 14.4 | 49.40 | — |
| 1045 | 1.00 | 7.43 | 18.74 | 0.209 | -278.9 | 0.92 | 11.4 | 53.27 | — |
| 1050 | 1.25 | 7.50 | 18.85 | 0.207 | -287.7 | 0.88 | 9.98 | 56.88 | — |

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: 56.88 Field Filtered? Yes No
 Sample ID: 16132-MW-42-23 Sample Date: 5/11/16 Sample Time: 1055 # 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.

[Signature]
 Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-43 Zone 1

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: _____
 Client: Owens Corning Personnel: CIACAT
 Project Location: Anderson, South Carolina Weather: SUNNY, 80°F

2. WELL DATA Date Measured: 5/9/16 Time: 1215 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: 112.5 feet From: Top of Well Casing (TOC) Top of Protective Casing
 Depth to Static Water: 7.02 feet From: Top of Well Casing (TOC) Top of Protective Casing
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing
 Length of Water Column: 105 feet Well Volume: 4.32 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: 5-9-16 Time: 1620 Equipment Model(s)

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

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 STABILITY gallons
 Was well purged dry? Yes No Pumping Rate: 0.05 gal/min Calibrated? Yes No

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. or ±3% or ±0.010 | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|------------|-----------|------------------------------|-------------------------|---------------------------|--------------------|-------------|----------|
| 1630 | 0.7 | 7.08 | 17.41 | 0.086 | 63.5 | 51.74 | 14.1 | 7.15 | |
| 1640 | 1.5 | 6.73 | 17.13 | 0.087 | 50.54 | 50.98 | 12.0 | 7.20 | |
| 1650 | 2.0 | 6.54 | 16.60 | 0.086 | 85.7 | 46.77 | 6.28 | 7.20 | |
| 1700 | 2.3 | 6.49 | 16.43 | 0.087 | 87.2 | 45.72 | 6.01 | 7.20 | |
| 1710 | 2.7 | 6.47 | 16.37 | 0.087 | 87.2 | 44.63 | 5.46 | 7.20 | |

SAMPLED @ 1715

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: SOLINST

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: 7.20 Field Filtered? Yes No
16130-MW-43
 Sample ID: 2061 Sample Date: 5-9-16 Sample Time: 1715 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: 16130-EB # of Containers: 2

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-43 Zone 2

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: _____
 Client: Owens Corning Personnel: CIAGAT
 Project Location: Anderson, South Carolina Weather: SUNNY, 80°F

2. WELL DATA

Date Measured: 5-9-16 Time: 1215 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: 180 feet From: Top of Well Casing (TOC) Top of Protective Casing
 Depth to Static Water: 4.59 feet From: Top of Well Casing (TOC) Top of Protective Casing
 Depth to Product: — feet From: Top of Well Casing (TOC) Top of Protective Casing
 Length of Water Column: 1754 feet Well Volume: 7.19 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: 5-9-16 Time: 1525 Equipment Model(s)

Purge Method: Bailer, Size _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: SOLINST
 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 STABILITY gallons
 Was well purged dry? Yes No Pumping Rate: 0.06 gal/min Calibrated? Yes

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|--|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 1535 | 1.5 | 7.85 | 16.37 | 0.204 | -63.3 | 17.05 | 10.91 | 9.1 | |
| 1545 | 2.5 | 8.02 | 17.03 | 0.204 | -60.7 | 11.33 | 9.52 | 8.7 | |
| 1555 | 2.7 | 8.03 | 16.97 | 0.203 | -54.4 | 11.47 | 8.61 | 8.5 | |
| 1605 | 3.0 | 8.04 | 17.60 | 0.203 | -45.2 | 10.57 | 6.93 | 8.1 | |
| 1610 | 3.2 | 8.02 | 17.75 | 0.203 | -38.9 | 10.82 | 5.97 | 8.1 | |

SAMPLED @ 1615

Purge data continued on next sheet?

4. SAMPLING DATA

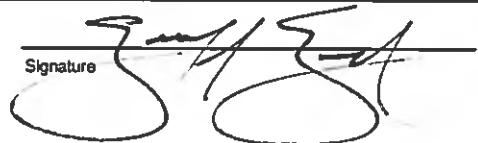
Method(s): Bailer, Size _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: SOLINST
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 8.1 Field Filtered? Yes No
 1615-MW-43-
 Sample ID: Zone 2 Sample Date: 5-9-16 Sample Time: 1615 # 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.

Signature 

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-43 Zone 3

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-XXX Area of Concern: _____
 Client: Owens Corning Personnel: CIACAT
 Project Location: Anderson, South Carolina Weather: CLOUDY

2. WELL DATA Date Measured: 5-9-16 Time: 12:10 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: 282.5 feet From: Top of Well Casing (TOC) Top of Protective Casing
 Depth to Static Water: 1.08 feet From: Top of Well Casing (TOC) Top of Protective Casing
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing
 Length of Water Column: 280 feet Well Volume: 11.5 gal Screened Interval (from GS): 262-282
 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: from 5-9-16 Time: 12:40 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): _____ well volumes or ESTABLISHED gallons
 Was well purged dry? Yes No Pumping Rate: 0.03 gal/min Calibrated? Yes

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|--------------------------------------|-------------------------------|---------------------------------|-----------------------|-------------|----------|
| 1250 | 0.5 | 6.86 | 16.22 | 0.365 | -80.6 | 13.61 | 52.9 | 12.10 | |
| 1300 | 1.0 | 7.38 | 16.21 | 0.322 | -127.6 | 12.70 | 39.2 | 25.25 | |
| 1310 | 1.25 | 7.54 | 16.20 | 0.317 | -174.2 | 12.94 | 39.4 | 35.78 | |
| 1315 | 1.5 | 7.55 | 16.44 | 0.317 | -187.9 | 12.92 | 31.2 | 42.61 | |
| 1320 | 1.75 | 7.59 | 16.60 | 0.315 | -206.2 | 12.99 | 29.7 | 48.52 | |

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: SOLIMAT

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

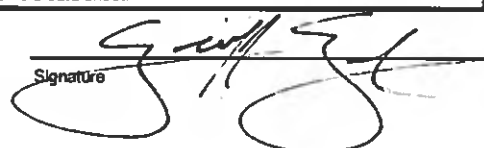
Depth to Water at Time of Sampling: 89.2 Field Filtered? Yes No
 Sample ID: 16130-MW-43-2016-5 Sample Date: 5-9-16 Sample Time: 1515 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

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.

Signature: 



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-43 Zone 3

| 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 ±5% or ±0.010 | > of ±10% or ±20 mV | > of ±10% or ±0.2 mg/L | ≤ 10 NTU | | |
| 1325 | 2.0 | 7.60 | 16.77 | 0.314 | -226.8 | 12.81 | 29.1 | 53.5 | |
| 1330 | 2.25 | 7.61 | 16.96 | 0.314 | -253.2 | 11.88 | 30.2 | 57.8 | |
| 1335 | 3.0 | 7.61 | 16.98 | 0.313 | -259.3 | 11.63 | 41.8 | 61.4 | |
| 1340 | 3.2 | 7.61 | 16.89 | 0.314 | -265.8 | 11.65 | 66.7 | 67.2 | |
| 1345 | 3.35 | 7.63 | 16.97 | 0.315 | -276.1 | 11.16 | 67.8 | 69.4 | |
| 1350 | 3.4 | 7.65 | 17.58 | 0.315 | -284.5 | 11.33 | 65.9 | 72.3 | |
| 1400 | 3.5 | 7.72 | 17.35 | 0.314 | -292.4 | 11.31 | 60.1 | 75.8 | |
| 1410 | 3.6 | 7.70 | 18.11 | 0.314 | -295.7 | 10.64 | 55.2 | 78.2 | |
| 1420 | 3.7 | 7.74 | 18.18 | 0.315 | -296.5 | 10.68 | 49.3 | 79.9 | |
| 1430 | 3.8 | 7.77 | 19.33 | 0.315 | -300.6 | 10.77 | 45.7 | 82.5 | |
| 1440 | 3.9 | 7.78 | 19.70 | 0.315 | -300.9 | 10.78 | 46.8 | 85.7 | |
| 1450 | 4.0 | 7.78 | 21.03 | 0.316 | -306.9 | 10.36 | 52.1 | 86.8 | |
| 1500 | 4.1 | 7.79 | 22.19 | 0.316 | -311.9 | 10.41 | 45.1 | 89.2 | |
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Purge data continued on next sheet?

Signature

1201

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-44

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-xxx Area of Concern: _____
 Client: Owens Corning Personnel: CN
 Project Location: Anderson, South Carolina Weather: Cloudy + 68°F

2. WELL DATA

Date Measured: 5/9/16 Time: 1705 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: 300 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 10.14 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: 289.86 feet Well Volume: 48.40 gal Screened Interval (from GS): 290-300
 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: 5/9/16 Time: 0825 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 STABILITY gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

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2. monsoun
3. Selinst
4. YSZ

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±0.010 mS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|------------|-----------|--------------------------------------|-------------------------|---------------------------|--------------------|-------------|----------|
| 0825 | 0.0 | 8.62 | 15.74 | 0.202 | -231.6 | 4.08 | 10.14 | 10.14 | — |
| 0831 | 2.0 | 8.13 | 16.06 | 0.207 | -293.6 | 1.02 | 7.68 | 10.97 | — |
| 0838 | 4.0 | 8.36 | 16.19 | 0.208 | -400.1 | 0.42 | 4.36 | 11.25 | — |
| 0844 | 6.0 | 8.55 | 16.26 | 0.216 | -409.4 | 0.36 | 1.73 | 11.51 | — |
| 0851 | 8.0 | 8.66 | 16.31 | 0.213 | -439.6 | 0.35 | 1.10 | 11.72 | — |

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: _____ Field Filtered? Yes No
 Sample ID: 16131-MW-44 Sample Date: 5/10/16 Sample Time: 0855 # 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

monsoun line too short to reach bottom of well.

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: 628 Airline Road

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 161-444 Area of Concern: _____
 Client: UJOS CORP Personnel: CN+GG+TB
 Project Location: Anderson SC Weather: Sunny + 79°F

2. WELL DATA

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

Casing Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: _____ 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: 5/12/16 Time: 1200

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
2. _____
3. _____
4. _____

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

| 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 | | |
| <u>1200</u> | <u>15</u> | <u>5.51</u> | <u>15.81</u> | <u>0.080</u> | <u>155.6</u> | <u>158.62</u> | <u>1.28</u> | <u>-</u> | <u>-</u> |
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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: 16133-Airline Road Sample Date: 5/12/16 Sample Time: 1203 # 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: 200 Friendship Lane

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 160-224 Area of Concern: _____
 Client: _____ Personnel: _____
 Project Location: _____ Weather: _____

2. WELL DATA

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

Casing Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: _____ 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: _____
 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

| Time | Cum. Gallons Removed (gal) | pH ±0.1 su | Temp ±2°C | Spec. Cond. > of ±3% or ±10.0 μS/cm | ORP > of ±10% or ±20 mV | DO > of ±10% or ±0.2 mg/L | Turbidity ≤ 10 NTU | Water Level | Comments |
|------|----------------------------|---------------|--------------|--|----------------------------|------------------------------|-----------------------|-------------|----------|
| 1300 | 11 | 6.27 | 19.67 | .071 | 134.5 | 170.3 | 3.21 | | |
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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: 16133-Friendship Lane Sample Date: _____ Sample Time: 1300 # 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: 721 Clinkscotes Road

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 1411-KK2 Area of Concern: _____
 Client: _____ Personnel: _____
 Project Location: _____ Weather: _____

2. WELL DATA

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

Casing Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: _____ 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: _____
 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

| 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 | | |
| 1310 | 13.0 | 6.47 | 16.53 | 6036 | 129.6 | 214.89 | 0.0 | - | - |
| | | | | | | | | | |
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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: 16133-C1 Sample Date: 5/12 Sample Time: 1310 # 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.



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 119 CLOVER HILL DRIVE

1. PROJECT INFORMATION

Project Number: 147297 Task Number: 100-xxx 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: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: _____ 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: 5/12/16 Time: 1336 Equipment Model(s): _____

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____ 1. VSE
 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 4. _____
 Volume to Purge (minimum): _____ well volumes or _____ 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 | | |
| <u>1336</u> | <u>15.0</u> | <u>6.15</u> | <u>15.67</u> | <u>0.035</u> | <u>123.5</u> | <u>189.84</u> | <u>1.416</u> | — | — |
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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
16 133-119 CLOVER HILL
 Sample ID: DRIVE Sample Date: 5/12/16 Sample Time: 1335 # 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: 200 KAYE DRIVE

1. PROJECT INFORMATION

Project Number: 1-16317 Task Number: RM 443 Area of Concern: —
 Client: — Personnel: CN-GG-7A
 Project Location: — Weather: —

2. WELL DATA

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

Casing Diameter: — inches Type: PVC Stainless Galv. Steel Teflon® Other: —
 Screen Diameter: — inches Type: PVC Stainless Galv. Steel Teflon® Other: —
 Total Depth of Well: — 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: 5/12/16 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): — well volumes or — 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 | | |
| 1349 | 15.00 | 6.33 | 16.58 | 0.076 | 133.4 | 162.79 | 0.0 | — | — |
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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
16133-200 KAYE
 Sample ID: 02116 Sample Date: 5-12-16 Sample Time: 1347 # 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: 303 KAYE DRIVE

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 100-971 Area of Concern: _____
 Client: _____ Personnel: CN-GG-TA
 Project Location: _____ Weather: _____

2. WELL DATA

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

Casing Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: _____ 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: 8/12/16 Time: 1355 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. YSI
2. _____
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>1359</u> | <u>15.0</u> | <u>6.18</u> | <u>16.84</u> | <u>0.144</u> | <u>95.1</u> | <u>167.03</u> | <u>3.04</u> | — | — |
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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
15133-303 KAYE
 Sample ID: DR126 Sample Date: 5-12-16 Sample Time: 1358 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

~~Geochemical Analyses~~
 Ferrus 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: 412 Kaye Drive

1. PROJECT INFORMATION

Project Number: 146817- Task Number: 111-444 Area of Concern: _____
 Client: _____ Personnel: _____
 Project Location: _____ Weather: _____

2. WELL DATA

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

Casing Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: _____ 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: 5/12/16 Time: 1416 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

| 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 | | |
| 1417 | 1500 | 6.28 | 19.34 | 0.041 | 97.2 | 121.26 | 4.14 | | |
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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: 1633-412 Kaye Drive Sample Date: 5/12/16 Sample Time: 14108 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: 1 # of Containers: 1
 Equipment Blank Collected? Yes No ID: 1 # of Containers: 1

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: 117 FAYE DRIVE

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 160-1444 Area of Concern: _____
 Client: _____ Personnel: CR-266-9A
 Project Location: _____ Weather: _____

2. WELL DATA

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

Casing Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: _____ 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: 1420 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

| 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 | | |
| <u>1427</u> | <u>13.0</u> | <u>7.03</u> | <u>16.51</u> | <u>0.268</u> | <u>124.3</u> | <u>133.41</u> | <u>2.32</u> | — | |
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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
1-133-117 FAYE
 Sample ID: DRIVE Sample Date: 5/12/11 Sample Time: 1425 # 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: 605 Clinchscowles Road

1. PROJECT INFORMATION

Project Number: 148917 Task Number: 118-844 Area of Concern: _____
 Client: Usco Personnel: _____
 Project Location: _____ Weather: _____

2. WELL DATA

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

Casing Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: _____ 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: _____
 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

| 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?

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: 16133-605 Clinchscowles Road Sample Date: 5/17/16 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

John Davis - new owner - send letter to
WELL PERIOD NOT WORKING

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: 1303-CLINKSCALES ROAD

1. PROJECT INFORMATION

Project Number: 147297 Task Number: 100-XXX 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: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: _____ 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 4. _____
 Volume to Purge (minimum): _____ well volumes or _____ 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 |
|------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|----------|
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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: 16133-1303 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

NEED TO VERIFY LOCATION.
SAME AS 1365 CLINKSCALES ROAD?

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: 408 Clinkscates Road

1. PROJECT INFORMATION

Project Number: 48917 Task Number: DW-442 Area of Concern: _____
 Client: _____ Personnel: _____
 Project Location: _____ Weather: _____

2. WELL DATA

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

Casing Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: _____ 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 4. _____
 Volume to Purge (minimum): _____ well volumes or _____ 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 |
|------|----------------------------|---------------|--------------|---|-------------------------------|---------------------------------|-----------------------|-------------|----------|
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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: 1603-100 Sample Date: 408-Clinkscates Road 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

~~well is a well at begin~~
 → well on other side of cutter gate, to left, look for opening in fence.

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

Appendix B: Laboratory Analytical Reports





March 04, 2016

Tamara Berryman
BROWN AND CALDWELL
990 Hammond Drive
Atlanta GA 30328

TEL: (770) 673-3678
FAX: (770) 396-9495

RE: Owens Corning Quarterly

Dear Tamara Berryman:

Order No: 1602M88

Analytical Environmental Services, Inc. received 32 samples on 2/25/2016 9:37:00 AM for the analyses presented in 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's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/15-06/30/16.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/15-06/30/16.
- NELAC/Texas Certificate No. T104704509-16-6 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 03/01/16-02/28/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

Ioana Pacurar
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1602m88

Date: 2-25-16 Page 1 of 3

| COMPANY: BROWN + CALDWELL | | ADDRESS: 990 HAMMOND DR ATLANTA, GA 30328 | | | | ANALYSIS REQUESTED | | | | | | | | Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc. | | No # of Containers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------------------|--|------|--|-----------|--|--------------------------|---|--|--|--|--|--|--|--|--|---------|--------------------|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| PHONE: | | FAX: | | | | <table border="1"> <tr><td>VOC's</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> | | | | | | | | VOC's | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VOC's | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLED BY: Geoff Grant / Chad Hance / Jackie Lauer | | SIGNATURE: | | | | PRESERVATION (See codes) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| # | SAMPLE ID | SAMPLED | | Grab | Composite | Matrix (See codes) | PRESERVATION (See codes) | | | | | | | | | | REMARKS | No # of Containers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | DATE | TIME | | | | H+I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 16053-MW-15 | 2-22-16 | 1812 | X | | GW | X | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 16054-MW-22 | 2-23-16 | 0920 | X | | GW | X | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 16054-MW-29R-ZONE 3 | 2-23-16 | 1000 | X | | GW | X | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 16054-MW-29R-ZONE 4 | 2-23-16 | 1050 | X | | GW | X | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 16053-MW-35 | 2-22-16 | 1642 | X | | GW | X | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 16054-MW-36-ZONE 1 | 2-23-16 | 1145 | X | | GW | X | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 16054-MW-36-ZONE 3 | 2-23-16 | 1600 | X | | GW | X | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | ^{OG} 16055-MW-37-ZONE 1 | 2-24-16 | 1005 | X | | GW | X | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 16055-MW-37-ZONE 2 | 2-24-16 | 1450 | X | | GW | X | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 16055-MW-37-ZONE 3 | 2-24-16 | 1130 | X | | GW | X | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 16054-MW-38-ZONE 1 | 2-23-16 | 1155 | X | | GW | X | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 16054-MW-38-Z2 | 2-23-16 | 1130 | X | | GW | X | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 16054-MW-39-Z1 | 2-23-16 | 1550 | X | | GW | X | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 16054-MW-39-Z2 | 2-23-16 | 1742 | X | | GW | X | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RELINQUISHED BY | | DATE/TIME | | RECEIVED BY | | DATE/TIME | | PROJECT INFORMATION | | | | | | | | RECEIPT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1: | | 2-25-16/0937 | | 1: <u>Nagle</u> | | 2-25-16 9:37am | | PROJECT NAME: <u>Owens Corning Quarterly</u> | | | | | | | | Total # of Containers: <u>28</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2: | | | | 2: | | | | PROJECT #: <u>148917</u> | | | | | | | | Turnaround Time Request: <input checked="" type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3: | | | | 3: | | | | SITE ADDRESS: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SPECIAL INSTRUCTIONS/COMMENTS: <u>Site Specific</u> <u>VOC's</u> | | SHIPMENT METHOD | | INVOICE TO: | | | | SEND REPORT TO: <u>tberryman@bruncald.com</u> | | | | | | | | STATE PROGRAM (if any): E-mail? <input checked="" type="radio"/> Y / <input type="radio"/> N; Fax? <input checked="" type="radio"/> Y / <input type="radio"/> N DATA PACKAGE: I <input checked="" type="radio"/> II <input type="radio"/> III <input type="radio"/> IV | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | OUT / / VIA: IN / / VIA: <input checked="" type="radio"/> CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER | | (IF DIFFERENT FROM ABOVE) <u>tberryman@bruncald.com</u> | | | | QUOTE #: PO#: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Date: 2-25-16 Page 2 of 3

| COMPANY: Brown + Caldwell | | ADDRESS: 990 Hammond Dr. Atlanta, Ga 30328 | | | ANALYSIS REQUESTED | | | | | | | | Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc. | | No # of Containers | | | | |
|--|-------------------|--|------|--|--------------------------|--------------------|---|---|--|--|--|----------|--|--|--------------------|---|--|--|--|
| PHONE: | | FAX: | | | PRESERVATION (See codes) | | | | | | | | | | | | | | |
| SAMPLED BY: Geoff Gugat/Chad Newack/Prentice Lawler | | SIGNATURE: | | | REMARKS | | | | | | | | 2 | | | | | | |
| # | SAMPLE ID | DATE | TIME | Grab | Composite | Matrix (See codes) | | | | | | | | | | | | | |
| 1 | 16054-MW-39-Z3 | 2-23-16 | 1035 | X | | GW | X | | | | | | | | | | | | |
| 2 | 16053-MW-41-Zone1 | 2-22-16 | 1555 | X | | GW | X | | | | | | | | | | | | |
| 3 | 16053-MW-41-Zone2 | 2-22-16 | 1645 | X | | GW | X | | | | | | | | | | | | |
| 4 | 16053-MW-41-Zone3 | 2-22-16 | 1810 | X | | GW | X | | | | | | | | | | | | |
| 5 | 16055-MW-42-Z1 | 2-24-16 | 1030 | X | | GW | X | | | | | | | | | | | | |
| 6 | 16055-MW-42-Z2 | 2-24-16 | 1145 | X | | GW | X | | | | | | | | | | | | |
| 7 | 16055-MW-42-Z3 | 2-24-16 | 1445 | X | | GW | X | | | | | | | | | | | | |
| 8 | 16053-MW-43-Zone1 | 2-22-16 | 1040 | X | | GW | X | | | | | | | | | | | | |
| 9 | 16053-MW-43-Zone2 | 2-22-16 | 1145 | X | | GW | X | | | | | | | | | | | | |
| 10 | 16053-MW-43-Zone3 | 2-22-16 | 1405 | X | | GW | X | | | | | | | | | | | | |
| 11 | 16053-MW-44 | 2-22-16 | 1455 | X | | GW | X | | | | | | | | | | | | |
| 12 | 16053-DUP | 2-22-16 | 1200 | X | | GW | X | | | | | | | | | | | | |
| 13 | 16053-DUP-1 | 2-22-16 | — | X | | GW | X | | | | | | | | | | | | |
| 14 | 16053-EB | 2-22-16 | 1200 | X | | GW | X | | | | | | | | | | | | |
| RELINQUISHED BY | | DATE/TIME | | RECEIVED BY | | DATE/TIME | | PROJECT INFORMATION | | | | | | | | RECEIPT | | | |
| 1: | | 2-25-16/0937 | | 1: Naylor | | 2-25-16 0937 | | PROJECT NAME: Owen Corning Quarterly | | | | | | | | Total # of Containers 18 | | | |
| 2: | | | | 2: | | | | PROJECT #: 148917 | | | | | | | | <input checked="" type="radio"/> Turnaround Time Request <input type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other _____ | | | |
| 3: | | | | 3: | | | | SITE ADDRESS: | | | | | | | | | | | |
| | | | | | | | | SEND REPORT TO: tberryman@browncauld.com | | | | | | | | | | | |
| SPECIAL INSTRUCTIONS/COMMENTS: Site Specific VOC'S | | | | SHIPMENT METHOD | | | | INVOICE TO: | | | | QUOTE #: | | | | PO#: | | | |
| | | | | OUT / / VIA: | | | | (IF DIFFERENT FROM ABOVE) | | | | | | | | STATE PROGRAM (if any): | | | |
| | | | | IN <input checked="" type="radio"/> / / VIA: | | | | tberryman@browncauld.com | | | | | | | | E-mail? <input checked="" type="radio"/> N; Fax? <input type="radio"/> Y / <input checked="" type="radio"/> N | | | |
| | | | | <input checked="" type="radio"/> CLIENT FedEx UPS MAIL COURIER | | | | | | | | | | | | DATA PACKAGE: I <input checked="" type="radio"/> II <input type="radio"/> III <input type="radio"/> IV | | | |
| | | | | GREYHOUND OTHER _____ | | | | | | | | | | | | | | | |

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.



| COMPANY: BROWN + CALDWELL | | ADDRESS: 990 HAMMOND DR ATLANTA, GA 30328 | | | | | ANALYSIS REQUESTED | | | | | | | | | | Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc. | | No # of Containers | | | |
|--|------------|---|------|------|-----------|-----------------------|--------------------------|---|--|--|--|--|--|--|--|--|--|--|--------------------|--|--|---|
| PHONE: | | FAX: | | | | | VOC's | | | | | | | | | | REMARKS | | | | | |
| SAMPLED BY: GEOFF GAGAT / CHAD NOVACEK / JAKKIE LAUREN | | SIGNATURE: <i>[Signature]</i> | | | | | | | | | | | | | | | | | | | | |
| # | SAMPLE ID | SAMPLED | | Grab | Composite | Matrix (See codes) | PRESERVATION (See codes) | | | | | | | | | | REMARKS | | No # of Containers | | | |
| | | DATE | TIME | | | | H | I | | | | | | | | | | | | | | |
| 1 | 16054-EB | 2-23-16 | 1200 | X | | W | X | | | | | | | | | | | | | | | 2 |
| 2 | 16055-EB | 2-24-16 | 1200 | X | | W | X | | | | | | | | | | | | | | | 2 |
| 3 | TRIP BLANK | - | - | | | W | X | | | | | | | | | | | | | | | 2 |
| 4 | TRIP BLANK | - | - | X | | W | X | | | | | | | | | | | | | | | 2 |
| 5 | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|--------------|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|---|--|
| RELINQUISHED BY | | DATE/TIME | | RECEIVED BY | | DATE/TIME | | PROJECT INFORMATION | | | | | | | | | | RECEIPT | |
| 1: <i>[Signature]</i> | | 2-25-16/0937 | | 1: <i>[Signature]</i> | | 2-25-16 0937 | | PROJECT NAME: OWENS CORPING | | | | | | | | | | Total # of Containers: 8 | |
| 2: | | | | 2: | | | | PROJECT #: 148917 | | | | | | | | | | <input checked="" type="radio"/> Turnaround Time Request <input type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other _____ | |
| 3: | | | | 3: | | | | SITE ADDRESS: ANDERSON, SC | | | | | | | | | | | |
| SPECIAL INSTRUCTIONS/COMMENTS: | | | | SHIPMENT METHOD | | | | SEND REPORT TO: T.BERRYMAN@BRNNCALD.COM | | | | | | | | | | STATE PROGRAM (if any): _____ | |
| SITE SPECIFIC VOC'S | | OUT / / VIA: | | IN / / VIA: | | | | INVOICE TO: (IF DIFFERENT FROM ABOVE) | | | | | | | | | | E-mail? <input checked="" type="radio"/> Y <input type="radio"/> N; Fax? <input type="radio"/> Y <input checked="" type="radio"/> N | |
| | | | | <input checked="" type="radio"/> CLIENT <input type="radio"/> GREYHOUND | | <input type="radio"/> FedEx <input type="radio"/> UPS <input type="radio"/> MAIL <input type="radio"/> COURIER <input type="radio"/> OTHER _____ | | QUOTE #: _____ PO#: _____ | | | | | | | | | | DATA PACKAGE: I <input checked="" type="radio"/> II <input type="radio"/> III <input type="radio"/> IV | |

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION 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 S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Owens Corning Site Specific VOC's

Groundwater, surface water, and residential well samples will be submitted to Analytical Environmental Services, Inc. (AES) of Atlanta, Georgia for analysis of the focused list of volatile organic compounds (VOCs) using U.S. EPA Method 8260B:

- 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-dichloroethene (cis-1,2-DCE)
- trans-1,2-dichloroethene (trans-1,2-DCE)
- vinyl chloride
- carbon tetrachloride
- chloroform
- methylene chloride
- benzene
- toluene
- ethylbenzene
- xylenes

| | |
|--|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16053-MW-15 |
| Project Name: Owens Corning Quarterly | Collection Date: 2/22/2016 6:12:00 PM |
| Lab ID: 1602M88-001 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220607 | 1 | 03/02/2016 22:16 | NP |
| 1,1-Dichloroethene | 160 | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:16 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:16 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:16 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:16 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:16 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:16 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:16 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:16 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:16 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:16 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:16 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:16 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:16 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:16 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:16 | NP |
| Surr: 4-Bromofluorobenzene | 86.6 | 70.7-125 | | %REC | 220607 | 1 | 03/02/2016 22:16 | NP |
| Surr: Dibromofluoromethane | 110 | 82.2-120 | | %REC | 220607 | 1 | 03/02/2016 22:16 | NP |
| Surr: Toluene-d8 | 102 | 81.8-120 | | %REC | 220607 | 1 | 03/02/2016 22:16 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16054-MW-22 |
| Project Name: Owens Corning Quarterly | Collection Date: 2/23/2016 9:20:00 AM |
| Lab ID: 1602M88-002 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220607 | 1 | 03/01/2016 12:25 | JE |
| 1,1-Dichloroethene | 96 | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 12:25 | JE |
| Methylene chloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 12:25 | JE |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 12:25 | JE |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 12:25 | JE |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 12:25 | JE |
| Chloroform | 6.6 | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 12:25 | JE |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 12:25 | JE |
| Carbon tetrachloride | 20 | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 12:25 | JE |
| Benzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 12:25 | JE |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 12:25 | JE |
| Trichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 12:25 | JE |
| Toluene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 12:25 | JE |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 12:25 | JE |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 12:25 | JE |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 12:25 | JE |
| Surr: 4-Bromofluorobenzene | 101 | 70.7-125 | | %REC | 220607 | 1 | 03/01/2016 12:25 | JE |
| Surr: Dibromofluoromethane | 97.3 | 82.2-120 | | %REC | 220607 | 1 | 03/01/2016 12:25 | JE |
| Surr: Toluene-d8 | 103 | 81.8-120 | | %REC | 220607 | 1 | 03/01/2016 12:25 | JE |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16054-MW-29R-ZONE 3 |
| Project Name: Owens Corning Quarterly | Collection Date: 2/23/2016 10:00:00 AM |
| Lab ID: 1602M88-003 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220607 | 1 | 03/02/2016 22:43 | NP |
| 1,1-Dichloroethene | 140 | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:43 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:43 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:43 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:43 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:43 | NP |
| Chloroform | 5.9 | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:43 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:43 | NP |
| Carbon tetrachloride | 7.1 | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:43 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:43 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:43 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:43 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:43 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:43 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:43 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 22:43 | NP |
| Surr: 4-Bromofluorobenzene | 89.2 | 70.7-125 | | %REC | 220607 | 1 | 03/02/2016 22:43 | NP |
| Surr: Dibromofluoromethane | 109 | 82.2-120 | | %REC | 220607 | 1 | 03/02/2016 22:43 | NP |
| Surr: Toluene-d8 | 101 | 81.8-120 | | %REC | 220607 | 1 | 03/02/2016 22:43 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16054-MW-29R-ZONE 4 |
| Project Name: Owens Corning Quarterly | Collection Date: 2/23/2016 10:50:00 AM |
| Lab ID: 1602M88-004 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220607 | 1 | 03/02/2016 23:37 | NP |
| 1,1-Dichloroethene | 130 | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 23:37 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 23:37 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 23:37 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 23:37 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 23:37 | NP |
| Chloroform | 5.7 | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 23:37 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 23:37 | NP |
| Carbon tetrachloride | 6.1 | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 23:37 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 23:37 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 23:37 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 23:37 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 23:37 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 23:37 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 23:37 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220607 | 1 | 03/02/2016 23:37 | NP |
| Surr: 4-Bromofluorobenzene | 87.5 | 70.7-125 | | %REC | 220607 | 1 | 03/02/2016 23:37 | NP |
| Surr: Dibromofluoromethane | 111 | 82.2-120 | | %REC | 220607 | 1 | 03/02/2016 23:37 | NP |
| Surr: Toluene-d8 | 102 | 81.8-120 | | %REC | 220607 | 1 | 03/02/2016 23:37 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16053-MW-35 |
| Project Name: Owens Corning Quarterly | Collection Date: 2/22/2016 4:42:00 PM |
| Lab ID: 1602M88-005 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220607 | 1 | 03/03/2016 00:31 | NP |
| 1,1-Dichloroethene | 45 | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:31 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:31 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:31 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:31 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:31 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:31 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:31 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:31 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:31 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:31 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:31 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:31 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:31 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:31 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:31 | NP |
| Surr: 4-Bromofluorobenzene | 88.1 | 70.7-125 | | %REC | 220607 | 1 | 03/03/2016 00:31 | NP |
| Surr: Dibromofluoromethane | 109 | 82.2-120 | | %REC | 220607 | 1 | 03/03/2016 00:31 | NP |
| Surr: Toluene-d8 | 102 | 81.8-120 | | %REC | 220607 | 1 | 03/03/2016 00:31 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16054-MW-36-ZONE 1 |
| Project Name: Owens Corning Quarterly | Collection Date: 2/23/2016 11:45:00 AM |
| Lab ID: 1602M88-006 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220607 | 1 | 03/03/2016 00:58 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:58 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:58 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:58 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:58 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:58 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:58 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:58 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:58 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:58 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:58 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:58 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:58 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:58 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:58 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 00:58 | NP |
| Surr: 4-Bromofluorobenzene | 86.4 | 70.7-125 | | %REC | 220607 | 1 | 03/03/2016 00:58 | NP |
| Surr: Dibromofluoromethane | 108 | 82.2-120 | | %REC | 220607 | 1 | 03/03/2016 00:58 | NP |
| Surr: Toluene-d8 | 101 | 81.8-120 | | %REC | 220607 | 1 | 03/03/2016 00:58 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16054-MW-36-ZONE 3 |
| Project Name: Owens Corning Quarterly | Collection Date: 2/23/2016 4:00:00 PM |
| Lab ID: 1602M88-007 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220607 | 1 | 03/03/2016 01:25 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:25 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:25 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:25 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:25 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:25 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:25 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:25 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:25 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:25 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:25 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:25 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:25 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:25 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:25 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:25 | NP |
| Surr: 4-Bromofluorobenzene | 87.8 | 70.7-125 | | %REC | 220607 | 1 | 03/03/2016 01:25 | NP |
| Surr: Dibromofluoromethane | 111 | 82.2-120 | | %REC | 220607 | 1 | 03/03/2016 01:25 | NP |
| Surr: Toluene-d8 | 101 | 81.8-120 | | %REC | 220607 | 1 | 03/03/2016 01:25 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16055-MW-37-ZONE 1 |
| Project Name: Owens Corning Quarterly | Collection Date: 2/24/2016 10:05:00 AM |
| Lab ID: 1602M88-008 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220607 | 1 | 03/03/2016 01:52 | NP |
| 1,1-Dichloroethene | 96 | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:52 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:52 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:52 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:52 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:52 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:52 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:52 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:52 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:52 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:52 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:52 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:52 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:52 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:52 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 01:52 | NP |
| Surr: 4-Bromofluorobenzene | 87.1 | 70.7-125 | | %REC | 220607 | 1 | 03/03/2016 01:52 | NP |
| Surr: Dibromofluoromethane | 109 | 82.2-120 | | %REC | 220607 | 1 | 03/03/2016 01:52 | NP |
| Surr: Toluene-d8 | 103 | 81.8-120 | | %REC | 220607 | 1 | 03/03/2016 01:52 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16055-MW-37-ZONE 2 |
| Project Name: Owens Corning Quarterly | Collection Date: 2/24/2016 2:50:00 PM |
| Lab ID: 1602M88-009 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220607 | 1 | 03/03/2016 02:19 | NP |
| 1,1-Dichloroethene | 160 | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 02:19 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 02:19 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 02:19 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 02:19 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 02:19 | NP |
| Chloroform | 5.8 | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 02:19 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 02:19 | NP |
| Carbon tetrachloride | 6.1 | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 02:19 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 02:19 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 02:19 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 02:19 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 02:19 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 02:19 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 02:19 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 02:19 | NP |
| Surr: 4-Bromofluorobenzene | 88.3 | 70.7-125 | | %REC | 220607 | 1 | 03/03/2016 02:19 | NP |
| Surr: Dibromofluoromethane | 112 | 82.2-120 | | %REC | 220607 | 1 | 03/03/2016 02:19 | NP |
| Surr: Toluene-d8 | 101 | 81.8-120 | | %REC | 220607 | 1 | 03/03/2016 02:19 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16055-MW-37-ZONE 3 |
| Project Name: Owens Corning Quarterly | Collection Date: 2/24/2016 11:30:00 AM |
| Lab ID: 1602M88-010 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220607 | 1 | 03/03/2016 03:13 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:13 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:13 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:13 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:13 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:13 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:13 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:13 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:13 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:13 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:13 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:13 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:13 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:13 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:13 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:13 | NP |
| Surr: 4-Bromofluorobenzene | 87.4 | 70.7-125 | | %REC | 220607 | 1 | 03/03/2016 03:13 | NP |
| Surr: Dibromofluoromethane | 108 | 82.2-120 | | %REC | 220607 | 1 | 03/03/2016 03:13 | NP |
| Surr: Toluene-d8 | 98.2 | 81.8-120 | | %REC | 220607 | 1 | 03/03/2016 03:13 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16054-MW-38-ZONE 1 |
| Project Name: Owens Corning Quarterly | Collection Date: 2/23/2016 11:55:00 AM |
| Lab ID: 1602M88-011 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220607 | 1 | 03/03/2016 03:40 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:40 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:40 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:40 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:40 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:40 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:40 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:40 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:40 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:40 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:40 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:40 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:40 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:40 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:40 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 03:40 | NP |
| Surr: 4-Bromofluorobenzene | 88.3 | 70.7-125 | | %REC | 220607 | 1 | 03/03/2016 03:40 | NP |
| Surr: Dibromofluoromethane | 112 | 82.2-120 | | %REC | 220607 | 1 | 03/03/2016 03:40 | NP |
| Surr: Toluene-d8 | 104 | 81.8-120 | | %REC | 220607 | 1 | 03/03/2016 03:40 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16054-MW-38-Z2 |
| Project Name: Owens Corning Quarterly | Collection Date: 2/23/2016 11:30:00 AM |
| Lab ID: 1602M88-012 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220607 | 1 | 03/03/2016 04:07 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:07 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:07 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:07 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:07 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:07 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:07 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:07 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:07 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:07 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:07 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:07 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:07 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:07 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:07 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:07 | NP |
| Surr: 4-Bromofluorobenzene | 84.4 | 70.7-125 | | %REC | 220607 | 1 | 03/03/2016 04:07 | NP |
| Surr: Dibromofluoromethane | 114 | 82.2-120 | | %REC | 220607 | 1 | 03/03/2016 04:07 | NP |
| Surr: Toluene-d8 | 103 | 81.8-120 | | %REC | 220607 | 1 | 03/03/2016 04:07 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16054-MW-39-Z1 |
| Project Name: Owens Corning Quarterly | Collection Date: 2/23/2016 3:50:00 PM |
| Lab ID: 1602M88-013 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220607 | 1 | 03/01/2016 20:12 | JE |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 20:12 | JE |
| Methylene chloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 20:12 | JE |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 20:12 | JE |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 20:12 | JE |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 20:12 | JE |
| Chloroform | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 20:12 | JE |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 20:12 | JE |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 20:12 | JE |
| Benzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 20:12 | JE |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 20:12 | JE |
| Trichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 20:12 | JE |
| Toluene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 20:12 | JE |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 20:12 | JE |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 20:12 | JE |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220607 | 1 | 03/01/2016 20:12 | JE |
| Surr: 4-Bromofluorobenzene | 97.4 | 70.7-125 | | %REC | 220607 | 1 | 03/01/2016 20:12 | JE |
| Surr: Dibromofluoromethane | 101 | 82.2-120 | | %REC | 220607 | 1 | 03/01/2016 20:12 | JE |
| Surr: Toluene-d8 | 106 | 81.8-120 | | %REC | 220607 | 1 | 03/01/2016 20:12 | JE |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16054-MW-39-Z2 |
| Project Name: Owens Corning Quarterly | Collection Date: 2/23/2016 5:42:00 PM |
| Lab ID: 1602M88-014 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220607 | 1 | 03/03/2016 04:34 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:34 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:34 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:34 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:34 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:34 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:34 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:34 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:34 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:34 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:34 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:34 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:34 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:34 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:34 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 04:34 | NP |
| Surr: 4-Bromofluorobenzene | 89.2 | 70.7-125 | | %REC | 220607 | 1 | 03/03/2016 04:34 | NP |
| Surr: Dibromofluoromethane | 110 | 82.2-120 | | %REC | 220607 | 1 | 03/03/2016 04:34 | NP |
| Surr: Toluene-d8 | 103 | 81.8-120 | | %REC | 220607 | 1 | 03/03/2016 04:34 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16054-MW-39-Z3 |
| Project Name: Owens Corning Quarterly | Collection Date: 2/23/2016 6:35:00 PM |
| Lab ID: 1602M88-015 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220607 | 1 | 03/03/2016 05:01 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:01 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:01 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:01 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:01 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:01 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:01 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:01 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:01 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:01 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:01 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:01 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:01 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:01 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:01 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:01 | NP |
| Surr: 4-Bromofluorobenzene | 86.9 | 70.7-125 | | %REC | 220607 | 1 | 03/03/2016 05:01 | NP |
| Surr: Dibromofluoromethane | 110 | 82.2-120 | | %REC | 220607 | 1 | 03/03/2016 05:01 | NP |
| Surr: Toluene-d8 | 99.8 | 81.8-120 | | %REC | 220607 | 1 | 03/03/2016 05:01 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16053-MW-41-ZONE 1 |
| Project Name: Owens Corning Quarterly | Collection Date: 2/22/2016 3:55:00 PM |
| Lab ID: 1602M88-016 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220607 | 1 | 03/03/2016 05:28 | NP |
| 1,1-Dichloroethene | 150 | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:28 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:28 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:28 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:28 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:28 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:28 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:28 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:28 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:28 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:28 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:28 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:28 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:28 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:28 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:28 | NP |
| Surr: 4-Bromofluorobenzene | 88.7 | 70.7-125 | | %REC | 220607 | 1 | 03/03/2016 05:28 | NP |
| Surr: Dibromofluoromethane | 111 | 82.2-120 | | %REC | 220607 | 1 | 03/03/2016 05:28 | NP |
| Surr: Toluene-d8 | 100 | 81.8-120 | | %REC | 220607 | 1 | 03/03/2016 05:28 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16053-MW-41-ZONE 2 |
| Project Name: Owens Corning Quarterly | Collection Date: 2/22/2016 4:45:00 PM |
| Lab ID: 1602M88-017 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220607 | 1 | 03/03/2016 05:55 | NP |
| 1,1-Dichloroethene | 180 | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:55 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:55 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:55 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:55 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:55 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:55 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:55 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:55 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:55 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:55 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:55 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:55 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:55 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:55 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 05:55 | NP |
| Surr: 4-Bromofluorobenzene | 88.5 | 70.7-125 | | %REC | 220607 | 1 | 03/03/2016 05:55 | NP |
| Surr: Dibromofluoromethane | 112 | 82.2-120 | | %REC | 220607 | 1 | 03/03/2016 05:55 | NP |
| Surr: Toluene-d8 | 102 | 81.8-120 | | %REC | 220607 | 1 | 03/03/2016 05:55 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16053-MW-41-ZONE 3 |
| Project Name: Owens Corning Quarterly | Collection Date: 2/22/2016 6:10:00 PM |
| Lab ID: 1602M88-018 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220607 | 1 | 03/03/2016 06:22 | NP |
| 1,1-Dichloroethene | 20 | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:22 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:22 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:22 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:22 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:22 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:22 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:22 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:22 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:22 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:22 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:22 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:22 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:22 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:22 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:22 | NP |
| Surr: 4-Bromofluorobenzene | 86.9 | 70.7-125 | | %REC | 220607 | 1 | 03/03/2016 06:22 | NP |
| Surr: Dibromofluoromethane | 113 | 82.2-120 | | %REC | 220607 | 1 | 03/03/2016 06:22 | NP |
| Surr: Toluene-d8 | 102 | 81.8-120 | | %REC | 220607 | 1 | 03/03/2016 06:22 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16055-MW-42-Z1 |
| Project Name: Owens Corning Quarterly | Collection Date: 2/24/2016 10:30:00 AM |
| Lab ID: 1602M88-019 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220607 | 1 | 03/03/2016 06:49 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:49 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:49 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:49 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:49 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:49 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:49 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:49 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:49 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:49 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:49 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:49 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:49 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:49 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:49 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 06:49 | NP |
| Surr: 4-Bromofluorobenzene | 86.2 | 70.7-125 | | %REC | 220607 | 1 | 03/03/2016 06:49 | NP |
| Surr: Dibromofluoromethane | 112 | 82.2-120 | | %REC | 220607 | 1 | 03/03/2016 06:49 | NP |
| Surr: Toluene-d8 | 99.8 | 81.8-120 | | %REC | 220607 | 1 | 03/03/2016 06:49 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16055-MW-42-Z2 |
| Project Name: Owens Corning Quarterly | Collection Date: 2/24/2016 11:45:00 AM |
| Lab ID: 1602M88-020 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220607 | 1 | 03/03/2016 07:17 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 07:17 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 07:17 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 07:17 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 07:17 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 07:17 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 07:17 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 07:17 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 07:17 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 07:17 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 07:17 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 07:17 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 07:17 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 07:17 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 07:17 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220607 | 1 | 03/03/2016 07:17 | NP |
| Surr: 4-Bromofluorobenzene | 88.9 | 70.7-125 | | %REC | 220607 | 1 | 03/03/2016 07:17 | NP |
| Surr: Dibromofluoromethane | 112 | 82.2-120 | | %REC | 220607 | 1 | 03/03/2016 07:17 | NP |
| Surr: Toluene-d8 | 102 | 81.8-120 | | %REC | 220607 | 1 | 03/03/2016 07:17 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16055-MW-42-Z3 |
| Project Name: Owens Corning Quarterly | Collection Date: 2/24/2016 2:45:00 PM |
| Lab ID: 1602M88-021 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220475 | 1 | 02/26/2016 18:53 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:53 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:53 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:53 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:53 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:53 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:53 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:53 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:53 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:53 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:53 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:53 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:53 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:53 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:53 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:53 | NP |
| Surr: 4-Bromofluorobenzene | 90.5 | 70.7-125 | | %REC | 220475 | 1 | 02/26/2016 18:53 | NP |
| Surr: Dibromofluoromethane | 106 | 82.2-120 | | %REC | 220475 | 1 | 02/26/2016 18:53 | NP |
| Surr: Toluene-d8 | 101 | 81.8-120 | | %REC | 220475 | 1 | 02/26/2016 18:53 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16053-MW-43-ZONE 1 |
| Project Name: Owens Corning Quarterly | Collection Date: 2/22/2016 10:40:00 AM |
| Lab ID: 1602M88-022 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220475 | 1 | 02/26/2016 19:20 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:20 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:20 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:20 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:20 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:20 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:20 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:20 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:20 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:20 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:20 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:20 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:20 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:20 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:20 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:20 | NP |
| Surr: 4-Bromofluorobenzene | 89.4 | 70.7-125 | | %REC | 220475 | 1 | 02/26/2016 19:20 | NP |
| Surr: Dibromofluoromethane | 105 | 82.2-120 | | %REC | 220475 | 1 | 02/26/2016 19:20 | NP |
| Surr: Toluene-d8 | 102 | 81.8-120 | | %REC | 220475 | 1 | 02/26/2016 19:20 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16053-MW-43-ZONE 2 |
| Project Name: Owens Corning Quarterly | Collection Date: 2/22/2016 11:45:00 AM |
| Lab ID: 1602M88-023 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220475 | 1 | 02/26/2016 19:47 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:47 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:47 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:47 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:47 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:47 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:47 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:47 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:47 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:47 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:47 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:47 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:47 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:47 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:47 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 19:47 | NP |
| Surr: 4-Bromofluorobenzene | 89 | 70.7-125 | | %REC | 220475 | 1 | 02/26/2016 19:47 | NP |
| Surr: Dibromofluoromethane | 106 | 82.2-120 | | %REC | 220475 | 1 | 02/26/2016 19:47 | NP |
| Surr: Toluene-d8 | 97.8 | 81.8-120 | | %REC | 220475 | 1 | 02/26/2016 19:47 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16053-MW-43-ZONE 3 |
| Project Name: Owens Corning Quarterly | Collection Date: 2/22/2016 2:05:00 PM |
| Lab ID: 1602M88-024 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220475 | 1 | 02/26/2016 20:14 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:14 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:14 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:14 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:14 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:14 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:14 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:14 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:14 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:14 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:14 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:14 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:14 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:14 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:14 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:14 | NP |
| Surr: 4-Bromofluorobenzene | 90.6 | 70.7-125 | | %REC | 220475 | 1 | 02/26/2016 20:14 | NP |
| Surr: Dibromofluoromethane | 106 | 82.2-120 | | %REC | 220475 | 1 | 02/26/2016 20:14 | NP |
| Surr: Toluene-d8 | 99.3 | 81.8-120 | | %REC | 220475 | 1 | 02/26/2016 20:14 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16053-MW-44 |
| Project Name: Owens Corning Quarterly | Collection Date: 2/22/2016 2:55:00 PM |
| Lab ID: 1602M88-025 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220475 | 1 | 02/26/2016 20:41 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:41 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:41 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:41 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:41 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:41 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:41 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:41 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:41 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:41 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:41 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:41 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:41 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:41 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:41 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 20:41 | NP |
| Surr: 4-Bromofluorobenzene | 89.7 | 70.7-125 | | %REC | 220475 | 1 | 02/26/2016 20:41 | NP |
| Surr: Dibromofluoromethane | 102 | 82.2-120 | | %REC | 220475 | 1 | 02/26/2016 20:41 | NP |
| Surr: Toluene-d8 | 96.8 | 81.8-120 | | %REC | 220475 | 1 | 02/26/2016 20:41 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16053-DUP |
| Project Name: Owens Corning Quarterly | Collection Date: 2/22/2016 12:00:00 PM |
| Lab ID: 1602M88-026 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220475 | 1 | 02/26/2016 21:08 | NP |
| 1,1-Dichloroethene | 170 | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:08 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:08 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:08 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:08 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:08 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:08 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:08 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:08 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:08 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:08 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:08 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:08 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:08 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:08 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:08 | NP |
| Surr: 4-Bromofluorobenzene | 91 | 70.7-125 | | %REC | 220475 | 1 | 02/26/2016 21:08 | NP |
| Surr: Dibromofluoromethane | 105 | 82.2-120 | | %REC | 220475 | 1 | 02/26/2016 21:08 | NP |
| Surr: Toluene-d8 | 101 | 81.8-120 | | %REC | 220475 | 1 | 02/26/2016 21:08 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|--------------------------------------|
| Client: BROWN AND CALDWELL | Client Sample ID: 16053-DUP-1 |
| Project Name: Owens Corning Quarterly | Collection Date: 2/22/2016 |
| Lab ID: 1602M88-027 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220475 | 1 | 02/26/2016 21:34 | NP |
| 1,1-Dichloroethene | 180 | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:34 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:34 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:34 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:34 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:34 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:34 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:34 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:34 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:34 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:34 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:34 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:34 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:34 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:34 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 21:34 | NP |
| Surr: 4-Bromofluorobenzene | 90.1 | 70.7-125 | | %REC | 220475 | 1 | 02/26/2016 21:34 | NP |
| Surr: Dibromofluoromethane | 106 | 82.2-120 | | %REC | 220475 | 1 | 02/26/2016 21:34 | NP |
| Surr: Toluene-d8 | 101 | 81.8-120 | | %REC | 220475 | 1 | 02/26/2016 21:34 | NP |

Qualifiers:

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- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16053-EB |
| Project Name: Owens Corning Quarterly | Collection Date: 2/22/2016 12:00:00 PM |
| Lab ID: 1602M88-028 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220475 | 1 | 02/26/2016 16:39 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 16:39 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 16:39 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 16:39 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 16:39 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 16:39 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 16:39 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 16:39 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 16:39 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 16:39 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 16:39 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 16:39 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 16:39 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 16:39 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 16:39 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 16:39 | NP |
| Surr: 4-Bromofluorobenzene | 87.8 | 70.7-125 | | %REC | 220475 | 1 | 02/26/2016 16:39 | NP |
| Surr: Dibromofluoromethane | 107 | 82.2-120 | | %REC | 220475 | 1 | 02/26/2016 16:39 | NP |
| Surr: Toluene-d8 | 101 | 81.8-120 | | %REC | 220475 | 1 | 02/26/2016 16:39 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16054-EB |
| Project Name: Owens Corning Quarterly | Collection Date: 2/23/2016 12:00:00 PM |
| Lab ID: 1602M88-029 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220475 | 1 | 02/26/2016 17:06 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:06 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:06 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:06 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:06 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:06 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:06 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:06 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:06 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:06 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:06 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:06 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:06 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:06 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:06 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:06 | NP |
| Surr: 4-Bromofluorobenzene | 89.3 | 70.7-125 | | %REC | 220475 | 1 | 02/26/2016 17:06 | NP |
| Surr: Dibromofluoromethane | 108 | 82.2-120 | | %REC | 220475 | 1 | 02/26/2016 17:06 | NP |
| Surr: Toluene-d8 | 101 | 81.8-120 | | %REC | 220475 | 1 | 02/26/2016 17:06 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16055-EB |
| Project Name: Owens Corning Quarterly | Collection Date: 2/24/2016 12:00:00 PM |
| Lab ID: 1602M88-030 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220475 | 1 | 02/26/2016 17:33 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:33 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:33 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:33 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:33 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:33 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:33 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:33 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:33 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:33 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:33 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:33 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:33 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:33 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:33 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 17:33 | NP |
| Surr: 4-Bromofluorobenzene | 92 | 70.7-125 | | %REC | 220475 | 1 | 02/26/2016 17:33 | NP |
| Surr: Dibromofluoromethane | 103 | 82.2-120 | | %REC | 220475 | 1 | 02/26/2016 17:33 | NP |
| Surr: Toluene-d8 | 97.7 | 81.8-120 | | %REC | 220475 | 1 | 02/26/2016 17:33 | NP |

Qualifiers:

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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|-------------------------------------|
| Client: BROWN AND CALDWELL | Client Sample ID: TRIP BLANK |
| Project Name: Owens Corning Quarterly | Collection Date: 2/25/2016 |
| Lab ID: 1602M88-031 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220475 | 1 | 02/26/2016 18:00 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:00 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:00 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:00 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:00 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:00 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:00 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:00 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:00 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:00 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:00 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:00 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:00 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:00 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:00 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:00 | NP |
| Surr: 4-Bromofluorobenzene | 92.4 | 70.7-125 | | %REC | 220475 | 1 | 02/26/2016 18:00 | NP |
| Surr: Dibromofluoromethane | 107 | 82.2-120 | | %REC | 220475 | 1 | 02/26/2016 18:00 | NP |
| Surr: Toluene-d8 | 102 | 81.8-120 | | %REC | 220475 | 1 | 02/26/2016 18:00 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|--|-------------------------------------|
| Client: BROWN AND CALDWELL | Client Sample ID: TRIP BLANK |
| Project Name: Owens Corning Quarterly | Collection Date: 2/25/2016 |
| Lab ID: 1602M88-032 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 220475 | 1 | 02/26/2016 18:27 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:27 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:27 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:27 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:27 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:27 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:27 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:27 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:27 | NP |
| Benzene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:27 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:27 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:27 | NP |
| Toluene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:27 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:27 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:27 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 220475 | 1 | 02/26/2016 18:27 | NP |
| Surr: 4-Bromofluorobenzene | 88.9 | 70.7-125 | | %REC | 220475 | 1 | 02/26/2016 18:27 | NP |
| Surr: Dibromofluoromethane | 105 | 82.2-120 | | %REC | 220475 | 1 | 02/26/2016 18:27 | NP |
| Surr: Toluene-d8 | 101 | 81.8-120 | | %REC | 220475 | 1 | 02/26/2016 18:27 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

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- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Braun Caldwell

Work Order Number 1002788

Checklist completed by Pam Masadi 2/25/10
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? (0°≤6°C)* Yes No

Cooler #1 3.1 Cooler #2 2.9 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.

Client: BROWN AND CALDWELL
Project Name: Owens Corning Quarterly
Workorder: 1602M88

ANALYTICAL QC SUMMARY REPORT

BatchID: 220475

| Sample ID: MB-220475 | Client ID: | Units: ug/L | Prep Date: 02/26/2016 | Run No: 311302 | | | | | | | |
|-----------------------------|--|------------------------|----------------------------------|------------------------|------|-----------|------------|-------------|------|-----------|------|
| SampleType: MBLK | TestCode: Volatile Organic Compounds by GC/MS SW8260B | BatchID: 220475 | Analysis Date: 02/26/2016 | Seq No: 6691036 | | | | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | 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 | 44.66 | 0 | 50.00 | | 89.3 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 52.83 | 0 | 50.00 | | 106 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 50.19 | 0 | 50.00 | | 100 | 81.8 | 120 | | | | |

| Sample ID: LCS-220475 | Client ID: | Units: ug/L | Prep Date: 02/26/2016 | Run No: 311302 | | | | | | | |
|------------------------------|--|------------------------|----------------------------------|------------------------|------|-----------|------------|-------------|------|-----------|------|
| SampleType: LCS | TestCode: Volatile Organic Compounds by GC/MS SW8260B | BatchID: 220475 | Analysis Date: 02/26/2016 | Seq No: 6691035 | | | | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|--------------------|-------|-----|-------|--|------|------|-----|--|--|--|--|
| 1,1-Dichloroethene | 50.76 | 5.0 | 50.00 | | 102 | 65.3 | 137 | | | | |
| Benzene | 45.22 | 5.0 | 50.00 | | 90.4 | 74.9 | 123 | | | | |
| Toluene | 49.10 | 5.0 | 50.00 | | 98.2 | 75 | 124 | | | | |

Qualifiers: > Greater than Result value < Less 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 R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: BROWN AND CALDWELL
Project Name: Owens Corning Quarterly
Workorder: 1602M88

ANALYTICAL QC SUMMARY REPORT

BatchID: 220475

| Sample ID: LCS-220475 | Client ID: | Units: ug/L | Prep Date: 02/26/2016 | Run No: 311302 | | | | | | | |
|------------------------------|--|------------------------|----------------------------------|------------------------|------|-----------|------------|-------------|------|-----------|------|
| SampleType: LCS | TestCode: Volatile Organic Compounds by GC/MS SW8260B | BatchID: 220475 | Analysis Date: 02/26/2016 | Seq No: 6691035 | | | | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|----------------------------|-------|-----|-------|--|------|------|-----|--|--|--|--|
| Trichloroethene | 54.96 | 5.0 | 50.00 | | 110 | 73.1 | 128 | | | | |
| Surr: 4-Bromofluorobenzene | 43.80 | 0 | 50.00 | | 87.6 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 52.04 | 0 | 50.00 | | 104 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 49.82 | 0 | 50.00 | | 99.6 | 81.8 | 120 | | | | |

| Sample ID: 1602M88-021AMS | Client ID: 16055-MW-42-Z3 | Units: ug/L | Prep Date: 02/26/2016 | Run No: 311302 | | | | | | | |
|----------------------------------|--|------------------------|----------------------------------|------------------------|------|-----------|------------|-------------|------|-----------|------|
| SampleType: MS | TestCode: Volatile Organic Compounds by GC/MS SW8260B | BatchID: 220475 | Analysis Date: 02/26/2016 | Seq No: 6691069 | | | | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|----------------------------|-------|-----|-------|--|------|------|-----|--|--|--|--|
| 1,1-Dichloroethene | 56.07 | 5.0 | 50.00 | | 112 | 60 | 150 | | | | |
| Benzene | 50.29 | 5.0 | 50.00 | | 101 | 70.1 | 132 | | | | |
| Toluene | 52.14 | 5.0 | 50.00 | | 104 | 70.1 | 133 | | | | |
| Trichloroethene | 57.48 | 5.0 | 50.00 | | 115 | 70 | 136 | | | | |
| Surr: 4-Bromofluorobenzene | 43.14 | 0 | 50.00 | | 86.3 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 51.42 | 0 | 50.00 | | 103 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 49.51 | 0 | 50.00 | | 99.0 | 81.8 | 120 | | | | |

| Sample ID: 1602M88-021AMSD | Client ID: 16055-MW-42-Z3 | Units: ug/L | Prep Date: 02/26/2016 | Run No: 311302 | | | | | | | |
|-----------------------------------|--|------------------------|----------------------------------|------------------------|------|-----------|------------|-------------|------|-----------|------|
| SampleType: MSD | TestCode: Volatile Organic Compounds by GC/MS SW8260B | BatchID: 220475 | Analysis Date: 02/26/2016 | Seq No: 6691070 | | | | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|----------------------------|-------|-----|-------|--|-------|------|-----|-------|-------|------|--|
| 1,1-Dichloroethene | 58.92 | 5.0 | 50.00 | | 118 | 60 | 150 | 56.07 | 4.96 | 17.7 | |
| Benzene | 49.99 | 5.0 | 50.00 | | 100.0 | 70.1 | 132 | 50.29 | 0.598 | 20 | |
| Toluene | 53.09 | 5.0 | 50.00 | | 106 | 70.1 | 133 | 52.14 | 1.81 | 20 | |
| Trichloroethene | 58.23 | 5.0 | 50.00 | | 116 | 70 | 136 | 57.48 | 1.30 | 20 | |
| Surr: 4-Bromofluorobenzene | 43.86 | 0 | 50.00 | | 87.7 | 70.7 | 125 | 43.14 | 0 | 0 | |
| Surr: Dibromofluoromethane | 51.80 | 0 | 50.00 | | 104 | 82.2 | 120 | 51.42 | 0 | 0 | |
| Surr: Toluene-d8 | 49.19 | 0 | 50.00 | | 98.4 | 81.8 | 120 | 49.51 | 0 | 0 | |

Qualifiers: > Greater than Result value < Less 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 R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: BROWN AND CALDWELL
Project Name: Owens Corning Quarterly
Workorder: 1602M88

ANALYTICAL QC SUMMARY REPORT

BatchID: 220607

| Sample ID: MB-220607 | Client ID: | Units: ug/L | Prep Date: 03/01/2016 | Run No: 311588 | | | | | | | |
|-----------------------------|--|------------------------|----------------------------------|------------------------|------|-----------|------------|-------------|------|-----------|------|
| SampleType: MBLK | TestCode: Volatile Organic Compounds by GC/MS SW8260B | BatchID: 220607 | Analysis Date: 03/01/2016 | Seq No: 6695994 | | | | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | 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 | 48.44 | 0 | 50.00 | | 96.9 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 49.86 | 0 | 50.00 | | 99.7 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 51.42 | 0 | 50.00 | | 103 | 81.8 | 120 | | | | |

| Sample ID: LCS-220607 | Client ID: | Units: ug/L | Prep Date: 03/01/2016 | Run No: 311588 | | | | | | | |
|------------------------------|--|------------------------|----------------------------------|------------------------|------|-----------|------------|-------------|------|-----------|------|
| SampleType: LCS | TestCode: Volatile Organic Compounds by GC/MS SW8260B | BatchID: 220607 | Analysis Date: 03/01/2016 | Seq No: 6695993 | | | | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|--------------------|-------|-----|-------|--|------|------|-----|--|--|--|--|
| 1,1-Dichloroethene | 56.01 | 5.0 | 50.00 | | 112 | 65.3 | 137 | | | | |
| Benzene | 47.46 | 5.0 | 50.00 | | 94.9 | 74.9 | 123 | | | | |
| Toluene | 47.22 | 5.0 | 50.00 | | 94.4 | 75 | 124 | | | | |
| Trichloroethene | 44.37 | 5.0 | 50.00 | | 88.7 | 73.1 | 128 | | | | |

Qualifiers: > Greater than Result value < Less 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 R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: BROWN AND CALDWELL
Project Name: Owens Corning Quarterly
Workorder: 1602M88

ANALYTICAL QC SUMMARY REPORT

BatchID: 220607

| Sample ID: LCS-220607 | Client ID: | Units: ug/L | Prep Date: 03/01/2016 | Run No: 311588 | | | | | | | |
|------------------------------|--|------------------------|----------------------------------|------------------------|------|-----------|------------|-------------|------|-----------|------|
| SampleType: LCS | TestCode: Volatile Organic Compounds by GC/MS SW8260B | BatchID: 220607 | Analysis Date: 03/01/2016 | Seq No: 6695993 | | | | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|----------------------------|-------|---|-------|--|------|------|-----|--|--|--|--|
| Surr: 4-Bromofluorobenzene | 51.36 | 0 | 50.00 | | 103 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 47.89 | 0 | 50.00 | | 95.8 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 51.73 | 0 | 50.00 | | 103 | 81.8 | 120 | | | | |

| Sample ID: 1602M88-012AMS | Client ID: 16054-MW-38-Z2 | Units: ug/L | Prep Date: 03/01/2016 | Run No: 311694 | | | | | | | |
|----------------------------------|--|------------------------|----------------------------------|------------------------|------|-----------|------------|-------------|------|-----------|------|
| SampleType: MS | TestCode: Volatile Organic Compounds by GC/MS SW8260B | BatchID: 220607 | Analysis Date: 03/03/2016 | Seq No: 6700326 | | | | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|----------------------------|-------|----|-------|--|------|------|-----|--|--|--|--|
| 1,1-Dichloroethene | 557.1 | 50 | 500.0 | | 111 | 60 | 150 | | | | |
| Benzene | 538.5 | 50 | 500.0 | | 108 | 70.1 | 132 | | | | |
| Toluene | 531.2 | 50 | 500.0 | | 106 | 70.1 | 133 | | | | |
| Trichloroethene | 527.4 | 50 | 500.0 | | 105 | 70 | 136 | | | | |
| Surr: 4-Bromofluorobenzene | 445.4 | 0 | 500.0 | | 89.1 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 509.3 | 0 | 500.0 | | 102 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 481.9 | 0 | 500.0 | | 96.4 | 81.8 | 120 | | | | |

| Sample ID: 1602M88-012AMSD | Client ID: 16054-MW-38-Z2 | Units: ug/L | Prep Date: 03/01/2016 | Run No: 311694 | | | | | | | |
|-----------------------------------|--|------------------------|----------------------------------|------------------------|------|-----------|------------|-------------|------|-----------|------|
| SampleType: MSD | TestCode: Volatile Organic Compounds by GC/MS SW8260B | BatchID: 220607 | Analysis Date: 03/03/2016 | Seq No: 6700327 | | | | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|----------------------------|-------|----|-------|--|------|------|-----|-------|-------|------|--|
| 1,1-Dichloroethene | 559.5 | 50 | 500.0 | | 112 | 60 | 150 | 557.1 | 0.430 | 17.7 | |
| Benzene | 533.9 | 50 | 500.0 | | 107 | 70.1 | 132 | 538.5 | 0.858 | 20 | |
| Toluene | 523.6 | 50 | 500.0 | | 105 | 70.1 | 133 | 531.2 | 1.44 | 20 | |
| Trichloroethene | 503.8 | 50 | 500.0 | | 101 | 70 | 136 | 527.4 | 4.58 | 20 | |
| Surr: 4-Bromofluorobenzene | 453.3 | 0 | 500.0 | | 90.7 | 70.7 | 125 | 445.4 | 0 | 0 | |
| Surr: Dibromofluoromethane | 503.4 | 0 | 500.0 | | 101 | 82.2 | 120 | 509.3 | 0 | 0 | |
| Surr: Toluene-d8 | 478.6 | 0 | 500.0 | | 95.7 | 81.8 | 120 | 481.9 | 0 | 0 | |

Qualifiers: > Greater than Result value < Less 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 R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 20, 2016

Tamara Berryman
BROWN AND CALDWELL
990 Hammond Drive
Atlanta GA 30328

TEL: (770) 673-3678
FAX: (770) 396-9495

RE: Owens Corning

Dear Tamara Berryman:

Order No: 1605A95

Analytical Environmental Services, Inc. received 39 samples on 5/13/2016 9:35:00 AM for the analyses presented in 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:

-South Carolina Certification number 98016003 for Clean Water Act and for Solid and Hazardous Waste, effective until 6/30/16.

These results relate only to the items tested. This report may only be reproduced in full.

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

Sincerely,

Ioana Pacurar
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC
 3080 Presidential Drive, Atlanta GA 30340-3704
 TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1605A95

Date: 5-12-16 Page 1 of 3

| COMPANY: BROWN + CALDWELL | | ADDRESS: 990 HAMMOND DRIVE ATLANTA, GA 30328 | | | | ANALYSIS REQUESTED | | | | | | | Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc. | | No. of Containers |
|---|---------------------|--|-----------------|------|-----------------|---|-----|--|--|--|--|--|--|--|-------------------|
| PHONE: | | FAX: | | | | VOCs | | | | | | | | | |
| SAMPLED BY: CAROL CRACAT & CHAD NOVAK | | SIGNATURE: | | | | PRESERVATION (See codes) | | | | | | | REMARKS | | |
| # | SAMPLE ID | DATE | TIME | Grab | Composite | Matrix (See codes) | H+I | | | | | | | | |
| 1 | 16130-MW-43-ZONE 3 | 5.9.16 | 1515 | X | | GW | X | | | | | | | | 2 |
| 2 | 16130-MW-43-ZONE 2 | 5.9.16 | 1615 | X | | GW | X | | | | | | | | 2 |
| 3 | 16130-MW-43-ZONE 1 | 5.9.16 | 1715 | X | | GW | X | | | | | | | | 2 |
| 4 | 16131-MW-41-ZONE 3 | 5.10.16 | 1020 | X | | GW | X | | | | | | | | 2 |
| 5 | 16131-MW-41-ZONE 2 | 5.10.16 | 1115 | X | | GW | X | | | | | | | | 2 |
| 6 | 16131-MW-41-ZONE 1 | 5.10.16 | 1200 | X | | GW | X | | | | | | | | 2 |
| 7 | 16131-MW-29R-ZONE 3 | 5.10.16 | 1420 | X | | GW | X | | | | | | | | 2 |
| 8 | 16131-MW-29R-ZONE 4 | 5.10.16 | 1500 | X | | GW | X | | | | | | | | 2 |
| 9 | 16131-MW-36-ZONE 1 | 5.10.16 | 1600 | X | | GW | X | | | | | | | | 2 |
| 10 | 16131-MW-36-ZONE 3 | 5.10.16 | 1630 | X | | GW | X | | | | | | | | 2 |
| 11 | 16132-MW-37-ZONE 3 | 5.11.16 | 0930 | X | | GW | X | | | | | | | | 2 |
| 12 | 16132-MW-37-ZONE 2 | 5.11.16 | 1050 | X | | GW | X | | | | | | | | 2 |
| 13 | 16132-MW-37-ZONE 1 | 5.11.16 | 1200 | X | | GW | X | | | | | | | | 2 |
| 14 | 16131-DUP-1 | 5.10.16 | 0800 | X | | GW | X | | | | | | | | 2 |
| RELINQUISHED BY | | DATE/TIME | RECEIVED BY | | DATE/TIME | PROJECT INFORMATION | | | | | | RECEIPT | | | |
| | | 5.13.16/0935 | Jessica Ahlberg | | 5/13/16 9:35 AM | PROJECT NAME: OWENS CORNING | | | | | | Total # of Containers | 78 | | |
| SPECIAL INSTRUCTIONS/COMMENTS: | | SHIPMENT METHOD | | | | SITE ADDRESS: | | | | | | Turnaround Time Request | | | |
| SITE SPECIFIC VOCs | | OUT / / VIA: IN / / VIA: <input checked="" type="radio"/> CLIENT FedEx UPS MAIL COURIER <input type="radio"/> GREYHOUND OTHER | | | | ANDERSON, SC | | | | | | <input checked="" type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other | | | |
| | | | | | | SEND REPORT TO: TBERHMAN@BROWNCALD.COM | | | | | | STATE PROGRAM (if any): | | | |
| | | | | | | INVOICE TO: (IF DIFFERENT FROM ABOVE) | | | | | | E-mail? <input checked="" type="checkbox"/> / N; Fax? <input checked="" type="checkbox"/> / Y | | | |
| | | | | | | QUOTE #: | | | | | | DATA PACKAGE: <input checked="" type="checkbox"/> I <input type="checkbox"/> III <input type="checkbox"/> IV | | | |

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

Focused List of VOCs to be Analyzed

tetrachloroethene
trichloroethene
1,1,1-trichloroethane
1,1-dichloroethane(DCA)
1,2-DCA
1,1-dichloroethene(DCE)
cis-1,2-DCE
trans-1,2-DCE
vinyl chloride
carbon tetrachloride
chloroform
methylene chloride
benzene
ethylbenzene
toluene
xylene

| | |
|------------------------------------|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16130-MW-43-ZONE 3 |
| Project Name: Owens Corning | Collection Date: 5/9/2016 3:15:00 PM |
| Lab ID: 1605A95-001 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224104 | 1 | 05/16/2016 19:25 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 19:25 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 19:25 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 19:25 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 19:25 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 19:25 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 19:25 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 19:25 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 19:25 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 19:25 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 19:25 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 19:25 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 19:25 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 19:25 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 19:25 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 19:25 | NP |
| Surr: 4-Bromofluorobenzene | 90.9 | 70.7-125 | | %REC | 224104 | 1 | 05/16/2016 19:25 | NP |
| Surr: Dibromofluoromethane | 99.8 | 82.2-120 | | %REC | 224104 | 1 | 05/16/2016 19:25 | NP |
| Surr: Toluene-d8 | 97.1 | 81.8-120 | | %REC | 224104 | 1 | 05/16/2016 19:25 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16130-MW-43-ZONE 2 |
| Project Name: Owens Corning | Collection Date: 5/9/2016 4:15:00 PM |
| Lab ID: 1605A95-002 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224104 | 1 | 05/16/2016 20:36 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 20:36 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 20:36 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 20:36 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 20:36 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 20:36 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 20:36 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 20:36 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 20:36 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 20:36 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 20:36 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 20:36 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 20:36 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 20:36 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 20:36 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 20:36 | NP |
| Surr: 4-Bromofluorobenzene | 89.3 | 70.7-125 | | %REC | 224104 | 1 | 05/16/2016 20:36 | NP |
| Surr: Dibromofluoromethane | 97.9 | 82.2-120 | | %REC | 224104 | 1 | 05/16/2016 20:36 | NP |
| Surr: Toluene-d8 | 97.2 | 81.8-120 | | %REC | 224104 | 1 | 05/16/2016 20:36 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16130-MW-43-ZONE 1 |
| Project Name: Owens Corning | Collection Date: 5/9/2016 5:15:00 PM |
| Lab ID: 1605A95-003 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224104 | 1 | 05/16/2016 21:00 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:00 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:00 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:00 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:00 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:00 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:00 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:00 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:00 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:00 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:00 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:00 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:00 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:00 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:00 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:00 | NP |
| Surr: 4-Bromofluorobenzene | 89.5 | 70.7-125 | | %REC | 224104 | 1 | 05/16/2016 21:00 | NP |
| Surr: Dibromofluoromethane | 101 | 82.2-120 | | %REC | 224104 | 1 | 05/16/2016 21:00 | NP |
| Surr: Toluene-d8 | 98.7 | 81.8-120 | | %REC | 224104 | 1 | 05/16/2016 21:00 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16131-MW-41-ZONE 3 |
| Project Name: Owens Corning | Collection Date: 5/10/2016 10:20:00 AM |
| Lab ID: 1605A95-004 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224104 | 1 | 05/16/2016 21:23 | NP |
| 1,1-Dichloroethene | 17 | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:23 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:23 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:23 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:23 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:23 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:23 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:23 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:23 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:23 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:23 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:23 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:23 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:23 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:23 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:23 | NP |
| Surr: 4-Bromofluorobenzene | 90.6 | 70.7-125 | | %REC | 224104 | 1 | 05/16/2016 21:23 | NP |
| Surr: Dibromofluoromethane | 103 | 82.2-120 | | %REC | 224104 | 1 | 05/16/2016 21:23 | NP |
| Surr: Toluene-d8 | 100 | 81.8-120 | | %REC | 224104 | 1 | 05/16/2016 21:23 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16131-MW-41-ZONE 2 |
| Project Name: Owens Corning | Collection Date: 5/10/2016 11:15:00 AM |
| Lab ID: 1605A95-005 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224104 | 1 | 05/16/2016 21:46 | NP |
| 1,1-Dichloroethene | 190 | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:46 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:46 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:46 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:46 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:46 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:46 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:46 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:46 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:46 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:46 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:46 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:46 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:46 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:46 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 21:46 | NP |
| Surr: 4-Bromofluorobenzene | 91.6 | 70.7-125 | | %REC | 224104 | 1 | 05/16/2016 21:46 | NP |
| Surr: Dibromofluoromethane | 100 | 82.2-120 | | %REC | 224104 | 1 | 05/16/2016 21:46 | NP |
| Surr: Toluene-d8 | 98.3 | 81.8-120 | | %REC | 224104 | 1 | 05/16/2016 21:46 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16131-MW-41-ZONE 1 |
| Project Name: Owens Corning | Collection Date: 5/10/2016 12:00:00 PM |
| Lab ID: 1605A95-006 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224104 | 1 | 05/16/2016 22:09 | NP |
| 1,1-Dichloroethene | 130 | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:09 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:09 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:09 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:09 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:09 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:09 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:09 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:09 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:09 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:09 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:09 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:09 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:09 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:09 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:09 | NP |
| Surr: 4-Bromofluorobenzene | 88.9 | 70.7-125 | | %REC | 224104 | 1 | 05/16/2016 22:09 | NP |
| Surr: Dibromofluoromethane | 105 | 82.2-120 | | %REC | 224104 | 1 | 05/16/2016 22:09 | NP |
| Surr: Toluene-d8 | 102 | 81.8-120 | | %REC | 224104 | 1 | 05/16/2016 22:09 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16131-MW-29R-ZONE 3 |
| Project Name: Owens Corning | Collection Date: 5/10/2016 2:20:00 PM |
| Lab ID: 1605A95-007 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224104 | 1 | 05/16/2016 22:33 | NP |
| 1,1-Dichloroethene | 240 | 50 | | ug/L | 224104 | 10 | 05/17/2016 12:53 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:33 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:33 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:33 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:33 | NP |
| Chloroform | 8.1 | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:33 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:33 | NP |
| Carbon tetrachloride | 13 | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:33 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:33 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:33 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:33 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:33 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:33 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:33 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:33 | NP |
| Surr: 4-Bromofluorobenzene | 88.7 | 70.7-125 | | %REC | 224104 | 1 | 05/16/2016 22:33 | NP |
| Surr: 4-Bromofluorobenzene | 103 | 70.7-125 | | %REC | 224104 | 10 | 05/17/2016 12:53 | NP |
| Surr: Dibromofluoromethane | 93.2 | 82.2-120 | | %REC | 224104 | 10 | 05/17/2016 12:53 | NP |
| Surr: Dibromofluoromethane | 100 | 82.2-120 | | %REC | 224104 | 1 | 05/16/2016 22:33 | NP |
| Surr: Toluene-d8 | 95.4 | 81.8-120 | | %REC | 224104 | 10 | 05/17/2016 12:53 | NP |
| Surr: Toluene-d8 | 98.5 | 81.8-120 | | %REC | 224104 | 1 | 05/16/2016 22:33 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16131-MW-29R-ZONE 4 |
| Project Name: Owens Corning | Collection Date: 5/10/2016 3:00:00 PM |
| Lab ID: 1605A95-008 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224104 | 1 | 05/16/2016 22:56 | NP |
| 1,1-Dichloroethene | 220 | 50 | | ug/L | 224104 | 10 | 05/17/2016 13:17 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:56 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:56 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:56 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:56 | NP |
| Chloroform | 7.9 | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:56 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:56 | NP |
| Carbon tetrachloride | 10 | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:56 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:56 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:56 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:56 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:56 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:56 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:56 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 22:56 | NP |
| Surr: 4-Bromofluorobenzene | 90.3 | 70.7-125 | | %REC | 224104 | 1 | 05/16/2016 22:56 | NP |
| Surr: 4-Bromofluorobenzene | 101 | 70.7-125 | | %REC | 224104 | 10 | 05/17/2016 13:17 | NP |
| Surr: Dibromofluoromethane | 94.1 | 82.2-120 | | %REC | 224104 | 10 | 05/17/2016 13:17 | NP |
| Surr: Dibromofluoromethane | 101 | 82.2-120 | | %REC | 224104 | 1 | 05/16/2016 22:56 | NP |
| Surr: Toluene-d8 | 96 | 81.8-120 | | %REC | 224104 | 10 | 05/17/2016 13:17 | NP |
| Surr: Toluene-d8 | 99.2 | 81.8-120 | | %REC | 224104 | 1 | 05/16/2016 22:56 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16131-MW-36-ZONE 1 |
| Project Name: Owens Corning | Collection Date: 5/10/2016 4:00:00 PM |
| Lab ID: 1605A95-009 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224104 | 1 | 05/16/2016 23:20 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:20 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:20 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:20 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:20 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:20 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:20 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:20 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:20 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:20 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:20 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:20 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:20 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:20 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:20 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:20 | NP |
| Surr: 4-Bromofluorobenzene | 87.7 | 70.7-125 | | %REC | 224104 | 1 | 05/16/2016 23:20 | NP |
| Surr: Dibromofluoromethane | 101 | 82.2-120 | | %REC | 224104 | 1 | 05/16/2016 23:20 | NP |
| Surr: Toluene-d8 | 98.2 | 81.8-120 | | %REC | 224104 | 1 | 05/16/2016 23:20 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16131-MW-36-ZONE 3 |
| Project Name: Owens Corning | Collection Date: 5/10/2016 4:30:00 PM |
| Lab ID: 1605A95-010 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224104 | 1 | 05/16/2016 23:43 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:43 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:43 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:43 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:43 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:43 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:43 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:43 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:43 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:43 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:43 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:43 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:43 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:43 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:43 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224104 | 1 | 05/16/2016 23:43 | NP |
| Surr: 4-Bromofluorobenzene | 89.8 | 70.7-125 | | %REC | 224104 | 1 | 05/16/2016 23:43 | NP |
| Surr: Dibromofluoromethane | 104 | 82.2-120 | | %REC | 224104 | 1 | 05/16/2016 23:43 | NP |
| Surr: Toluene-d8 | 99.5 | 81.8-120 | | %REC | 224104 | 1 | 05/16/2016 23:43 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16132-MW-37-ZONE 3 |
| Project Name: Owens Corning | Collection Date: 5/11/2016 9:30:00 AM |
| Lab ID: 1605A95-011 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224104 | 1 | 05/17/2016 00:06 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:06 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:06 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:06 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:06 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:06 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:06 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:06 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:06 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:06 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:06 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:06 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:06 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:06 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:06 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:06 | NP |
| Surr: 4-Bromofluorobenzene | 87.1 | 70.7-125 | | %REC | 224104 | 1 | 05/17/2016 00:06 | NP |
| Surr: Dibromofluoromethane | 99.2 | 82.2-120 | | %REC | 224104 | 1 | 05/17/2016 00:06 | NP |
| Surr: Toluene-d8 | 98.6 | 81.8-120 | | %REC | 224104 | 1 | 05/17/2016 00:06 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16132-MW-37-ZONE 2 |
| Project Name: Owens Corning | Collection Date: 5/11/2016 10:50:00 AM |
| Lab ID: 1605A95-012 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224104 | 1 | 05/17/2016 00:30 | NP |
| 1,1-Dichloroethene | 290 | 50 | | ug/L | 224104 | 10 | 05/17/2016 13:40 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:30 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:30 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:30 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:30 | NP |
| Chloroform | 7.9 | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:30 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:30 | NP |
| Carbon tetrachloride | 12 | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:30 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:30 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:30 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:30 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:30 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:30 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:30 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:30 | NP |
| Surr: 4-Bromofluorobenzene | 98.5 | 70.7-125 | | %REC | 224104 | 10 | 05/17/2016 13:40 | NP |
| Surr: 4-Bromofluorobenzene | 89.8 | 70.7-125 | | %REC | 224104 | 1 | 05/17/2016 00:30 | NP |
| Surr: Dibromofluoromethane | 96.5 | 82.2-120 | | %REC | 224104 | 10 | 05/17/2016 13:40 | NP |
| Surr: Dibromofluoromethane | 101 | 82.2-120 | | %REC | 224104 | 1 | 05/17/2016 00:30 | NP |
| Surr: Toluene-d8 | 96.5 | 81.8-120 | | %REC | 224104 | 10 | 05/17/2016 13:40 | NP |
| Surr: Toluene-d8 | 98.4 | 81.8-120 | | %REC | 224104 | 1 | 05/17/2016 00:30 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16132-MW-37-ZONE 1 |
| Project Name: Owens Corning | Collection Date: 5/11/2016 12:00:00 PM |
| Lab ID: 1605A95-013 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224104 | 1 | 05/17/2016 00:53 | NP |
| 1,1-Dichloroethene | 73 | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:53 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:53 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:53 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:53 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:53 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:53 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:53 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:53 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:53 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:53 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:53 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:53 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:53 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:53 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 00:53 | NP |
| Surr: 4-Bromofluorobenzene | 87.1 | 70.7-125 | | %REC | 224104 | 1 | 05/17/2016 00:53 | NP |
| Surr: Dibromofluoromethane | 103 | 82.2-120 | | %REC | 224104 | 1 | 05/17/2016 00:53 | NP |
| Surr: Toluene-d8 | 99 | 81.8-120 | | %REC | 224104 | 1 | 05/17/2016 00:53 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16131-DUP-1 |
| Project Name: Owens Corning | Collection Date: 5/10/2016 8:00:00 AM |
| Lab ID: 1605A95-014 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224104 | 1 | 05/17/2016 01:17 | NP |
| 1,1-Dichloroethene | 200 | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:17 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:17 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:17 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:17 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:17 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:17 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:17 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:17 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:17 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:17 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:17 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:17 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:17 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:17 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:17 | NP |
| Surr: 4-Bromofluorobenzene | 86.7 | 70.7-125 | | %REC | 224104 | 1 | 05/17/2016 01:17 | NP |
| Surr: Dibromofluoromethane | 97.9 | 82.2-120 | | %REC | 224104 | 1 | 05/17/2016 01:17 | NP |
| Surr: Toluene-d8 | 99.1 | 81.8-120 | | %REC | 224104 | 1 | 05/17/2016 01:17 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16130-MW-35 |
| Project Name: Owens Corning | Collection Date: 5/9/2016 6:15:00 PM |
| Lab ID: 1605A95-015 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224104 | 1 | 05/17/2016 01:41 | NP |
| 1,1-Dichloroethene | 50 | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:41 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:41 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:41 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:41 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:41 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:41 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:41 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:41 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:41 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:41 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:41 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:41 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:41 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:41 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 01:41 | NP |
| Surr: 4-Bromofluorobenzene | 87.9 | 70.7-125 | | %REC | 224104 | 1 | 05/17/2016 01:41 | NP |
| Surr: Dibromofluoromethane | 101 | 82.2-120 | | %REC | 224104 | 1 | 05/17/2016 01:41 | NP |
| Surr: Toluene-d8 | 99.5 | 81.8-120 | | %REC | 224104 | 1 | 05/17/2016 01:41 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16131-MW-44 |
| Project Name: Owens Corning | Collection Date: 5/10/2016 8:55:00 AM |
| Lab ID: 1605A95-016 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224104 | 1 | 05/17/2016 02:04 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:04 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:04 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:04 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:04 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:04 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:04 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:04 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:04 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:04 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:04 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:04 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:04 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:04 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:04 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:04 | NP |
| Surr: 4-Bromofluorobenzene | 91 | 70.7-125 | | %REC | 224104 | 1 | 05/17/2016 02:04 | NP |
| Surr: Dibromofluoromethane | 103 | 82.2-120 | | %REC | 224104 | 1 | 05/17/2016 02:04 | NP |
| Surr: Toluene-d8 | 99 | 81.8-120 | | %REC | 224104 | 1 | 05/17/2016 02:04 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16131-MW-22 |
| Project Name: Owens Corning | Collection Date: 5/10/2016 10:30:00 AM |
| Lab ID: 1605A95-017 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224104 | 1 | 05/17/2016 02:27 | NP |
| 1,1-Dichloroethene | 300 | 50 | | ug/L | 224104 | 10 | 05/17/2016 14:03 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:27 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:27 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:27 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:27 | NP |
| Chloroform | 8.2 | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:27 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:27 | NP |
| Carbon tetrachloride | 22 | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:27 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:27 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:27 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:27 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:27 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:27 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:27 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:27 | NP |
| Surr: 4-Bromofluorobenzene | 87.8 | 70.7-125 | | %REC | 224104 | 1 | 05/17/2016 02:27 | NP |
| Surr: 4-Bromofluorobenzene | 96.5 | 70.7-125 | | %REC | 224104 | 10 | 05/17/2016 14:03 | NP |
| Surr: Dibromofluoromethane | 95.6 | 82.2-120 | | %REC | 224104 | 10 | 05/17/2016 14:03 | NP |
| Surr: Dibromofluoromethane | 102 | 82.2-120 | | %REC | 224104 | 1 | 05/17/2016 02:27 | NP |
| Surr: Toluene-d8 | 97.1 | 81.8-120 | | %REC | 224104 | 10 | 05/17/2016 14:03 | NP |
| Surr: Toluene-d8 | 100 | 81.8-120 | | %REC | 224104 | 1 | 05/17/2016 02:27 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16131-MW-15 |
| Project Name: Owens Corning | Collection Date: 5/10/2016 12:05:00 PM |
| Lab ID: 1605A95-018 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224104 | 1 | 05/17/2016 02:51 | NP |
| 1,1-Dichloroethene | 180 | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:51 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:51 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:51 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:51 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:51 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:51 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:51 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:51 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:51 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:51 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:51 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:51 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:51 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:51 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 02:51 | NP |
| Surr: 4-Bromofluorobenzene | 88 | 70.7-125 | | %REC | 224104 | 1 | 05/17/2016 02:51 | NP |
| Surr: Dibromofluoromethane | 99.4 | 82.2-120 | | %REC | 224104 | 1 | 05/17/2016 02:51 | NP |
| Surr: Toluene-d8 | 97.8 | 81.8-120 | | %REC | 224104 | 1 | 05/17/2016 02:51 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16131-MW-38-Z1 |
| Project Name: Owens Corning | Collection Date: 5/10/2016 5:30:00 PM |
| Lab ID: 1605A95-019 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224104 | 1 | 05/17/2016 03:15 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:15 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:15 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:15 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:15 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:15 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:15 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:15 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:15 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:15 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:15 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:15 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:15 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:15 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:15 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:15 | NP |
| Surr: 4-Bromofluorobenzene | 88.9 | 70.7-125 | | %REC | 224104 | 1 | 05/17/2016 03:15 | NP |
| Surr: Dibromofluoromethane | 104 | 82.2-120 | | %REC | 224104 | 1 | 05/17/2016 03:15 | NP |
| Surr: Toluene-d8 | 99.8 | 81.8-120 | | %REC | 224104 | 1 | 05/17/2016 03:15 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16132-MW-38-Z2 |
| Project Name: Owens Corning | Collection Date: 5/11/2016 12:15:00 PM |
| Lab ID: 1605A95-020 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224104 | 1 | 05/17/2016 03:38 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:38 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:38 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:38 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:38 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:38 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:38 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:38 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:38 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:38 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:38 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:38 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:38 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:38 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:38 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224104 | 1 | 05/17/2016 03:38 | NP |
| Surr: 4-Bromofluorobenzene | 89.4 | 70.7-125 | | %REC | 224104 | 1 | 05/17/2016 03:38 | NP |
| Surr: Dibromofluoromethane | 103 | 82.2-120 | | %REC | 224104 | 1 | 05/17/2016 03:38 | NP |
| Surr: Toluene-d8 | 101 | 81.8-120 | | %REC | 224104 | 1 | 05/17/2016 03:38 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16132-MW-42-Z1 |
| Project Name: Owens Corning | Collection Date: 5/11/2016 9:05:00 AM |
| Lab ID: 1605A95-021 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224160 | 1 | 05/17/2016 23:24 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 23:24 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 23:24 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 23:24 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 23:24 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 23:24 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 23:24 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 23:24 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 23:24 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 23:24 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 23:24 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 23:24 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 23:24 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 23:24 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 23:24 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 23:24 | NP |
| Surr: 4-Bromofluorobenzene | 80.9 | 70.7-125 | | %REC | 224160 | 1 | 05/17/2016 23:24 | NP |
| Surr: Dibromofluoromethane | 112 | 82.2-120 | | %REC | 224160 | 1 | 05/17/2016 23:24 | NP |
| Surr: Toluene-d8 | 102 | 81.8-120 | | %REC | 224160 | 1 | 05/17/2016 23:24 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16132-MW-42-Z2 |
| Project Name: Owens Corning | Collection Date: 5/11/2016 9:50:00 AM |
| Lab ID: 1605A95-022 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224160 | 1 | 05/18/2016 00:45 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 00:45 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 00:45 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 00:45 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 00:45 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 00:45 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 00:45 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 00:45 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 00:45 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 00:45 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 00:45 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 00:45 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 00:45 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 00:45 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 00:45 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 00:45 | NP |
| Surr: 4-Bromofluorobenzene | 85.2 | 70.7-125 | | %REC | 224160 | 1 | 05/18/2016 00:45 | NP |
| Surr: Dibromofluoromethane | 112 | 82.2-120 | | %REC | 224160 | 1 | 05/18/2016 00:45 | NP |
| Surr: Toluene-d8 | 104 | 81.8-120 | | %REC | 224160 | 1 | 05/18/2016 00:45 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16132-MW-42-Z3 |
| Project Name: Owens Corning | Collection Date: 5/11/2016 10:55:00 AM |
| Lab ID: 1605A95-023 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224160 | 1 | 05/18/2016 01:12 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:12 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:12 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:12 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:12 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:12 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:12 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:12 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:12 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:12 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:12 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:12 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:12 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:12 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:12 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:12 | NP |
| Surr: 4-Bromofluorobenzene | 85 | 70.7-125 | | %REC | 224160 | 1 | 05/18/2016 01:12 | NP |
| Surr: Dibromofluoromethane | 109 | 82.2-120 | | %REC | 224160 | 1 | 05/18/2016 01:12 | NP |
| Surr: Toluene-d8 | 103 | 81.8-120 | | %REC | 224160 | 1 | 05/18/2016 01:12 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16132-MW-39-Z2 |
| Project Name: Owens Corning | Collection Date: 5/11/2016 3:50:00 PM |
| Lab ID: 1605A95-024 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224160 | 1 | 05/18/2016 01:39 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:39 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:39 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:39 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:39 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:39 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:39 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:39 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:39 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:39 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:39 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:39 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:39 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:39 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:39 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 01:39 | NP |
| Surr: 4-Bromofluorobenzene | 83.8 | 70.7-125 | | %REC | 224160 | 1 | 05/18/2016 01:39 | NP |
| Surr: Dibromofluoromethane | 114 | 82.2-120 | | %REC | 224160 | 1 | 05/18/2016 01:39 | NP |
| Surr: Toluene-d8 | 106 | 81.8-120 | | %REC | 224160 | 1 | 05/18/2016 01:39 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16132-MW-39-ZONE 1 |
| Project Name: Owens Corning | Collection Date: 5/11/2016 4:25:00 PM |
| Lab ID: 1605A95-025 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224160 | 1 | 05/18/2016 02:06 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:06 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:06 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:06 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:06 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:06 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:06 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:06 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:06 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:06 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:06 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:06 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:06 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:06 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:06 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:06 | NP |
| Surr: 4-Bromofluorobenzene | 86 | 70.7-125 | | %REC | 224160 | 1 | 05/18/2016 02:06 | NP |
| Surr: Dibromofluoromethane | 113 | 82.2-120 | | %REC | 224160 | 1 | 05/18/2016 02:06 | NP |
| Surr: Toluene-d8 | 102 | 81.8-120 | | %REC | 224160 | 1 | 05/18/2016 02:06 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16132-MW-39-ZONE 3 |
| Project Name: Owens Corning | Collection Date: 5/11/2016 3:40:00 PM |
| Lab ID: 1605A95-026 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224160 | 1 | 05/18/2016 02:32 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:32 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:32 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:32 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:32 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:32 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:32 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:32 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:32 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:32 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:32 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:32 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:32 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:32 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:32 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:32 | NP |
| Surr: 4-Bromofluorobenzene | 83.6 | 70.7-125 | | %REC | 224160 | 1 | 05/18/2016 02:32 | NP |
| Surr: Dibromofluoromethane | 110 | 82.2-120 | | %REC | 224160 | 1 | 05/18/2016 02:32 | NP |
| Surr: Toluene-d8 | 101 | 81.8-120 | | %REC | 224160 | 1 | 05/18/2016 02:32 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16131-DUP-2 |
| Project Name: Owens Corning | Collection Date: 5/10/2016 12:00:00 PM |
| Lab ID: 1605A95-027 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224160 | 1 | 05/18/2016 02:59 | NP |
| 1,1-Dichloroethene | 300 | 50 | | ug/L | 224160 | 10 | 05/18/2016 16:16 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:59 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:59 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:59 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:59 | NP |
| Chloroform | 7.9 | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:59 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:59 | NP |
| Carbon tetrachloride | 9.3 | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:59 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:59 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:59 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:59 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:59 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:59 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:59 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 02:59 | NP |
| Surr: 4-Bromofluorobenzene | 81.1 | 70.7-125 | | %REC | 224160 | 1 | 05/18/2016 02:59 | NP |
| Surr: 4-Bromofluorobenzene | 88 | 70.7-125 | | %REC | 224160 | 10 | 05/18/2016 16:16 | NP |
| Surr: Dibromofluoromethane | 115 | 82.2-120 | | %REC | 224160 | 1 | 05/18/2016 02:59 | NP |
| Surr: Dibromofluoromethane | 117 | 82.2-120 | | %REC | 224160 | 10 | 05/18/2016 16:16 | NP |
| Surr: Toluene-d8 | 104 | 81.8-120 | | %REC | 224160 | 1 | 05/18/2016 02:59 | NP |
| Surr: Toluene-d8 | 106 | 81.8-120 | | %REC | 224160 | 10 | 05/18/2016 16:16 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16130-EB |
| Project Name: Owens Corning | Collection Date: 5/9/2016 5:45:00 PM |
| Lab ID: 1605A95-028 | Matrix: Aqueous |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224160 | 1 | 05/17/2016 22:04 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:04 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:04 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:04 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:04 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:04 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:04 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:04 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:04 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:04 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:04 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:04 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:04 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:04 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:04 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:04 | NP |
| Surr: 4-Bromofluorobenzene | 82.2 | 70.7-125 | | %REC | 224160 | 1 | 05/17/2016 22:04 | NP |
| Surr: Dibromofluoromethane | 109 | 82.2-120 | | %REC | 224160 | 1 | 05/17/2016 22:04 | NP |
| Surr: Toluene-d8 | 103 | 81.8-120 | | %REC | 224160 | 1 | 05/17/2016 22:04 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16131-EB |
| Project Name: Owens Corning | Collection Date: 5/10/2016 5:45:00 PM |
| Lab ID: 1605A95-029 | Matrix: Aqueous |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224160 | 1 | 05/17/2016 22:31 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:31 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:31 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:31 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:31 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:31 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:31 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:31 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:31 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:31 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:31 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:31 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:31 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:31 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:31 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:31 | NP |
| Surr: 4-Bromofluorobenzene | 88.3 | 70.7-125 | | %REC | 224160 | 1 | 05/17/2016 22:31 | NP |
| Surr: Dibromofluoromethane | 112 | 82.2-120 | | %REC | 224160 | 1 | 05/17/2016 22:31 | NP |
| Surr: Toluene-d8 | 102 | 81.8-120 | | %REC | 224160 | 1 | 05/17/2016 22:31 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16132-EB |
| Project Name: Owens Corning | Collection Date: 5/11/2016 4:40:00 PM |
| Lab ID: 1605A95-030 | Matrix: Aqueous |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224160 | 1 | 05/17/2016 22:58 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:58 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:58 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:58 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:58 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:58 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:58 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:58 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:58 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:58 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:58 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:58 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:58 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:58 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:58 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 22:58 | NP |
| Surr: 4-Bromofluorobenzene | 86.2 | 70.7-125 | | %REC | 224160 | 1 | 05/17/2016 22:58 | NP |
| Surr: Dibromofluoromethane | 114 | 82.2-120 | | %REC | 224160 | 1 | 05/17/2016 22:58 | NP |
| Surr: Toluene-d8 | 102 | 81.8-120 | | %REC | 224160 | 1 | 05/17/2016 22:58 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|-------------------------------------|
| Client: BROWN AND CALDWELL | Client Sample ID: TRIP BLANK |
| Project Name: Owens Corning | Collection Date: 5/13/2016 |
| Lab ID: 1605A95-031 | Matrix: Aqueous |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224160 | 1 | 05/17/2016 21:37 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 21:37 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 21:37 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 21:37 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 21:37 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 21:37 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 21:37 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 21:37 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 21:37 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 21:37 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 21:37 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 21:37 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 21:37 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 21:37 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 21:37 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224160 | 1 | 05/17/2016 21:37 | NP |
| Surr: 4-Bromofluorobenzene | 89 | 70.7-125 | | %REC | 224160 | 1 | 05/17/2016 21:37 | NP |
| Surr: Dibromofluoromethane | 112 | 82.2-120 | | %REC | 224160 | 1 | 05/17/2016 21:37 | NP |
| Surr: Toluene-d8 | 105 | 81.8-120 | | %REC | 224160 | 1 | 05/17/2016 21:37 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16133-200 FRIENDSHIP LANE |
| Project Name: Owens Corning | Collection Date: 5/12/2016 1:00:00 PM |
| Lab ID: 1605A95-032 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224160 | 1 | 05/18/2016 03:25 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:25 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:25 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:25 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:25 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:25 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:25 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:25 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:25 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:25 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:25 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:25 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:25 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:25 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:25 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:25 | NP |
| Surr: 4-Bromofluorobenzene | 83 | 70.7-125 | | %REC | 224160 | 1 | 05/18/2016 03:25 | NP |
| Surr: Dibromofluoromethane | 119 | 82.2-120 | | %REC | 224160 | 1 | 05/18/2016 03:25 | NP |
| Surr: Toluene-d8 | 108 | 81.8-120 | | %REC | 224160 | 1 | 05/18/2016 03:25 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16133-721 CLINKSCALES ROA |
| Project Name: Owens Corning | Collection Date: 5/12/2016 1:10:00 PM |
| Lab ID: 1605A95-033 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224160 | 1 | 05/18/2016 03:52 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:52 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:52 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:52 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:52 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:52 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:52 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:52 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:52 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:52 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:52 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:52 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:52 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:52 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:52 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 03:52 | NP |
| Surr: 4-Bromofluorobenzene | 85 | 70.7-125 | | %REC | 224160 | 1 | 05/18/2016 03:52 | NP |
| Surr: Dibromofluoromethane | 116 | 82.2-120 | | %REC | 224160 | 1 | 05/18/2016 03:52 | NP |
| Surr: Toluene-d8 | 103 | 81.8-120 | | %REC | 224160 | 1 | 05/18/2016 03:52 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16133-628 AIRLINE ROAD |
| Project Name: Owens Corning | Collection Date: 5/12/2016 12:03:00 PM |
| Lab ID: 1605A95-034 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224160 | 1 | 05/18/2016 04:19 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:19 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:19 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:19 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:19 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:19 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:19 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:19 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:19 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:19 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:19 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:19 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:19 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:19 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:19 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:19 | NP |
| Surr: 4-Bromofluorobenzene | 85.4 | 70.7-125 | | %REC | 224160 | 1 | 05/18/2016 04:19 | NP |
| Surr: Dibromofluoromethane | 114 | 82.2-120 | | %REC | 224160 | 1 | 05/18/2016 04:19 | NP |
| Surr: Toluene-d8 | 104 | 81.8-120 | | %REC | 224160 | 1 | 05/18/2016 04:19 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16133-412 KAYE DRIVE |
| Project Name: Owens Corning | Collection Date: 5/12/2016 2:08:00 PM |
| Lab ID: 1605A95-035 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224160 | 1 | 05/18/2016 04:46 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:46 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:46 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:46 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:46 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:46 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:46 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:46 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:46 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:46 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:46 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:46 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:46 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:46 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:46 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 04:46 | NP |
| Surr: 4-Bromofluorobenzene | 84.6 | 70.7-125 | | %REC | 224160 | 1 | 05/18/2016 04:46 | NP |
| Surr: Dibromofluoromethane | 117 | 82.2-120 | | %REC | 224160 | 1 | 05/18/2016 04:46 | NP |
| Surr: Toluene-d8 | 104 | 81.8-120 | | %REC | 224160 | 1 | 05/18/2016 04:46 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16133-117 FAYE DRIVE |
| Project Name: Owens Corning | Collection Date: 5/12/2016 2:25:00 PM |
| Lab ID: 1605A95-036 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224160 | 1 | 05/18/2016 05:12 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:12 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:12 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:12 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:12 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:12 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:12 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:12 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:12 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:12 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:12 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:12 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:12 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:12 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:12 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:12 | NP |
| Surr: 4-Bromofluorobenzene | 84.1 | 70.7-125 | | %REC | 224160 | 1 | 05/18/2016 05:12 | NP |
| Surr: Dibromofluoromethane | 118 | 82.2-120 | | %REC | 224160 | 1 | 05/18/2016 05:12 | NP |
| Surr: Toluene-d8 | 107 | 81.8-120 | | %REC | 224160 | 1 | 05/18/2016 05:12 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16133-303 KAYE DRIVE |
| Project Name: Owens Corning | Collection Date: 5/12/2016 1:58:00 PM |
| Lab ID: 1605A95-037 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224160 | 1 | 05/18/2016 05:39 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:39 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:39 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:39 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:39 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:39 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:39 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:39 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:39 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:39 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:39 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:39 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:39 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:39 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:39 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 05:39 | NP |
| Surr: 4-Bromofluorobenzene | 85.8 | 70.7-125 | | %REC | 224160 | 1 | 05/18/2016 05:39 | NP |
| Surr: Dibromofluoromethane | 114 | 82.2-120 | | %REC | 224160 | 1 | 05/18/2016 05:39 | NP |
| Surr: Toluene-d8 | 102 | 81.8-120 | | %REC | 224160 | 1 | 05/18/2016 05:39 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|---|
| Client: BROWN AND CALDWELL | Client Sample ID: 16133-200 KAYE DRIVE |
| Project Name: Owens Corning | Collection Date: 5/12/2016 1:47:00 PM |
| Lab ID: 1605A95-038 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224160 | 1 | 05/18/2016 06:05 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:05 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:05 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:05 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:05 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:05 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:05 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:05 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:05 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:05 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:05 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:05 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:05 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:05 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:05 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:05 | NP |
| Surr: 4-Bromofluorobenzene | 84.5 | 70.7-125 | | %REC | 224160 | 1 | 05/18/2016 06:05 | NP |
| Surr: Dibromofluoromethane | 118 | 82.2-120 | | %REC | 224160 | 1 | 05/18/2016 06:05 | NP |
| Surr: Toluene-d8 | 104 | 81.8-120 | | %REC | 224160 | 1 | 05/18/2016 06:05 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

| | |
|------------------------------------|--|
| Client: BROWN AND CALDWELL | Client Sample ID: 16133-119 CLOVERHILL DRIV |
| Project Name: Owens Corning | Collection Date: 5/12/2016 1:35:00 PM |
| Lab ID: 1605A95-039 | Matrix: Groundwater |

| Analyses | Result | Reporting Limit | Qual | Units | BatchID | Dilution Factor | Date Analyzed | Analyst |
|--|--------|-----------------|------|-------|---------|-----------------|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260B (SW5030B) | | | | | | | | |
| Vinyl chloride | BRL | 2.0 | | ug/L | 224160 | 1 | 05/18/2016 06:32 | NP |
| 1,1-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:32 | NP |
| Methylene chloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:32 | NP |
| trans-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:32 | NP |
| 1,1-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:32 | NP |
| cis-1,2-Dichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:32 | NP |
| Chloroform | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:32 | NP |
| 1,1,1-Trichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:32 | NP |
| Carbon tetrachloride | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:32 | NP |
| Benzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:32 | NP |
| 1,2-Dichloroethane | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:32 | NP |
| Trichloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:32 | NP |
| Toluene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:32 | NP |
| Tetrachloroethene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:32 | NP |
| Ethylbenzene | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:32 | NP |
| Xylenes, Total | BRL | 5.0 | | ug/L | 224160 | 1 | 05/18/2016 06:32 | NP |
| Surr: 4-Bromofluorobenzene | 84.1 | 70.7-125 | | %REC | 224160 | 1 | 05/18/2016 06:32 | NP |
| Surr: Dibromofluoromethane | 118 | 82.2-120 | | %REC | 224160 | 1 | 05/18/2016 06:32 | NP |
| Surr: Toluene-d8 | 106 | 81.8-120 | | %REC | 224160 | 1 | 05/18/2016 06:32 | NP |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Brown Caldwell

Work Order Number 1005A95

Checklist completed by Pero Masoudi 5/13/16
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? (0°≤6°C)* Yes No

Cooler #1 4.9 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.

Client: BROWN AND CALDWELL
Project Name: Owens Corning
Workorder: 1605A95

ANALYTICAL QC SUMMARY REPORT

BatchID: 224104

| Sample ID: MB-224104 | Client ID: | Units: ug/L | Prep Date: 05/16/2016 | Run No: 316904 | | | | | | | |
|-----------------------------|--|------------------------|----------------------------------|------------------------|------|-----------|------------|-------------|------|-----------|------|
| Sample Type: MBLK | TestCode: Volatile Organic Compounds by GC/MS SW8260B | BatchID: 224104 | Analysis Date: 05/16/2016 | Seq No: 6825560 | | | | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | 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 | 44.42 | 0 | 50.00 | | 88.8 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 50.29 | 0 | 50.00 | | 101 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 49.13 | 0 | 50.00 | | 98.3 | 81.8 | 120 | | | | |

| Sample ID: LCS-224104 | Client ID: | Units: ug/L | Prep Date: 05/16/2016 | Run No: 316904 | | | | | | | |
|------------------------------|--|------------------------|----------------------------------|------------------------|------|-----------|------------|-------------|------|-----------|------|
| Sample Type: LCS | TestCode: Volatile Organic Compounds by GC/MS SW8260B | BatchID: 224104 | Analysis Date: 05/16/2016 | Seq No: 6825559 | | | | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|--------------------|-------|-----|-------|--|-----|------|-----|--|--|--|--|
| 1,1-Dichloroethene | 53.98 | 5.0 | 50.00 | | 108 | 65.3 | 137 | | | | |
| Benzene | 53.46 | 5.0 | 50.00 | | 107 | 74.9 | 123 | | | | |
| Toluene | 54.16 | 5.0 | 50.00 | | 108 | 75 | 124 | | | | |

Qualifiers: > Greater than Result value < Less 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 R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: BROWN AND CALDWELL
Project Name: Owens Corning
Workorder: 1605A95

ANALYTICAL QC SUMMARY REPORT

BatchID: 224104

| Sample ID: LCS-224104 | Client ID: | Units: ug/L | Prep Date: 05/16/2016 | Run No: 316904 | | | | | | | |
|------------------------------|--|------------------------|----------------------------------|------------------------|------|-----------|------------|-------------|------|-----------|------|
| SampleType: LCS | TestCode: Volatile Organic Compounds by GC/MS SW8260B | BatchID: 224104 | Analysis Date: 05/16/2016 | Seq No: 6825559 | | | | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|----------------------------|-------|-----|-------|--|------|------|-----|--|--|--|--|
| Trichloroethene | 51.51 | 5.0 | 50.00 | | 103 | 73.1 | 128 | | | | |
| Surr: 4-Bromofluorobenzene | 44.46 | 0 | 50.00 | | 88.9 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 48.77 | 0 | 50.00 | | 97.5 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 48.51 | 0 | 50.00 | | 97.0 | 81.8 | 120 | | | | |

| Sample ID: 1605A95-001AMS | Client ID: 16130-MW-43-ZONE 3 | Units: ug/L | Prep Date: 05/16/2016 | Run No: 316904 | | | | | | | |
|----------------------------------|--|------------------------|----------------------------------|------------------------|------|-----------|------------|-------------|------|-----------|------|
| SampleType: MS | TestCode: Volatile Organic Compounds by GC/MS SW8260B | BatchID: 224104 | Analysis Date: 05/16/2016 | Seq No: 6825566 | | | | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|----------------------------|-------|-----|-------|--|------|------|-----|--|--|--|--|
| 1,1-Dichloroethene | 54.06 | 5.0 | 50.00 | | 108 | 60 | 150 | | | | |
| Benzene | 53.99 | 5.0 | 50.00 | | 108 | 70.1 | 132 | | | | |
| Toluene | 55.21 | 5.0 | 50.00 | | 110 | 70.1 | 133 | | | | |
| Trichloroethene | 52.41 | 5.0 | 50.00 | | 105 | 70 | 136 | | | | |
| Surr: 4-Bromofluorobenzene | 45.54 | 0 | 50.00 | | 91.1 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 50.68 | 0 | 50.00 | | 101 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 49.67 | 0 | 50.00 | | 99.3 | 81.8 | 120 | | | | |

| Sample ID: 1605A95-001AMSD | Client ID: 16130-MW-43-ZONE 3 | Units: ug/L | Prep Date: 05/16/2016 | Run No: 316904 | | | | | | | |
|-----------------------------------|--|------------------------|----------------------------------|------------------------|------|-----------|------------|-------------|------|-----------|------|
| SampleType: MSD | TestCode: Volatile Organic Compounds by GC/MS SW8260B | BatchID: 224104 | Analysis Date: 05/16/2016 | Seq No: 6825567 | | | | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|----------------------------|-------|-----|-------|--|------|------|-----|-------|------|------|--|
| 1,1-Dichloroethene | 53.52 | 5.0 | 50.00 | | 107 | 60 | 150 | 54.06 | 1.00 | 17.7 | |
| Benzene | 50.63 | 5.0 | 50.00 | | 101 | 70.1 | 132 | 53.99 | 6.42 | 20 | |
| Toluene | 51.17 | 5.0 | 50.00 | | 102 | 70.1 | 133 | 55.21 | 7.60 | 20 | |
| Trichloroethene | 48.15 | 5.0 | 50.00 | | 96.3 | 70 | 136 | 52.41 | 8.47 | 20 | |
| Surr: 4-Bromofluorobenzene | 44.66 | 0 | 50.00 | | 89.3 | 70.7 | 125 | 45.54 | 0 | 0 | |
| Surr: Dibromofluoromethane | 48.55 | 0 | 50.00 | | 97.1 | 82.2 | 120 | 50.68 | 0 | 0 | |
| Surr: Toluene-d8 | 48.28 | 0 | 50.00 | | 96.6 | 81.8 | 120 | 49.67 | 0 | 0 | |

Qualifiers: > Greater than Result value < Less 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 R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: BROWN AND CALDWELL
Project Name: Owens Corning
Workorder: 1605A95

ANALYTICAL QC SUMMARY REPORT

BatchID: 224160

| Sample ID: MB-224160 | Client ID: | Units: ug/L | Prep Date: 05/17/2016 | Run No: 317016 | | | | | | | |
|-----------------------------|--|------------------------|----------------------------------|------------------------|------|-----------|------------|-------------|------|-----------|------|
| SampleType: MBLK | TestCode: Volatile Organic Compounds by GC/MS SW8260B | BatchID: 224160 | Analysis Date: 05/17/2016 | Seq No: 6828149 | | | | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | 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 | 42.93 | 0 | 50.00 | | 85.9 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 54.21 | 0 | 50.00 | | 108 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 52.92 | 0 | 50.00 | | 106 | 81.8 | 120 | | | | |

| Sample ID: LCS-224160 | Client ID: | Units: ug/L | Prep Date: 05/17/2016 | Run No: 317016 | | | | | | | |
|------------------------------|--|------------------------|----------------------------------|------------------------|------|-----------|------------|-------------|------|-----------|------|
| SampleType: LCS | TestCode: Volatile Organic Compounds by GC/MS SW8260B | BatchID: 224160 | Analysis Date: 05/17/2016 | Seq No: 6828148 | | | | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|--------------------|-------|-----|-------|--|------|------|-----|--|--|--|--|
| 1,1-Dichloroethene | 55.00 | 5.0 | 50.00 | | 110 | 65.3 | 137 | | | | |
| Benzene | 51.42 | 5.0 | 50.00 | | 103 | 74.9 | 123 | | | | |
| Toluene | 51.85 | 5.0 | 50.00 | | 104 | 75 | 124 | | | | |
| Trichloroethene | 49.91 | 5.0 | 50.00 | | 99.8 | 73.1 | 128 | | | | |

Qualifiers: > Greater than Result value < Less 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 R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: BROWN AND CALDWELL
 Project Name: Owens Corning
 Workorder: 1605A95

ANALYTICAL QC SUMMARY REPORT

BatchID: 224160

| Sample ID: LCS-224160 | Client ID: | Units: ug/L | Prep Date: 05/17/2016 | Run No: 317016 | | | | | | | |
|------------------------------|--|------------------------|----------------------------------|------------------------|------|-----------|------------|-------------|------|-----------|------|
| SampleType: LCS | TestCode: Volatile Organic Compounds by GC/MS SW8260B | BatchID: 224160 | Analysis Date: 05/17/2016 | Seq No: 6828148 | | | | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|----------------------------|-------|---|-------|--|------|------|-----|--|--|--|--|
| Surr: 4-Bromofluorobenzene | 41.85 | 0 | 50.00 | | 83.7 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 53.09 | 0 | 50.00 | | 106 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 51.69 | 0 | 50.00 | | 103 | 81.8 | 120 | | | | |

| Sample ID: 1605A95-021AMS | Client ID: 16132-MW-42-Z1 | Units: ug/L | Prep Date: 05/17/2016 | Run No: 317016 | | | | | | | |
|----------------------------------|--|------------------------|----------------------------------|------------------------|------|-----------|------------|-------------|------|-----------|------|
| SampleType: MS | TestCode: Volatile Organic Compounds by GC/MS SW8260B | BatchID: 224160 | Analysis Date: 05/17/2016 | Seq No: 6828155 | | | | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|----------------------------|-------|-----|-------|--|------|------|-----|--|--|--|--|
| 1,1-Dichloroethene | 59.74 | 5.0 | 50.00 | | 119 | 60 | 150 | | | | |
| Benzene | 54.70 | 5.0 | 50.00 | | 109 | 70.1 | 132 | | | | |
| Toluene | 54.40 | 5.0 | 50.00 | | 109 | 70.1 | 133 | | | | |
| Trichloroethene | 53.07 | 5.0 | 50.00 | | 106 | 70 | 136 | | | | |
| Surr: 4-Bromofluorobenzene | 41.47 | 0 | 50.00 | | 82.9 | 70.7 | 125 | | | | |
| Surr: Dibromofluoromethane | 54.35 | 0 | 50.00 | | 109 | 82.2 | 120 | | | | |
| Surr: Toluene-d8 | 51.00 | 0 | 50.00 | | 102 | 81.8 | 120 | | | | |

| Sample ID: 1605A95-021AMSD | Client ID: 16132-MW-42-Z1 | Units: ug/L | Prep Date: 05/17/2016 | Run No: 317016 | | | | | | | |
|-----------------------------------|--|------------------------|----------------------------------|------------------------|------|-----------|------------|-------------|------|-----------|------|
| SampleType: MSD | TestCode: Volatile Organic Compounds by GC/MS SW8260B | BatchID: 224160 | Analysis Date: 05/18/2016 | Seq No: 6828156 | | | | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|----------------------------|-------|-----|-------|--|------|------|-----|-------|------|------|--|
| 1,1-Dichloroethene | 62.07 | 5.0 | 50.00 | | 124 | 60 | 150 | 59.74 | 3.83 | 17.7 | |
| Benzene | 53.60 | 5.0 | 50.00 | | 107 | 70.1 | 132 | 54.70 | 2.03 | 20 | |
| Toluene | 52.74 | 5.0 | 50.00 | | 105 | 70.1 | 133 | 54.40 | 3.10 | 20 | |
| Trichloroethene | 52.38 | 5.0 | 50.00 | | 105 | 70 | 136 | 53.07 | 1.31 | 20 | |
| Surr: 4-Bromofluorobenzene | 42.31 | 0 | 50.00 | | 84.6 | 70.7 | 125 | 41.47 | 0 | 0 | |
| Surr: Dibromofluoromethane | 53.53 | 0 | 50.00 | | 107 | 82.2 | 120 | 54.35 | 0 | 0 | |
| Surr: Toluene-d8 | 50.77 | 0 | 50.00 | | 102 | 81.8 | 120 | 51.00 | 0 | 0 | |

Qualifiers: > Greater than Result value < Less 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 R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix