Annual Operations and Maintenance Report
for
Rockwool Industries, Inc.
Federal Superfund Site
1741 Taylors Valley Road
Belton, Bell County, Texas

Prepared for

Texas Commission on Environmental Quality

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Semi-Annual Operations & Maintenance Report

1. Executive Summary

Daniel B. Stephens and Associates, Inc. (DBS&A) has been contracted by the Texas Commission on Environmental Quality (TCEQ) to perform operations and maintenance (O&M) activities at the Rockwool Industries, Inc. (RWI) Federal Superfund Site located in Belton, Bell County, Texas. The overall objectives of the O&M phase of the project are to perform long-term monitoring and O&M activities in accordance with the Operations & Maintenance Plan and the Addendum No. 1 to the April 26, 2011 Field Sampling Plan (FSP1). Semi-annual groundwater monitoring and other inspection and maintenance tasks are to be performed as required in support of the Record of Decision (ROD) for the Rockwool Industries Inc. Federal Superfund Site (EPA, 2004) in order to ensure the continued protectiveness of the selected remedy.

In order to assess the continued protectiveness of the selected remedy at the RWI Site and as part of the long-term monitoring and O&M activities, groundwater samples were collected from the network of twenty-three (23) existing groundwater monitoring wells and submitted to the selected analytical laboratory for chemical analysis of the chemicals of concern (COCs), which consist of inorganic metals (antimony, arsenic and lead). In addition to the collection of groundwater samples, groundwater monitoring tasks included groundwater level measurement of all monitoring wells, evaluation of the condition and integrity of each monitoring well, and field measurement of groundwater in each monitoring well for pH, dissolved oxygen, conductivity, temperature, and oxidation-reduction potential.

While conducting groundwater monitoring activities in March 2013, a previously unknown monitor well, MW-18, was discovered on the Central Property. It is located in the northern portion of the central property, approximately 200 feet NNE of MW-16, and east of the warehouse building and Mulrex storage tank area (see Figure 2). A review of the previous consultant's files and maps revealed no information on this well. Per the TCEQ PM, it was gauged and sampled during the March 2013 and June 2013 groundwater monitoring events.

MW-36-90 was properly plugged and abandoned on May 31, 2013. The P&A information and photographs will be reported under separate cover.

The following Annual O&M report documents the aforementioned completed groundwater monitoring and presents the field data and photographic documentation as collected, the updated site map, isoconcentration maps, groundwater surface contour maps, the laboratory results of groundwater sample analysis and respective data tables, including data review and validation memoranda, a discussion of the findings and conclusions, and provides recommendations for future activities.

2. Introduction

2.1 Project Background

In 2010, the TCEQ contracted DBS&A to perform O&M activities in the form of semi-annual groundwater monitoring and other inspection and maintenance tasks outlined below to ensure the continued protectiveness of the selected remedy at the Rockwool Industries, Inc. Federal Superfund Site located at 1741 Taylors Valley Road, Belton, Bell County, Texas. Figure 1 (Site Location Map) of this report presents a map illustrating the location of the RWI facility and the surrounding area.

The RWI Site includes an approximately 100-acre tract of land in a primarily industrial area located one quarter mile east of Interstate 35 in Bell County. The RWI Site is bounded to the north by the Leon River and to the south and west by Nolan Creek. East Belton Cemetery and other commercial and undeveloped private properties lie to the west of the RWI Site and light industrial properties lie to the east.

The RWI Site is broadly divided into three main areas; the North Property, the Central Property, and the Non-Process area as shown in Figure 2 (Site Map). The North Property and adjoining Geer Property-Cemetery area constitute a 14-acre tract of land on the north side of Taylor's Valley Road. The Central Property includes Operable Unit 2 (OU2) and forms a 47-acre tract of land south of Taylor's Valley Road extending to FM-93. The Non-Process area is the 40-acre tract of land south of FM-93 extending southwest to Nolan Creek. During the remedial investigation, the Non-Process area was determined to be free of contaminant impacts.

Former consultants for the project executed the remedial action (RA) at the RWI Site as defined in the ROD and in accordance with the accepted remedial design (RD). The RA consisted of activities utilized to eliminate human and ecological exposure to contaminated waste emanating from the RWI Site. Such processes included drainage improvement activities, waste and soil excavation and removal and the placement of clay and topsoil caps over the contaminated areas. The clay/topsoil covered areas were marked and surveyed for institutional control and replanted with vegetative cover. The RA also consisted of the construction and capping of a containment cell designed to contain excavated waste from all areas of the RWI Site.

Additionally, stabilization and protection of the Leon River bank was accomplished utilizing ACBs and the evaporation lagoon infrastructure consisting primarily of PVC piping was demolished. In addition, several groundwater monitoring wells were plugged and abandoned during RA activities, including MW-1, MW-2, MW-3, MW-4A, MW-6, MW-8, MW-12, MW-23, MW-31-90, MW-32-90 and DW-1. Groundwater monitoring on the reduced number of wells commenced in mid-2006. While remediation of the shallow perched aquifer was not a part of the remedial design or action, it was previously determined that contaminated groundwater was seeping from this aquifer into the Leon River and Nolan Creek, thereby creating a human health and ecological exposure risk (EPA, 2004). Therefore, groundwater samples are being collected from the shallow aquifer for chemical analysis of the COCs as part of the long-term monitoring and O&M activities.

2.2 Project Objectives

The purpose of this report is to document groundwater monitoring activities approved in a TCEQ Remediation Division work order (No. 248-0071) for the RWI Site. The sampling activities were conducted by DBS&A as provided for and pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 42 United States Code (USC) §9601, et seq., and, to the extent practicable, the National Oil and Hazardous Substances Contingency Plan, 40 C.F.R. Part 300 (NCP).

All groundwater monitoring activities described in this report were performed by DBS&A under the TCEQ Assessment, Investigation and Remediation Services (AIRS) Contract (No. 582-10-91051) and in accordance with the February 11, 2011 Rockwool Industries, Inc. Superfund Site

Operations & Maintenance Plan (DBS&A, Feb 2011); the June 14, 2012 Addendum No. 1 to the April 26, 2011 Rockwool Industries, Inc. Federal Superfund Site Field Sampling Plan (FSP1) for Operations & Maintenance Activities (DBS&A, June 2012); the applicable TCEQ Superfund Program Standard Operating Procedures (SOPs); and the TCEQ Quality Assurance Project Plan for the Federal Superfund Program (Revision 9.0, Q-TRAK# 12-463) (TCEQ, 2012).

The primary objective of the groundwater monitoring program is to compare the analytical results from groundwater sample analysis to the human health Preliminary Remediation Goals (PRGs) established in the ROD (EPA, 2004) for the COCs in order to ensure the continued protectiveness of the selected remedy and to determine the level of contamination in groundwater. The concentrations of the PRGs for the COCs in groundwater, as defined in the RWI Site FSP1 are 6 µg/L for antimony, 10 µg/L for arsenic, and 5 µg/L for lead (DBS&A, 2012). The sample measurement performance criteria for analytical data generation and acquisition are specified in Group B of the TCEQ Federal Superfund Program QAPP (Revision 9.0, Q-TRAK# 12-463) (TCEQ, 2012).

Specific inspection and maintenance activities have been established in order to ensure that the selected remedy remains protective of human health and the environment. The site inspection and maintenance activities have been developed in accordance with Texas Administrative Code (TAC) requirements for closure and remediation of industrial solid waste and municipal hazardous waste landfill facilities per 30 TAC §335.8 and the Wilder Construction Company MatCon® Operation and Maintenance Plan for Rockwool Superfund Site (Wilder, 2006).

Periodic inspections will be performed at the RWI Site to ensure that the cover and drainage controls installed in the Geer Property-Cemetery Area, North Property, and Central Property areas are performing as designed, and to document that regular maintenance and repairs are performed as needed. Visual inspection of the soil covers will be performed to document any evidence of settlement, cracking, animal holes, pooled water, erosion, or deep-rooted vegetation, and indications of a dense grass mat. Inspection and maintenance of the MATCON Cover will be conducted by the governing regulatory agency.

Surface water drainage controls shall be kept clear of rocks and debris so that the full capacity of the drainage system is available during large storm events. The drainage system may require

periodic cleaning to remove sediment and debris accumulation. Small-scale efforts should be performed during each inspection, whereas larger scale efforts should be performed by a licensed subcontractor. Berms for the drainage ditches and storm water detention basin must be maintained to ensure stability and functionality of these features. The ACBs along the Leon River bank will be inspected to identify displacement or loss of the blocks, the loss of continuity of interlocking blocks, and any evidence of instability.

Results of site maintenance and inspection activities will be reported under separate cover.

Groundwater monitoring wells will be inspected for any evidence of damage and tampering, and to ensure that the protective covers are securely locked and that the well identification number is clearly visible. Exterior conditions of the monitoring wells to be verified include well visibility and accessibility, casing and cap condition, signs of unauthorized tampering, and proper operation of the security padlocks. Any evidence of vegetation overgrowth will also be noted.

Security and control devices at the site include fences, locked gates, and posted signs. Maintenance of these site control devices is necessary to prevent unauthorized access and vandalism. Fencing will be inspected for holes, damaged posts, and broken or missing wire. Warning signs along the Institutional Control Boundary will be clearly visible. The intended future use of the RWI Site and adjacent property is industrial or commercial; therefore, site inspections will also document changes in land use that might affect the protections afforded by the remedy.

3. Groundwater Monitoring

DBS&A performed three quarterly groundwater monitoring events in FY13: December 2012, March 2013, and June 2013.Tabular data, including groundwater level measurements and laboratory analytical results, collected during the groundwater monitoring events are located in Table 1 (Summary of Groundwater Analytical Results) and Table 2 (Water Level Measurements and Groundwater Elevation Data) of this report. Field Notes from the three events are provided in Appendix 1-A. Photographic documentation collected during the groundwater monitoring events is provided in Appendix 1-B of this report. Laboratory analytical data reports, including the data review and data validation memoranda, are located in Appendix 2 of this report.

3.1 December 2012

On December 26-28, 2012 DBS&A conducted quarterly groundwater monitoring activities at the RWI Site. Figure 3a of this report presents a site map depicting the groundwater surface gradient and flow direction at the site as interpreted from data collected during the December 2012 groundwater monitoring event. Figure 4a of this report presents contaminant concentrations found during the December 2012 event and isoconcentration contours, if applicable. However, due to the extreme variability in analytical results, often several orders of magnitude between adjacent wells, it was not possible to determine isoconcentration lines for the entire site or for all the analytes.

Groundwater sample collection, quality assurance procedures and laboratory analyses were completed pursuant to the Rockwool Industries, Inc. Superfund Site Operations & Maintenance Plan (DBS&A, 2011); the June 14, 2012 Addendum No. 1 to the April 26, 2011 Rockwool Industries, Inc. Federal Superfund Site Field Sampling Plan (FSP1) for Operations & Maintenance Activities (DBS&A, June 2012); the applicable TCEQ Superfund Program Standard Operating Procedures (SOPs); and the TCEQ Quality Assurance Project Plan for the Federal Superfund Program (Revision 9.0, Q-TRAK# 12-463) (TCEQ, 2012).

3.1.1 Groundwater Level Measurement

Prior to groundwater sample collection, each monitor well was visually inspected in order to verify the integrity of the protective casing and surface seal. In addition, the presence and condition of the security padlocks, hinged protective access covers, and monitor well plugs were verified. Depth-to-groundwater and total depth of all monitoring wells were measured and recorded preceding the sampling of each well using a water level meter in accordance with TCEQ Superfund Program SOP No. 7.1 (Water Level/Sediment Measurement). Water level measurement data collected during this semi-annual groundwater monitoring event is located in Table 2 (Water Level Measurements and Groundwater Elevation Data) of this report. Calculated groundwater surface elevations are also presented in Table 2 of this report.

3.1.2 Groundwater Sampling Methods

A Horiba model U-22XD Multi-Parameter Water Quality Meter was utilized for collecting groundwater quality measurements, including pH, dissolved oxygen (DO), conductivity, temperature, and oxidation-reduction potential (ORP) in the field. The water quality meter was calibrated each day according to the manufacturer specifications prior to the collection of groundwater quality measurements. Water quality measurements were collected prior to the collection of groundwater samples and in accordance with TCEQ Superfund Program SOP No. 7.5 (Measurement of Field Parameters).

In order to meet groundwater monitoring objectives, each monitor well was purged according to TCEQ Superfund Program SOP No. 7.4 (Micro Purging a Monitoring Well) prior to sampling and groundwater samples were collected from each monitor well in accordance with TCEQ Superfund Program SOP No. 7.8 (Groundwater Sampling Using a Low-flow Technique). Wells with insufficient water column for purging were sampled using factory-sealed bailers per instructions received from the TCEQ PM via a phone call on July 11, 2012 and in accordance with TCEQ SOP No. 7.2 (Purging a Monitoring Well with a Bailer) and TCEQ SOP No. 7.6 (Groundwater Sampling Using a Bailer).

Groundwater sample containers and chemical preservative (HNO_3) were provided by DHL Analytical. Unfiltered groundwater samples were collected from monitor wells containing sufficient water in accordance with the RWI Site FSP1 (DBS&A, June 2012) and the methodology described in the applicable TCEQ Superfund Program SOPs. All samples were submitted to DHL Analytical for inorganic metals (arsenic, antimony, and lead) analysis using EPA SW-846 Method 6020A.

3.1.3 Groundwater Sample Analysis

A completed chain-of-custody for twenty-four (24) groundwater samples collected from the RWI Site on December 26-28, 2012 was submitted to DHL Analytical on December 28, 2012 for inorganic metals analysis by EPA SW-846 Method 6020A. DHL Analytical laboratory is recognized by the National Environmental Laboratory Accreditation Program (NELAP) and certified by the Texas Commission on Environmental Quality (Certificate No. T104704211-12-9).

Laboratory preparation of the aqueous samples for inorganic metals analysis by EPA SW-846 Method 6020A was performed by DHL Analytical following EPA SW-846 Method 3005A as referenced in EPA publication *SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.* Sample preparation by SW-846 Method 3005A is a laboratory acid digestion procedure used to prepare water samples for analysis by inductively coupled plasma-mass spectrometry (ICP-MS). The groundwater samples were analyzed by DHL Analytical using SW-846 Method 6020A, which involves ICP-MS to determine the concentration of multiple chemical elements, including the subject COCs for this project, in aqueous samples.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are spiked with known concentrations of the chemicals of concern prior to sample preparation and analysis at the laboratory and are used to evaluate the bias of the sample matrix. The MS/MSD samples were collected at predetermined sample locations suspected to be contaminated with low to medium levels of COCs, as outlined in the FSP, and submitted to DHL Analytical for chemical analysis.

3.1.4 Quality Assurance/Quality Control Samples

Quality assurance and quality control (QA/QC) samples were collected in the field and analyzed by DHL Analytical in order to serve as a check on sampling and analytical precision, accuracy, and representativeness. QA/QC samples were collected in accordance with TCEQ Superfund Program SOP No. 6.5 (Collection of QA/QC Samples). Laboratory analytical results from the QA/QC samples collected during the December 2012 groundwater monitoring event are located in Table 1 (Summary of Groundwater Analytical Results) of this report. General descriptions of the QA/QC samples collected are presented in the sections below, while QA/QC analytical results are discussed in detail in Section 4 (Analytical Results) of this report.

3.1.4.1 Field Duplicate Samples

Field duplicate samples were collected at the same time and from the same source as the primary sample collection point and submitted as separate samples for confidentiality purposes to the laboratory for COC chemical analysis in order to evaluate sampling and analytical precision. The field duplicates were collected at a predetermined sample location known to be contaminated or suspected to be contaminated with COCs immediately after the primary

environmental sample was collected. During the December 2012 groundwater monitoring event, field duplicates were collected from monitoring wells MW-21 (DUP-1) and MW-34-90 (DUP-2), as per FSP1.

3.1.4.2 Equipment Rinsate Blank Samples

Equipment rinsate blank samples were collected during sampling activities in order to assess the effectiveness of equipment decontamination procedures. In accordance with FSP1, one equipment rinsate blank per equipment type per medium per day was collected when non-dedicated sampling equipment was used. Two equipment rinsate blanks were collected during the December 2012 sampling event. ER-1 was collected on December 26th and ER-2 was collected on December 27th.

3.1.4.3 Temperature Blank Samples

A temperature blank demonstrates that the environmental samples have been properly preserved at the required temperature (≤ 6°C) until receipt at the laboratory. A temperature blank for the December 2012 groundwater monitoring event was supplied by DHL Analytical as part of the sampling supply kit and was placed in the cooler with the samples prior to delivering the samples to the laboratory for analysis. Upon receipt at the laboratory, the DHL Analytical lab technician measured and recorded the temperature of the blank in order to verify proper sample preservation temperatures.

3.2 March 2013

On March 4-6, 2013 DBS&A conducted quarterly groundwater monitoring activities at the RWI Site. During this field event, DBS&A personnel discovered MW-18, a previously unknown monitor well on the Central Property. No information on this well is contained in the previous consultant's file or figures. This well was gauged and sampled per the TCEQ PM. Figure 3b of this report presents a site map depicting the groundwater surface gradient and flow direction at the site as interpreted from data collected during the March 2013 groundwater monitoring event. Figure 4b of this report presents contaminant concentrations found during the March 2013 event and isoconcentration contours, if applicable. However, due to the extreme variability in

analytical results, often several orders of magnitude between adjacent wells, it was not possible to determine isoconcentration lines for the entire site or for all the analytes.

Groundwater sample collection, quality assurance procedures and laboratory analyses were completed pursuant to the Rockwool Industries, Inc. Superfund Site Operations & Maintenance Plan (DBS&A, 2011); the June 14, 2012 Addendum No. 1 to the April 26, 2011 Rockwool Industries, Inc. Federal Superfund Site Field Sampling Plan (FSP1) for Operations & Maintenance Activities (DBS&A, June 2012); the applicable TCEQ Superfund Program Standard Operating Procedures (SOPs); and the TCEQ Quality Assurance Project Plan for the Federal Superfund Program (Revision 9.0, Q-TRAK# 12-463) (TCEQ, 2012).

3.2.1 Groundwater Level Measurement

Prior to groundwater sample collection, each monitor well was visually inspected in order to verify the integrity of the protective casing and surface seal. In addition, the presence and condition of the security padlocks, hinged protective access covers, and monitor well plugs were verified. Depth-to-groundwater and total depth of all monitoring wells were measured and recorded preceding the sampling of each well using a water level meter in accordance with TCEQ Superfund Program SOP No. 7.1 (Water Level/Sediment Measurement). Water level measurement data collected during this semi-annual groundwater monitoring event is located in Table 2 (Water Level Measurements and Groundwater Elevation Data) of this report. Calculated groundwater surface elevations are also presented in Table 2 of this report.

3.2.2 Groundwater Sampling Methods

A Horiba model U-52 Multi-Parameter Water Quality Meter was utilized for collecting groundwater quality measurements, including pH, dissolved oxygen (DO), conductivity, temperature, and oxidation-reduction potential (ORP) in the field. The water quality meter was calibrated each day according to the manufacturer specifications prior to the collection of groundwater quality measurements. Water quality measurements were collected prior to the collection of groundwater samples and in accordance with TCEQ Superfund Program SOP No. 7.5 (Measurement of Field Parameters).

In order to meet groundwater monitoring objectives, each monitor well was purged according to TCEQ Superfund Program SOP No. 7.4 (Micro Purging a Monitoring Well) prior to sampling and groundwater samples were collected from each monitor well in accordance with TCEQ Superfund Program SOP No. 7.8 (Groundwater Sampling Using a Low-flow Technique). Wells with insufficient water column for purging were sampled using factory-sealed bailers per instructions received from the TCEQ PM via a phone call on July 11, 2012 and in accordance with TCEQ SOP No. 7.2 (Purging a Monitoring Well with a Bailer) and TCEQ SOP No. 7.6 (Groundwater Sampling Using a Bailer).

Groundwater sample containers and chemical preservative (HNO_3) were provided by DHL Analytical. Unfiltered groundwater samples were collected from monitor wells containing sufficient water in accordance with the RWI Site FSP1 (DBS&A, June 2012) and the methodology described in the applicable TCEQ Superfund Program SOPs. All samples were submitted to DHL Analytical for inorganic metals (arsenic, antimony, and lead) analysis using EPA SW-846 Method 6020A.

3.2.3 Groundwater Sample Analysis

A completed chain-of-custody for twenty-five (25) groundwater samples collected from the RWI Site on March 4-6, 2013 was submitted to DHL Analytical on March 6, 2013 for inorganic metals analysis by EPA SW-846 Method 6020A. DHL Analytical laboratory is recognized by the National Environmental Laboratory Accreditation Program (NELAP) and certified by the Texas Commission on Environmental Quality (Certificate No. T104704211-12-9).

Laboratory preparation of the aqueous samples for inorganic metals analysis by EPA SW-846 Method 6020A was performed by DHL Analytical following EPA SW-846 Method 3005A as referenced in EPA publication *SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.* Sample preparation by SW-846 Method 3005A is a laboratory acid digestion procedure used to prepare water samples for analysis by inductively coupled plasma-mass spectrometry (ICP-MS). The groundwater samples were analyzed by DHL Analytical using SW-846 Method 6020A, which involves ICP-MS to determine the concentration of multiple chemical elements, including the subject COCs for this project, in aqueous samples.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are spiked with known concentrations of the chemicals of concern prior to sample preparation and analysis at the laboratory and are used to evaluate the bias of the sample matrix. The MS/MSD samples were collected at predetermined sample locations suspected to be contaminated with low to medium levels of COCs, as outlined in the FSP, and submitted to DHL Analytical for chemical analysis.

3.2.4 Quality Assurance/Quality Control Samples

Quality assurance and quality control (QA/QC) samples were collected in the field and analyzed by DHL Analytical in order to serve as a check on sampling and analytical precision, accuracy, and representativeness. QA/QC samples were collected in accordance with TCEQ Superfund Program SOP No. 6.5 (Collection of QA/QC Samples). Laboratory analytical results from the QA/QC samples collected during the March 2013 groundwater monitoring event are located in Table 1 (Summary of Groundwater Analytical Results) of this report. General descriptions of the QA/QC samples collected are presented in the sections below, while QA/QC analytical results are discussed in detail in Section 4 (Analytical Results) of this report.

3.2.4.1 Field Duplicate Samples

Field duplicate samples were collected at the same time and from the same source as the primary sample collection point and submitted as separate samples for confidentiality purposes to the laboratory for COC chemical analysis in order to evaluate sampling and analytical precision. The field duplicates were collected at a predetermined sample location known to be contaminated or suspected to be contaminated with COCs immediately after the primary environmental sample was collected. During the March 2013 groundwater monitoring event, field duplicates were collected from monitoring wells MW-21 (DUP-1) and MW-34-90 (DUP-2), as per FSP1.

3.2.4.2 Equipment Rinsate Blank Samples

Equipment rinsate blank samples were collected during sampling activities in order to assess the effectiveness of equipment decontamination procedures. In accordance with FSP1, one equipment rinsate blank per equipment type per medium per day was collected when non-

dedicated sampling equipment was used. Two equipment rinsate blanks were collected during the March 2013 sampling event. ER-1 was collected on March 5th and ER-2 was collected on March 6th.

3.2.4.3 Temperature Blank Samples

A temperature blank demonstrates that the environmental samples have been properly preserved at the required temperature (≤ 6°C) until receipt at the laboratory. A temperature blank for the March 2013 groundwater monitoring event was supplied by DHL Analytical as part of the sampling supply kit and was placed in the cooler with the samples prior to delivering the samples to the laboratory for analysis. Upon receipt at the laboratory, the DHL Analytical lab technician measured and recorded the temperature of the blank in order to verify proper sample preservation temperatures.

3.3 June 2013

On June 10-12, 2013 DBS&A conducted quarterly groundwater monitoring activities at the RWI Site. Figure 3c of this report presents a site map depicting the groundwater surface gradient and flow direction at the site as interpreted from data collected during the June 2013 groundwater monitoring event. Figure 4c of this report presents contaminant concentrations found during the June 2013 event and isoconcentration contours, if applicable. However, due to the extreme variability in analytical results, often several orders of magnitude between adjacent wells, it was not possible to determine isoconcentration lines for the entire site or for all the analytes.

Groundwater sample collection, quality assurance procedures and laboratory analyses were completed pursuant to the Rockwool Industries, Inc. Superfund Site Operations & Maintenance Plan (DBS&A, 2011); the June 14, 2012 Addendum No. 1 to the April 26, 2011 Rockwool Industries, Inc. Federal Superfund Site Field Sampling Plan (FSP1) for Operations & Maintenance Activities (DBS&A, June 2012); the applicable TCEQ Superfund Program Standard Operating Procedures (SOPs); and the TCEQ Quality Assurance Project Plan for the Federal Superfund Program (Revision 9.0, Q-TRAK# 12-463) (TCEQ, 2012).

3.3.1 Groundwater Level Measurement

Prior to groundwater sample collection, each monitor well was visually inspected in order to verify the integrity of the protective casing and surface seal. In addition, the presence and condition of the security padlocks, hinged protective access covers, and monitor well plugs were verified. Depth-to-groundwater and total depth of all monitoring wells were measured and recorded preceding the sampling of each well using a water level meter in accordance with TCEQ Superfund Program SOP No. 7.1 (Water Level/Sediment Measurement). Water level measurement data collected during this semi-annual groundwater monitoring event is located in Table 2 (Water Level Measurements and Groundwater Elevation Data) of this report. Calculated groundwater surface elevations are also presented in Table 2 of this report.

3.3.2 Groundwater Sampling Methods

A Horiba model U-52 Multi-Parameter Water Quality Meter was utilized for collecting groundwater quality measurements, including pH, dissolved oxygen (DO), conductivity, temperature, and oxidation-reduction potential (ORP) in the field. The water quality meter was calibrated each day according to the manufacturer specifications prior to the collection of groundwater quality measurements. Water quality measurements were collected prior to the collection of groundwater samples and in accordance with TCEQ Superfund Program SOP No. 7.5 (Measurement of Field Parameters).

In order to meet groundwater monitoring objectives, each monitor well was purged according to TCEQ Superfund Program SOP No. 7.4 (Micro Purging a Monitoring Well) prior to sampling and groundwater samples were collected from each monitor well in accordance with TCEQ Superfund Program SOP No. 7.8 (Groundwater Sampling Using a Low-flow Technique). Wells with insufficient water column for purging were sampled using factory-sealed bailers per instructions received from the TCEQ PM via a phone call on July 11, 2012.

Groundwater sample containers and chemical preservative (HNO_3) were provided by DHL Analytical. Unfiltered groundwater samples were collected from monitor wells containing sufficient water in accordance with the RWI Site FSP1 (DBS&A, June 2012) and the methodology described in the applicable TCEQ Superfund Program SOPs. All samples were

submitted to DHL Analytical for inorganic metals (arsenic, antimony, and lead) analysis using EPA SW-846 Method 6020A.

3.3.3 Groundwater Sample Analysis

A completed chain-of-custody for twenty-six (26) groundwater samples collected from the RWI Site on June 10-12, 2013 was submitted to DHL Analytical on June 12, 2013 for inorganic metals analysis by EPA SW-846 Method 6020A and EPA SW-846 Method 7470A. One sample, which included the 7470A analysis, was an investigation derived waste (IDW) sample and is not reviewed in this report. DHL Analytical laboratory is recognized by the National Environmental Laboratory Accreditation Program (NELAP) and certified by the Texas Commission on Environmental Quality (Certificate No. T104704211-13-11).

Laboratory preparation of the aqueous samples for inorganic metals analysis by EPA SW-846 Method 6020A was performed by DHL Analytical following EPA SW-846 Method 3005A as referenced in EPA publication *SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.* Sample preparation by SW-846 Method 3005A is a laboratory acid digestion procedure used to prepare water samples for analysis by inductively coupled plasma-mass spectrometry (ICP-MS). The groundwater samples were analyzed by DHL Analytical using SW-846 Method 6020A, which involves ICP-MS to determine the concentration of multiple chemical elements, including the subject COCs for this project, in aqueous samples.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are spiked with known concentrations of the chemicals of concern prior to sample preparation and analysis at the laboratory and are used to evaluate the bias of the sample matrix. The MS/MSD samples were collected at predetermined sample locations suspected to be contaminated with low to medium levels of COCs, as outlined in the FSP, and submitted to DHL Analytical for chemical analysis.

3.3.4 Quality Assurance/Quality Control Samples

Quality assurance and quality control (QA/QC) samples were collected in the field and analyzed by DHL Analytical in order to serve as a check on sampling and analytical precision, accuracy, and representativeness. QA/QC samples were collected in accordance with TCEQ Superfund

Program SOP No. 6.5 (Collection of QA/QC Samples). Laboratory analytical results from the QA/QC samples collected during the June 2013 groundwater monitoring event are located in Table 1 (Summary of Groundwater Analytical Results) of this report. General descriptions of the QA/QC samples collected are presented in the sections below, while QA/QC analytical results are discussed in detail in Section 4 (Analytical Results) of this report.

3.3.4.1 Field Duplicate Samples

Field duplicate samples were collected at the same time and from the same source as the primary sample collection point and submitted as separate samples for confidentiality purposes to the laboratory for COC chemical analysis in order to evaluate sampling and analytical precision. The field duplicates were collected at a predetermined sample location known to be contaminated or suspected to be contaminated with COCs immediately after the primary environmental sample was collected. During the June 2013 groundwater monitoring event, field duplicates were collected from monitoring wells MW-21 (DUP-1) and MW-34-90 (DUP-2), as per FSP1.

3.3.4.2 Equipment Rinsate Blank Samples

Equipment rinsate blank samples were collected during sampling activities in order to assess the effectiveness of equipment decontamination procedures. In accordance with FSP1, one equipment rinsate blank per equipment type per medium per day was collected when non-dedicated sampling equipment was used. Two equipment rinsate blanks were collected during the June 2013 sampling event. ER-1 was collected on June 10th and ER-2 was collected on June 11th.

3.3.4.3 Temperature Blank Samples

A temperature blank demonstrates that the environmental samples have been properly preserved at the required temperature (≤ 6°C) until receipt at the laboratory. A temperature blank for the June 2013 groundwater monitoring event was supplied by DHL Analytical as part of the sampling supply kit and was placed in the cooler with the samples prior to delivering the samples to the laboratory for analysis. Upon receipt at the laboratory, the DHL Analytical lab

technician measured and recorded the temperature of the blank in order to verify proper sample preservation temperatures.

3.4 Investigative Derived Waste

All investigative derived waste (IDW), including purged groundwater fluids and decontamination wastewater recovered during the three quarterly groundwater monitoring activities, was managed according to TCEQ Superfund Program SOP No. 1.4. Purged groundwater and decontamination wastewater is stored on-site in two (2) chemically compatible 55-gallon drums. Characterization and disposal of IDW purge water will be handled by a subcontractor. Other waste generated during the O&M activities, including contaminated personal protective equipment (PPE) and disposable sampling equipment, was placed in plastic bags after use and disposed of as non-hazardous solid waste.

4. Groundwater Analysis

Discussion of the laboratory analytical results for the quarterly groundwater monitoring events at the RWI Site is presented in the following sections. Analytical data is provided in Table 1 (Summary of Groundwater Analytical Results) of this report. Complete laboratory analytical data reports, including the data review and data validation memoranda, are located in Appendix 2 of this report.

4.1 December 2012

4.1.1 Groundwater Analytical Results

Analytical results from groundwater samples collected from the RWI Site monitor wells were compared to the human health Preliminary Remediation Goals (PRGs) for the COCs in order to ensure the continued protectiveness of the selected remedy and to determine the level of contamination in groundwater. The concentrations of the PRGs for the COCs in groundwater, as defined in FSP1 are 6 µg/L for antimony, 10 µg/L for arsenic, and 5 µg/L for lead (DBS&A, June 2012).

Table 5.1a (Summary of PRG Exceedances - December 2012) below presents the analytical data results for groundwater samples collected from the RWI Site monitor wells in December 2012 that were found to have concentrations above the PRGs for one or more of the COCs. Several of the groundwater samples collected from the monitor wells demonstrated concentrations of both antimony and arsenic above their respective PRGs. The maximum concentration for December 2012 of antimony is 0.516 mg/L found in MW-38-90; the maximum concentration of arsenic is 0.352 mg/L found in MW-34-90; the highest concentration of lead is 0.0366 mg/L found in MW-35-90, and is the only sample collected from the monitor wells that exhibit a concentration above the PRG.

Table 5.1a - Summary of PRG Exceedances - December 2012

Sample ID	Lab Sample ID	Sample Date	Antimony (mg/L)	Arsenic (mg/L)	Lead (mg/L)
MW-9	1212276-02	12/26/2012	**0.236**	**0.0807**	<0.000300
MW-17	1212276-06	12/26/2012	**0.0454**	0.0073	<0.000300
MW-21	1212276-20	12/27/2012	**0.371**	0.00327 J	0.000354 J
DUP-1 (MW-21)	1212276-15	12/27/2012	**0.304**	0.00293	0.000523 J
MW-24-90	1212276-08	12/27/2012	0.00566	**0.0104**	0.000684 J
MW-27-90	1212276-09	12/28/2012	**0.0639**	0.00218 J	0.000508 J
MW-28-90	1212276-10	12/28/2012	**0.0254**	**0.0496**	<0.000300
MW-29-90	1212276-11	12/27/2012	**0.00629**	0.0079	0.000433 J
MW-33-90	1212276-13	12/26/2012	**0.150**	**0.0283**	<0.000300
MW-34-90	1212276-14	12/26/2012	**0.310**	**0.352**	<0.000300
DUP-2 (MW-34-90)	1212276-16	12/26/2012	**0.304**	**0.340**	<0.000300
MW-35-90	1212276-22	12/28/2012	**0.464**	**0.0867**	**0.0366**
MW-37-90	1212276-23	12/27/2012	0.00098 J	**0.0602**	0.00046 J
MW-38-90	1212276-24	12/27/2012	**0.516**	0.00344 J	0.00247
Preliminary Remediation Goals (mg/L)			**0.006**	**0.010**	**0.005**

** Values in **bold** indicate results above Preliminary Remediation Goals (PRGs)*

4.1.2 Quality Assurance/Quality Control Sample Results

Laboratory analytical results of the QA/QC samples collected during the December 2012 groundwater monitoring event are located in Table 1 (Summary of Groundwater Analytical

Results) of this report. Complete laboratory analytical data reports, including QA/QC data results and the data review and data validation memoranda are located in Appendix 2 of this report.

4.1.3 Field Duplicate Samples

Field duplicates were collected from monitoring wells MW-21 and MW-34-90 during the December 2012 groundwater monitoring event and respectively labeled as DUP-1 and DUP-2 for confidentiality purposes. The calculated relative percent differences (RPD) between the MW-21 primary sample and the field duplicate (DUP-1) are 19.85% for antimony, 10.97% for arsenic, and 38.54% for lead. The calculated relative percent differences (RPD) between the MW-34-90 primary sample and the field duplicate (DUP-2) are 1.95% for antimony and 3.47% for arsenic. Lead was not detected above the sample detection limit (SDL) in either the MW-34-90 primary sample or the field duplicate (DUP-2). The above calculated RPD values for lead for MW-21 and DUP-1 was greater than the 30% criterion established in the TCEQ Quality Assurance Project Plan for the Federal Superfund Program (Revision 9.0, Q-TRAK# 12-463) (TCEQ, 2012); therefore, these results have been qualified as “estimated”. Each of the calculated RPD values for MW-34-90 and DUP-2 were less than the 30% criterion; therefore, no qualification is required for those results.

4.1.4 Equipment Rinsate Blank Samples

Two equipment rinsate blank samples (ER-1 and ER-2) were collected during the December 2012 sampling event. Analytical results for the equipment rinsate blank samples indicate that none of the COCs were identified in either of the blank samples above the sample detection limits. Therefore, the equipment decontamination procedures performed during this groundwater monitoring event are deemed effective.

4.1.5 Temperature Blank Samples

The temperature of the collected groundwater samples was reported by DHL Analytical to be 3.5°C upon receipt by the laboratory, which is within the allowable temperature range of 0-6°C.

Therefore, the environmental samples were properly preserved at the required temperature until receipt at the laboratory.

4.1.6 Data Review & Validation

The independent data usability review for the December 2012 groundwater monitoring analytical data package was completed as specified in TCEQ Federal Superfund QAPP Element D.2.1.2. Additionally, data validation was performed as specified in TCEQ Federal Superfund QAPP Element D.2.1.3. The data review and data validation memoranda prepared pursuant to the contract requirements are located in Appendix 2 of this report. The technical data review and validation resulted in no significant quality control anomalies, no rejected data, nor any corrective actions taken or recommended for future analyses. The data as a whole is found to be usable for meeting the project objectives with the qualifications presented in the Data Usability Summary (DUS) located in Appendix 2.

4.2 March 2013

4.2.1 Groundwater Analytical Results

Analytical results from groundwater samples collected from the RWI Site monitor wells were compared to the human health Preliminary Remediation Goals (PRGs) for the COCs in order to ensure the continued protectiveness of the selected remedy and to determine the level of contamination in groundwater. The concentrations of the PRGs for the COCs in groundwater, as defined in FSP1 are 6 µg/L for antimony, 10 µg/L for arsenic, and 5 µg/L for lead (DBS&A, June 2012).

Table 5.1b (Summary of PRG Exceedances - March 2013) below presents the analytical data results for groundwater samples collected from the RWI Site monitor wells in March 2013 that were found to have concentrations above the PRGs for one or more of the COCs. Several of the groundwater samples collected from the monitor wells demonstrated concentrations of both antimony and arsenic above their respective PRGs. The maximum concentration for March 2013 of antimony is 1.31 mg/L found in MW-35-90; the maximum concentration of arsenic is 0.346 mg/L found in MW-34-90; the highest concentration of lead, that is not qualified with data

review flags, is 0.000598J mg/L found in MW-35-90. None of the unqualified samples exhibited a concentration above the PRG.

Table 5.1b - Summary of PRG Exceedances - March 2013

Sample ID	Lab Sample ID	Sample Date	Antimony (mg/L)	Arsenic (mg/L)	Lead (mg/L)
MW-9	1303040-02	3/5/2013	**0.212**	**0.0731**	<0.000300
MW-17	1303040-06	3/5/2013	**0.0314**	0.00537	0.000365 J
MW-21	1303040-19	3/6/2013	**0.325**	0.00276 J	**0.00566 JI-FD**
DUP-1 (MW-21)	1303040-17	3/6/2013	**0.335**	0.00339 J	**0.0112 JI-FD**
MW-27-90	1303040-09	3/5/2013	**0.0630**	0.00221 J	<0.000300
MW-28-90	1303040-10	3/5/2013	**0.0224**	**0.0508**	<0.000300
MW-29-90	1303040-11	3/5/2013	**0.0306**	0.00270 J	<0.000300
MW-33-90	1303040-13	3/5/2013	**0.131**	**0.0301**	<0.000300
MW-34-90	1303040-14	3/5/2013	**0.306**	**0.346**	<0.000300
DUP-2 (MW-34-90)	1303040-15	3/5/2013	**0.302**	**0.345**	<0.000300
MW-35-90	1303040-23	3/6/2013	**1.31**	**0.0957**	0.000598 J
MW-37-90	1303040-22	3/6/2013	0.00144 J	**0.0451**	<0.000300
MW-38-90	1303040-23	3/6/2013	**0.911**	0.00418 J	0.000396 J
Preliminary Remediation Goals (mg/L)			**0.006**	**0.010**	**0.005**

** Values in **bold** indicate results above Preliminary Remediation Goals (PRGs)*

4.2.2 Quality Assurance/Quality Control Sample Results

Laboratory analytical results of the QA/QC samples collected during the March 2013 groundwater monitoring event are located in Table 1 (Summary of Groundwater Analytical Results) of this report. Complete laboratory analytical data reports, including QA/QC data results and the data review and data validation memoranda are located in Appendix 2 of this report.

4.2.3 Field Duplicate Samples

Field duplicates were collected from monitoring wells MW-21 and MW-34-90 during the March 2013 groundwater monitoring event and respectively labeled as DUP-1 and DUP-2 for

confidentiality purposes. The calculated relative percent differences (RPD) between the MW-21 primary sample and the field duplicate (DUP-1) are 3.03% for antimony, 20.49% for arsenic, and 65.72% for lead. The calculated relative percent differences (RPD) between the MW-34-90 primary sample and the field duplicate (DUP-2) are 1.32% for antimony and 0.29% for arsenic. Lead was not detected above the sample detection limit (SDL) in either the MW-34-90 primary sample or the field duplicate (DUP-2). The above calculated RPD values for lead for MW-21 and DUP-1 were greater than the 30% criterion established in the TCEQ Quality Assurance Project Plan for the Federal Superfund Program (Revision 9.0, Q-TRAK# 12-463) (TCEQ, 2012); therefore, these results have been qualified as "estimated". Each of the calculated RPD values for MW-34-90 and DUP-2 were less than the 30% criterion; therefore, no qualification is required for those results.

4.2.4 Equipment Rinsate Blank Samples

Two equipment rinsate blank samples (ER-1 and ER-2) were collected during the March 2013 sampling event. Analytical results for the equipment rinsate blank samples indicate that none of the COCs were identified in either of the blank samples above the sample detection limits. Therefore, the equipment decontamination procedures performed during this groundwater monitoring event are deemed effective.

4.2.5 Temperature Blank Samples

The temperature of the collected groundwater samples was reported by DHL Analytical to be 0.9°C upon receipt by the laboratory, which is within the allowable temperature range of 0-6°C. Therefore, the environmental samples were properly preserved at the required temperature until receipt at the laboratory.

4.2.6 Data Review & Validation

The independent data usability review for the March 2013 groundwater monitoring analytical data package was completed as specified in TCEQ Federal Superfund QAPP Element D.2.1.2. Additionally, data validation was performed as specified in TCEQ Federal Superfund QAPP Element D.2.1.3. The data review and data validation memoranda prepared pursuant to the

contract requirements are located in Appendix 2 of this report. The technical data review and validation resulted in no significant quality control anomalies, no rejected data, nor any corrective actions taken or recommended for future analyses. The data reviewer did identify that samples 1303040-19/17 (MW-21/DUP-1) did not meet the field duplicate review criteria. However, none of the interpretations were impacted by the field duplicate results and the data as a whole is found to be usable for meeting the project objectives with the qualifications presented in the Data Usability Summary (DUS) located in Appendix 2.

4.3 June 2013

4.3.1 Groundwater Analytical Results

Analytical results from groundwater samples collected from the RWI Site monitor wells were compared to the human health Preliminary Remediation Goals (PRGs) for the COCs in order to ensure the continued protectiveness of the selected remedy and to determine the level of contamination in groundwater. The concentrations of the PRGs for the COCs in groundwater, as defined in FSP1 are 6 µg/L for antimony, 10 µg/L for arsenic, and 5 µg/L for lead (DBS&A, June 2012).

Table 5.1c (Summary of PRG Exceedances - June 2013) below presents the analytical data results for groundwater samples collected from the RWI Site monitor wells in June 2013 that were found to have concentrations above the PRGs for one or more of the COCs. Several of the groundwater samples collected from the monitor wells demonstrated concentrations of both antimony and arsenic above their respective PRGs. The maximum concentration for June 2013 of antimony is 0.976 mg/L found in MW-38-90; the maximum concentration of arsenic is 0.398 mg/L found in MW-34-90. There were no lead results above the PRG of 0.005 mg/L found during the June 2013 sampling event.

Table 5.1c - Summary of PRG Exceedances - June 2013

Sample ID	Lab Sample ID	Sample Date	Antimony (mg/L)	Arsenic (mg/L)	Lead (mg/L)
MW-9	1306108-02	6/11/2013	**0.256**	**0.0982**	<0.000300
MW-17	1306108-06	6/11/2013	**0.0436**	**0.0115**	<0.000300
MW-21	1306108-19	6/11/2013	**0.361**	0.00295 J	<0.000300
DUP-1 (MW-21)	1306108-24	6/11/2013	**0.349**	0.00269 J	<0.000300
MW-27-90	1306108-10	6/11/2013	**0.0624**	0.00211 J	<0.000300
MW-28-90	1306108-11	6/10/2013	**0.0254**	**0.0554**	<0.000300
MW-29-90	1306108-11	6/11/2013	**0.0221**	0.00270 J	0.000802 J
MW-33-90	1306108-14	6/11/2013	**0.138**	**0.0314**	<0.000300
MW-34-90	1306108-15	6/11/2013	**0.327**	**0.398**	<0.000300
DUP-2 (MW-34-90)	1306108-16	6/11/2013	**0.337**	**0.413**	<0.000300
MW-35-90	1306108-21	6/11/2013	**0.85**	**0.0955**	0.000834 J
MW-37-90	1306108-22	6/11/2013	0.00169 J	**0.036**	<0.000300
MW-38-90	1306108-23	6/11/2013	**0.976**	0.00498 J	0.000579 J
Preliminary Remediation Goals (mg/L)			**0.006**	**0.010**	**0.005**

** Values in **bold** indicate results above Preliminary Remediation Goals (PRGs)*

4.3.2 Quality Assurance/Quality Control Sample Results

Laboratory analytical results of the QA/QC samples collected during the June 2013 groundwater monitoring event are located in Table 1 (Summary of Groundwater Analytical Results) of this report. Complete laboratory analytical data reports, including QA/QC data results and the data review and data validation memoranda are located in Appendix 2 of this report.

4.3.3 Field Duplicate Samples

Field duplicates were collected from monitoring wells MW-21 and MW-34-90 during the June 2013 groundwater monitoring event and respectively labeled as DUP-1 and DUP-2 for confidentiality purposes. The calculated relative percent differences (RPD) between the MW-21 primary sample and the field duplicate (DUP-1) are 3.38% for antimony and 9.22% for arsenic. Lead was not detected above the sample detection limit (SDL) in either the MW-21 primary sample or the field duplicate (DUP-1). The calculated relative percent differences (RPD)

between the MW-34-90 primary sample and the field duplicate (DUP-2) are 3.01% for antimony and 3.70% for arsenic. Lead was not detected above the sample detection limit (SDL) in either the MW-34-90 primary sample or the field duplicate (DUP-2). All of the calculated RPD vaules for the between the respective primary and duplicate samples were below the 30% criterion established in the TCEQ Quality Assurance Project Plan for the Federal Superfund Program (Revision 9.0, Q-TRAK# 12-463) (TCEQ, 2012); therefore, no qualification is required for these results.

4.3.4 Equipment Rinsate Blank Samples

Two equipment rinsate blank samples (ER-1 and ER-2) were collected during the June 2013 sampling event. Analytical results for the equipment rinsate blank samples indicate that none of the COCs were identified in either of the blank samples above the sample detection limits. Therefore, the equipment decontamination procedures performed during this groundwater monitoring event are deemed effective.

4.3.5 Temperature Blank Samples

The temperature of the collected groundwater samples was reported by DHL Analytical to be 4.1°C upon receipt by the laboratory, which is within the allowable temperature range of 0-6°C. Therefore, the environmental samples were properly preserved at the required temperature until receipt at the laboratory.

4.3.6 Data Review & Validation

The independent data usability review for the June 2013 groundwater monitoring analytical data package was completed as specified in TCEQ Federal Superfund QAPP Element D.2.1.2. Additionally, data validation was performed as specified in TCEQ Federal Superfund QAPP Element D.2.1.3. The data review and data validation memoranda prepared pursuant to the contract requirements are located in Appendix 2 of this report. The technical data review and validation resulted in no significant quality control anomalies, no rejected data, nor any corrective actions taken or recommended for future analyses. The data as a whole is found to

be usable for meeting the project objectives with the qualifications presented in the Data Usability Summary (DUS) located in Appendix 2.

5. Discussion of Findings and Conclusions

Operation and maintenance activities were performed at the Rockwool Industries, Inc. Federal Superfund Site in order to ensure that the selected remedy remains protective of human health and the environment. Inspection and maintenance activities at the RWI Site of the MATCON, underground culverts, drainage features and erosion control measures, and vegetation control were covered under a separate work order and discussed in a Field Summary Report submitted separately.

The primary objective of the groundwater monitoring program is to compare the analytical results from groundwater sample analysis to the human health Preliminary Remediation Goals (PRGs) for the contaminants of concern in order to evaluate the continued protectiveness of the selected remedy and to determine the level of contamination in groundwater.

Results from the groundwater monitoring event indicate that the contaminants of concern, especially antimony and arsenic, continue to impact groundwater above the established Preliminary Remediation Goals as a result of contaminant leaching and migration from the subsurface soil and waste located across the RWI site. Specifically, antimony and arsenic appear to be the dominant COCs in groundwater beneath the site with the lead being a minor COC. There appear to be two areas where COCs are concentrated: On the North Property in the area of the former Evaporation Lagoon (EVL) and on the southwest portion of the Central Property near the fence along FM93 and south of the MATCON in the area of MW-34-90 and MW-9. Wells north and west of the MATCON have elevated levels of antimony and arsenic as well.

Twenty monitor wells have been gauged during each of the last three quarterly events (December 2012, March 2013, and June 2013) yielding useful groundwater elevation data. Thirteen of those wells have remained fairly constant, five exhibit an increasing trend in groundwater elevation, and two exhibit a decreasing trend. These trends hold true when previous gauging events conducted in July 2012 and May 2011 are factored in as well. Gradient

maps constructed for the last three quarters indicate that a groundwater divide exists at the Site running NE-SW through the middle of the Site. Groundwater appears to flow away from this site in all directions, with the exception of the southwest portion of the Central Property where groundwater appears to flow towards the Site. It should be noted, however, that Texas has been under drought conditions since approximately October 2010, which is before DBS&A began work at the Site. Thus, groundwater data since that time only reflects data collected during a time of drought and not otherwise normal seasonal rainfall conditions.

COCs, specifically antimony and arsenic, have been elevated in the area of the former EVL and in the areas south, west, and north of the MATCON since DBS&A's initial groundwater sampling event in May 2011. Based on gradient maps constructed from data obtained during the last three quarters of site work, groundwater in the area of the former EVL is flowing towards, and possibly into, the Leon River. Groundwater on the Central Property in the area of the MATCON appears to flow north/north-northwest away from the MATCON, but also in towards the MATCON from the south, east, and west. This flow regime explains the increased levels of COCs in the wells to the north of the MATCON, but not the increased levels of COCs found along the southwest property boundary. Note, however, that the current groundwater flow pattern is likely affected by the persistent drought conditions and may have been different in the past allowing for contaminant flow away from the MATCON.

6. Recommendations

Based on the results obtained from the 2013 O&M activities described in this report, DBS&A recommends continued groundwater monitoring on a quarterly basis to continue trending of chemical concentrations and evaluation of site conditions. COC concentration trends suggest that the former Evaporation Lagoon (EVL) and MATCON may be a continuing source of COCs and further evaluation of the effectiveness of the remedies selected for those areas is recommended. DBS&A also recommends that additional wells be evaluated for plugging and abandonment. DBS&A recommends the following wells be evaluated for plugging and abandonment: MW-10, MW-11, MW-15, and MW-16. Rationale matrix below lists each well and DBS&A's reasoning for recommending P&A.

Well P&A Rationale Matrix

Well ID	Rationale
MW-10	Trend of non-detect antimony, very low levels of arsenic, and non-detect levels of lead since May 2011. Inconsistent water levels with surrounding wells and low purging volumes indicate that the well may not be in good communication with the formation.
MW-11	Trend of non-detect antimony, very low levels of arsenic, and non-detect levels of lead since May 2011. Inconsistent water levels with surrounding wells and low purging volumes indicate that the well may not be in good communication with the formation.
MW-15	Well is obstructed and cannot be sampled.
MW-16	Well has been dry during each sampling event conducted by DBS&A since May 2011.

7. References

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Tables

Table 1. Summary of Groundwater Analytical Results
Rockwool Industries, Inc. Federal Superfund Site
1741 Taylors Valley Road, Belton, Bell County, Texas

Sample ID	Lab Sample ID	Sample Date	Antimony (mg/L)	SDL (mg/L)	MQL (mg/L)	Arsenic (mg/L)	SDL (mg/L)	MQL (mg/L)	Lead (mg/L)	SDL (mg/L)	MQL (mg/L)
PRGs (mg/L)			**0.006**			**0.010**			**0.005**		
MW-7	1105024-09	5/4/2011	0.00208 J	0.0008	0.0025	<0.00200	0.002	0.005	0.000972 J	0.0003	0.001
	1207088-01	7/10/2012	0.00153 J	0.0008	0.0025	<0.00200	0.002	0.005	0.00069 J	0.0003	0.001
	1212276-01	12/27/2012	0.00142 J	0.0008	0.0025	<0.00200	0.002	0.005	<0.000300	0.0003	0.001
	1303040-01	3/5/2013	0.00128 J	0.0008	0.0025	<0.00200	0.002	0.005	<0.000300	0.0003	0.001
	1306108-01	6/10/2013	0.00143 J	0.0008	0.0025	<0.00200	0.002	0.005	<0.000300	0.0003	0.001
MW-9	1105024-10	5/4/2011	**0.266**	0.0008	0.0025	**0.0911**	0.002	0.005	0.000715 J	0.0003	0.001
	1207088-02	7/10/2012	**0.249**	0.0008	0.0025	**0.081**	0.002	0.005	<0.000300	0.0003	0.001
	1212276-02	12/26/2012	**0.236**	0.0008	0.0025	**0.0807**	0.002	0.005	<0.000300	0.0003	0.001
	1303040-02	3/5/2013	**0.212**	0.0008	0.0025	**0.0731**	0.002	0.005	<0.000300	0.0003	0.001
	1306108-02	6/11/2013	**0.256**	0.0008	0.0025	**0.0982**	0.002	0.005	<0.000300	0.0003	0.001
MW-10	1105024-11	5/4/2011	<0.000800	0.0008	0.0025	<0.00200	0.002	0.005	0.000351 J	0.0003	0.001
	1207088-03	7/10/2012	<0.000800	0.0008	0.0025	0.00302 J	0.002	0.005	<0.000300	0.0003	0.001
	1212276-03	12/26/2012	<0.000800	0.0008	0.0025	0.00244 J	0.002	0.005	<0.000300	0.0003	0.001
	1303040-03	3/5/2013	<0.000800	0.0008	0.0025	0.00296 J	0.002	0.005	<0.000300	0.0003	0.001
	1306108-03	6/10/2013	<0.000800	0.0008	0.0025	0.00363 J	0.002	0.005	<0.000300	0.0003	0.001
MW-11	1105024-12	5/3/2011	<0.000800	0.0008	0.0025	<0.00200	0.002	0.005	0.00364	0.0003	0.001
	1207088-04	7/10/2012	<0.000800	0.0008	0.0025	<0.00200	0.002	0.005	<0.000300	0.0003	0.001
	1212276-04	12/26/2012	<0.000800	0.0008	0.0025	0.00311 J	0.002	0.005	<0.000300	0.0003	0.001
	1303040-04	3/5/2013	<0.000800	0.0008	0.0025	0.00353 J	0.002	0.005	<0.000300	0.0003	0.001
	1306108-04	6/10/2013	<0.000800	0.0008	0.0025	0.0026 J	0.002	0.005	<0.000300	0.0003	0.001
MW-14	1212276-05	12/26/2012	<0.000800	0.0008	0.0025	0.00209 J	0.002	0.005	0.000376 J	0.0003	0.001
	1303040-05	3/5/2013	<0.000800	0.0008	0.0025	0.00214 J	0.002	0.005	<0.000300	0.0003	0.001
	1306108-05	6/10/2013	<0.000800	0.0008	0.0025	0.00216 J	0.002	0.005	<0.000300	0.0003	0.001

Table 1. Summary of Groundwater Analytical Results
Rockwool Industries, Inc. Federal Superfund Site
1741 Taylors Valley Road, Belton, Bell County, Texas

Sample ID	Lab Sample ID	Sample Date	Antimony (mg/L)	SDL (mg/L)	MQL (mg/L)	Arsenic (mg/L)	SDL (mg/L)	MQL (mg/L)	Lead (mg/L)	SDL (mg/L)	MQL (mg/L)
PRGs (mg/L)			**0.006**			**0.010**			**0.005**		
MW-17	1105024-13	5/3/2011	**0.0353**	0.0008	0.0025	0.00525	0.002	0.005	0.000855 J	0.0003	0.001
	1207088-05	7/10/2012	**0.00828**	0.0008	0.0025	0.00595	0.002	0.005	0.000705 J	0.0003	0.001
	1212276-06	12/26/2012	**0.0454**	0.0008	0.0025	0.00730	0.002	0.005	<0.000300	0.0003	0.001
	1303040-06	3/5/2013	**0.0314**	0.0008	0.0025	0.00537	0.002	0.005	0.000365 J	0.0003	0.001
	1306108-06	6/11/2013	**0.0436**	0.0008	0.0025	**0.0115**	0.002	0.005	<0.000300	0.0003	0.001
MW-18	1303040-25	3/6/2013	0.00118 J	0.0008	0.0025	0.00785	0.002	0.005	<0.000300	0.0003	0.001
	1306108-07	6/10/2013	<0.000800	0.0008	0.0025	0.00699	0.002	0.005	**0.00601**	0.0003	0.001
MW-19	1207088-06	7/11/2012	0.00140 J	0.0008	0.0025	<0.00200	0.002	0.005	<0.000300	0.0003	0.001
	1212276-07	12/27/2012	0.00127 J	0.0008	0.0025	<0.00200	0.002	0.005	<0.000300	0.0003	0.001
	1303040-07	3/5/2013	0.00126 J	0.0008	0.0025	<0.00200	0.002	0.005	<0.000300	0.0003	0.001
	1306108-08	6/10/2013	0.00148 J	0.0008	0.0025	<0.00200	0.002	0.005	<0.000300	0.0003	0.001
MW-20	1105024-01	5/3/2011	0.0028	0.0008	0.0025	0.00262 J	0.002	0.005	0.000845 J	0.0003	0.001
	1207088-16	7/11/2012	0.00236 J	0.0008	0.0025	0.00267 J	0.002	0.005	0.000420 J	0.0003	0.001
	1212276-19	12/27/2012	0.00180 J	0.0008	0.0025	0.00324 J	0.002	0.005	0.000316 J	0.0003	0.001
	1303040-18	3/6/2013	0.00211 J	0.0008	0.0025	0.00316 J	0.002	0.005	<0.000300	0.0003	0.001
	1306108-18	6/11/2013	0.00198 J	0.0008	0.0025	0.00322 J	0.002	0.005	<0.000300	0.0003	0.001
MW-21	1105024-02	5/2/2011	**0.105**	0.0008	0.0025	**0.016**	0.002	0.005	<0.000300	0.0003	0.001
	1207088-17	7/11/2012	**0.303** JI-FD	0.0008	0.0025	0.00921	0.002	0.005	0.00267 JI-FD	0.0003	0.001
	1212276-20	12/27/2012	**0.371**	0.0008	0.0025	0.00327 J	0.002	0.005	0.000354 J	0.0003	0.001
	1303040-19	3/6/2013	**0.325**	0.0008	0.0025	0.00276 J	0.002	0.005	**0.00566** JI-FD	0.0003	0.001
	1306108-19	6/11/2013	**0.361**	0.0008	0.0025	0.00295 J	0.002	0.005	<0.000300	0.0003	0.001

Table 1. Summary of Groundwater Analytical Results
Rockwool Industries, Inc. Federal Superfund Site
1741 Taylors Valley Road, Belton, Bell County, Texas

Sample ID	Lab Sample ID	Sample Date	Antimony (mg/L)	SDL (mg/L)	MQL (mg/L)	Arsenic (mg/L)	SDL (mg/L)	MQL (mg/L)	Lead (mg/L)	SDL (mg/L)	MQL (mg/L)
PRGs (mg/L)			**0.006**			**0.010**			**0.005**		
DUP-1 (MW-21)	1105024-06	5/2/2011	**0.120**	0.0008	0.0025	**0.014**	0.002	0.005	<0.000300	0.0003	0.001
	1207088-22	7/11/2012	**0.428** JI-FD	0.0008	0.0025	0.00545	0.002	0.005	0.00100 JI-FD	0.0003	0.001
	1212276-15	12/27/2012	**0.304**	0.0008	0.0025	0.00293	0.002	0.005	0.000523 J	0.0003	0.001
	1303040-17	3/6/2013	**0.335**	0.0008	0.0025	0.00339 J	0.002	0.005	**0.0112** JI-FD	0.0003	0.001
	1306108-24	6/11/2013	**0.349**	0.0008	0.0025	0.00269 J	0.002	0.005	<0.000300	0.0003	0.001
MW-22	1105024-08	5/3/2011	0.00199 J	0.0008	0.0025	<0.00200	0.002	0.005	<0.000300	0.0003	0.001
	1207088-18	7/11/2012	<0.000800	0.0008	0.0025	<0.00200	0.002	0.005	0.00368	0.0003	0.001
	1212276-21	12/27/2012	<0.000800	0.0008	0.0025	<0.00200	0.002	0.005	0.000629 J	0.0003	0.001
	1303040-20	3/6/2013	0.00146 J	0.0008	0.0025	<0.00200	0.002	0.005	0.000856 J	0.0003	0.001
	1306108-20	6/11/2013	0.00103 J	0.0008	0.0025	<0.00200	0.002	0.005	0.000461 J	0.0003	0.001
MW-24-90	1105024-14	5/3/2011	**0.00717**	0.0008	0.0025	**0.011**	0.002	0.005	0.000986 J	0.0003	0.001
	1207088-07	7/11/2012	0.00352	0.0008	0.0025	0.00215 J	0.002	0.005	<0.000300	0.0003	0.001
	1212276-08	12/27/2012	0.00566	0.0008	0.0025	**0.0104**	0.002	0.005	0.000684 J	0.0003	0.001
	1303040-08	3/5/2013	0.00627	0.0008	0.0025	0.00821	0.002	0.005	0.000551 J	0.0003	0.001
	1306108-09	6/10/2013	0.00982	0.0008	0.0025	0.00458 J	0.002	0.005	<0.000300	0.0003	0.001
MW-27-90	1207088-08	7/11/2012	**0.0717**	0.0008	0.0025	<0.00200	0.002	0.005	0.000480 J	0.0003	0.001
	1212276-09	12/28/2012	**0.0639**	0.0008	0.0025	0.00218 J	0.002	0.005	0.000508 J	0.0003	0.001
	1303040-09	3/5/2013	**0.0630**	0.0008	0.0025	0.00221 J	0.002	0.005	<0.000300	0.0003	0.001
	1306108-10	6/11/2013	**0.0624**	0.0008	0.0025	0.00211 J	0.002	0.005	<0.000300	0.0003	0.001
MW-28-90	1207088-09	7/11/2012	**0.0299**	0.0008	0.0025	**0.0689**	0.002	0.005	0.000735 J	0.0003	0.001
	1212276-10	12/28/2012	**0.0254**	0.0008	0.0025	**0.0496**	0.002	0.005	<0.000300	0.0003	0.001
	1303040-10	3/5/2013	**0.0224**	0.0008	0.0025	**0.0508**	0.002	0.005	<0.000300	0.0003	0.001
	1306108-11	6/10/2013	**0.0254**	0.0008	0.0025	**0.0554**	0.002	0.005	<0.000300	0.0003	0.001

Table 1. Summary of Groundwater Analytical Results
Rockwool Industries, Inc. Federal Superfund Site
1741 Taylors Valley Road, Belton, Bell County, Texas

Sample ID	Lab Sample ID	Sample Date	Antimony (mg/L)	SDL (mg/L)	MQL (mg/L)	Arsenic (mg/L)	SDL (mg/L)	MQL (mg/L)	Lead (mg/L)	SDL (mg/L)	MQL (mg/L)
PRGs (mg/L)			**0.006**			**0.010**			**0.005**		
MW-29-90	1207088-10	7/11/2012	**0.0283**	0.0008	0.0025	0.00503	0.002	0.005	0.002310	0.0003	0.001
	1212276-11	12/27/2012	**0.00629**	0.0008	0.0025	0.00790	0.002	0.005	0.000433 J	0.0003	0.001
	1303040-11	3/5/2013	**0.0306**	0.0008	0.0025	0.00270 J	0.002	0.005	<0.000300	0.0003	0.001
	1306108-12	6/11/2013	**0.0221**	0.0008	0.0025	0.00270 J	0.002	0.005	0.000802 J	0.0003	0.001
MW-30-90	1207088-11	7/11/2012	0.00116 J	0.0008	0.0025	0.00269 J	0.002	0.005	**0.0113**	0.0003	0.001
	1212276-12	12/28/2012	0.00102 J	0.0008	0.0025	<0.00200	0.002	0.005	0.00107	0.0003	0.001
	1303040-12	3/5/2013	0.000839 J	0.0008	0.0025	<0.00200	0.002	0.005	0.00129	0.0003	0.001
	1306108-13	6/10/2013	0.00121 J	0.0008	0.0025	0.00205 J	0.002	0.005	0.00378	0.0003	0.001
MW-33-90	1105024-15	5/4/2011	**0.174**	0.0008	0.0025	**0.0347**	0.002	0.005	0.000732 J	0.0003	0.001
	1207088-12	7/10/2012	**0.159**	0.0008	0.0025	**0.0312**	0.002	0.005	<0.000300	0.0003	0.001
	1212276-13	12/26/2012	**0.150**	0.0008	0.0025	**0.0283**	0.002	0.005	<0.000300	0.0003	0.001
	1303040-13	3/5/2013	**0.131**	0.0008	0.0025	**0.0301**	0.002	0.005	<0.000300	0.0003	0.001
	1306108-14	6/11/2013	**0.138**	0.0008	0.0025	**0.0314**	0.002	0.005	<0.000300	0.0003	0.001
MW-34-90	1105024-16	5/4/2011	**0.315**	0.0008	0.0025	**0.358**	0.002	0.005	0.000650 J	0.0003	0.001
	1207088-13	7/10/2012	**0.323**	0.0008	0.0025	**0.391**	0.002	0.005	<0.000300	0.0003	0.001
	1212276-14	12/26/2012	**0.310**	0.0008	0.0025	**0.352**	0.002	0.005	<0.000300	0.0003	0.001
	1303040-14	3/5/2013	**0.306**	0.0008	0.0025	**0.346**	0.002	0.005	<0.000300	0.0003	0.001
	1306108-15	6/11/2013	**0.327**	0.0008	0.0025	**0.398**	0.002	0.005	<0.000300	0.0003	0.001
DUP-2 (MW-34-90)	1105024-17	5/4/2011	**0.320**	0.0008	0.0025	**0.408**	0.002	0.005	0.00201 J	0.0003	0.001
	1207088-14	7/10/2012	**0.318**	0.0008	0.0025	**0.378**	0.002	0.005	<0.000300	0.0003	0.001
	1212276-16	12/26/2012	**0.304**	0.0008	0.0025	**0.340**	0.002	0.005	<0.000300	0.0003	0.001
	1303040-15	3/5/2013	**0.302**	0.0008	0.0025	**0.345**	0.002	0.005	<0.000300	0.0003	0.001
	1306108-16	6/11/2013	**0.337**	0.0008	0.0025	**0.413**	0.002	0.005	<0.000300	0.0003	0.001

Table 1. Summary of Groundwater Analytical Results
Rockwool Industries, Inc. Federal Superfund Site
1741 Taylors Valley Road, Belton, Bell County, Texas

Sample ID	Lab Sample ID	Sample Date	Antimony (mg/L)	SDL (mg/L)	MQL (mg/L)	Arsenic (mg/L)	SDL (mg/L)	MQL (mg/L)	Lead (mg/L)	SDL (mg/L)	MQL (mg/L)
PRGs (mg/L)			**0.006**			**0.010**			**0.005**		
MW-35-90	1105024-03	5/3/2011	**1.01**	0.08	0.0025	**0.076**	0.002	0.005	0.00166	0.0003	0.001
	1207088-19	7/11/2012	**0.526**	0.004	0.0125	**0.0904**	0.002	0.005	**0.0113**	0.0003	0.001
	1212276-22	12/28/2012	**0.464**	0.0008	0.0025	**0.0867**	0.002	0.005	**0.0366**	0.0003	0.001
	1303040-21	3/6/2013	**1.31**	0.008	0.025	**0.0957**	0.002	0.005	0.000598 J	0.0003	0.001
	1306108-21	6/11/2013	**0.85**	0.004	0.0125	**0.0955**	0.002	0.005	0.000834 J	0.0003	0.001
MW-37-90	1105024-04	5/3/2011	0.000933 J	0.0008	0.0025	**0.0145**	0.002	0.005	<0.000300	0.0003	0.001
	1207088-20	7/11/2012	0.00105 J	0.0008	0.0025	**0.0325**	0.002	0.005	<0.000300	0.0003	0.001
	1212276-23	12/27/2012	0.00098 J	0.0008	0.0025	**0.0602**	0.002	0.005	0.00046 J	0.0003	0.001
	1303040-22	3/6/2013	0.00144 J	0.0008	0.0025	**0.0451**	0.002	0.005	<0.000300	0.0003	0.001
	1306108-22	6/11/2013	0.00169 J	0.0008	0.0025	**0.036**	0.002	0.005	<0.000300	0.0003	0.001
MW-38-90	1105024-05	5/3/2011	**0.0286**	0.0008	0.0025	**0.0121**	0.002	0.005	0.000334 J	0.0003	0.001
	1207088-21	7/11/2012	**0.131**	0.0008	0.0025	0.00681	0.002	0.005	0.00354	0.0003	0.001
	1212276-24	12/27/2012	**0.516**	0.0008	0.0025	0.00344 J	0.002	0.005	0.00247	0.0003	0.001
	1303040-23	3/6/2013	**0.911**	0.008	0.025	0.00418 J	0.002	0.005	0.000396 J	0.0003	0.001
	1306108-23	6/11/2013	**0.976**	0.004	0.0125	0.00498 J	0.002	0.005	0.000579 J	0.0003	0.001
ER-1	1105024-07	5/3/2011	<0.000800	0.0008	0.0025	<0.00200	0.002	0.005	<0.000300	0.0003	0.001
	1207088-15	7/10/2012	<0.000800	0.0008	0.0025	<0.00200	0.002	0.005	<0.000300	0.0003	0.001
	1212276-17	12/26/2011	<0.000800	0.0008	0.0025	<0.00200	0.002	0.005	<0.000300	0.0003	0.001
	1303040-16	3/5/2013	<0.000800	0.0008	0.0025	<0.00200	0.002	0.005	<0.000300	0.0003	0.001
	1306108-17	6/10/2013	<0.000800	0.0008	0.0025	<0.00200	0.002	0.005	<0.000300	0.0003	0.001

Table 1. Summary of Groundwater Analytical Results
Rockwool Industries, Inc. Federal Superfund Site
1741 Taylors Valley Road, Belton, Bell County, Texas

Sample ID	Lab Sample ID	Sample Date	Antimony (mg/L)	SDL (mg/L)	MQL (mg/L)	Arsenic (mg/L)	SDL (mg/L)	MQL (mg/L)	Lead (mg/L)	SDL (mg/L)	MQL (mg/L)
PRGs (mg/L)			**0.006**			**0.010**			**0.005**		
ER-2	1105024-18	5/4/2011	<0.000800	0.0008	0.0025	<0.00200	0.002	0.005	<0.000300	0.0003	0.001
	1207088-23	7/11/2012	<0.000800	0.0008	0.0025	<0.00200	0.002	0.005	<0.000300	0.0003	0.001
	1212276-18	12/27/2012	<0.000800	0.0008	0.0025	<0.00200	0.002	0.005	<0.000300	0.0003	0.001
	1303040-24	3/6/2013	<0.000800	0.0008	0.0025	<0.00200	0.002	0.005	<0.000300	0.0003	0.001
	1306108-25	6/11/2013	<0.000800	0.0008	0.0025	<0.00200	0.002	0.005	<0.000300	0.0003	0.001

Notes:
Values in **bold** indicate results above PRGs.
PRGs = Preliminary Remediation Goals.
SDL = Sample Detection Limit.
MQL = Method Quantitation Limit, adusted for moisture and sample size.
J = Estimated result /analyte detected between SDL and MQL.
I = Bias in sample result is indeterminate.

Table 2. Water Level Measurements and Groundwater Elevation Data
Rockwool Industries, Inc. Federal Superfund Site
1741 Taylors Valley Road, Belton, Bell County, Texas

Well ID	Northing (ft)	Easting (ft)	TOC Elevation	Date	DTW (ft bgs)	TD (ft bgs)	Groundwater Surface Elevation (ft)	Top of Limestone Elevation (ft)
MW-7	10358000.55	3201475.37	521.23	5/2/2011	30.40	35.10	490.83	491.8
				7/10/2012	30.35		490.88	
				12/26/2012	30.34		490.89	
				3/4/2013	31.02		490.21	
				6/10/2013	30.12		491.11	
MW-9	10357733.35	3201552.67	518.86	5/2/2011	28.99	35.10	489.87	486.5
				7/10/2012	28.77		490.09	
				12/26/2012	28.94		489.92	
				3/4/2013	28.61		490.25	
				6/11/2013	28.23		490.63	
MW-10	10357635.35	3201683.33	518.45	5/2/2011	27.59	35.00	490.86	489.3
				7/10/2012	27.55		490.90	
				12/26/2012	29.84		488.61	
				3/4/2013	31.15		487.30	
				6/10/2013	32.47		485.98	
MW-11	10357652.64	3201805.07	519.37	5/2/2011	28.23	35.65	491.14	491.6
				7/10/2012	31.06		488.31	
				12/26/2012	32.98		486.39	
				3/4/2013	33.56		485.81	
				6/10/2013	34.02		485.35	
MW-14	10357199.82	3202218.05	514.02	5/2/2011	DRY	41.00	---	477.5
				7/10/2012	DRY		---	
				12/26/2012	32.40		481.62	
				3/4/2013	32.09		481.93	
				6/10/2013	30.83		483.19	
MW-15	10358936.41	3202230.39	506.49	5/2/2011	DRY	unknown	---	488.0
				7/10/2012	Casing obstructed at 19.2'			
				12/26/2012	Casing obstructed at 19.2'			
				3/4/2013	Casing obstructed at 19.2'			
				6/10/2013	Casing obstructed at 19.2'			
MW-16	10357985.96	3202227.94	519.22	5/2/2011	DRY	31.50	---	485.7
				7/10/2012	DRY		---	
				12/26/2012	DRY		---	
				3/4/2013	DRY		---	
				6/10/2013	DRY		---	
MW-17	10357494.71	3201976.57	518.18	5/2/2011	26.26	31.50	491.92	491.1
				7/10/2012	26.23		491.95	
				12/26/2012	26.25		491.93	
				3/4/2013	26.25		491.93	
				6/11/2013	26.16		492.02	

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1741 Taylors Valley Road, Belton, Bell County, Texas

Well ID	Northing (ft)	Easting (ft)	TOC Elevation	Date	DTW (ft bgs)	TD (ft bgs)	Groundwater Surface Elevation (ft)	Top of Limestone Elevation (ft)
MW-18	?	?	?	3/4/2013	32.42	39.25	---	No well log
				6/10/2013	33.31		---	
MW-19	10357815.89	3202478.34	520.31	5/2/2011	32.64	34.30	487.67	487.5
				7/11/2012	31.98		488.33	
				12/26/2012	32.16		488.15	
				3/4/2013	32.12		488.19	
				6/10/2013	32.03		488.28	
MW-20	10358596.28	3202126.66	**519.70**	5/2/2011	32.26	39.20	487.44	No well log
				7/11/2012	31.77		487.93	
				12/26/2012	32.15		487.55	
				3/4/2013	32.24		487.46	
				6/11/2013	32.13		487.57	
MW-21	10358526.27	3202730.33	**505.11**	5/2/2011	10.92	15.50	494.19	No well log
				7/11/2012	9.98		495.13	
				12/26/2012	10.08		495.03	
				3/4/2013	9.75		495.36	
				6/11/2013	9.62		495.49	
MW-22	10358587.03	3202646.56	**505.18**	5/2/2011	11.37	14.56	493.81	No well log
				7/11/2012	11.94		493.24	
				12/26/2012	11.57		493.61	
				3/4/2013	11.04		494.14	
				6/11/2013	10.79		494.39	
MW-24-90	10357535.22	3202554.55	518.46	5/2/2011	33.81	40.63	484.65	No well log
				7/11/2012	32.82		485.64	
				12/26/2012	33.53		484.93	
				3/4/2013	33.72		484.74	
				6/10/2013	33.67		484.79	
MW-27-90	10358240.31	3202111.37	519.76	5/2/2011	34.49	35.40	485.27	487.2
				7/11/2012	33.92		485.84	
				12/26/2012	34.38		485.38	
				3/4/2013	34.44		485.32	
				6/11/2013	34.34		485.42	
MW-28-90	10358377.38	3201743.14	519.84	5/2/2011	30.45	31.94	489.39	491.9
				7/11/2012	30.38		489.46	
				12/26/2012	30.46		489.38	
				3/4/2013	30.23		489.61	
				6/10/2013	30.10		489.74	

Table 2. Water Level Measurements and Groundwater Elevation Data
Rockwool Industries, Inc. Federal Superfund Site
1741 Taylors Valley Road, Belton, Bell County, Texas

Well ID	Northing (ft)	Easting (ft)	TOC Elevation	Date	DTW (ft bgs)	TD (ft bgs)	Groundwater Surface Elevation (ft)	Top of Limestone Elevation (ft)
MW-29-90	10358223.82	3201524.01	517.56	5/2/2011	27.91	29.92	489.65	491.8
				7/11/2012	27.91		489.65	
				12/26/2012	27.90		489.66	
				3/4/2013	27.85		489.71	
				6/11/2013	27.79		489.77	
MW-30-90	10357873.98	3202043.34	520.17	5/2/2011	27.74	28.40	492.43	491.4
				7/11/2012	27.74		492.43	
				12/26/2012	27.69		492.48	
				3/4/2013	27.63		492.54	
				6/10/2013	27.59		492.58	
MW-33-90	10357865.25	3201459.31	520.25	5/2/2011	30.32	33.00	489.93	488.4
				7/10/2012	30.11		490.14	
				12/26/2012	30.29		489.96	
				3/4/2013	29.94		490.31	
				6/11/2013	29.55		490.70	
MW-34-90	10357611.50	3201589.38	519.12	5/2/2011	29.09	32.50	490.03	487.9
				7/10/2012	28.89		490.23	
				12/26/2012	29.05		490.07	
				3/4/2013	28.74		490.38	
				6/11/2013	28.36		490.76	
MW-35-90	10358825.67	3202797.17	**501.03**	5/2/2011	16.61	16.72	484.42	No well log
				7/11/2012	16.23		484.80	
				12/26/2012	16.72		484.31	
				3/4/2013	15.22		485.81	
				6/11/2013	13.91		487.12	
MW-36-90	10358815.08	3202843.96	**501.96**	5/2/2011	Casing obstructed at 2.5'			No well log
				7/11/2012	Casing obstructed at 2.5'			
				12/26/2012	Casing obstructed at 2.5'			
				3/4/2013	Casing obstructed at 2.5'			
Plugged and Abandoned on 5/31/2013.								
MW-37-90	10358806.57	3202888.58	**501.52**	5/2/2011	18.67	26.30	482.85	No well log
				7/11/2012	17.96		483.56	
				12/26/2012	19.08		482.44	
				3/4/2013	16.15		485.37	
				6/11/2013	15.03		486.49	
MW-38-90	10358674.78	3202942.28	**504.05**	5/2/2011	10.15	12.33	493.90	No well log
				7/11/2012	9.89		494.16	
				12/26/2012	10.19		493.86	
				3/4/2013	7.72		496.33	
				6/11/2013	7.52		496.53	

Table 2. Water Level Measurements and Groundwater Elevation Data
Rockwool Industries, Inc. Federal Superfund Site
1741 Taylors Valley Road, Belton, Bell County, Texas

Well ID	Northing (ft)	Easting (ft)	TOC Elevation	Date	DTW (ft bgs)	TD (ft bgs)	Groundwater Surface Elevation (ft)	Top of Limestone Elevation (ft)

Notes:
Values in **bold** indicate top of casing elevations from Wendy Lopez and Associates (2001) survey.
All others elevations from Cook-Joyce (1985-1993) survey.
DTW = Depth-to-Water, from TOC
bgs = below ground surface
TOC = top of well casing
Monitoring wells MW-01, MW-02, MW-03, MW-04A, MW-05, MW-06, MW-08, MW-12, MW-23, MW-25-90, MW-26-90 and MW-32-90 were previously abandoned.

Figures

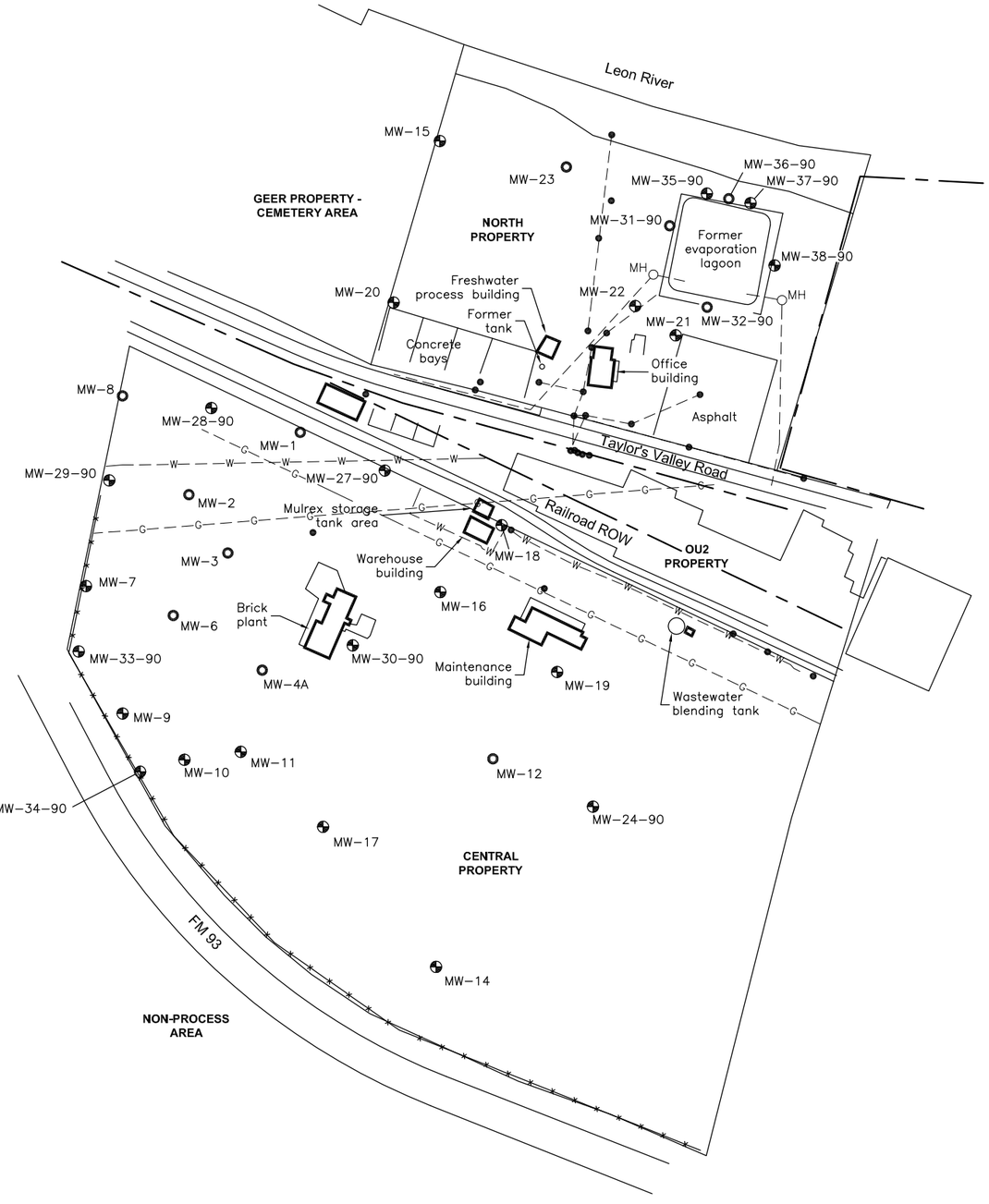
Ü

0 500 1,000 Feet

2010 Color Aerial Imagery Courtesy Google Earth

N:\Client\TCEQ-AIRS\Rockwool\Maps

Figure 1. Site Location Map
Rockwool Industries, Inc.
Federal Superfund Site
1741 Taylor Valley Road
Belton, Bell County, Texas
EPA ID No. TXD066379645
TCEQ Site ID No. SUP033



N

0 Approx. 300 ft

Explanation

- Monitor well
- Plugged and abandoned monitor well
- Underground utility line
- Gas line
- Utility or light pole
- Manhole
- Fence
- Property boundary

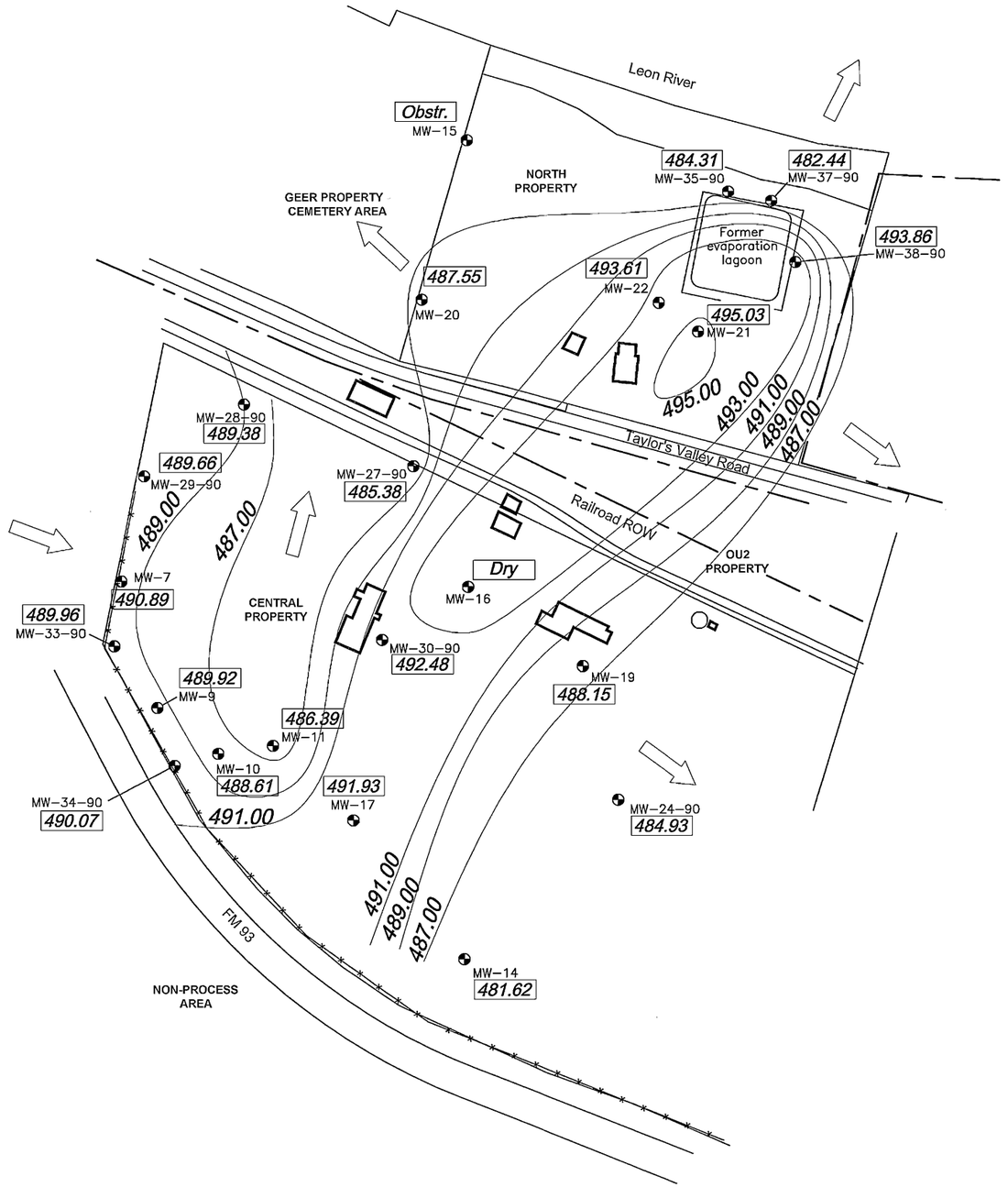
N:\Client\TCEQ–AIRS\Rockwool\Maps\Drawings\Rockwool f1a.dwg

Daniel B. Stephens & Associates, Inc.
6/26/2013

Rockwool Industries Superfund Site
1741 Taylor's Valley Rd
Belton, Texas

Site Map

Figure 2



N

0 Approx. 300 ft

Explanation

- Monitor well
- 490.83 Potentiometric surface elevation (ft msl)
- Groundwater flow direction
- 492.00 Potentiometric surface elevation contour (ft msl)
- Property boundary

Daniel B. Stephens & Associates, Inc.
7/27/2012

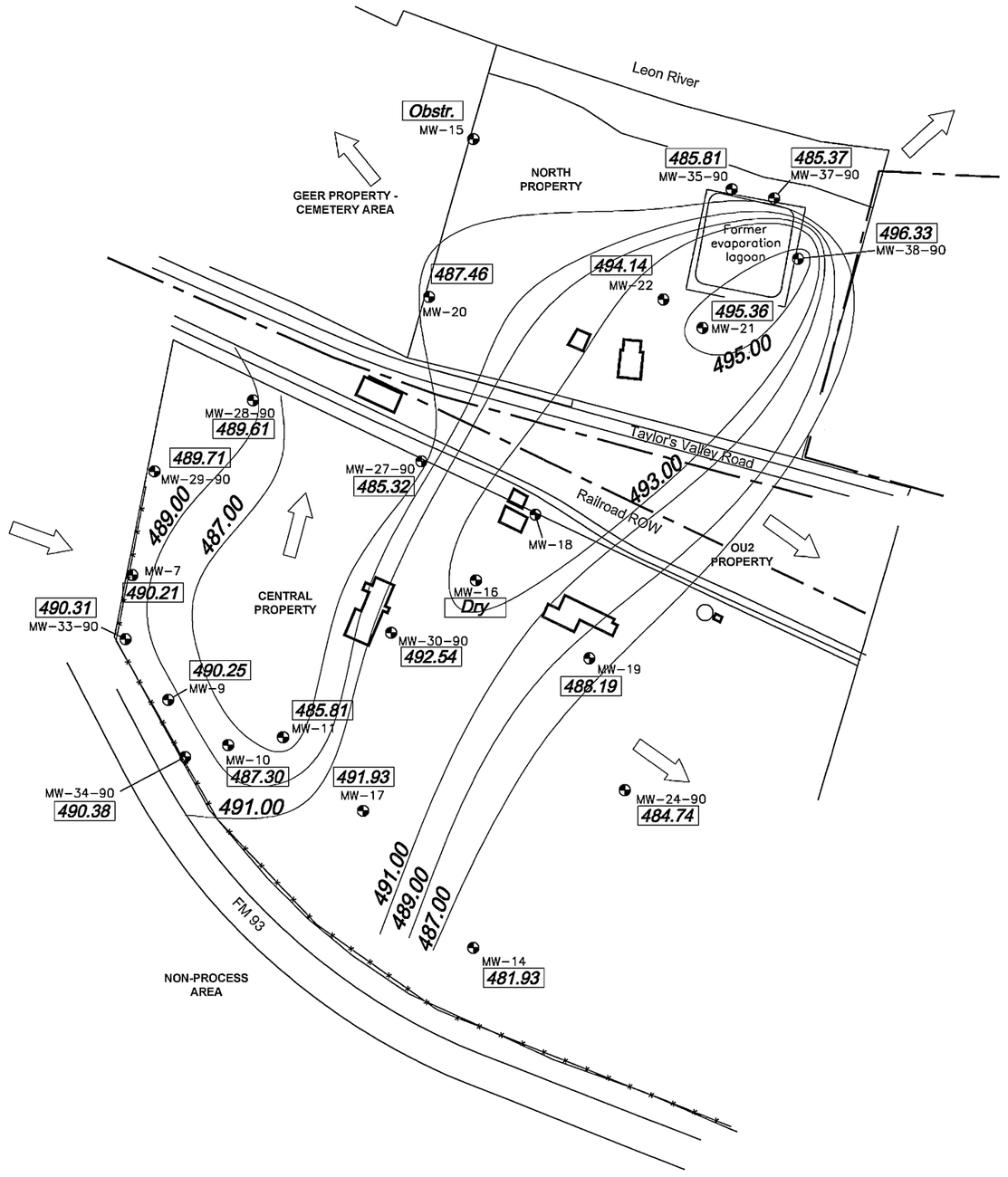
N:\Client\TCEQ-AIRS\Rockwool\Maps\Drawings\Rockwool f4a.dwg

STATE OF TEXAS
Paul B. Kirby
Geology
License #10841
LICENSED PROFESSIONAL GEOSCIENTIST
8.17.2012

Rockwool Industries Superfund Site
1741 Taylor's Valley Rd
Belton, Texas

Potentiometric Surface Elevations
December 26, 2012

Figure 3a



N

0 Approx. 300 ft

Explanation

- Monitor well
- 490.83 Potentiometric surface elevation (ft msl)
- Groundwater flow direction
- 492.00 Potentiometric surface elevation contour (ft msl)
- Property boundary

Note: No survey data for MW-18.
MW-18 not used for contouring.

STATE OF TEXAS
Paul B. Kirby
Geology
License #10841
LICENSED PROFESSIONAL GEOSCIENTIST
2/15/2013

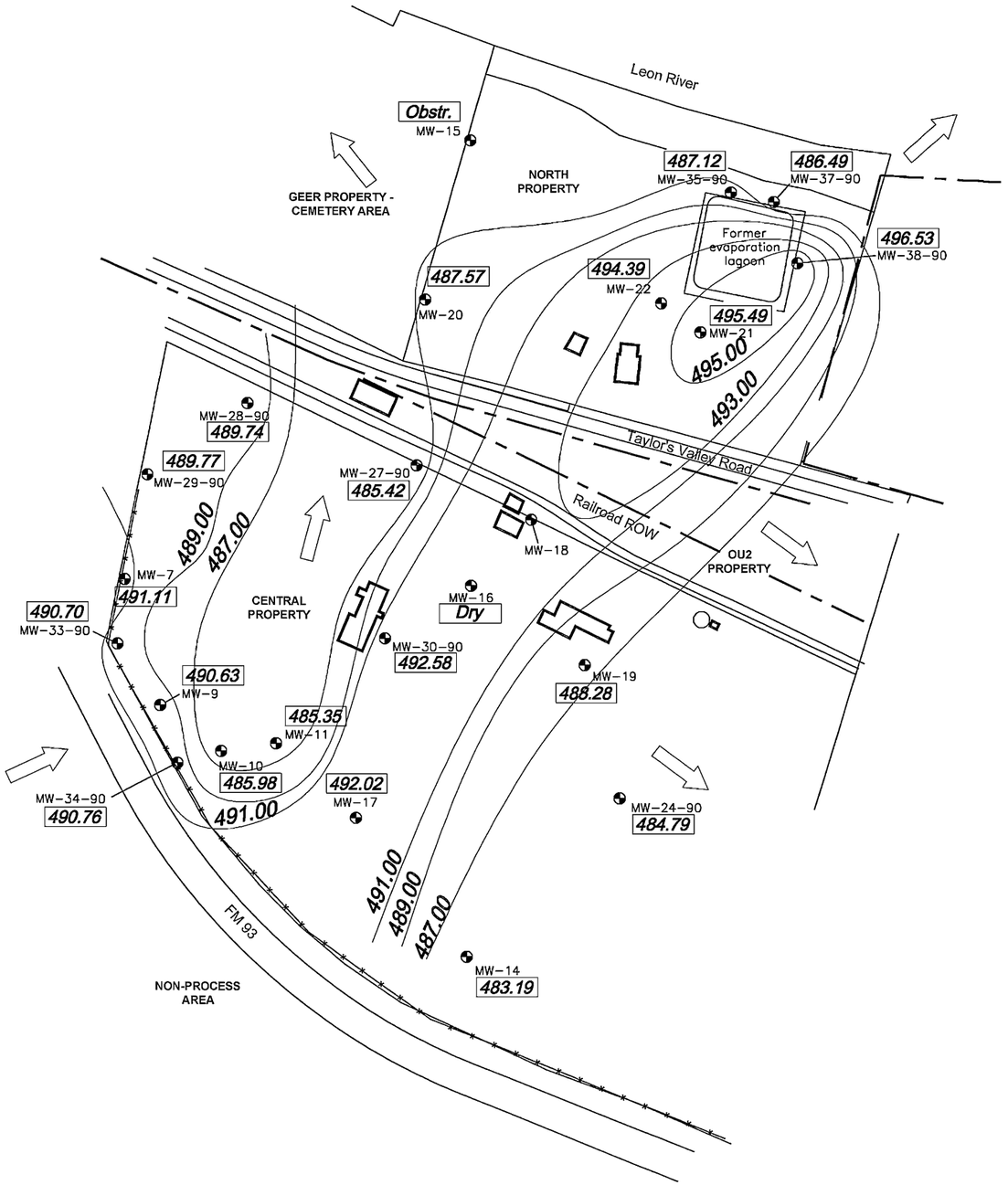
Rockwool Industries Superfund Site
1741 Taylor's Valley Rd
Belton, Texas

Potentiometric Surface Elevations
March 4, 2013

Figure 3b

Daniel B. Stephens & Associates, Inc.
7/27/2012

N:\Client\TCEQ-AIRS\Rockwool\Maps\Drawings\Rockwool f4a.dwg



N

0 Approx. 300 ft

Explanation

- Monitor well
- 490.83 Potentiometric surface elevation (ft msl)
- Groundwater flow direction
- 492.00 Potentiometric surface elevation contour (ft msl)
- Property boundary

Note: No survey data for MW-18.
MW-18 not used for contouring.

STATE OF TEXAS
Paul B. Kirby
Geology
License #10841
LICENSED PROFESSIONAL GEOSCIENTIST
8/15/2013

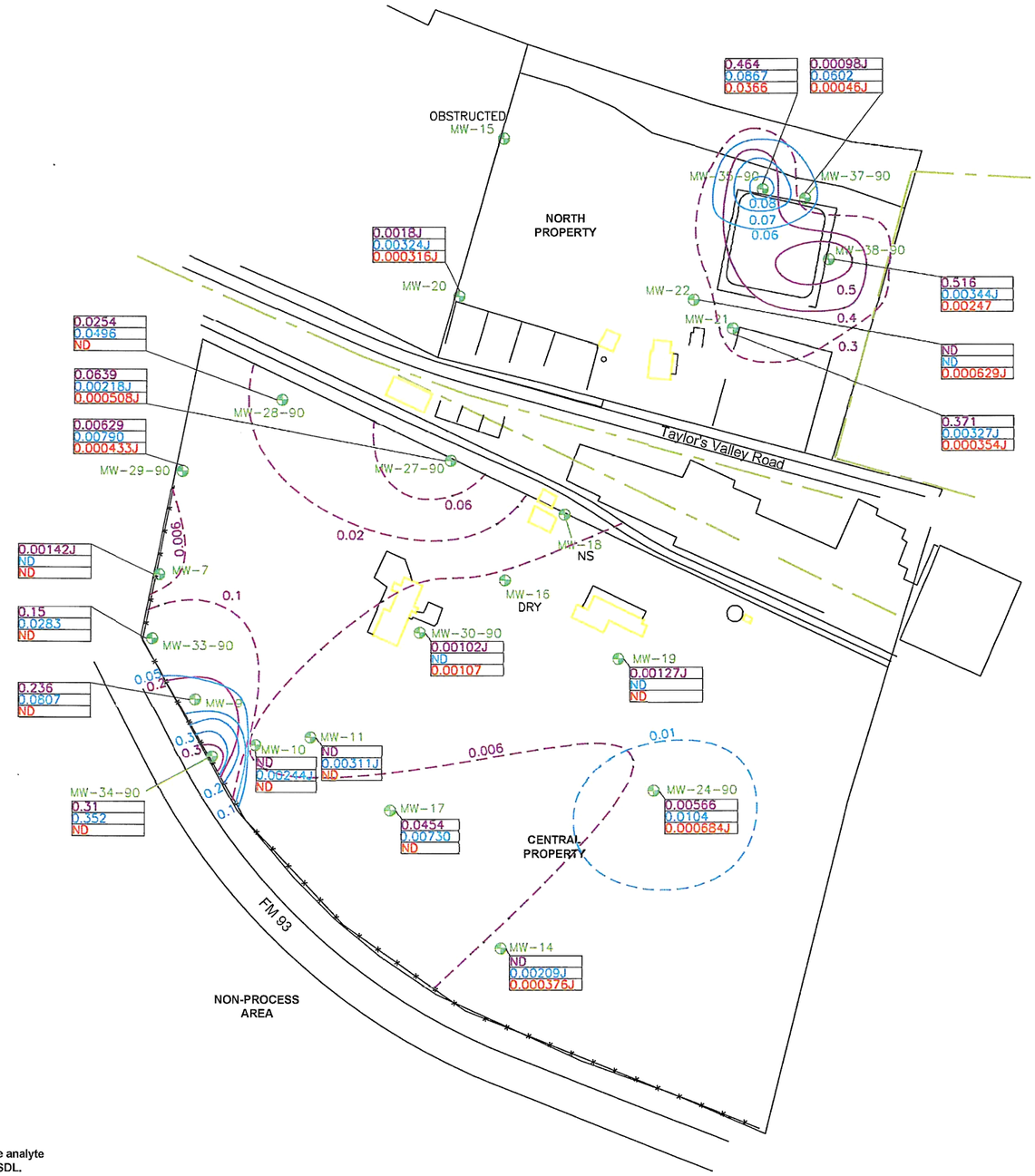
Rockwool Industries Superfund Site
1741 Taylor's Valley Rd
Belton, Texas

Potentiometric Surface Elevations
June 10-11, 2013

Figure 3c

Daniel B. Stephens & Associates, Inc.
7/27/2012

N:\Client\TCEQ-AIRS\Rockwool\Maps\Drawings\Rockwool f4a.dwg



N

0 Approx. 300 ft

Explanation

- Antimony
- Arsenic
- Lead

Note: ND = Not Detected. The analyte was not detected above the SDL.

STATE OF TEXAS
Paul B. Kirby
Geology
License #10841
LICENSED PROFESSIONAL GEOSCIENTIST
8/15/2013

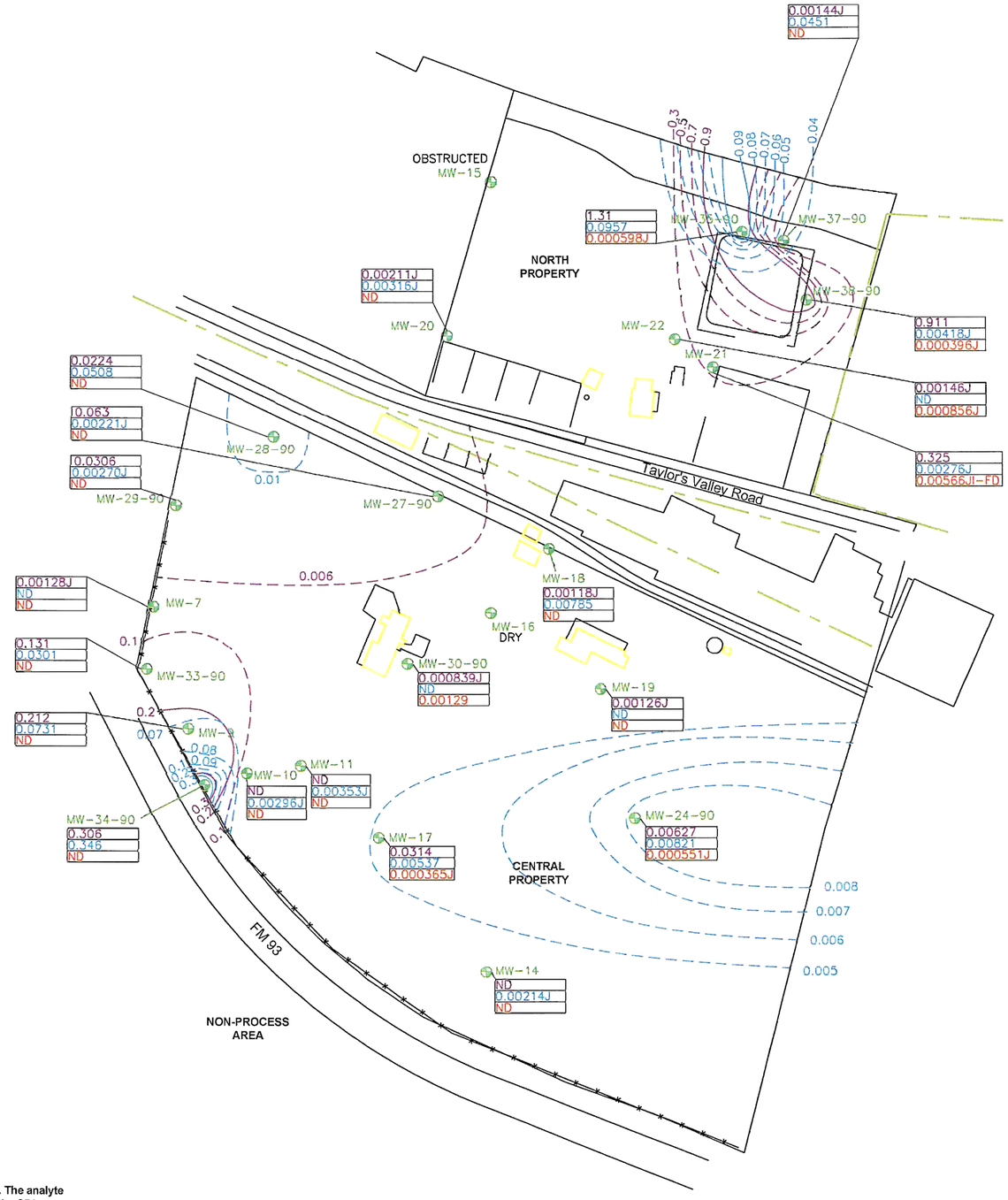
Rockwool Industries Superfund Site
1741 Taylor's Valley Rd
Belton, Texas

December 2012 Contaminant Isoconcentration Map

Figure 4a

Daniel B. Stephens & Associates, Inc.
7/12/2013

N:\Client\TCEQ-AIRS\Rockwool\Maps\Drawings\Rockwool f4a_EL0713.dwg



Note: ND = Not Detected. The analyte was not detected above the SDL.

STATE OF TEXAS
Paul B. Kirby
Geology
License #10841
LICENSED
PROFESSIONAL GEOSCIENTIST
8/15/2013

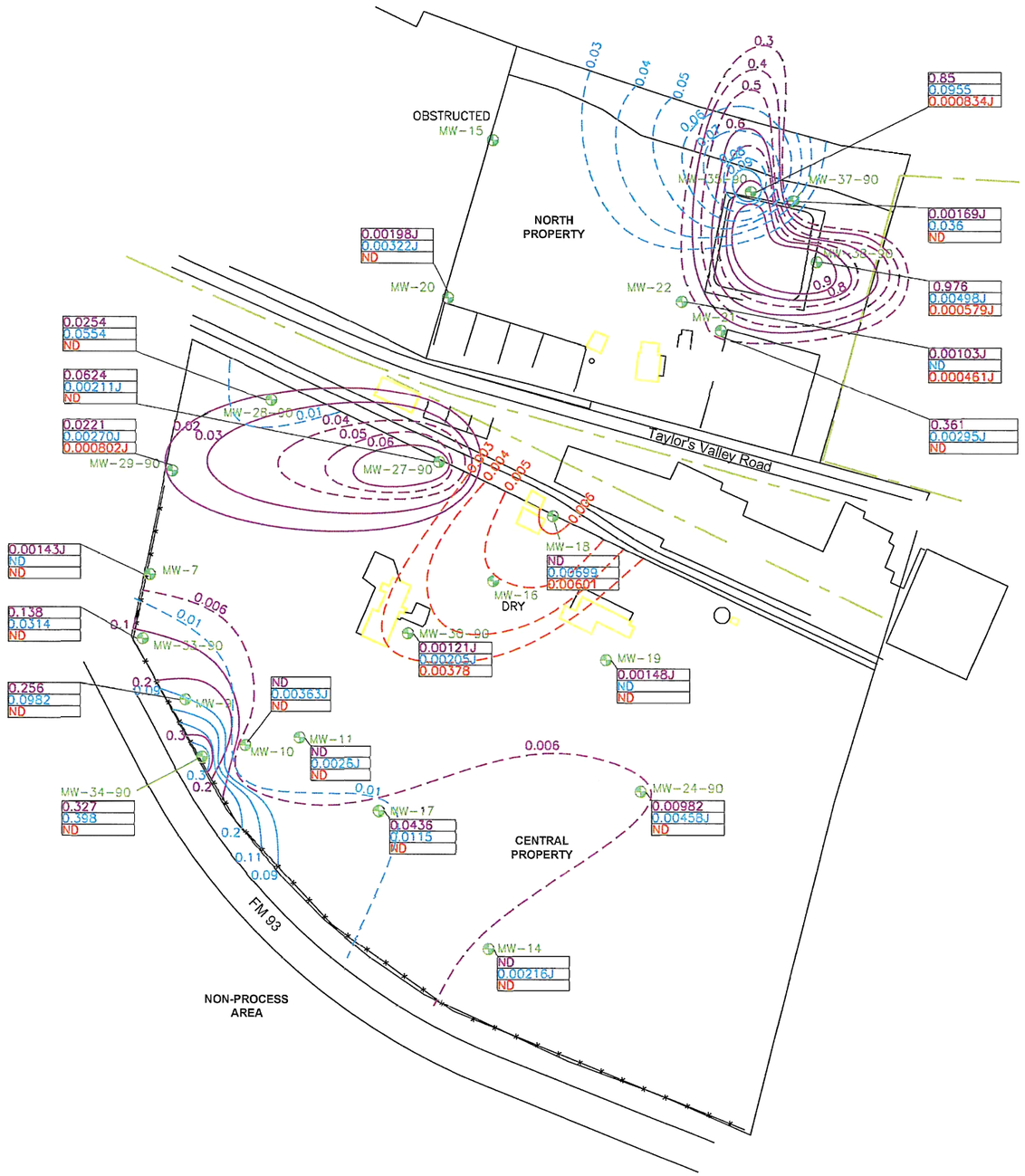
Rockwool Industries Superfund Site
1741 Taylor's Valley Rd
Belton, Texas

March 2013 Contaminant Isoconcentration Map

Figure 4b

Daniel B. Stephens & Associates, Inc.
7/12/2013

N:\Client\TCEQ-AIRS\Rockwool\Maps\Drawings\Rockwool fd4b_EL0713.dwg



N

0 Approx. 300 ft

Explanation

- Antimony
- Arsenic
- Lead

Note: ND = Not Detected. The analyte was not detected above the SDL.

Daniel B. Stephens & Associates, Inc.
7/12/2013

N:\Client\TCEQ-AIRS\Rockwool\Maps\Drawings\Rockwool fd4c_EL0713.dwg

STATE OF TEXAS
Paul B. Kirby
Geology
License #10841
LICENSED PROFESSIONAL GEOSCIENTIST

Rockwool Industries Superfund Site
1741 Taylor's Valley Rd
Belton, Texas

June 2013 Contaminant Isoconcentration Map

Figure 4c

Appendix 1

Groundwater Monitoring Photographic Documentation

Photo #1
Date: June 10, 2013
Description: Looking north at MW-7 Low-Flow Sampling on the Central Property.

Photo #2
Date: June 11, 2013
Description: Looking northeast at MW-9 Low-Flow Sampling on the Central Property.

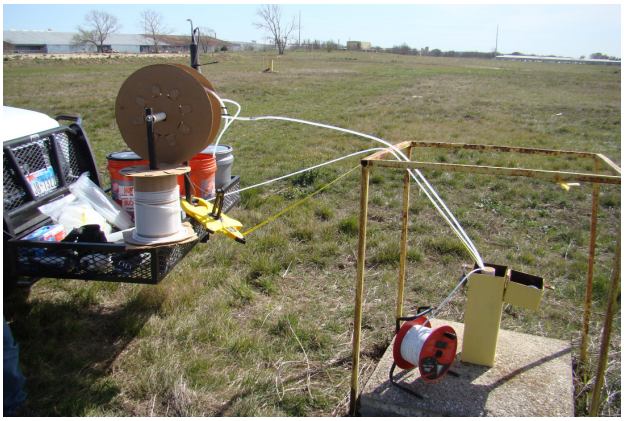


Photo #3
Date: March 5, 2013
Description: Looking east at MW-10 Low-Flow Sampling on the Central Property.

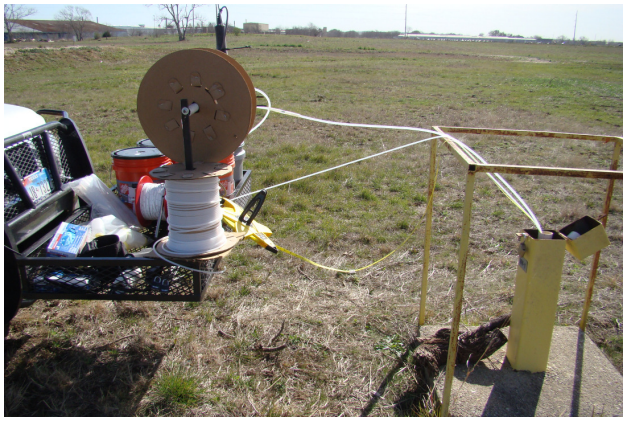


Photo #4
Date: March 5, 2013
Description: Looking east at MW-11 Low-Flow Sampling on the Central Property.

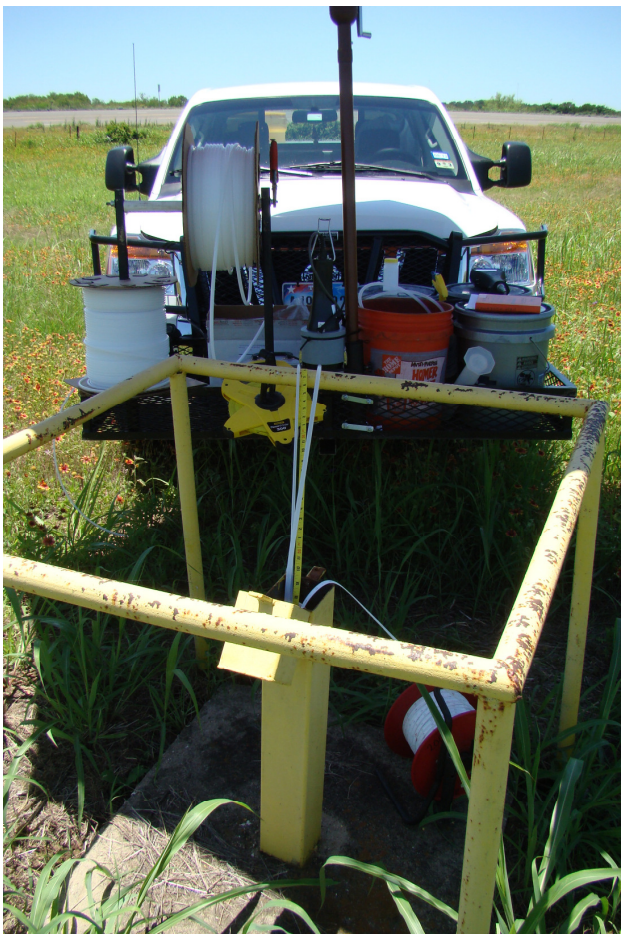


Photo #5
Date: June 10, 2013
Description: Looking southwest at MW-14 Low-Flow Sampling on the Central Property.

Photo #6
Date: June 10, 2013
Description: Looking south at MW-18 Low-Flow Sampling on the Central Property.

Photo #7
Date: June 10, 2013
Description: Looking west at MW-19 Low-Flow Sampling on the Central Property.

Photo #8
Date: June 11, 2013
Description: Looking northeast at MW-20 Low-Flow Sampling on the North Property.

Photo #9
Date: June 11, 2013
Description: Looking north at MW-21 Low-Flow Sampling on the North Property.

Photo #10
Date: June 11, 2013
Description: Looking southeast at MW-22 Low-Flow Sampling on the North Property.

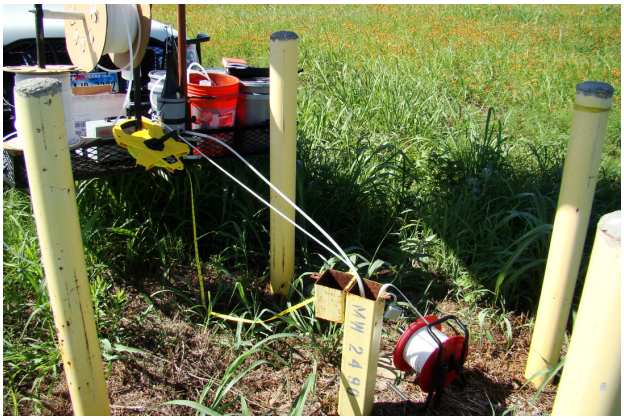


Photo #11
Date: June 10, 2013
Description: Looking north at MW-24-90 Low-Flow Sampling on the Central Property.

Photo #12
Date: June 10, 2013
Description: Looking north at MW-28-90 Low-Flow Sampling on the Central Property.

Photo #13
Date: June 11, 2013
Description: Looking north at MW-29-90 Low-Flow Sampling on the Central Property.

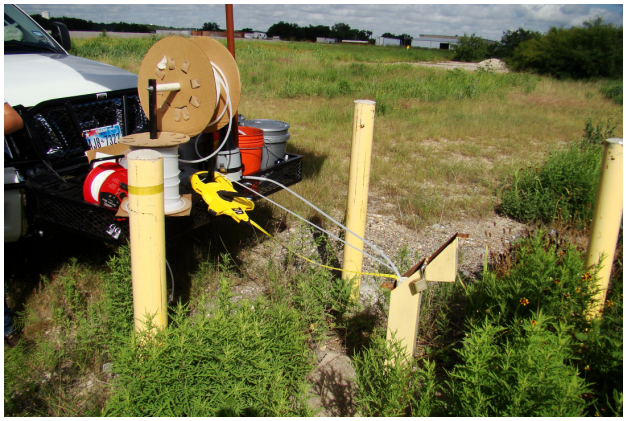


Photo #14
Date: June 11, 2013
Description: Looking southwest at MW-27-90 Low-Flow Sampling on the Central Property.

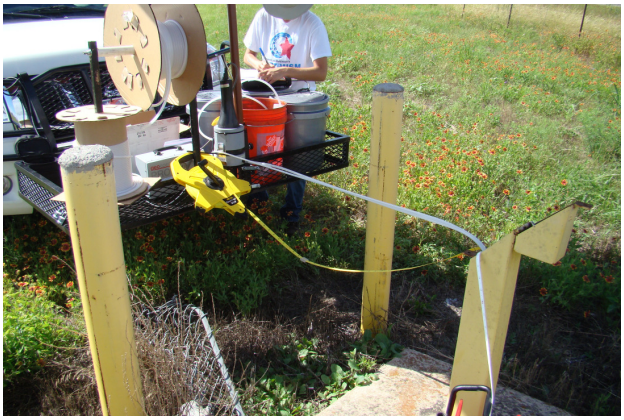


Photo #15
Date: June 11, 2013
Description: Looking south at MW-33-90 Low-Flow Sampling on the Central Property.

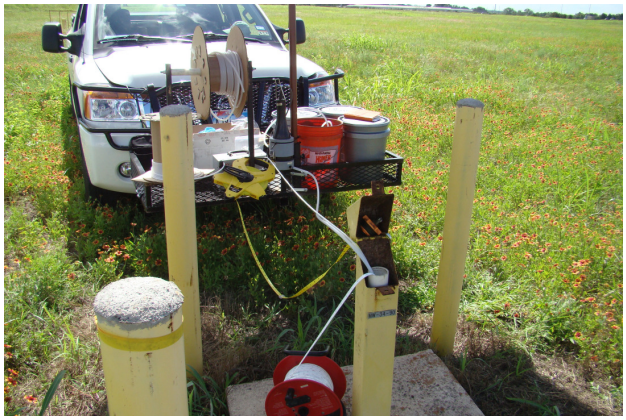


Photo #16
Date: June 11, 2013
Description: Looking south at MW-34-90 low-flow sampling on the Central Property.

Photo #17
Date June 11, 2013
Description: Looking south at MW-35-90 Low-Flow Sampling on the North Property.

Photo #18
Date: June 11, 2013
Description: Looking southwest at MW-38-90 Low-Flow Sampling on the North Property.

Photo #19
Date: March 5, 2013
Description: Looking east at MW-17 Low-Flow Sampling on the Central Property.

Photo #20
Date: December 28, 2012
Description: Looking west at MW-30-90 Low-Flow Sampling on the Central Property.

Photo #21
Date: March 5, 2013
Description: Looking southeast at MW-37-90 Low-Flow Sampling on the North Property.

Appendix 2

Data Review and Validation Memoranda and Laboratory Analytical Reports

Texas Commission on Environmental Quality

Remediation Division Correspondence Identification Form

SITE & PROGRAM AREA IDENTIFICATION

SITE LOCATION				REMEDIATION DIVISION PROGRAM AND FACILITY IDENTIFICATION	
Site Name:	Rockwool Industries, Inc.			Is This Site Being Managed Under A State Lead Contract? ☐ Yes ☑ No	
Address 1:	1741 Taylors Valley Road			Program Area:	SUPERFUND
Address 2:				Mail Code:	MC-136
City:	Belton	State:	Texas	Is This A New Site To This Program Area? ☐ Yes ☑ No	
Zip Code:	76513	County:	Bell	PROGRAM ID No.:	SUP033
TCEQ Region:	Region 9 - Waco			--Leave This Field Blank--	--Leave This Field Blank--

DOCUMENT(S) IDENTIFICATION

PHASE OF REMEDIATION	DOCUMENT NAME
POST-CLOSURE CARE	DATA USABILITY SUMMARY (DUS)

CONTACT INFORMATION

RESPONSIBLE PARTY/APPLICANT/CUSTOMER

ame:	Attn: Marilyn Long						
mpany:	TCEQ, Superfund Section	Phone Number:	(512) 239-0761		Fax Number:	(512) 239-2346	
ldress 1:	MC-136	City:	Austin	State: TX		Zip Code:	78711
ldress 2:	Box 13087	Email Address:	Marilyn.Long@tceq.texas.gov				

ENVIRONMENTAL CONSULTANT/REPORT PREPARER/AGENT

me:	William Gamblin, P.E.						
mpany:	DBS&A, Inc.	Phone Number:	512.821.2765		Fax Number:	512.821.2724	
dress 1:	4030 W. Braker Lane	City:	Austin	State: TX		Zip Code:	78759
dress 2:	Suite 325	Email Address:	wgamblin@dbstephens.com				

W Gamblin, P.E.

TCEQ INTERNAL USE ONLY

cument No.	TCEQ Database Term	Document No.	TCEQ Database Term
1.		4.	
2.		5.	
3.			

Data Usability Summary
for
Rockwool Industries, Inc.
Federal Superfund Site
1741 Taylors Valley Road
Belton, Bell County, Texas

Prepared for

Texas Commission on Environmental Quality

January 23, 2013

Contract No.
582-10-91051
Work Order No.
248-0071

Submitted By:

William Gamblin, P.E.

William Gamblin, P.E.
Project Manager

Daniel B. Stephens & Associates, Inc.

4030 W. Braker Lane, Suite 325, Austin, Texas 78759

DATA USABILITY SUMMARY
FOR
ROCKWOOL INDUSTRIES, INC.

FEDERAL SUPERFUND SITE

1741 TAYLORS VALLEY ROAD

BELTON, BELL COUNTY, TEXAS

DECEMBER 2012

Prepared by:

Nancy K. Toole
ECS Environmental Chemistry Services
PO Box 79782
Houston, Texas

Under Subcontract to:

Daniel B. Stephens & Associates, Inc.
4030 W. Braker Road, Suite 325
Austin, TX 78759
(512) 821-2765

January 14, 2013

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APPENDICES

Appendix A Qualified TRRP Report

Appendix B NELAP Laboratory Certificate

1. NELAC/TLAP LABORATORY ACCREDITATION CERTIFICATION STATEMENT

Daniel B. Stephens & Associates, Inc. (DB Stephens) certifies that at the time the laboratory data were generated for the project, DHL Analytical ((DHL) was NELAC accredited under the Texas Laboratory Accreditation Program (TLAP) for the matrices, analytes, and parameters of analysis requested on the chain-of-custody form.

This sampling event was conducted during December 2012. This sampling event includes data package 1212276. The qualified TRRP Report is presented in Appendix A. A copy of the DHL NELAP accreditation certificate is presented in Appendix B.

2. INTRODUCTION

This Data Usability Summary (DUS) contains the results of the data review conducted by ECS Environmental Chemistry Services (ECS) for samples collected from the Rockwool Industries Federal Superfund Site in Belton, Bell County, Texas. This report covers a sampling event that was conducted during December 2012. DHL located in Round Rock, Texas analyzed the samples for the parameters listed in Table 2-1. Field quality control samples are identified in Table 2-2. The independent data review covered by this DUS includes the following three levels of review:

Laboratory Data Package Review – an evaluation of sample-specific criteria specified in Section 3 of this DUS.

Laboratory Review Checklist Review - an evaluation of the laboratory performance criteria specified in Section 4 of this DUS.

Data Validation – an evaluation of raw data to confirm the accuracy of calculation, data transcription, and instrument performance as specified in Section 5 of this DUS.

The results of the first level of review are covered for each analytical method in Section 6 of this report.

The results of the second and third levels of review are covered for each analytical method in Section 7 of this report. Validation included a review of the supporting data, recalculation of results from raw data, and checks for transcription errors on 10% of the data.

The result of the data review process is the qualified data presented in Appendix A. The data were qualified using the qualifiers and bias codes presented in Tables D-2 and Table D-3 of the Texas Commission on Environmental Quality (TCEQ) Quality Assurance Project Plan (QAPP) for the Federal Superfund Program (Revision 8.0, QTRAK#11-483).

Table 2-1
Rockwool Industries
Belton, Bell County, Texas
Sample Summary

SDG	LAB SAMPLE ID	FIELD SAMPLE ID	DATE COLL.	MATRIX	PARAMETER
1212276	1212276-01	MW-7	12/27/12	Aqueous	MET
	1212276-02	MW-9	12/26/12	Aqueous	MET
	1212276-03	MW-10	12/26/12	Aqueous	MET
	1212276-04	MW-11	12/26/12	Aqueous	MET
	1212276-05	MW-14	12/26/12	Aqueous	MET
	1212276-06	MW-17	12/26/12	Aqueous	MET
	1212276-07	MW-19	12/27/12	Aqueous	MET
	1212276-08	MW-24-90	12/27/12	Aqueous	MET
	1212276-09	MW-27-90	12/28/12	Aqueous	MET
	1212276-10	MW-28-90	12/28/12	Aqueous	MET
	1212276-11	MW-29-90	12/27/12	Aqueous	MET
	1212276-12	MW-30-90	12/28/12	Aqueous	MET
	1212276-13	MW-33-90	12/26/12	Aqueous	MET
	1212276-14	MW-34-90	12/26/12	Aqueous	MET
	1212276-15	DUP-1	12/27/12	Aqueous	MET
	1212276-16	DUP-2	12/26/12	Aqueous	MET
	1212276-17	ER-1	12/26/12	Aqueous	MET
	1212276-18	ER-2	12/27/12	Aqueous	MET
	1212276-19	MW-20	12/27/12	Aqueous	MET
	1212276-20	MW-21	12/27/12	Aqueous	MET
	1212276-21	MW-22	12/27/12	Aqueous	MET
	1212276-22	MW-35-90	12/28/12	Aqueous	MET
	1212276-23	MW-37-90	12/27/12	Aqueous	MET
	1212276-24	MW-38-90	12/27/12	Aqueous	MET

MET= antimony, arsenic, and lead by USEPA Method 6020A

Table 2-2
Rockwool Industries
Belton, Bell County, Texas
Field Quality Control Sample Summary

SDG	LAB SAMPLE ID	FIELD SAMPLE ID	FIELD QC SAMPLE TYPE	ASSOCIATED SAMPLES
1212276	1212276-15	DUP-1	Field Duplicate	1212276-20
	1212276-16	DUP-2	Field Duplicate	1212276-14
	1212276-17	ER-1	Equipment Blank	1212276-02-06, 13, 14, 16
	1212276-18	ER-2	Equipment Blank	1212276-01, 07-12, 15, 19-24
	1212276-20	MW-21	MS/MSD	1212276-20
	1212276-21	MW-22	MS/MSD	1212276-21

3. DATA REVIEW CRITERIA

The laboratory data package review covers a review of the sample-specific items for the TCEQ QAPP criteria listed below.

METHOD	SAMPLE-SPECIFIC REVIEW ITEM	EVALUATION CRITERIA
Metals/ 6020A	Holding Time/Preservation Requirements	Table B2-1
	Blanks	Table B5.1.15 or 16-3
	Laboratory Control Sample	Table D-1
	Laboratory Spike Sample	Table D-1
	Laboratory Duplicate Sample	Table D-1
	Field Duplicate	Section D.2.1.2.2.1.6

The independent review of these items is covered in Section 6 of this DUS.

4. LABORATORY REVIEW CHECKLIST REVIEW CRITERIA

The Laboratory Review Checklist (LRC) review covers a review of the laboratory performance items for the TCEQ QAPP evaluation criteria listed below.

METHOD	LAB PERFORMANCE REVIEW ITEM	EVALUATION CRITERIA
Metals/ 6020A	Instrument Performance	Table B5.1.16-3
	Initial Calibration	Table B5.1.16-3
	Initial and Continuing Calibration Verification	Table B5.1.16-3
	Internal Standard	Table B5.1.16-3
	Interference Check Standard	Section D.2.1.2.1.5
	Serial Dilution	Section D.2.1.2.1.6
	Post Digestion Spike	Section D.2.1.2.1.7
	Method of Standard Addition	Section D.2.1.2.1.8

Results not meeting the evaluation criteria were documented in the LRCs and ERs presented in the data package in Appendix A. The independent review of these items is covered in Section 7.0 of this DUS.

5. DATA VALIDATION CRITERIA

Data validation was performed on the following project analytical batches:

- Metal Batch 55369

Data validation was performed on 10% of the project analytical batches. Laboratory Quality Control Summary sheets were reviewed to confirm that QC problems were properly reported on the Laboratory Control Checklist (LRC). Raw data were checked for calculation and transcription errors. The independent data validation is covered in Section 6.0 of this DUS.

6. DATA REVIEW RESULTS

6.1 METALS

For metals data, the following items are reviewed in this section:

- Holding Time/Preservation Requirements;
- Blanks;
- Laboratory Control Sample;
- Matrix Spike Sample;
- Laboratory Duplicate Sample; and
- Field Duplicates.

The following sections specify the reasons for the data validation qualifiers that are presented in Appendix A.

6.1.1 Holding Time/Preservation Requirements

The maximum holding time from date of collection to date of preparation for metals in aqueous matrix samples is 180 days. The maximum holding time from date of preparation to date of analysis for metals in aqueous matrix samples is 180 days. These holding times were met for all of the samples in this data set. None of the metal data were qualified based on holding times.

6.1.2 Blanks

All associated blanks were free of all reported analytes in concentrations at or greater than the SDLs. None of the metal data were qualified based on blank data.

6.1.3 Laboratory Control Sample (LCS)

The LCS review criteria for metal data are as follows:

ACCURACY (%R)	PRECISION (RPD)
70%-130%	30%

One LCS was analyzed with each analytical batch. These criteria were met for all the samples in this data set. None of the metal data were qualified based on LCS data.

6.1.4 Matrix Spike Sample

The MS/MSD review criteria for metal data are as follows:

ACCURACY (%R)	PRECISION (RPD)
70%-130%	30%

One MS/MSD set was analyzed with every analytical batch. These criteria were met for all the MS/MSD in this data set. None of the metal data were qualified based on MS/MSD data.

6.1.5 Duplicate Sample

The duplicate sample review criteria for metal data when both the sample and duplicate concentrations are greater than 5 times the MQL are as follows:

PRECISION (RPD)
30%

One duplicate sample was analyzed with every analytical batch. These criteria were met for all the samples in this data set that had concentrations for the original and duplicate greater than 5 times the MQL. None of the metal data were qualified based on duplicate data.

6.1.6 Field Duplicates

For aqueous matrix samples, when both the original and duplicate result are greater than 5 times the method quantitation limit (MQL), the Relative Percent Differences (RPD) was equal to or less than 30%. For aqueous matrix samples, when one or both of the original and duplicate results are less than 5 times the MQL, the results agree within 2 times the greater SDL. The results of this evaluation of all detected results are shown in the following table:

SDG	FIELD DUP ID	ANALYTE	ORIGINAL RESULT	DUPLICATE RESULT	QC RESULT	CRITERIA
1212276	1212276-15/20	Antimony	0.304	0.371	RPD:20%	<=30%
		Arsenic	0.00293	0.00327	DIF:0.00034	0.004
		Lead	0.000523	0.000354	DIF:0.000169	<=0.0006
	1212276-04/06	Antimony	0.310	0.304	RPD:2%	<=30%
		Arsenic	0.352	0.340	RPD:3%	<=30%

None of the metal data were qualified based on field duplicate data because data review criteria were met.

7. DATA VALIDATION RESULTS

The laboratory used for this project appears to have an adequate QA system in place that is designed to ensure the accurate reporting of analytical results generated. All instances in which the analytical QC results fell outside the acceptance criteria were fully and correctly reported in the associated Laboratory Review Checklists.

The following subsections contain a review of the supporting data using the criteria specified in Section 4.

7.1 ICP/MS METALS

For ICP/MS metal data, the following items are reviewed in this section:

- Instrument Performance;
- Initial Calibration;
- Initial and Continuing Calibration Verification;
- Internal Standard;
- Interference Check Sample;
- Serial Dilution, Post Digestion Spike, Method of Standard Addition;

The following sections specify the reasons for the data validation qualifiers that are presented in Appendix A.

7.1.1 Instrument Performance

Instrument performance checks were performed at the proper frequency and met the criteria specified in the Table B5.1.16-3 of the TCEQ QAPP. None of the ICP/MS metal data were qualified based on instrument performance.

7.1.2 Initial Calibration

Initial Calibrations were performed daily prior to sample analysis. None of the ICP/MS metal data were qualified based on initial calibration data.

7.1.3 Initial and Continuing Calibration Verification

Initial Calibration Verifications (ICV) were conducted daily after the initial calibration. Continuing calibration verifications (CCV) were conducted before the first sample run, after every 10 samples, and at the end of the analytical sequence. Initial and Continuing Calibrations Verification were within 10% of the expected value. None of the ICP metal data were qualified based on ICV or CCV data.

7.1.4 Internal Standards

Internal standards were added to all ICP/MS samples and quality control samples associated with this report. Internal standard intensities were within 30% to 120% of the intensity of the internal standard in the initial calibration standard. These criteria were met for all the samples in this data set. None of the ICP/MS data were qualified based on Internal Standard data.

7.1.5 Interference Check Solution

All of the Interference Check Solutions (ICS) were conducted at the beginning of an analytical run or once during a 12-hour period, whichever was more frequent. All ICS were within 20% of the true value. None of the ICP metal data were qualified based on ICS data.

7.1.6 Serial Dilution, Post Digestion Spike, Method of Standard Additions

The serial dilution, post digestion spike, and Method of Standard Additions (MSA) were performed, if needed, at the proper frequency and met the requirements set forth in Sections D.2.1.2.1.6, D.2.1.2.1.7, and D.2.1.2.1.8 of the QAPP, respectively. None of the metal data were qualified based on these QC items.

8. OVERALL ASSESSMENT DATA USABILITY RELATIVE TO PROJECT OBJECTIVES

The data covered by this report are acceptable for use in meeting project objectives specified in the Field Sampling Plan for this project as qualified based on the following data quality assurance objectives:

Accuracy is defined as the degree of agreement between a measurement in a quality control sample and an accepted reference or true value. Accuracy is measured as the percent recovery of an analyte as measured through analysis of Laboratory Control Samples (LCS) and Matrix Spike/ Matrix Spike Duplicates (MS/MSD). Since 100% of the LCS and MS/MSD samples were within the applicable acceptance ranges, the overall level of accuracy is considered acceptable

Precision is defined as the agreement between a set of replicate measurements without knowledge of a true value. Precision is measured by the analysis of laboratory and field duplicates. Since 100% of the field and laboratory duplicate results were within applicable acceptance ranges, the overall level of precision is considered acceptable.

Completeness is measured as the ratio of the number of valid analytical results to the total number of analytical results requested. The completeness criteria of 95% for aqueous samples were met. The overall completeness of 100% is considered acceptable.

Representativeness, as measured by comparing the results obtained for the field duplicate pairs, use of sampling procedures contained in the QAPP, and relevant SOPs, is considered acceptable.

9. DATA USABILITY RELATIVE TO PROJECT OBJECTIVES

The overall objective of operations and maintenance phase of the project are to perform long-term monitoring and operations and maintenance (O&M) activities, in the form of semi-annual groundwater monitoring and other maintenance tasks, as required in support of the ROD for the Site.

9.1 EVALUATION OF SAMPLE DETECTION LIMITS AND METHOD QUANTITATION LIMITS RELATIVE TO THE ACTION LEVELS

Sample Detection Limits (SDLs) are the method detection limits for an analyte adjusted for dilutions and sample size. The maximum SDL for the chemicals of concern with a non-detect result were all below the Protective Concentration Limits (PCLs) specified by D. B. Stephens for the COC as shown below:

TARGET COC	MAXIMUM SDL (mg/kg)	Level of Required Performance (LORP) (mg/l)
Antimony	0.00080	0.006
Arsenic	0.00200	0.010
Lead (inorganic)	0.00030	0.005

9.2 POTENTIAL EFFECTS OF BIASES AND IMPRECISION ON USABILITY OF THE DATA

None of the metals data were qualified based on this data review and validation.

10. POTENTIAL ADDITIONAL USES AND LIMITATIONS

Other potential data uses have not been identified for this data.

11. CORRECTIVE ACTIONS AND WORKPLAN DEVIATIONS

In order to obtain usable matrix spike/matrix spike duplicate (MS/MSD) QC data to evaluate potential sample matrix interferences, the following corrective action is documented to the field team:

For future sampling events, DBS&A must ensure that a project-specific sample is designated as the MS/MSD sample on the chain-of-custody form, as specified in Element B.5.4.2 of the Federal Superfund Program QAPP and in the TCEQ Superfund Program SOP No. 6.5 (Collection of QA/QC Samples). Additionally, the field team will ensure that sufficient sample volume is collected for the laboratory to perform the MS/MSD QC sample analysis on this project-specific sample. This was done for the December 2012 event.

12. REJECTED DATA AND PROJECT CONSEQUENCES

None of the results associated with this project were rejected based on this data review.

13. CONCLUSIONS

The chemical data covered by this Data Usability Report are considered usable for meeting the project objectives with the qualifications presented in this report.

APPENDIX A

QUALIFIED TRRP REPORTS

Table A-1
Data Qualifier Definitions

Qualifier	Definitions
U	The analyte was analyzed for but was not detected above the sample quantitation limit (SDL). The associated value presented in the tables is the method quantitation limit. The sample quantitation limit is not provided in the tables however, the SDL may be found in the analytical laboratory report.
J	The associated value is an estimated quantity.
UJ	The material was analyzed for but was not detected above the reported sample quantitation limit. The associated value is an estimate and may be inaccurate or imprecise.
N	Tentatively identified; The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	Tentatively identified, reported concentration is estimated: The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents the analyte's approximate concentration.
R	Rejected: The data are unusable. (Note: The presence or absence of the analyte cannot be confirmed.)
X1	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, and is accredited or periodically inspected at least every 3 years by TCEQ.
X2	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is located outside of Texas, and is accredited or periodically inspected by that state.
X3	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is inspected at least every 3 years by the TCEQ, and the work is performed for another company with a unit located on the same site as the laboratory.
X4	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is inspected at least every 3 years by the TCEQ, and the work is performed without compensation for a governmental agency or a charitable organization.

Qualifier	Definitions
X5	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The laboratory is accredited under federal law, including certification by the USEPA to provide these data for decisions related to the Safe Drinking Water Act.
X6	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The laboratory provides these data necessary for emergency response activities and the required analytical data are not available from a laboratory accredited under the Texas Laboratory Accreditation Program.
X7	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The TCEQ does not offer accreditation for this analyte, in this matrix, analyzed by this method.
X8	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The TCEQ does offers accreditation for this analyte, in this matrix, analyzed by this method, but the laboratory is not accredited for this analyte in this matrix by this method. The analyte result is validated and reported as part of a suite of analytes for the method.
X9	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The analyte result was generated prior to July 1, 2008.

Table A-2
Data Validation Qualifier Codes

Qualifier Code	Data Quality Condition Resulting In Assigned Qualification
General Use	
FB	Field blank contamination
FD	Field duplicate evaluation criteria not met
HT	Holding time requirement was not met
LCS	Laboratory control sample evaluation criteria not met
MB	Method blank or preparation blank contamination
RB	Rinsate blank contamination
MQL	Sample quantitation limit exceeds decision criteria (for nondetected
Inorganic Methods	
CCB	Continuing calibration blank contamination
CCV	Continuing calibration verification evaluation criteria not met
D	Laboratory duplicate precision evaluation criteria not met
DL	Serial dilution results did not meet evaluation criteria
ICS	Interference check sample evaluation criteria not met
ICV	Initial calibration verification evaluation criteria not met
MS	Matrix spike recovery outside acceptance range
PDS	Post-digestion spike recovery outside acceptance range
MSA	Method of standard additions correlation coefficient <0.995
PB	Preparation Blank
Organic Methods	
CCAL	Continuing calibration evaluation criteria not met
ICAL	Initial calibration evaluation criteria not met
ID	Target compound identification criteria not met
IS	Internal standard evaluation criteria not met
MS/SD	Matrix spike/matrix spike duplicate accuracy and/or precision criteria not
SUR	Surrogate recovery outside acceptance range
TUNE	Instrument performance (tuning) criteria not met
P	Detected concentration difference between the primary and secondary
Bias Codes	
H	Bias in sample result likely to be high
I	Bias in sample result is indeterminate
L	Bias in sample result likely to be low

DHL ANALYTICAL

January 10, 2013

Paul Kirby
D. B. Stephens & Assoc, Inc.
4030 W Braker #325
Austin, Texas 78759
TEL: (512) 821-2765
FAX

Order No.: 1212276

RE: Rockwool Ind. Belton, TX

Dear Paul Kirby:

DHL Analytical, Inc. received 24 sample(s) on 12/28/2012 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-12-9

ACCREDITED IN ACCORDANCE WITH nelac

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DHL ANALYTICAL
2300 Double Creek Dr. ■ Round Rock, TX 78664
Phone (512) 388-8222 ■ FAX (512) 388-8229
Web: www.dhlanalytical.com
E-Mail: login@dhlanalytical.com

CLIENT: DBS+A
ADDRESS: 4030W. Braker Lane, Ste. 325, Austin, TX, 78759
PHONE: 512-821-2245 FAX/E-MAIL: wgamblin@dbstephens.com
DATA REPORTED TO: William Gamblin
ADDITIONAL REPORT COPIES TO:

DATE: 12-26-12
PO #: DHL WORK
PROJECT LOCATION OR NAME: Rockwool
CLENT PROJECT #: ES13.AIRS.11

Authorize 5% surcharge for TRRP Report? ☐ Yes ☐ No

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR O=OTHER
L=LIQUID SO=SOLID

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	PRESERVATION: HCl	HNO3	H2SO4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES
MW-7	01	12-27-12	0851	W	250 ml	1		X		X		
MW-9	02	12-26-12	1602	W	250 ml	1		X		X		
MW-10	03	12-26-12	1414	W	250 ml	1		X		X		
MW-11	04	12-26-12	1334	W	250 ml	1		X		X		
MW-14	05	12-26-12	1204	W	250 ml	1		X		X		
~~MW-16~~ FBS 12-27-12												
MW-17	06	12-26-12	1243	W	250 ml	1		X		X		
MW-19	07	12-27-12	1128	W	250 ml	1		X		X		
MW-24-90	08	12-27-12	1211	W	250ml	1		X		X		
MW-27-90	09	12-28-12	0809	W	250ml	1		X		X		
MW-28-90	10	12-28-12	0755	W	250 ml	1		X		X		
MW-29-90	11	12-27-12	0959	W	250ml	1		X		X		
MW-30-90	12	12-28-12	0816	W	250 ml	1		X		X		
MW-33-90	13	12-26-12	1645	W	250 ml	1		X		X		
MW-34-90	14	12-26-12	1501	W	250 ml	1		X		X		
TOTAL						14						

ANALYSES: BTEX ☐ MTBE ☐ (METHOD 8021) TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐ GRO (METHOD 8015) ☐ DRO (METHOD 8105) ☐ VOC 8260 ☐ VOC 624 ☐ VOC 8260/5035 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLD PAH ☐ SVOC 625 ☐ 8081 PEST ☐ 608 PEST/PCB ☐ 8270 PEST ☐ 8270 O-P PEST ☐ 8082 PCB ☐ 8270 PCB ☐ 8321 HERB ☐ 8330 EXPL ☐ PERCHLORATE ☐ METALS 6020 ☐ METALS 200.8 ☐ DISS. METALS ☐ RCRA ☐ TX11 ☐ PH ☐ HEX CHROM ☐ ALKALI CHLORIDE ☐ ANIONS ☐ TCLP-5VOC ☐ TCLP-ME

RELINQUISHED BY: (Signature) DATE/TIME 12-28-12/1103 RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ _____

LABORATORY U
RECEIVING TEMP
CUSTODY SEALS:
☐ CARRIER BILL
☐ APC DELIVERY
☐ HAND DELIVE

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ADDRESS: 4030 W Braker Lane, Ste. 325, Austin, TX 78759
PHONE: 512-821-2765 FAX/E-MAIL:
DATA REPORTED TO: William Gamblin
ADDITIONAL REPORT COPIES TO:

DATE: 12-26-12
PO #: DHL WORK
PROJECT LOCATION OR NAME: Rockwool
CLENT PROJECT #: E513. AIRS, II

Authorize 5% surcharge for TRRP Report? ☐ Yes ☐ No

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR O=OTHER
L=LIQUID SO=SOLID

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES: BTEX ☐ MTBE ☐ (METHOD 8021)	TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐	GRO (METHOD 8015) ☐ DRO (METHOD 8105) ☐	VOC 8260 ☐ VOC 624 ☐ VOC 8260/5035 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLD PAH ☐ SVOC 625 ☐	8081 PEST ☐ 608 PEST/PCB ☐ 8270 PEST ☐	8270 O-P PEST ☐ 8082 PCB ☐ 8270 PCB ☐	8321 HERB ☐ 8330 EXPL ☐ PERCHLORATE ☐	METALS 6020 ☐ METALS 200.8 ☐ DISS. METAL	RCRA ☐ TX11 ☐	PH ☐ HEX CHROM ☐ ANION	CHLORIDE ☐ ALKALI	TCLP SVOC ☐	TCLP-MF
DUP-1	15	12-27-12	1445	W	250 ml	1		X		X									X					
DUP-2	16	12-26-12	1521	W	250 ml	1		X		X									X					
ER-1	17	12-26-12	1707	W	250 ml	1		X		X									X					
ER-2	18	12-27-12	1710	W	250 ml	1		X		X									X					
~~MW-15 BS~~	12-27-12																							
MW-20	19	12-27-12	1332	W	250ml	1		X		X									X					
MW-21	20	12-27-12	1510	W	250ml	~~2~~ 3		X		X									X					
MW-22	21	12-27-12	1427	W	250ml	1		X		X									X					
MW-35-90	22	12-28-12	0905	W	250ml	1		X		X									X					
MW-37-90	23	12-27-12	1625	W	250ml	1		X		X									X					
MW-38-90	24	12-27-12	1553	W	250 ml	1		X		X									X					
TOTAL						12																		

RELINQUISHED BY: (Signature) DATE/TIME 12-28-12/1103 RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL X
OTHER ☐ _____

LABORATORY U
RECEIVING TEMP
CUSTODY SEALS
☐ CARRIER BILL
☐ APC DELIVERY
☐ HAND DELIVE

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name D. B. Stephens & Assoc, Inc. Date Received: 12/28/2012

Work Order Number 1212276 Received by JB

Checklist completed by: _____ 12/28/2012 Reviewed by DL 12/28/2012
Signature Date Initials Date

Carrier name: Hand Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☑	No ☐	Not Present ☐
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 ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	3.5 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Adjusted? NO Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: Rockwool Ind. Belton, TX	**Date:** 1/10/2013
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1212276
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-Custody (C-O-C)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?			X		
		2) Were analytical duplicates analyzed at the appropriate frequency?			X		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: Rockwool Ind. Belton, TX	**Date:** 1/10/2013
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1212276

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	\				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	\				
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			\		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	\				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5,
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) The amount of analyte measured in the duplicate,
  - b) The calculated RPD, and
  - c) The laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on May 17-20, 2011. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager

Scott Schroeder – Technical Director

Signature

01/10/13

Date

DHL Analytical, Inc. **Date:** *10-Jan-13*

CLIENT: D. B. Stephens & Assoc, Inc.
Project: Rockwool Ind. Belton, TX
Lab Order: 1212276

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis

Exception Report R1-01

The sample was received and log-in performed on 12/28/2012. A total of 24 sample were received and analyzed The samples arrived in good condition and were properly packaged.

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT: D. B. Stephens & Assoc, Inc.
Project: Rockwool Ind. Belton, TX
Lab Order: 1212276

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1212276-01	MW-7		12/27/12 08:51 AM	12/28/2012
1212276-02	MW-9		12/26/12 04:02 PM	12/28/2012
1212276-03	MW-10		12/26/12 02:14 PM	12/28/2012
1212276-04	MW-11		12/26/12 01:34 PM	12/28/2012
1212276-05	MW-14		12/26/12 12:04 PM	12/28/2012
1212276-06	MW-17		12/26/12 12:43 PM	12/28/2012
1212276-07	MW-19		12/27/12 11:28 AM	12/28/2012
1212276-08	MW-24-90		12/27/12 12:11 PM	12/28/2012
1212276-09	MW-27-90		12/28/12 08:09 AM	12/28/2012
1212276-10	MW-28-90		12/28/12 07:55 AM	12/28/2012
1212276-11	MW-29-90		12/27/12 09:39 AM	12/28/2012
1212276-12	MW-30-90		12/28/12 08:16 AM	12/28/2012
1212276-13	MW-33-90		12/26/12 04:45 PM	12/28/2012
1212276-14	MW-34-90		12/26/12 03:01 PM	12/28/2012
1212276-15	DUP-1		12/27/12 02:45 PM	12/28/2012
1212276-16	DUP-2		12/26/12 03:21 PM	12/28/2012
1212276-17	ER-1		12/26/12 05:07 PM	12/28/2012
1212276-18	ER-2		12/27/12 05:10 PM	12/28/2012
1212276-19	MW-20		12/27/12 01:32 PM	12/28/2012
1212276-20	MW-21		12/27/12 03:10 PM	12/28/2012
1212276-21	MW-22		12/27/12 02:27 PM	12/28/2012
1212276-22	MW-35-90		12/28/12 09:05 AM	12/28/2012
1212276-23	MW-37-90		12/27/12 04:25 PM	12/28/2012
1212276-24	MW-38-90		12/27/12 03:53 PM	12/28/2012

Assoc, Inc.
lton, TX

PREP DATES REPORT

Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
12/27/12 08:51 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
12/26/12 04:02 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
12/26/12 02:14 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
12/26/12 01:34 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
12/26/12 12:04 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
12/26/12 12:43 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
12/27/12 11:28 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
12/27/12 12:11 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
12/28/12 08:09 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
12/28/12 07:55 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
12/27/12 09:39 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
12/28/12 08:16 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
12/26/12 04:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
12/26/12 03:01 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
12/27/12 02:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
12/26/12 03:21 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
12/26/12 05:07 PM	Equip Blank	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
12/27/12 05:10 PM	Equip Blank	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
12/27/12 01:32 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
12/27/12 03:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
12/27/12 02:27 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/08/13 09:10 AM	55427
12/28/12 09:05 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/08/13 09:10 AM	55427
12/27/12 04:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/08/13 09:10 AM	55427
12/27/12 03:53 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/08/13 09:10 AM	55427

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-7
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1212276-01
Project No:	ES13.AIRS.11.001.001	**Collection Date:**	12/27/12 08:51 AM
Lab Order:	1212276	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.00142	0.000800	0.00250	J	mg/L	1	01/03/13 12:40 AM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	01/03/13 12:40 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	01/03/13 12:40 AM

MKT
1-13-13

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-9
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1212276-02
Project No:	ES13.AIRS.11.001.001	**Collection Date:**	12/26/12 04:02 PM
Lab Order:	1212276	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.236	0.000800	0.00250		mg/L	1	01/03/13 12:46 AM
Arsenic	0.0807	0.00200	0.00500		mg/L	1	01/03/13 12:46 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	01/03/13 12:46 AM

MKT 1-13-13

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-10
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1212276-03
Project No:	ES13.AIRS.11.001.001	**Collection Date:**	12/26/12 02:14 PM
Lab Order:	1212276	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	01/03/13 12:51 AM
Arsenic	0.00244	0.00200	0.00500	J	mg/L	1	01/03/13 12:51 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	01/03/13 12:51 AM

MK 1-13-13

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-11
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1212276-04
Project No:	ES13.AIRS.11.001.001	**Collection Date:**	12/26/12 01:34 PM
Lab Order:	1212276	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	01/03/13 12:57 AM
Arsenic	0.00311	0.00200	0.00500	J	mg/L	1	01/03/13 12:57 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	01/03/13 12:57 AM

MK 1-13-13

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-14
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1212276-05
Project No:	ES13.AIRS.11.001.001	**Collection Date:**	12/26/12 12:04 PM
Lab Order:	1212276	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	01/03/13 01:02 AM
Arsenic	0.00209	0.00200	0.00500	J	mg/L	1	01/03/13 01:02 AM
Lead	0.000376	0.000300	0.00100	J	mg/L	1	01/03/13 01:02 AM

MK 1-13-13

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-17
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1212276-06
Project No:	ES13.AIRS.11.001.001	**Collection Date:**	12/26/12 12:43 PM
Lab Order:	1212276	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.0454	0.000800	0.00250		mg/L	1	01/03/13 01:08 AM
Arsenic	0.00730	0.00200	0.00500		mg/L	1	01/03/13 01:08 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	01/03/13 01:08 AM

AHC
1-13-13

Qualifiers:

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- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-19
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1212276-07
Project No:	ES13.AIRS.11.001.001	**Collection Date:**	12/27/12 11:28 AM
Lab Order:	1212276	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.00127	0.000800	0.00250	J	mg/L	1	01/03/13 01:14 AM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	01/03/13 01:14 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	01/03/13 01:14 AM

MK 1-13-13

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-24-90
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1212276-08
Project No:	ES13.AIRS.11.001.001	**Collection Date:**	12/27/12 12:11 PM
Lab Order:	1212276	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.00566	0.000800	0.00250		mg/L	1	01/03/13 01:19 AM
Arsenic	0.0104	0.00200	0.00500		mg/L	1	01/03/13 01:19 AM
Lead	0.000684	0.000300	0.00100	J	mg/L	1	01/03/13 01:19 AM

MK 1-13-13

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-27-90
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1212276-09
Project No:	ES13.AIRS.11.001.001	**Collection Date:**	12/28/12 08:09 AM
Lab Order:	1212276	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.0639	0.000800	0.00250		mg/L	1	01/03/13 01:25 AM
Arsenic	0.00218	0.00200	0.00500	J	mg/L	1	01/03/13 01:25 AM
Lead	0.000508	0.000300	0.00100	J	mg/L	1	01/03/13 01:25 AM

MK 1-13-13

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-28-90
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1212276-10
Project No:	ES13.AIRS.11.001.001	**Collection Date:**	12/28/12 07:55 AM
Lab Order:	1212276	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.0254	0.000800	0.00250		mg/L	1	01/03/13 02:37 AM
Arsenic	0.0496	0.00200	0.00500		mg/L	1	01/03/13 02:37 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	01/03/13 02:37 AM

MK1
1-13-13

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-29-90
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1212276-11
Project No:	ES13.AIRS.11.001.001	**Collection Date:**	12/27/12 09:39 AM
Lab Order:	1212276	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.00629	0.000800	0.00250		mg/L	1	01/03/13 02:42 AM
Arsenic	0.00790	0.00200	0.00500		mg/L	1	01/03/13 02:42 AM
Lead	0.000433	0.000300	0.00100	J	mg/L	1	01/03/13 02:42 AM

MK 1-13-13

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-30-90
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1212276-12
Project No:	ES13.AIRS.11.001.001	**Collection Date:**	12/28/12 08:16 AM
Lab Order:	1212276	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.00102	0.000800	0.00250	J	mg/L	1	01/03/13 02:48 AM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	01/03/13 02:48 AM
Lead	0.00107	0.000300	0.00100		mg/L	1	01/03/13 02:48 AM

MK 1-13-13

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-33-90
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1212276-13
Project No:	ES13.AIRS.11.001.001	**Collection Date:**	12/26/12 04:45 PM
Lab Order:	1212276	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.150	0.000800	0.00250		mg/L	1	01/03/13 02:53 AM
Arsenic	0.0283	0.00200	0.00500		mg/L	1	01/03/13 02:53 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	01/03/13 02:53 AM

mk 1-13-13

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-34-90
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1212276-14
Project No:	ES13.AIRS.11.001.001	**Collection Date:**	12/26/12 03:01 PM
Lab Order:	1212276	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.310	0.000800	0.00250		mg/L	1	01/03/13 02:59 AM
Arsenic	0.352	0.00200	0.00500		mg/L	1	01/03/13 02:59 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	01/03/13 02:59 AM

MK 1-13-13

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	DUP-1
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1212276-15
Project No:	ES13.AIRS.11.001.001	**Collection Date:**	12/27/12 02:45 PM
Lab Order:	1212276	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.304	0.000800	0.00250		mg/L	1	01/03/13 03:04 AM
Arsenic	0.00293	0.00200	0.00500	J	mg/L	1	01/03/13 03:04 AM
Lead	0.000523	0.000300	0.00100	J	mg/L	1	01/03/13 03:04 AM

MK 1-13-13

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	DUP-2
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1212276-16
Project No:	ES13.AIRS.11.001.001	**Collection Date:**	12/26/12 03:21 PM
Lab Order:	1212276	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.304	0.000800	0.00250		mg/L	1	01/03/13 03:10 AM
Arsenic	0.340	0.00200	0.00500		mg/L	1	01/03/13 03:10 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	01/03/13 03:10 AM

mk 1-13-13

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	ER-1
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1212276-17
Project No:	ES13.AIRS.11.001.001	**Collection Date:**	12/26/12 05:07 PM
Lab Order:	1212276	**Matrix:**	EQUIP BLANK

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	01/03/13 03:15 AM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	01/03/13 03:15 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	01/03/13 03:15 AM

NKT
1-13-13

Qualifiers:
- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	ER-2
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1212276-18
Project No:	ES13.AIRS.11.001.001	**Collection Date:**	12/27/12 05:10 PM
Lab Order:	1212276	**Matrix:**	EQUIP BLANK

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	01/03/13 03:21 AM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	01/03/13 03:21 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	01/03/13 03:21 AM

MKT
1-13-13

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-20
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1212276-19
Project No:	ES13.AIRS.11.001.001	**Collection Date:**	12/27/12 01:32 PM
Lab Order:	1212276	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.00180	0.000800	0.00250	J	mg/L	1	01/03/13 03:26 AM
Arsenic	0.00324	0.00200	0.00500	J	mg/L	1	01/03/13 03:26 AM
Lead	0.000316	0.000300	0.00100	J	mg/L	1	01/03/13 03:26 AM

MK 1-13-13

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-21
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1212276-20
Project No:	ES13.AIRS.11.001.001	**Collection Date:**	12/27/12 03:10 PM
Lab Order:	1212276	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.371	0.000800	0.00250		mg/L	1	01/03/13 12:29 AM
Arsenic	0.00327	0.00200	0.00500	J	mg/L	1	01/03/13 12:29 AM
Lead	0.000354	0.000300	0.00100	J	mg/L	1	01/03/13 12:29 AM

MK 1-13-13

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-22
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1212276-21
Project No:	ES13.AIRS.11.001.001	**Collection Date:**	12/27/12 02:27 PM
Lab Order:	1212276	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: AJR
Antimony	<0.000800	0.000800	0.00250		mg/L	1	01/09/13 02:08 PM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	01/09/13 02:08 PM
Lead	0.000629	0.000300	0.00100	J	mg/L	1	01/09/13 02:08 PM

MC 1-13-13

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-35-90
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1212276-22
Project No:	ES13.AIRS.11.001.001	**Collection Date:**	12/28/12 09:05 AM
Lab Order:	1212276	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **AJR**
Antimony	0.464	0.000800	0.00250		mg/L	1	01/09/13 02:26 PM
Arsenic	0.0867	0.00200	0.00500		mg/L	1	01/09/13 02:26 PM
Lead	0.0366	0.000300	0.00100		mg/L	1	01/09/13 02:26 PM

nlc1
1-13-13

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-37-90
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1212276-23
Project No:	ES13.AIRS.11.001.001	**Collection Date:**	12/27/12 04:25 PM
Lab Order:	1212276	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **AJR**
Antimony	0.000980	0.000800	0.00250	J	mg/L	1	01/09/13 02:32 PM
Arsenic	0.0602	0.00200	0.00500		mg/L	1	01/09/13 02:32 PM
Lead	0.000460	0.000300	0.00100	J	mg/L	1	01/09/13 02:32 PM

MC 1-13-13

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-38-90
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1212276-24
Project No:	ES13.AIRS.11.001.001	**Collection Date:**	12/27/12 03:53 PM
Lab Order:	1212276	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: AJR
Antimony	0.516	0.000800	0.00250		mg/L	1	01/09/13 02:38 PM
Arsenic	0.00344	0.00200	0.00500	J	mg/L	1	01/09/13 02:38 PM
Lead	0.00247	0.000300	0.00100		mg/L	1	01/09/13 02:38 PM

mlc 1-13-13

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1212276
Project: Rockwool Ind. Belton, TX

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_121204B

Sample ID: **DCS-54340-1.1 NUL** Batch ID: **54340** TestNo: **SW6020A** Units: **mg/L**
SampType: **DCS** Run ID: **ICP-MS2_121204B** Analysis Date: **12/4/2012 3:32:00 PM** Prep Date: **10/23/2012**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00121	0.00250	0.00100	0	121	60	140	0	0	
Arsenic	0.000959	0.00500	0.00100	0	95.9	60	140	0	0	
Lead	0.000885	0.00100	0.00100	0	88.5	60	140	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1212276
Project: Rockwool Ind. Belton, TX

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130109C

The QC data in batch 55427 applies to the following samples: 1212276-21A, 1212276-22A, 1212276-23A, 1212276-24A

Sample ID: **MB-55427** Batch ID: **55427** TestNo: **SW6020A** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS2_130109C** Analysis Date: **1/9/2013 1:33:00 PM** Prep Date: **1/8/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.000800	0.00250								
Arsenic	<0.00200	0.00500								
Lead	<0.000300	0.00100								

Sample ID: **LCS-55427** Batch ID: **55427** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCS** Run ID: **ICP-MS2_130109C** Analysis Date: **1/9/2013 1:50:00 PM** Prep Date: **1/8/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.183	0.00250	0.200	0	91.5	80	120			
Arsenic	0.194	0.00500	0.200	0	97.0	80	120			
Lead	0.0388	0.00100	0.0400	0	97.0	80	120			

Sample ID: **LCSD-55427** Batch ID: **55427** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCSD** Run ID: **ICP-MS2_130109C** Analysis Date: **1/9/2013 1:56:00 PM** Prep Date: **1/8/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.189	0.00250	0.200	0	94.4	80	120	3.17	15	
Arsenic	0.199	0.00500	0.200	0	99.6	80	120	2.59	15	
Lead	0.0398	0.00100	0.0400	0	99.4	80	120	2.44	15	

Sample ID: **1212276-21A SD** Batch ID: **55427** TestNo: **SW6020A** Units: **mg/L**
SampType: **SD** Run ID: **ICP-MS2_130109C** Analysis Date: **1/9/2013 2:14:00 PM** Prep Date: **1/8/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.00400	0.0125	0	0				0	10	
Arsenic	<0.0100	0.0250	0	0				0	10	
Lead	0.000606	0.00500	0	0.000629				3.81	10	

Sample ID: **1212276-21A PDS** Batch ID: **55427** TestNo: **SW6020A** Units: **mg/L**
SampType: **PDS** Run ID: **ICP-MS2_130109C** Analysis Date: **1/9/2013 2:43:00 PM** Prep Date: **1/8/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.192	0.00250	0.200	0	96.1	80	120			
Arsenic	0.188	0.00500	0.200	0	94.2	80	120			
Lead	0.198	0.00100	0.200	0.000629	98.8	80	120			

Sample ID: **1212276-21A MS** Batch ID: **55427** TestNo: **SW6020A** Units: **mg/L**
SampType: **MS** Run ID: **ICP-MS2_130109C** Analysis Date: **1/9/2013 2:49:00 PM** Prep Date: **1/8/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1212276
Project: Rockwool Ind. Belton, TX

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130109C

Sample ID: **1212276-21A MS**	Batch ID: **55427**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **MS**	Run ID: **ICP-MS2_130109C**	Analysis Date: **1/9/2013 2:49:00 PM**	Prep Date: **1/8/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.188	0.00250	0.200	0	94.1	80	120			
Arsenic	0.195	0.00500	0.200	0	97.6	80	120			
Lead	0.0406	0.00100	0.0400	0.000629	99.8	80	120			

Sample ID: **1212276-21A MSD**	Batch ID: **55427**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **MSD**	Run ID: **ICP-MS2_130109C**	Analysis Date: **1/9/2013 2:55:00 PM**	Prep Date: **1/8/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.188	0.00250	0.200	0	94.1	80	120	0	15	
Arsenic	0.195	0.00500	0.200	0	97.3	80	120	0.359	15	
Lead	0.0403	0.00100	0.0400	0.000629	99.2	80	120	0.618	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1212276
Project: Rockwool Ind. Belton, TX

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130109C

Sample ID: ICV1-130109	Batch ID: R64243	TestNo: SW6020A	Units: mg/L
SampType: ICV	Run ID: ICP-MS2_130109C	Analysis Date: 1/9/2013 1:03:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.0978	0.00250	0.100	0	97.8	90	110			
Arsenic	0.100	0.00500	0.100	0	100	90	110			
Lead	0.0995	0.00100	0.100	0	99.5	90	110			

Sample ID: ILCVL-130109	Batch ID: R64243	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS2_130109C	Analysis Date: 1/9/2013 1:21:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00203	0.00250	0.00200	0	102	70	130			
Arsenic	0.00553	0.00500	0.00500	0	111	70	130			
Lead	0.00106	0.00100	0.00100	0	106	70	130			

Sample ID: CCV1-130109	Batch ID: R64243	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS2_130109C	Analysis Date: 1/9/2013 3:07:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.197	0.00250	0.200	0	98.7	90	110			
Arsenic	0.214	0.00500	0.200	0	107	90	110			
Lead	0.0415	0.00100	0.0400	0	104	90	110			

Sample ID: LCVL1-130109	Batch ID: R64243	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS2_130109C	Analysis Date: 1/9/2013 3:41:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00206	0.00250	0.00200	0	103	70	130			
Arsenic	0.00547	0.00500	0.00500	0	109	70	130			
Lead	0.00104	0.00100	0.00100	0	104	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1212276
Project: Rockwool Ind. Belton, TX

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130102A

Sample ID: DCS-54340-1.1	Batch ID: 54340	TestNo: SW6020A	Units: mg/L
SampType: DCS	Run ID: ICP-MS3_130102A	Analysis Date: 1/2/2013 12:41:00 PM	Prep Date: 10/23/2012

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00103	0.00250	0.00100	0	103	60	140	0	0	
Arsenic	0.000976	0.00500	0.00100	0	97.6	60	140	0	0	
Lead	0.00102	0.00100	0.00100	0	102	60	140	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1212276
Project: Rockwool Ind. Belton, TX

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130102B

The QC data in batch 55369 applies to the following samples: 1212276-01A, 1212276-02A, 1212276-03A, 1212276-04A, 1212276-05A, 1212276-06A, 1212276-07A, 1212276-08A, 1212276-09A, 1212276-10A, 1212276-11A, 1212276-12A, 1212276-13A, 1212276-14A, 1212276-15A, 1212276-16A, 1212276-17A, 1212276-18A, 1212276-19A, 1212276-20A

Sample ID: **MB-55369** Batch ID: **55369** TestNo: **SW6020A** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS3_130102B** Analysis Date: **1/3/2013 12:07:00 AM** Prep Date: **1/2/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.000800	0.00250								
Arsenic	<0.00200	0.00500								
Lead	<0.000300	0.00100								

Sample ID: **LCS-55369** Batch ID: **55369** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCS** Run ID: **ICP-MS3_130102B** Analysis Date: **1/3/2013 12:13:00 AM** Prep Date: **1/2/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.188	0.00250	0.200	0	94.2	80	120			
Arsenic	0.193	0.00500	0.200	0	96.7	80	120			
Lead	0.0394	0.00100	0.0400	0	98.4	80	120			

Sample ID: **LCSD-55369** Batch ID: **55369** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCSD** Run ID: **ICP-MS3_130102B** Analysis Date: **1/3/2013 12:18:00 AM** Prep Date: **1/2/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.178	0.00250	0.200	0	88.8	80	120	5.96	15	
Arsenic	0.186	0.00500	0.200	0	92.9	80	120	4.01	15	
Lead	0.0364	0.00100	0.0400	0	91.0	80	120	7.84	15	

Sample ID: **1212276-20A SD** Batch ID: **55369** TestNo: **SW6020A** Units: **mg/L**
SampType: **SD** Run ID: **ICP-MS3_130102B** Analysis Date: **1/3/2013 12:35:00 AM** Prep Date: **1/2/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.379	0.0125	0	0.371				2.03	10	
Arsenic	<0.0100	0.0250	0	0.00327				0	10	
Lead	<0.00150	0.00500	0	0.000354				0	10	

Sample ID: **1212276-20A PDS** Batch ID: **55369** TestNo: **SW6020A** Units: **mg/L**
SampType: **PDS** Run ID: **ICP-MS3_130102B** Analysis Date: **1/3/2013 1:30:00 AM** Prep Date: **1/2/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.542	0.00250	0.200	0.371	85.3	80	120			
Arsenic	0.185	0.00500	0.200	0.00327	90.8	80	120			
Lead	0.188	0.00100	0.200	0.000354	94.0	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1212276
Project: Rockwool Ind. Belton, TX

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130102B

Sample ID: 1212276-20A MS	Batch ID: 55369	TestNo: SW6020A	Units: mg/L
SampType: MS	Run ID: ICP-MS3_130102B	Analysis Date: 1/3/2013 1:36:00 AM	Prep Date: 1/2/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.550	0.00250	0.200	0.371	89.6	80	120			
Arsenic	0.196	0.00500	0.200	0.00327	96.2	80	120			
Lead	0.0390	0.00100	0.0400	0.000354	96.5	80	120			

Sample ID: 1212276-20A MSD	Batch ID: 55369	TestNo: SW6020A	Units: mg/L
SampType: MSD	Run ID: ICP-MS3_130102B	Analysis Date: 1/3/2013 1:41:00 AM	Prep Date: 1/2/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.550	0.00250	0.200	0.371	89.2	80	120	0.109	15	
Arsenic	0.194	0.00500	0.200	0.00327	95.6	80	120	0.615	15	
Lead	0.0384	0.00100	0.0400	0.000354	95.1	80	120	1.45	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1212276
Project: Rockwool Ind. Belton, TX

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130102B

Sample ID: ICV1-130102	Batch ID: R64168	TestNo: SW6020A	Units: mg/L
SampType: ICV	Run ID: ICP-MS3_130102B	Analysis Date: 1/2/2013 12:07:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.0947	0.00250	0.100	0	94.7	90	110			
Arsenic	0.0983	0.00500	0.100	0	98.3	90	110			
Lead	0.0964	0.00100	0.100	0	96.4	90	110			

Sample ID: ILCVL-130102	Batch ID: R64168	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130102B	Analysis Date: 1/2/2013 12:24:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00201	0.00250	0.00200	0	100	70	130			
Arsenic	0.00544	0.00500	0.00500	0	109	70	130			
Lead	0.00113	0.00100	0.00100	0	113	70	130			

Sample ID: CCV6-130102	Batch ID: R64168	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS3_130102B	Analysis Date: 1/2/2013 11:17:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.195	0.00250	0.200	0	97.4	90	110			
Arsenic	0.200	0.00500	0.200	0	100	90	110			
Lead	0.197	0.00100	0.200	0	98.4	90	110			

Sample ID: LCVL6-130102	Batch ID: R64168	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130102B	Analysis Date: 1/2/2013 11:45:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00216	0.00250	0.00200	0	108	70	130			
Arsenic	0.00527	0.00500	0.00500	0	105	70	130			
Lead	0.00106	0.00100	0.00100	0	106	70	130			

Sample ID: CCV7-130102	Batch ID: R64168	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS3_130102B	Analysis Date: 1/3/2013 1:47:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.194	0.00250	0.200	0	97.2	90	110			
Arsenic	0.198	0.00500	0.200	0	98.9	90	110			
Lead	0.198	0.00100	0.200	0	98.8	90	110			

Sample ID: LCVL7-130102	Batch ID: R64168	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130102B	Analysis Date: 1/3/2013 2:20:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00215	0.00250	0.00200	0	108	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1212276
Project: Rockwool Ind. Belton, TX

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130102B

Sample ID: LCVL7-130102	Batch ID: R64168	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130102B	Analysis Date: 1/3/2013 2:20:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00518	0.00500	0.00500	0	104	70	130			
Lead	0.00104	0.00100	0.00100	0	104	70	130			

Sample ID: CCV8-130102	Batch ID: R64168	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS3_130102B	Analysis Date: 1/3/2013 3:32:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.196	0.00250	0.200	0	97.9	90	110			
Arsenic	0.204	0.00500	0.200	0	102	90	110			
Lead	0.198	0.00100	0.200	0	99.1	90	110			

Sample ID: LCVL8-130102	Batch ID: R64168	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130102B	Analysis Date: 1/3/2013 4:00:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00206	0.00250	0.00200	0	103	70	130			
Arsenic	0.00520	0.00500	0.00500	0	104	70	130			
Lead	0.00102	0.00100	0.00100	0	102	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

DHL Analytical, Inc.

Date: *10-Jan-13*

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1212276
Project: Rockwool Ind. Belton, TX

MQL SUMMARY REPORT

TestNo: SW6020A	MDL	MQL
Analyte	**mg/L**	**mg/L**
Antimony	0.000800	0.00250
Arsenic	0.00200	0.00500
Lead	0.000300	0.00100

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

APPENDIX B

LABORATORY NELAP CERTIFICATE

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

DHL Analytical, Inc.

2300 Double Creek Drive
Round Rock, TX 78664-3801

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Certificate Number: T104704211-12-8
Effective Date: 5/1/2012
Expiration Date: 4/30/2013

Executive Director Texas Commission on Environmental Quality

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate:	T104704211-12-8
Expiration Date:	4/30/2013
Issue Date:	5/1/2012

DHL Analytical, Inc.

2300 Double Creek Drive
Round Rock, TX 78664-3801

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Non-Potable Water***

Method	Analyte	AB	Analyte ID	Method ID
EPA 1010	Ignitability	TX	1780	10116606
EPA 120.1	Conductivity	TX	1610	10006403
EPA 1311	TCLP	TX	849	10118806
EPA 1312	SPLP	TX	850	10119003
EPA 150.1	pH	TX	1900	10008409
EPA 160.1	Residue-filterable (TDS)	TX	1955	10009208
EPA 160.2	Residue-nonfilterable (TSS)	TX	1960	10009606
EPA 1664	n-Hexane Extractable Material (HEM) (O&G)	TX	1803	10127807
EPA 180.1	Turbidity	TX	2055	10011606
EPA 200.8	Aluminum	TX	1000	10014605
	Antimony	TX	1005	10014605
	Arsenic	TX	1010	10014605

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

DHL Analytical, Inc.
2300 Double Creek Drive
Round Rock, TX 78664-3801

Certificate: T104704211-12-8
Expiration Date: 4/30/2013
Issue Date: 5/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Non-Potable Water***

Barium	TX	1015	10014605
Beryllium	TX	1020	10014605
Boron	TX	1025	10014605
Cadmium	TX	1030	10014605
Calcium	TX	1035	10014605
Chromium	TX	1040	10014605
Cobalt	TX	1050	10014605
Copper	TX	1055	10014605
Iron	TX	1070	10014605
Lead	TX	1075	10014605
Magnesium	TX	1085	10014605
Manganese	TX	1090	10014605
Molybdenum	TX	1100	10014605
Nickel	TX	1105	10014605
Potassium	TX	1125	10014605
Selenium	TX	1140	10014605
Silver	TX	1150	10014605
Sodium	TX	1155	10014605
Strontium	TX	1160	10014605
Thallium	TX	1165	10014605
Tin	TX	1175	10014605
Titanium	TX	1180	10014605
Vanadium	TX	1185	10014605
Zinc	TX	1190	10014605

Method EPA 245.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	TX	1095	10036609

Method EPA 300.0

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromide	TX	1540	10053006
Chloride	TX	1575	10053006

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

DHL Analytical, Inc.
2300 Double Creek Drive
Round Rock, TX 78664-3801

Certificate: T104704211-12-8
Expiration Date: 4/30/2013
Issue Date: 5/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Non-Potable Water***

Fluoride	TX	1730	10053006
Nitrate as N	TX	1810	10053006
Nitrate-nitrite	TX	1820	10053006
Nitrite as N	TX	1840	10053006
Sulfate	TX	2000	10053006

Method EPA 305.1

Analyte	AB	Analyte ID	Method ID
Acidity, as CaCO3	TX	1500	10054203

Method EPA 310.1

Analyte	AB	Analyte ID	Method ID
Alkalinity as CaCO3	TX	1505	10054805

Method EPA 335.1

Analyte	AB	Analyte ID	Method ID
Amenable cyanide	TX	1510	10060001

Method EPA 335.2

Analyte	AB	Analyte ID	Method ID
Total cyanide	TX	1645	10060205

Method EPA 365.2

Analyte	AB	Analyte ID	Method ID
Orthophosphate as P	TX	1870	10070403
Phosphorus	TX	1910	10070403

Method EPA 370.1

Analyte	AB	Analyte ID	Method ID
Silica as SiO2	TX	1990	10072001

Method EPA 376.2

Analyte	AB	Analyte ID	Method ID
Sulfide	TX	2005	10074609

Method EPA 415.1

Analyte	AB	Analyte ID	Method ID
Total Organic Carbon (TOC)	TX	2040	10078407

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DHL Analytical, Inc.

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Matrix: ***Non-Potable Water***

Method EPA 602

Analyte	AB	Analyte ID	Method ID
Benzene	TX	4375	10102202
Ethylbenzene	TX	4765	10102202
m+p-xylene	TX	5240	10102202
Methyl tert-butyl ether (MTBE)	TX	5000	10102202
o-Xylene	TX	5250	10102202
Toluene	TX	5140	10102202
Xylene (total)	TX	5260	10102202

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10156204
Antimony	TX	1005	10156204
Arsenic	TX	1010	10156204
Barium	TX	1015	10156204
Beryllium	TX	1020	10156204
Boron	TX	1025	10156204
Cadmium	TX	1030	10156204
Calcium	TX	1035	10156204
Chromium	TX	1040	10156204
Cobalt	TX	1050	10156204
Copper	TX	1055	10156204
Iron	TX	1070	10156204
Lead	TX	1075	10156204
Lithium	TX	1080	10156204
Magnesium	TX	1085	10156204
Manganese	TX	1090	10156204
Molybdenum	TX	1100	10156204
Nickel	TX	1105	10156204
Potassium	TX	1125	10156204
Selenium	TX	1140	10156204

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Matrix: ***Non-Potable Water***

Silver	TX	1150	10156204
Sodium	TX	1155	10156204
Strontium	TX	1160	10156204
Thallium	TX	1165	10156204
Tin	TX	1175	10156204
Titanium	TX	1180	10156204
Vanadium	TX	1185	10156204
Zinc	TX	1190	10156204

Method EPA 608

Analyte	AB	Analyte ID	Method ID
Aroclor-1016 (PCB-1016)	TX	8880	10103603
Aroclor-1221 (PCB-1221)	TX	8885	10103603
Aroclor-1232 (PCB-1232)	TX	8890	10103603
Aroclor-1242 (PCB-1242)	TX	8895	10103603
Aroclor-1248 (PCB-1248)	TX	8900	10103603
Aroclor-1254 (PCB-1254)	TX	8905	10103603
Aroclor-1260 (PCB-1260)	TX	8910	10103603

Method EPA 624

Analyte	AB	Analyte ID	Method ID
1,1,1-Trichloroethane	TX	5160	10107207
1,1,2,2-Tetrachloroethane	TX	5110	10107207
1,1,2-Trichloroethane	TX	5165	10107207
1,1-Dichloroethane	TX	4630	10107207
1,1-Dichloroethylene	TX	4640	10107207
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10107207
1,2-Dichlorobenzene	TX	4610	10107207
1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10107207
1,2-Dichloropropane	TX	4655	10107207
1,3-Dichlorobenzene	TX	4615	10107207
1,4-Dichlorobenzene	TX	4620	10107207
2-Butanone (Methyl ethyl ketone, MEK)	TX	4410	10107207

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Matrix: *Non-Potable Water*

2-Chloroethyl vinyl ether	TX	4500	10107207
Acetone (2-Propanone)	TX	4315	10107207
Acrolein (Propenal)	TX	4325	10107207
Acrylonitrile	TX	4340	10107207
Benzene	TX	4375	10107207
Bromodichloromethane	TX	4395	10107207
Bromoform	TX	4400	10107207
Carbon tetrachloride	TX	4455	10107207
Chlorobenzene	TX	4475	10107207
Chlorodibromomethane	TX	4575	10107207
Chloroethane (Ethyl chloride)	TX	4485	10107207
Chloroform	TX	4505	10107207
cis-1,2-Dichloroethylene	TX	4645	10107207
cis-1,3-Dichloropropene	TX	4680	10107207
Ethylbenzene	TX	4765	10107207
m+p-xylene	TX	5240	10107207
Methyl bromide (Bromomethane)	TX	4950	10107207
Methyl chloride (Chloromethane)	TX	4960	10107207
Methyl tert-butyl ether (MTBE)	TX	5000	10107207
Methylene chloride (Dichloromethane)	TX	4975	10107207
Naphthalene	TX	5005	10107207
o-Xylene	TX	5250	10107207
Tetrachloroethylene (Perchloroethylene)	TX	5115	10107207
Toluene	TX	5140	10107207
Total trihalomethanes	TX	5205	10107207
trans-1,2-Dichloroethylene	TX	4700	10107207
trans-1,3-Dichloropropylene	TX	4685	10107207
Trichloroethene (Trichloroethylene)	TX	5170	10107207
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10107207
Vinyl chloride	TX	5235	10107207

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Matrix: ***Non-Potable Water***

Xylene (total)	TX	5260	10107207

Method EPA 625

Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	TX	6715	10107401
1,2,4-Trichlorobenzene	TX	5155	10107401
1,2-Dichlorobenzene	TX	4610	10107401
1,2-Diphenylhydrazine	TX	6220	10107401
1,3-Dichlorobenzene	TX	4615	10107401
1,4-Dichlorobenzene	TX	4620	10107401
2,3,4,6-Tetrachlorophenol	TX	6735	10107401
2,4,5-Trichlorophenol	TX	6835	10107401
2,4,6-Trichlorophenol	TX	6840	10107401
2,4-Dichlorophenol	TX	6000	10107401
2,4-Dimethylphenol	TX	6130	10107401
2,4-Dinitrophenol	TX	6175	10107401
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10107401
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10107401
2-Chloronaphthalene	TX	5795	10107401
2-Chlorophenol	TX	5800	10107401
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10107401
2-Methylphenol (o-Cresol)	TX	6400	10107401
2-Nitrophenol	TX	6490	10107401
3,3'-Dichlorobenzidine	TX	5945	10107401
4,4'-DDD	TX	7355	10107401
4,4'-DDE	TX	7360	10107401
4,4'-DDT	TX	7365	10107401
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10107401
4-Chloro-3-methylphenol	TX	5700	10107401
4-Chlorophenyl phenylether	TX	5825	10107401
4-Methylphenol (p-Cresol)	TX	6410	10107401

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Matrix: ***Non-Potable Water***

4-Nitrophenol	TX	6500	10107401
Acenaphthene	TX	5500	10107401
Acenaphthylene	TX	5505	10107401
Aldrin	TX	7025	10107401
alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10107401
alpha-Chlordane	TX	7240	10107401
Anthracene	TX	5555	10107401
Aroclor-1016 (PCB-1016)	TX	8880	10107401
Aroclor-1221 (PCB-1221)	TX	8885	10107401
Aroclor-1232 (PCB-1232)	TX	8890	10107401
Aroclor-1242 (PCB-1242)	TX	8895	10107401
Aroclor-1248 (PCB-1248)	TX	8900	10107401
Aroclor-1254 (PCB-1254)	TX	8905	10107401
Aroclor-1260 (PCB-1260)	TX	8910	10107401
Benzidine	TX	5595	10107401
Benzo(a)anthracene	TX	5575	10107401
Benzo(a)pyrene	TX	5580	10107401
Benzo(b)fluoranthene	TX	5585	10107401
Benzo(g,h,i)perylene	TX	5590	10107401
Benzo(k)fluoranthene	TX	5600	10107401
beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10107401
bis(2-Chloroethoxy)methane	TX	5760	10107401
bis(2-Chloroethyl) ether	TX	5765	10107401
bis(2-Chloroisopropyl) ether	TX	5780	10107401
bis(2-Ethylhexyl) phthalate (DEHP)	TX	6255	10107401
Butyl benzyl phthalate	TX	5670	10107401
Chrysene	TX	5855	10107401
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10107401
Dibenz(a,h) anthracene	TX	5895	10107401
Dieldrin	TX	7470	10107401

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Matrix: *Non-Potable Water*

Diethyl phthalate	TX	6070	10107401
Dimethyl phthalate	TX	6135	10107401
Di-n-butyl phthalate	TX	5925	10107401
Di-n-octyl phthalate	TX	6200	10107401
Endosulfan I	TX	7510	10107401
Endosulfan II	TX	7515	10107401
Endosulfan sulfate	TX	7520	10107401
Endrin	TX	7540	10107401
Endrin aldehyde	TX	7530	10107401
Fluoranthene	TX	6265	10107401
Fluorene	TX	6270	10107401
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10107401
gamma-Chlordane	TX	7245	10107401
Heptachlor	TX	7685	10107401
Heptachlor epoxide	TX	7690	10107401
Hexachlorobenzene	TX	6275	10107401
Hexachlorobutadiene	TX	4835	10107401
Hexachlorocyclopentadiene	TX	6285	10107401
Hexachloroethane	TX	4840	10107401
Indeno(1,2,3-cd) pyrene	TX	6315	10107401
Isophorone	TX	6320	10107401
Naphthalene	TX	5005	10107401
Nitrobenzene	TX	5015	10107401
n-Nitrosodiethylamine	TX	6525	10107401
n-Nitrosodimethylamine	TX	6530	10107401
n-Nitrosodi-n-butylamine	TX	5025	10107401
n-Nitrosodi-n-propylamine	TX	6545	10107401
n-Nitrosodiphenylamine	TX	6535	10107401
Pentachlorobenzene	TX	6590	10107401
Pentachlorophenol	TX	6605	10107401

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Matrix: *Non-Potable Water*

Phenanthrene	TX	6615	10107401
Phenol	TX	6625	10107401
Pyrene	TX	6665	10107401
Pyridine	TX	5095	10107401
Toxaphene (Chlorinated camphene)	TX	8250	10107401

Method EPA 7196

Analyte	**AB**	**Analyte ID**	**Method ID**
Chromium (VI)	TX	1045	10162400

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	TX	1095	10165807

Method EPA 8011

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10173009

Method EPA 8015

Analyte	**AB**	**Analyte ID**	**Method ID**
Diesel range organics (DRO)	TX	9369	10173203
Ethylene glycol	TX	4785	10173203
Gasoline range organics (GRO)	TX	9408	10173203
Propylene Glycol	TX	6657	10173203

Method EPA 8021

Analyte	**AB**	**Analyte ID**	**Method ID**
Benzene	TX	4375	10174808
Ethylbenzene	TX	4765	10174808
m+p-xylene	TX	5240	10174808
Methyl tert-butyl ether (MTBE)	TX	5000	10174808
o-Xylene	TX	5250	10174808
Toluene	TX	5140	10174808
Xylene (total)	TX	5260	10174808

Method EPA 8082

Analyte	**AB**	**Analyte ID**	**Method ID**

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Matrix: ***Non-Potable Water***

Aroclor-1016 (PCB-1016)	TX	8880	10179007
Aroclor-1221 (PCB-1221)	TX	8885	10179007
Aroclor-1232 (PCB-1232)	TX	8890	10179007
Aroclor-1242 (PCB-1242)	TX	8895	10179007
Aroclor-1248 (PCB-1248)	TX	8900	10179007
Aroclor-1254 (PCB-1254)	TX	8905	10179007
Aroclor-1260 (PCB-1260)	TX	8910	10179007
PCBs (total)	TX	8870	10179007

Method EPA 8260

Analyte	AB	Analyte ID	Method ID
1,1,1,2-Tetrachloroethane	TX	5105	10184802
1,1,1-Trichloroethane	TX	5160	10184802
1,1,2,2-Tetrachloroethane	TX	5110	10184802
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	TX	5195	10184802
1,1,2-Trichloroethane	TX	5165	10184802
1,1-Dichloroethane	TX	4630	10184802
1,1-Dichloroethylene	TX	4640	10184802
1,1-Dichloropropene	TX	4670	10184802
1,2,3-Trichlorobenzene	TX	5150	10184802
1,2,3-Trichloropropane	TX	5180	10184802
1,2,4-Trichlorobenzene	TX	5155	10184802
1,2,4-Trimethylbenzene	TX	5210	10184802
1,2-Dibromo-3-chloropropane (DBCP)	TX	4570	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10184802
1,2-Dichlorobenzene	TX	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10184802
1,2-Dichloropropane	TX	4655	10184802
1,3,5-Trimethylbenzene	TX	5215	10184802
1,3-Dichlorobenzene	TX	4615	10184802
1,3-Dichloropropane	TX	4660	10184802

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Matrix: *Non-Potable Water*

1,4-Dichlorobenzene	TX	4620	10184802
1-Chlorohexane	TX	4510	10184802
2,2-Dichloropropane	TX	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	TX	4410	10184802
2-Chloroethyl vinyl ether	TX	4500	10184802
2-Chlorotoluene	TX	4535	10184802
2-Hexanone (MBK)	TX	4860	10184802
4-Chlorotoluene	TX	4540	10184802
4-Isopropyltoluene (p-Cymene)	TX	4915	10184802
4-Methyl-2-pentanone (MIBK)	TX	4995	10184802
Acetone (2-Propanone)	TX	4315	10184802
Acrolein (Propenal)	TX	4325	10184802
Acrylonitrile	TX	4340	10184802
Benzene	TX	4375	10184802
Bromobenzene	TX	4385	10184802
Bromochloromethane	TX	4390	10184802
Bromodichloromethane	TX	4395	10184802
Bromoform	TX	4400	10184802
Carbon disulfide	TX	4450	10184802
Carbon tetrachloride	TX	4455	10184802
Chlorobenzene	TX	4475	10184802
Chlorodibromomethane	TX	4575	10184802
Chloroethane (Ethyl chloride)	TX	4485	10184802
Chloroform	TX	4505	10184802
cis-1,2-Dichloroethylene	TX	4645	10184802
cis-1,3-Dichloropropene	TX	4680	10184802
Dibromomethane (Methylene bromide)	TX	4595	10184802
Dichlorodifluoromethane (Freon-12)	TX	4625	10184802
Ethylbenzene	TX	4765	10184802
Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)	TX	4770	10184802

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Matrix: *Non-Potable Water*

Hexachlorobutadiene	TX	4835	10184802
Iodomethane (Methyl iodide)	TX	4870	10184802
Isopropyl ether	TX	4905	10184802
Isopropylbenzene (Cumene)	TX	4900	10184802
m+p-xylene	TX	5240	10184802
Methyl acetate	TX	4940	10184802
Methyl bromide (Bromomethane)	TX	4950	10184802
Methyl chloride (Chloromethane)	TX	4960	10184802
Methyl tert-butyl ether (MTBE)	TX	5000	10184802
Methylcyclohexane	TX	4965	10184802
Methylene chloride (Dichloromethane)	TX	4975	10184802
Naphthalene	TX	5005	10184802
n-Butylbenzene	TX	4435	10184802
n-Propylbenzene	TX	5090	10184802
o-Xylene	TX	5250	10184802
sec-Butylbenzene	TX	4440	10184802
Styrene	TX	5100	10184802
T-amylmethylether (TAME)	TX	4370	10184802
tert-Butyl alcohol	TX	4420	10184802
tert-Butylbenzene	TX	4445	10184802
Tetrachloroethylene (Perchloroethylene)	TX	5115	10184802
Toluene	TX	5140	10184802
Total trihalomethanes	TX	5205	10184802
trans-1,2-Dichloroethylene	TX	4700	10184802
trans-1,3-Dichloropropylene	TX	4685	10184802
trans-1,4-Dichloro-2-butene	TX	4605	10184802
Trichloroethene (Trichloroethylene)	TX	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10184802
Vinyl acetate	TX	5225	10184802
Vinyl chloride	TX	5235	10184802

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Matrix: *Non-Potable Water*

Xylene (total)	TX	5260	10184802

Method EPA 8270

Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	TX	6715	10185805
1,2,4-Trichlorobenzene	TX	5155	10185805
1,2-Dichlorobenzene	TX	4610	10185805
1,2-Diphenylhydrazine	TX	6220	10185805
1,3-Dichlorobenzene	TX	4615	10185805
1,4-Dichlorobenzene	TX	4620	10185805
1-Naphthylamine	TX	6425	10185805
2,3,4,6-Tetrachlorophenol	TX	6735	10185805
2,4,5-Trichlorophenol	TX	6835	10185805
2,4,6-Trichlorophenol	TX	6840	10185805
2,4-Dichlorophenol	TX	6000	10185805
2,4-Dimethylphenol	TX	6130	10185805
2,4-Dinitrophenol	TX	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10185805
2,6-Dichlorophenol	TX	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10185805
2-Chloronaphthalene	TX	5795	10185805
2-Chlorophenol	TX	5800	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10185805
2-Methylnaphthalene	TX	6385	10185805
2-Methylphenol (o-Cresol)	TX	6400	10185805
2-Naphthylamine	TX	6430	10185805
2-Nitroaniline	TX	6460	10185805
2-Nitrophenol	TX	6490	10185805
2-Picoline (2-Methylpyridine)	TX	5050	10185805
3,3'-Dichlorobenzidine	TX	5945	10185805
3-Methylcholanthrene	TX	6355	10185805

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Matrix: *Non-Potable Water*

3-Nitroaniline	TX	6465	10185805
4,4'-DDD	TX	7355	10185805
4,4'-DDE	TX	7360	10186002
4,4'-DDT	TX	7365	10185805
4-Aminobiphenyl	TX	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10185805
4-Chloro-3-methylphenol	TX	5700	10185805
4-Chloroaniline	TX	5745	10185805
4-Chlorophenyl phenylether	TX	5825	10185805
4-Dimethyl aminoazobenzene	TX	6105	10185805
4-Methylphenol (p-Cresol)	TX	6410	10185805
4-Nitroaniline	TX	6470	10185805
4-Nitrophenol	TX	6500	10185805
7,12-Dimethylbenz(a) anthracene	TX	6115	10185805
a-a-Dimethylphenethylamine	TX	6125	10185805
Acenaphthene	TX	5500	10185805
Acenaphthylene	TX	5505	10185805
Acetophenone	TX	5510	10185805
Aldrin	TX	7025	10186002
alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10186002
alpha-Chlordane	TX	7240	10185601
Aniline	TX	5545	10185805
Anthracene	TX	5555	10185805
Aroclor-1016 (PCB-1016)	TX	8880	10186002
Aroclor-1221 (PCB-1221)	TX	8885	10185203
Aroclor-1232 (PCB-1232)	TX	8890	10185407
Aroclor-1242 (PCB-1242)	TX	8895	10185203
Aroclor-1248 (PCB-1248)	TX	8900	10186002
Aroclor-1254 (PCB-1254)	TX	8905	10185601
Aroclor-1260 (PCB-1260)	TX	8910	10185203

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

DHL Analytical, Inc.
2300 Double Creek Drive
Round Rock, TX 78664-3801

Certificate: T104704211-12-8
Expiration Date: 4/30/2013
Issue Date: 5/1/2012

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Matrix: *Non-Potable Water*

Atrazine	TX	7065	10185805
Azinphos-methyl (Guthion)	TX	7075	10185805
Benzidine	TX	5595	10185805
Benzo(a)anthracene	TX	5575	10185805
Benzo(a)pyrene	TX	5580	10185805
Benzo(b)fluoranthene	TX	5585	10185805
Benzo(e)pyrene	TX	5605	10185805
Benzo(g,h,i)perylene	TX	5590	10185805
Benzo(k)fluoranthene	TX	5600	10185805
Benzoic acid	TX	5610	10185805
Benzyl alcohol	TX	5630	10185805
beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10185203
Biphenyl	TX	5640	10185805
bis(2-Chloroethoxy)methane	TX	5760	10185805
bis(2-Chloroethyl) ether	TX	5765	10185805
bis(2-Chloroisopropyl) ether	TX	5780	10185805
bis(2-Ethylhexyl) phthalate (DEHP)	TX	6255	10185805
Butyl benzyl phthalate	TX	5670	10185805
Caprolactam	TX	7180	10185805
Carbaryl (Sevin)	TX	7195	10185407
Carbazole	TX	5680	10185805
Carbophenothion	TX	7220	10185407
Chlordane (tech.)	TX	7250	10185203
Chlorfenvinphos	TX	7255	10185805
Chrysene	TX	5855	10185805
Coumaphos	TX	7315	10186002
Crotoxyphos	TX	7330	10185407
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10185805
Demeton	TX	7390	10185407
Demeton-o	TX	7395	10185203

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Matrix: *Non-Potable Water*

Demeton-s	TX	7385	10185601
Dibenz(a,h) anthracene	TX	5895	10185805
Dibenzofuran	TX	5905	10185805
Dichlorovos (DDVP; Dichlorvos)	TX	8610	10186002
Dicrotophos	TX	7465	10185407
Dieldrin	TX	7470	10186002
Diethyl phthalate	TX	6070	10185805
Dimethoate	TX	7475	10185805
Dimethyl phthalate	TX	6135	10185805
Di-n-butyl phthalate	TX	5925	10185805
Di-n-octyl phthalate	TX	6200	10185805
Dioxathion	TX	7495	10185203
Diphenylamine	TX	6205	10185805
Disulfoton	TX	8625	10185601
Endosulfan I	TX	7510	10185805
Endosulfan II	TX	7515	10185203
Endosulfan sulfate	TX	7520	10185601
Endrin	TX	7540	10185203
Endrin aldehyde	TX	7530	10185805
Endrin ketone	TX	7535	10186002
EPN (Phosphonothioic acid, phenyl-, O-ethyl O-(p-nitrophenyl) ester)	TX	7550	10186002
Ethion	TX	7565	10185805
Ethyl methanesulfonate	TX	6260	10185805
Famphur	TX	7580	10185407
Fensulfothion	TX	7600	10185203
Fenthion	TX	7605	10186002
Fluoranthene	TX	6265	10185805
Fluorene	TX	6270	10185805
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10185203
gamma-Chlordane	TX	7245	10185203

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Matrix: *Non-Potable Water*

Heptachlor	TX	7685	10185601
Heptachlor epoxide	TX	7690	10185805
Hexachlorobenzene	TX	6275	10185805
Hexachlorobutadiene	TX	4835	10185805
Hexachlorocyclopentadiene	TX	6285	10185805
Hexachloroethane	TX	4840	10185805
Hexachlorophene	TX	6290	10185805
Indeno(1,2,3-cd) pyrene	TX	6315	10185805
Isodrin	TX	7725	10185407
Isophorone	TX	6320	10185805
Leptophos	TX	7755	10186002
Malathion	TX	7770	10186002
Methoxychlor	TX	7810	10185601
Methyl methanesulfonate	TX	6375	10185805
Methyl parathion (Parathion, methyl)	TX	7825	10185203
Mevinphos	TX	7850	10186002
Monocrotophos	TX	7880	10185203
Naled	TX	7905	10185203
Naphthalene	TX	5005	10185805
Nitrobenzene	TX	5015	10185805
n-Nitrosodiethylamine	TX	6525	10185805
n-Nitrosodimethylamine	TX	6530	10185805
n-Nitrosodi-n-butylamine	TX	5025	10185805
n-Nitrosodi-n-propylamine	TX	6545	10185805
n-Nitrosodiphenylamine	TX	6535	10185805
n-Nitrosopiperidine	TX	6560	10185805
Parathion, ethyl	TX	7955	10185805
Pentachlorobenzene	TX	6590	10185805
Pentachloronitrobenzene (PCNB)	TX	6600	10185805
Pentachlorophenol	TX	6605	10185805

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Matrix: ***Non-Potable Water***

Phenacetin	TX	6610	10185805
Phenanthrene	TX	6615	10185805
Phenol	TX	6625	10185805
Phorate	TX	7985	10186002
Phosmet (Imidan)	TX	8000	10186002
Phosphamidon	TX	8005	10185805
Pronamide (Kerb)	TX	6650	10185805
Pyrene	TX	6665	10185805
Pyridine	TX	5095	10185805
Quinoline	TX	6670	10185805
Sulfotepp	TX	8155	10186002
Terbufos	TX	8185	10185805
Tetrachlorvinphos (Stirophos, Gardona)	TX	8197	10186002
Tetraethyl pyrophosphate (TEPP)	TX	8210	10185407
Toxaphene (Chlorinated camphene)	TX	8250	10185203

Method EPA 8321

Analyte	**AB**	**Analyte ID**	**Method ID**
2,4,5-T	TX	8655	10188804
2,4-D	TX	8545	10188804
2,4-DB	TX	8560	10188804
Dalapon	TX	8555	10188804
Dicamba	TX	8595	10188804
Dichloroprop (Dichlorprop, Weedone)	TX	8605	10188804
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10188804
MCPA	TX	7775	10188804
MCPP	TX	7780	10188804
Silvex (2,4,5-TP)	TX	8650	10188804

Method EPA 8330

Analyte	**AB**	**Analyte ID**	**Method ID**
1,3,5-Trinitrobenzene (1,3,5-TNB)	TX	6885	10189807
1,3-Dinitrobenzene (1,3-DNB)	TX	6160	10189807

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Matrix: *Non-Potable Water*

2,4,6-Trinitrotoluene (2,4,6-TNT)	TX	9651	10189807
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10189807
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10189807
2-Amino-4,6-dinitrotoluene (2-am-dnt)	TX	9303	10189807
2-Nitrotoluene	TX	9507	10189807
3-Nitrotoluene	TX	9510	10189807
4-Amino-2,6-dinitrotoluene (4-am-dnt)	TX	9306	10189807
4-Nitrotoluene	TX	9513	10189807
Methyl-2,4,6-trinitrophenylnitramine (tetryl)	TX	6415	10189807
Nitrobenzene	TX	5015	10189807
Nitroglycerin	TX	6485	10189807
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	TX	9522	10189807
Pentaerythritoltetranitrate (PETN)	TX	9558	10189807
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	TX	9432	10189807

Method EPA 9014

Analyte	**AB**	**Analyte ID**	**Method ID**
Amenable cyanide	TX	1510	10193803
Total Cyanide	TX	1635	10193803

Method EPA 9040

Analyte	**AB**	**Analyte ID**	**Method ID**
pH	TX	1900	10197203

Method EPA 9056

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromide	TX	1540	10199209
Chloride	TX	1575	10199209
Fluoride	TX	1730	10199209
Nitrate as N	TX	1810	10199209
Nitrate-nitrite	TX	1820	10199209
Nitrite as N	TX	1840	10199209
Sulfate	TX	2000	10199209

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Matrix: ***Non-Potable Water***

Method EPA 9060

Analyte	AB	Analyte ID	Method ID
Total Organic Carbon (TOC)	TX	2040	10200201

Method EPA 9070

Analyte	AB	Analyte ID	Method ID
n-Hexane Extractable Material (HEM) (O&G)	TX	1803	10201000

Method EPA RSK 175

Analyte	AB	Analyte ID	Method ID
Carbon dioxide	TX	3755	10212905
Ethane	TX	4747	10212905
Ethene	TX	4752	10212905
Methane	TX	4926	10212905

Method HACH 8000

Analyte	AB	Analyte ID	Method ID
Chemical oxygen demand (COD)	TX	1565	60003001

Method SM 2130 B

Analyte	AB	Analyte ID	Method ID
Turbidity	TX	2055	20002408

Method SM 2310 B (4a)

Analyte	AB	Analyte ID	Method ID
Acidity, as CaCO3	TX	1500	20002806

Method SM 2320 B

Analyte	AB	Analyte ID	Method ID
Alkalinity as CaCO3	TX	1505	20003003

Method SM 2340 B

Analyte	AB	Analyte ID	Method ID
Total hardness as CaCO3	TX	1755	20003401

Method SM 2510 B

Analyte	AB	Analyte ID	Method ID
Conductivity	TX	1610	20003809

Method SM 2540 C

Analyte	AB	Analyte ID	Method ID

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Matrix: *Non-Potable Water*

Residue-filterable (TDS)	TX	1955	20004404
Method SM 2540 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-nonfilterable (TSS)	TX	1960	20004802
Method SM 3500-Cr D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Chromium	TX	1040	20009001
Method SM 4500-CN^- E			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Cyanide	TX	1635	20021209
Method SM 4500-CN^- G			
Analyte	**AB**	**Analyte ID**	**Method ID**
Amenable cyanide	TX	1510	20021607
Method SM 4500-H+ B			
Analyte	**AB**	**Analyte ID**	**Method ID**
pH	TX	1900	20016404
Method SM 4500-NH3 F			
Analyte	**AB**	**Analyte ID**	**Method ID**
Ammonia as N	TX	1515	20023001
Method SM 4500-P E			
Analyte	**AB**	**Analyte ID**	**Method ID**
Orthophosphate as P	TX	1870	20025803
Phosphorus	TX	1910	20025803
Method SM 4500-$S2^-$ D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Sulfide	TX	2005	20125400
Method SM 4500-SiO2 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Silica as SiO2	TX	1990	20018206
Method SM 5220 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Chemical oxygen demand (COD)	TX	1565	20027809

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Matrix: ***Non-Potable Water***

Method	Analyte	AB	Analyte ID	Method ID
SM 5310 C	Total Organic Carbon (TOC)	TX	2040	20028200
TCEQ 1005	Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208

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Matrix: *Solid & Chemical Materials*

Method ASTM D2216

Analyte	AB	Analyte ID	Method ID
Moisture	TX	10337	ASTM D2216-05

Method EPA 1010

Analyte	AB	Analyte ID	Method ID
Ignitability	TX	1780	10116606

Method EPA 1311

Analyte	AB	Analyte ID	Method ID
TCLP	TX	849	10118806

Method EPA 1312

Analyte	AB	Analyte ID	Method ID
SPLP	TX	850	10119003

Method EPA 200.8

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10014605
Antimony	TX	1005	10014605
Arsenic	TX	1010	10014605
Barium	TX	1015	10014605
Beryllium	TX	1020	10014605
Cadmium	TX	1030	10014605
Calcium	TX	1035	10014605
Chromium	TX	1040	10014605
Cobalt	TX	1050	10014605
Copper	TX	1055	10014605
Iron	TX	1070	10014605
Lead	TX	1075	10014605
Magnesium	TX	1085	10014605
Manganese	TX	1090	10014605
Molybdenum	TX	1100	10014605
Nickel	TX	1105	10014605
Potassium	TX	1125	10014605

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Matrix: ***Solid & Chemical Materials***

Selenium	TX	1140	10014605
Silver	TX	1150	10014605
Sodium	TX	1155	10014605
Strontium	TX	1160	10014605
Thallium	TX	1165	10014605
Tin	TX	1175	10014605
Titanium	TX	1180	10014605
Vanadium	TX	1185	10014605
Zinc	TX	1190	10014605

Method EPA 300.0

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromide	TX	1540	10053006
Chloride	TX	1575	10053006
Fluoride	TX	1730	10053006
Nitrate as N	TX	1810	10053006
Nitrate-nitrite	TX	1820	10053006
Nitrite as N	TX	1840	10053006
Sulfate	TX	2000	10053006

Method EPA 310.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Alkalinity as CaCO3	TX	1505	10054805

Method EPA 350.3

Analyte	**AB**	**Analyte ID**	**Method ID**
Ammonia as N	TX	1515	10064401

Method EPA 365.2

Analyte	**AB**	**Analyte ID**	**Method ID**
Orthophosphate as P	TX	1870	10070403
Phosphorus	TX	1910	10070403

Method EPA 6020

Analyte	**AB**	**Analyte ID**	**Method ID**
Aluminum	TX	1000	10156204

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Matrix: ***Solid & Chemical Materials***

Antimony	TX	1005	10156204
Arsenic	TX	1010	10156204
Barium	TX	1015	10156204
Beryllium	TX	1020	10156204
Boron	TX	1025	10156204
Cadmium	TX	1030	10156204
Calcium	TX	1035	10156204
Chromium	TX	1040	10156204
Cobalt	TX	1050	10156204
Copper	TX	1055	10156204
Iron	TX	1070	10156204
Lead	TX	1075	10156204
Lithium	TX	1080	10156204
Magnesium	TX	1085	10156204
Manganese	TX	1090	10156204
Molybdenum	TX	1100	10156204
Nickel	TX	1105	10156204
Potassium	TX	1125	10156204
Selenium	TX	1140	10156204
Silver	TX	1150	10156204
Sodium	TX	1155	10156204
Strontium	TX	1160	10156204
Thallium	TX	1165	10156204
Tin	TX	1175	10156204
Titanium	TX	1180	10156204
Vanadium	TX	1185	10156204
Zinc	TX	1190	10156204

Method EPA 7196

Analyte	**AB**	**Analyte ID**	**Method ID**
Chromium (VI)	TX	1045	10162400

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Matrix: ***Solid & Chemical Materials***

Method EPA 7470

Analyte	AB	Analyte ID	Method ID
Mercury	TX	1095	10165807

Method EPA 7471

Analyte	AB	Analyte ID	Method ID
Mercury	TX	1095	10166208

Method EPA 8015

Analyte	AB	Analyte ID	Method ID
Diesel range organics (DRO)	TX	9369	10173203
Ethylene glycol	TX	4785	10173203
Gasoline range organics (GRO)	TX	9408	10173203
Propylene Glycol	TX	6657	10173203

Method EPA 8021

Analyte	AB	Analyte ID	Method ID
Benzene	TX	4375	10174808
Ethylbenzene	TX	4765	10174808
m+p-xylene	TX	5240	10174808
Methyl tert-butyl ether (MTBE)	TX	5000	10174808
o-Xylene	TX	5250	10174808
Toluene	TX	5140	10174808
Xylene (total)	TX	5260	10174808

Method EPA 8082

Analyte	AB	Analyte ID	Method ID
Aroclor-1016 (PCB-1016)	TX	8880	10179007
Aroclor-1221 (PCB-1221)	TX	8885	10179007
Aroclor-1232 (PCB-1232)	TX	8890	10179007
Aroclor-1242 (PCB-1242)	TX	8895	10179007
Aroclor-1248 (PCB-1248)	TX	8900	10179007
Aroclor-1254 (PCB-1254)	TX	8905	10179007
Aroclor-1260 (PCB-1260)	TX	8910	10179007
PCBs (total)	TX	8870	10179007

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Matrix: ***Solid & Chemical Materials***

Method EPA 8260

Analyte	AB	Analyte ID	Method ID
1,1,1,2-Tetrachloroethane	TX	5105	10184802
1,1,1-Trichloroethane	TX	5160	10184802
1,1,2,2-Tetrachloroethane	TX	5110	10184802
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	TX	5195	10184802
1,1,2-Trichloroethane	TX	5165	10184802
1,1-Dichloroethane	TX	4630	10184802
1,1-Dichloroethylene	TX	4640	10184802
1,1-Dichloropropene	TX	4670	10184802
1,2,3-Trichlorobenzene	TX	5150	10184802
1,2,3-Trichloropropane	TX	5180	10184802
1,2,4-Trichlorobenzene	TX	5155	10184802
1,2,4-Trimethylbenzene	TX	5210	10184802
1,2-Dibromo-3-chloropropane (DBCP)	TX	4570	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10184802
1,2-Dichlorobenzene	TX	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10184802
1,2-Dichloropropane	TX	4655	10184802
1,3,5-Trimethylbenzene	TX	5215	10184802
1,3-Dichlorobenzene	TX	4615	10184802
1,3-Dichloropropane	TX	4660	10184802
1,4-Dichlorobenzene	TX	4620	10184802
1-Chlorohexane	TX	4510	10184802
2,2-Dichloropropane	TX	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	TX	4410	10184802
2-Chloroethyl vinyl ether	TX	4500	10184802
2-Chlorotoluene	TX	4535	10184802
2-Hexanone (MBK)	TX	4860	10184802
4-Chlorotoluene	TX	4540	10184802

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

DHL Analytical, Inc.

2300 Double Creek Drive
Round Rock, TX 78664-3801

Certificate: T104704211-12-8
Expiration Date: 4/30/2013
Issue Date: 5/1/2012

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Matrix: *Solid & Chemical Materials*

4-Isopropyltoluene (p-Cymene)	TX	4915	10184802
4-Methyl-2-pentanone (MIBK)	TX	4995	10184802
Acetone (2-Propanone)	TX	4315	10184802
Acrolein (Propenal)	TX	4325	10184802
Acrylonitrile	TX	4340	10184802
Benzene	TX	4375	10184802
Bromobenzene	TX	4385	10184802
Bromochloromethane	TX	4390	10184802
Bromodichloromethane	TX	4395	10184802
Bromoform	TX	4400	10184802
Carbon disulfide	TX	4450	10184802
Carbon tetrachloride	TX	4455	10184802
Chlorobenzene	TX	4475	10184802
Chlorodibromomethane	TX	4575	10184802
Chloroethane (Ethyl chloride)	TX	4485	10184802
Chloroform	TX	4505	10184802
cis-1,2-Dichloroethylene	TX	4645	10184802
cis-1,3-Dichloropropene	TX	4680	10184802
Dibromomethane (Methylene bromide)	TX	4595	10184802
Dichlorodifluoromethane (Freon-12)	TX	4625	10184802
Ethylbenzene	TX	4765	10184802
Hexachlorobutadiene	TX	4835	10184802
Iodomethane (Methyl iodide)	TX	4870	10184802
Isopropyl alcohol (2-Propanol, Isopropanol)	TX	4895	10184802
Isopropylbenzene (Cumene)	TX	4900	10184802
m+p-xylene	TX	5240	10184802
Methyl acetate	TX	4940	10184802
Methyl bromide (Bromomethane)	TX	4950	10184802
Methyl chloride (Chloromethane)	TX	4960	10184802
Methyl tert-butyl ether (MTBE)	TX	5000	10184802

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Matrix: ***Solid & Chemical Materials***

Methylcyclohexane	TX	4965	10184802
Methylene chloride (Dichloromethane)	TX	4975	10184802
Naphthalene	TX	5005	10184802
n-Butylbenzene	TX	4435	10184802
n-Propylbenzene	TX	5090	10184802
o-Xylene	TX	5250	10184802
sec-Butylbenzene	TX	4440	10184802
Styrene	TX	5100	10184802
tert-Butylbenzene	TX	4445	10184802
Tetrachloroethylene (Perchloroethylene)	TX	5115	10184802
Toluene	TX	5140	10184802
trans-1,2-Dichloroethylene	TX	4700	10184802
trans-1,3-Dichloropropylene	TX	4685	10184802
trans-1,4-Dichloro-2-butene	TX	4605	10184802
Trichloroethene (Trichloroethylene)	TX	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10184802
Vinyl acetate	TX	5225	10184802
Vinyl chloride	TX	5235	10184802
Xylene (total)	TX	5260	10184802

Method EPA 8270

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2,4,5-Tetrachlorobenzene	TX	6715	10185805
1,2,4-Trichlorobenzene	TX	5155	10185805
1,2-Dichlorobenzene	TX	4610	10185805
1,2-Diphenylhydrazine	TX	6220	10185805
1,3-Dichlorobenzene	TX	4615	10185805
1,4-Dichlorobenzene	TX	4620	10185805
1-Naphthylamine	TX	6425	10185805
2,3,4,6-Tetrachlorophenol	TX	6735	10185805
2,4,5-Trichlorophenol	TX	6835	10185805

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Matrix: *Solid & Chemical Materials*

2,4,6-Trichlorophenol	TX	6840	10185805
2,4-Dichlorophenol	TX	6000	10185805
2,4-Dimethylphenol	TX	6130	10185805
2,4-Dinitrophenol	TX	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10185805
2,6-Dichlorophenol	TX	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10185805
2-Chloronaphthalene	TX	5795	10185805
2-Chlorophenol	TX	5800	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10185805
2-Methylnaphthalene	TX	6385	10185805
2-Methylphenol (o-Cresol)	TX	6400	10185805
2-Naphthylamine	TX	6430	10185805
2-Nitroaniline	TX	6460	10185805
2-Nitrophenol	TX	6490	10185805
2-Picoline (2-Methylpyridine)	TX	5050	10185805
3,3'-Dichlorobenzidine	TX	5945	10185805
3-Methylcholanthrene	TX	6355	10185805
3-Nitroaniline	TX	6465	10185805
4,4'-DDD	TX	7355	10185203
4,4'-DDE	TX	7360	10186002
4,4'-DDT	TX	7365	10185407
4-Aminobiphenyl	TX	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10185805
4-Chloro-3-methylphenol	TX	5700	10185805
4-Chloroaniline	TX	5745	10185805
4-Chlorophenyl phenylether	TX	5825	10185805
4-Dimethyl aminoazobenzene	TX	6105	10185805
4-Methylphenol (p-Cresol)	TX	6410	10185805
4-Nitroaniline	TX	6470	10185805

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Matrix: *Solid & Chemical Materials*

4-Nitrophenol	TX	6500	10185805
7,12-Dimethylbenz(a) anthracene	TX	6115	10185805
a-a-Dimethylphenethylamine	TX	6125	10185805
Acenaphthene	TX	5500	10185805
Acenaphthylene	TX	5505	10185805
Acetophenone	TX	5510	10185805
Aldrin	TX	7025	10186002
alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10185407
alpha-Chlordane	TX	7240	10185805
Aniline	TX	5545	10185805
Anthracene	TX	5555	10185805
Aroclor-1016 (PCB-1016)	TX	8880	10186002
Aroclor-1221 (PCB-1221)	TX	8885	10185805
Aroclor-1232 (PCB-1232)	TX	8890	10185407
Aroclor-1242 (PCB-1242)	TX	8895	10185407
Aroclor-1248 (PCB-1248)	TX	8900	10185805
Aroclor-1254 (PCB-1254)	TX	8905	10185805
Aroclor-1260 (PCB-1260)	TX	8910	10185407
Atrazine	TX	7065	10185805
Azinphos-methyl (Guthion)	TX	7075	10185203
Benzidine	TX	5595	10185805
Benzo(a)anthracene	TX	5575	10185805
Benzo(a)pyrene	TX	5580	10185805
Benzo(b)fluoranthene	TX	5585	10185805
Benzo(e)pyrene	TX	5605	10185805
Benzo(g,h,i)perylene	TX	5590	10185805
Benzo(k)fluoranthene	TX	5600	10185805
Benzoic acid	TX	5610	10185805
Benzyl alcohol	TX	5630	10185805
beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10185601

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Matrix: *Solid & Chemical Materials*

Biphenyl	TX	5640	10185805
bis(2-Chloroethoxy)methane	TX	5760	10185805
bis(2-Chloroethyl) ether	TX	5765	10185805
bis(2-Chloroisopropyl) ether	TX	5780	10185805
bis(2-Ethylhexyl) phthalate (DEHP)	TX	6255	10185805
Butyl benzyl phthalate	TX	5670	10185805
Caprolactam	TX	7180	10185805
Carbaryl (Sevin)	TX	7195	10185601
Carbazole	TX	5680	10185805
Carbophenothion	TX	7220	10185805
Chlordane (tech.)	TX	7250	10185805
Chlorfenvinphos	TX	7255	10185203
Chrysene	TX	5855	10185805
Coumaphos	TX	7315	10185805
Crotoxyphos	TX	7330	10185203
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10186002
Demeton	TX	7390	10185805
Demeton-o	TX	7395	10185805
Demeton-s	TX	7385	10185601
Dibenz(a,h) anthracene	TX	5895	10185805
Dibenzofuran	TX	5905	10185805
Dichlorovos (DDVP, Dichlorvos)	TX	8610	10185805
Dicrotophos	TX	7465	10185805
Dieldrin	TX	7470	10185407
Diethyl phthalate	TX	6070	10185805
Dimethoate	TX	7475	10185805
Dimethyl phthalate	TX	6135	10185805
Di-n-butyl phthalate	TX	5925	10185805
Di-n-octyl phthalate	TX	6200	10185805
Dioxathion	TX	7495	10185601

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Matrix: ***Solid & Chemical Materials***

Diphenylamine	TX	6205	10185805
Disulfoton	TX	8625	10185407
Endosulfan I	TX	7510	10185601
Endosulfan II	TX	7515	10185805
Endosulfan sulfate	TX	7520	10186002
Endrin	TX	7540	10185601
Endrin aldehyde	TX	7530	10186002
Endrin ketone	TX	7535	10186002
EPN (Phosphonothioic acid, phenyl-, O-ethyl O-(p-nitrophenyl) ester)	TX	7550	10186002
Ethion	TX	7565	10185203
Ethyl methanesulfonate	TX	6260	10185805
Famphur	TX	7580	10186002
Fensulfothion	TX	7600	10185805
Fenthion	TX	7605	10186002
Fluoranthene	TX	6265	10185805
Fluorene	TX	6270	10185805
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10185407
gamma-Chlordane	TX	7245	10185601
Heptachlor	TX	7685	10185601
Heptachlor epoxide	TX	7690	10185203
Hexachlorobenzene	TX	6275	10185805
Hexachlorobutadiene	TX	4835	10185805
Hexachlorocyclopentadiene	TX	6285	10185805
Hexachloroethane	TX	4840	10185805
Hexachlorophene	TX	6290	10185601
Indeno(1,2,3-cd) pyrene	TX	6315	10185805
Isodrin	TX	7725	10185203
Isophorone	TX	6320	10185805
Leptophos	TX	7755	10185407
Malathion	TX	7770	10185601

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Matrix: *Solid & Chemical Materials*

Methoxychlor	TX	7810	10185203
Methyl methanesulfonate	TX	6375	10185805
Methyl parathion (Parathion, methyl)	TX	7825	10185203
Mevinphos	TX	7850	10185805
Monocrotophos	TX	7880	10185805
Naled	TX	7905	10185805
Naphthalene	TX	5005	10185805
Nitrobenzene	TX	5015	10185805
n-Nitrosodiethylamine	TX	6525	10185805
n-Nitrosodimethylamine	TX	6530	10185805
n-Nitrosodi-n-butylamine	TX	5025	10185805
n-Nitrosodi-n-propylamine	TX	6545	10185805
n-Nitrosodiphenylamine	TX	6535	10185805
n-Nitrosopiperidine	TX	6560	10185805
Parathion, ethyl	TX	7955	10185805
Pentachlorobenzene	TX	6590	10185805
Pentachloronitrobenzene (PCNB)	TX	6600	10185805
Pentachlorophenol	TX	6605	10185805
Phenacetin	TX	6610	10185805
Phenanthrene	TX	6615	10185805
Phenol	TX	6625	10185805
Phorate	TX	7985	10185407
Phosmet (Imidan)	TX	8000	10185203
Phosphamidon	TX	8005	10186002
Pronamide (Kerb)	TX	6650	10185805
Pyrene	TX	6665	10185805
Pyridine	TX	5095	10185805
Quinoline	TX	6670	10185805
Sulfotepp	TX	8155	10185203
Terbufos	TX	8185	10185805

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Matrix: ***Solid & Chemical Materials***

Tetrachlorvinphos (Stirophos, Gardona)	TX	8197	10186002
Tetraethyl pyrophosphate (TEPP)	TX	8210	10185407
Toxaphene (Chlorinated camphene)	TX	8250	10185203

Method EPA 8321

Analyte	AB	Analyte ID	Method ID
2,4,5-T	TX	8655	10188804
2,4-D	TX	8545	10188804
2,4-DB	TX	8560	10188804
Dalapon	TX	8555	10188804
Dicamba	TX	8595	10188804
Dichloroprop (Dichlorprop, Weedone)	TX	8605	10188804
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10188804
MCPA	TX	7775	10188804
MCPP	TX	7780	10188804
Silvex (2,4,5-TP)	TX	8650	10188804

Method EPA 8330

Analyte	AB	Analyte ID	Method ID
1,3,5-Trinitrobenzene (1,3,5-TNB)	TX	6885	10189807
1,3-Dinitrobenzene (1,3-DNB)	TX	6160	10189807
2,4,6-Trinitrotoluene (2,4,6-TNT)	TX	9651	10189807
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10189807
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10189807
2-Amino-4,6-dinitrotoluene (2-am-dnt)	TX	9303	10189807
2-Nitrotoluene	TX	9507	10189807
3-Nitrotoluene	TX	9510	10189807
4-Amino-2,6-dinitrotoluene (4-am-dnt)	TX	9306	10189807
4-Nitrotoluene	TX	9513	10189807
Methyl-2,4,6-trinitrophenylnitramine (tetryl)	TX	6415	10189807
Nitrobenzene	TX	5015	10189807
Nitroglycerin	TX	6485	10189807
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	TX	9522	10189807

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Matrix: *Solid & Chemical Materials*

Pentaerythritoltetranitrate (PETN)	TX	9558	10189807
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	TX	9432	10189807

Method EPA 9014

Analyte	AB	Analyte ID	Method ID
Amenable cyanide	TX	1510	10193803
Total Cyanide	TX	1635	10193803

Method EPA 9040

Analyte	AB	Analyte ID	Method ID
Corrosivity	TX	1615	10197203
pH	TX	1900	10197203

Method EPA 9045

Analyte	AB	Analyte ID	Method ID
pH	TX	1900	10198400

Method EPA 9056

Analyte	AB	Analyte ID	Method ID
Bromide	TX	1540	10199209
Chloride	TX	1575	10199209
Fluoride	TX	1730	10199209
Nitrate as N	TX	1810	10199209
Nitrate-nitrite	TX	1820	10199209
Nitrite as N	TX	1840	10199209
Sulfate	TX	2000	10199209

Method SM 2320 B

Analyte	AB	Analyte ID	Method ID
Alkalinity as CaCO3	TX	1505	20003003

Method SM 2510 B

Analyte	AB	Analyte ID	Method ID
Conductivity	TX	1610	20003809

Method SSA/ASA Part 3:14

Analyte	AB	Analyte ID	Method ID
Conductivity	TX	1610	SSA/ASA Pt 3:14

Texas Commission on Environmental Quality

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Matrix: *Solid & Chemical Materials*

Method TCEQ 1005

Analyte	AB	Analyte ID	Method ID
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208

Texas Commission on Environmental Quality

Remediation Division Correspondence Identification Form

SITE & PROGRAM AREA IDENTIFICATION

SITE LOCATION				REMEDIATION DIVISION PROGRAM AND FACILITY IDENTIFICATION	
Site Name:	Rockwool Industries, Inc.			Is This Site Being Managed Under A State Lead Contract? ☐ Yes ☑ No	
Address 1:	1741 Taylors Valley Road			Program Area:	SUPERFUND
Address 2:				Mail Code:	MC-136
City:	Belton	State:	Texas	Is This A New Site To This Program Area? ☐ Yes ☑ No	
Zip Code:	76513	County:	Bell	PROGRAM ID No.:	SUP033
TCEQ Region:	Region 9 - Waco			--Leave This Field Blank--	--Leave This Field Blank--

OP

DOCUMENT(S) IDENTIFICATION

	PHASE OF REMEDIATION	DOCUMENT NAME
1.	POST-CLOSURE CARE	DATA USABILITY SUMMARY (DUS)
2.		
3.		
4.		
5.		

CONTACT INFORMATION

RESPONSIBLE PARTY/APPLICANT/CUSTOMER

Name:	Attn: Marilyn Long						
Company:	TCEQ, Superfund Section	Phone Number:	(512) 239-0761			Fax Number:	(512) 239-2346
Address 1:	MC-136	City:	Austin	State:	TX	Zip Code:	78711
Address 2:	Box 13087	Email Address:	Marilyn.Long@tceq.texas.gov				

ENVIRONMENTAL CONSULTANT/REPORT PREPARER/AGENT

Name:	William Gamblin, P.E.						
Company:	DBS&A, Inc.	Phone Number:	512.821.2765			Fax Number:	512.821.2724
Address 1:	4030 W. Braker Lane	City:	Austin	State:	TX	Zip Code:	78759
Address 2:	Suite 325	Email Address:	wgamblin@dbstephens.com				

TCEQ INTERNAL USE ONLY

Document No.	TCEQ Database Term	Document No.	TCEQ Database Term
1.		4.	
2.		5.	
3.			

HAND DELIVERED

June 7, 2013

Marilyn Long, Project Manager
TCEQ Superfund Section, MC-136
P.O. Box 13087
Austin, TX 78711-3087

Re: Rockwool Industries, Inc. / Belton, Site # SUP033, Data Usability Summary (DUS)

Dear Ms. Long:

The Data Usability Summary (DUS) for the March sampling event at the Rockwool Industries, Inc. site is attached. The DUS is being submitted at this time due to the requirement for an Amendment to correct the specific Pay Item needed for the task.

The analytical review pay item needed to be adjusted to account for batching amounts from the lab. The total number of samples submitted to the lab from the March 2013 sampling event was 25 samples. Lab grouped samples into one group of 20 and one group of 5. The use of pay item 6510-3 (7-day All Method(s) Data Review, ten (10) or less project samples within the batch) was necessary to allow review of second batch consisting of <10 samples while removing and equal number of pay item of 6510-4 (7-day All method(s) Data Review eleven (11) of more project samples within the batch). Net to project was a reduction in cost.

The Amendment containing this change was received in May 2013.

If you have any questions, please do not hesitate to contact me.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.

William Gamblin, P.E.
Project Manager

Attachments

Daniel B. Stephens & Associates, Inc.

4030 W. Braker Lane, Suite 325 512-821-2765

Austin, TX 78759 FAX 512-821-2724

DATA USABILITY SUMMARY
FOR
ROCKWOOL INDUSTRIES, INC.

FEDERAL SUPERFUND SITE

1741 TAYLORS VALLEY ROAD

BELTON, BELL COUNTY, TEXAS

MARCH 2013

Prepared by:

Nancy K. Toole
ECS Environmental Chemistry Services
PO Box 79782
Houston, Texas

Under Subcontract to:

Daniel B. Stephens & Associates, Inc.
4030 W. Braker Road, Suite 325
Austin, TX 78759
(512) 821-2765

June 6, 2013

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APPENDICES

Appendix A Qualified TRRP Report

Appendix B NELAP Laboratory Certificate

1. NELAC/TLAP LABORATORY ACCREDITATION CERTIFICATION STATEMENT

Daniel B. Stephens & Associates, Inc. (DB Stephens) certifies that at the time the laboratory data were generated for the project, DHL Analytical ((DHL) was NELAC accredited under the Texas Laboratory Accreditation Program (TLAP) for the matrices, analytes, and parameters of analysis requested on the chain-of-custody form.

This sampling event was conducted during March 2013. This sampling event includes data package 1303040. The qualified TRRP Report is presented in Appendix A. A copy of the DHL NELAP accreditation certificate is presented in Appendix B.

2. INTRODUCTION

This Data Usability Summary (DUS) contains the results of the data review conducted by ECS Environmental Chemistry Services (ECS) for samples collected from the Rockwool Industries Federal Superfund Site in Belton, Bell County, Texas. This report covers a sampling event that was conducted during March 2013. DHL located in Round Rock, Texas analyzed the samples for the parameters listed in Table 2-1. Field quality control samples are identified in Table 2-2. The independent data review covered by this DUS includes the following three levels of review:

Laboratory Data Package Review – an evaluation of sample-specific criteria specified in Section 3 of this DUS.

Laboratory Review Checklist Review - an evaluation of the laboratory performance criteria specified in Section 4 of this DUS.

Data Validation – an evaluation of raw data to confirm the accuracy of calculation, data transcription, and instrument performance as specified in Section 5 of this DUS.

The results of the first level of review are covered for each analytical method in Section 6 of this report.

The results of the second and third levels of review are covered for each analytical method in Section 7 of this report. Validation included a review of the supporting data, recalculation of results from raw data, and checks for transcription errors on 10% of the data.

The result of the data review process is the qualified data presented in Appendix A. The data were qualified using the qualifiers and bias codes presented in Tables D-2 and Table D-3 of the Texas Commission on Environmental Quality (TCEQ) Quality Assurance Project Plan (QAPP) for the Federal Superfund Program (Revision 9.0, QTRAK#12-463).

Table 2-1
Rockwool Industries
Belton, Bell County, Texas
Sample Summary

SDG	LAB SAMPLE ID	FIELD SAMPLE ID	DATE COLL.	MATRIX	PARAMETER
1303040	1303040-01	MW-7	03/05/2013	Aqueous	MET
	1303040-02	MW-9	03/05/2013	Aqueous	MET
	1303040-03	MW-10	03/05/2013	Aqueous	MET
	1303040-04	MW-11	03/05/2013	Aqueous	MET
	1303040-05	MW-14	03/05/2013	Aqueous	MET
	1303040-06	MW-17	03/05/2013	Aqueous	MET
	1303040-07	MW-19	03/05/2013	Aqueous	MET
	1303040-08	MW-24-90	03/05/2013	Aqueous	MET
	1303040-09	MW-27-90	03/05/2013	Aqueous	MET
	1303040-10	MW-28-90	03/05/2013	Aqueous	MET
	1303040-11	MW-29-90	03/05/2013	Aqueous	MET
	1303040-12	MW-30-90	03/05/2013	Aqueous	MET
	1303040-13	MW-33-90	03/05/2013	Aqueous	MET
	1303040-14	MW-34-90	03/05/2013	Aqueous	MET
	1303040-15	DUP-2	03/05/2013	Aqueous	MET
	1303040-16	ER-1	03/05/2013	Aqueous	MET
	1303040-17	DUP-1	03/06/2013	Aqueous	MET
	1303040-18	MW-20	03/06/2013	Aqueous	MET
	1303040-19	MW-21	03/06/2013	Aqueous	MET
	1303040-20	MW-22	03/06/2013	Aqueous	MET
	1303040-21	MW-35-90	03/06/2013	Aqueous	MET
	1303040-22	MW-37-90	03/06/2013	Aqueous	MET
	1303040-23	MW-38-90	03/06/2013	Aqueous	MET
	1303040-24	ER-2	03/06/2013	Aqueous	MET
	1303040-25	MW-18	03/06/2013	Aqueous	MET

MET= antimony, arsenic, and lead by USEPA Method 6020A

Table 2-2
Rockwool Industries
Belton, Bell County, Texas
Field Quality Control Sample Summary

SDG	LAB SAMPLE ID	FIELD SAMPLE ID	FIELD QC SAMPLE TYPE	ASSOCIATED SAMPLES
1303040	1303040-15	DUP-2	Field Duplicate	1303040-
	1303040-16	ER-1	Equipment Blank	1303040-01-15
	1303040-17	DUP-1	Field Duplicate	
	1303040-21	MW-35-90	MS/MSD	1303040-21
	1303040-24	ER-2	Equipment Blank	1303040-16-23, 25

3. DATA REVIEW CRITERIA

The laboratory data package review covers a review of the sample-specific items for the TCEQ QAPP criteria listed below.

METHOD	SAMPLE-SPECIFIC REVIEW ITEM	EVALUATION CRITERIA
Metals/ 6020A	Holding Time/Preservation Requirements	Table B2-1
	Blanks	Table B5.1.15 or 16-3
	Laboratory Control Sample	Table D-1
	Laboratory Spike Sample	Table D-1
	Laboratory Duplicate Sample	Table D-1
	Field Duplicate	Section D.2.1.2.2 1.6

The independent review of these items is covered in Section 6 of this DUS.

4. LABORATORY REVIEW CHECKLIST REVIEW CRITERIA

The Laboratory Review Checklist (LRC) review covers a review of the laboratory performance items for the TCEQ QAPP evaluation criteria listed below.

METHOD	LAB PERFORMANCE REVIEW ITEM	EVALUATION CRITERIA
Metals/ 6020A	Instrument Performance	Table B5.1.16-3
	Initial Calibration	Table B5.1 16-3
	Initial and Continuing Calibration Verification	Table B5.1.16-3
	Internal Standard	Table B5.1 16-3
	Interference Check Standard	Section D.2.1.2 1.5
	Serial Dilution	Section D.2.1.2.1.6
	Post Digestion Spike	Section D.2.1.2.1.7
	Method of Standard Addition	Section D.2.1.2.1.8

Results not meeting the evaluation criteria were documented in the LRCs and ERs presented in the data package in Appendix A. The independent review of these items is covered in Section 7.0 of this DUS.

5. DATA VALIDATION CRITERIA

Data validation was performed on the following project analytical batches:

- Metal Batch 56371

Data validation was performed on 10% of the project analytical batches. Laboratory Quality Control Summary sheets were reviewed to confirm that QC problems were properly reported on the Laboratory Control Checklist (LRC). Raw data were checked for calculation and transcription errors. The independent data validation is covered in Section 6.0 of this DUS.

6. DATA REVIEW RESULTS

6.1 METALS

For metals data, the following items are reviewed in this section:

- Holding Time/Preservation Requirements;
- Blanks;
- Laboratory Control Sample;
- Matrix Spike Sample;
- Laboratory Duplicate Sample; and
- Field Duplicates.

The following sections specify the reasons for the data validation qualifiers that are presented in Appendix A.

6.1.1 Holding Time/Preservation Requirements

The maximum holding time from date of collection to date of preparation for metals in aqueous matrix samples is 180 days. The maximum holding time from date of preparation to date of analysis for metals in aqueous matrix samples is 180 days. These holding times were met for all of the samples in this data set. None of the metal data were qualified based on holding times.

6.1.2 Blanks

All associated blanks were free of all reported analytes in concentrations at or greater than the SDLs. None of the metal data were qualified based on blank data.

6.1.3 Laboratory Control Sample (LCS)

The LCS review criteria for metal data are as follows:

ACCURACY (%R)	PRECISION (RPD)
70%-130%	30%

One LCS was analyzed with each analytical batch. These criteria were met for all the samples in this data set. None of the metal data were qualified based on LCS data.

6.1.4 Matrix Spike Sample

The MS/MSD review criteria for metal data are as follows:

ACCURACY (%R)	PRECISION (RPD)
70%-130%	30%

One MS/MSD set was analyzed with every analytical batch. These criteria were met for all the MS/MSD in this data set. None of the metal data were qualified based on MS/MSD data.

6.1.5 Duplicate Sample

The duplicate sample review criteria for metal data when both the sample and duplicate concentrations are greater than 5 times the MQL are as follows:

PRECISION (RPD)
30%

One duplicate sample was analyzed with every analytical batch. These criteria were met for all the samples in this data set that had concentrations for the original and duplicate greater than 5 times the MQL. None of the metal data were qualified based on duplicate data.

6.1.6 Field Duplicates

For aqueous matrix samples, when both the original and duplicate result are greater than 5 times the method quantitation limit (MQL), the Relative Percent Differences (RPD) was equal to or less than 30%. For aqueous matrix samples, when one or both of the original and duplicate results are less than 5 times the MQL, the results agree within 2 times the greater SDL. The results of this evaluation of all detected results are shown in the following table:

SDG	FIELD DUP ID	ANALYTE	ORIGINAL RESULT	DUPLICATE RESULT	QC RESULT	CRITERIA
1303040	1303040-14/15	Antimony	0.306	0.302	RPD:1%	<=30%
		Arsenic	0.346	0.345	RPD:0.3%	<=30%
	1303040-17/19	Antimony	0.335	0.325	RPD:3%	<=30%
		Arsenic	0.00339	0.00276	DIF:0.00063	<=0.004
		Lead	**0.0112**	**0.00566**	**RPD:66%**	**<=30%**

The results in **bold type** above did not meet data review criteria and were qualified as estimated with UJI-FD qualifiers for non-detects and JI-FD qualifiers for detects.

7. DATA VALIDATION RESULTS

The laboratory used for this project appears to have an adequate QA system in place that is designed to ensure the accurate reporting of analytical results generated. All instances in which the analytical QC results fell outside the acceptance criteria were fully and correctly reported in the associated Laboratory Review Checklists.

The following subsections contain a review of the supporting data using the criteria specified in Section 4.

7.1 ICP/MS METALS

For ICP/MS metal data, the following items are reviewed in this section:

- Instrument Performance;
- Initial Calibration;
- Initial and Continuing Calibration Verification;
- Internal Standard;
- Interference Check Sample;
- Serial Dilution, Post Digestion Spike, Method of Standard Addition;

The following sections specify the reasons for the data validation qualifiers that are presented in Appendix A.

7.1.1 Instrument Performance

Instrument performance checks were performed at the proper frequency and met the criteria specified in the Table B5.1.16-3 of the TCEQ QAPP. None of the ICP/MS metal data were qualified based on instrument performance.

7.1.2 Initial Calibration

Initial Calibrations were performed daily prior to sample analysis. None of the ICP/MS metal data were qualified based on initial calibration data.

7.1.3 Initial and Continuing Calibration Verification

Initial Calibration Verifications (ICV) were conducted daily after the initial calibration. Continuing calibration verifications (CCV) were conducted before the first sample run, after every 10 samples, and at the end of the analytical sequence. Initial and Continuing Calibrations Verification were within 10% of the expected value. None of the ICP metal data were qualified based on ICV or CCV data.

7.1.4 Internal Standards

Internal standards were added to all ICP/MS samples and quality control samples associated with this report. Internal standard intensities were within 30% to 120% of the intensity of the internal standard in the initial calibration standard. These criteria were met for all the samples in this data set. None of the ICP/MS data were qualified based on Internal Standard data.

7.1.5 Interference Check Solution

All of the Interference Check Solutions (ICS) were conducted at the beginning of an analytical run or once during a 12-hour period, whichever was more frequent. All ICS were within 20% of the true value. None of the ICP metal data were qualified based on ICS data.

7.1.6 Serial Dilution, Post Digestion Spike, Method of Standard Additions

The serial dilution, post digestion spike, and Method of Standard Additions (MSA) were performed, if needed, at the proper frequency and met the requirements set forth in Sections D.2.1.2.1.6, D.2.1.2.1.7, and D.2.1.2.1.8 of the QAPP, respectively. None of the metal data were qualified based on these QC items.

8. OVERALL ASSESSMENT DATA USABILITY RELATIVE TO PROJECT OBJECTIVES

The data covered by this report are acceptable for use in meeting project objectives specified in the Field Sampling Plan for this project as qualified based on the following data quality assurance objectives:

Accuracy is defined as the degree of agreement between a measurement in a quality control sample and an accepted reference or true value. Accuracy is measured as the percent recovery of an analyte as measured through analysis of Laboratory Control Samples (LCS) and Matrix Spike/ Matrix Spike Duplicates (MS/MSD). Since 100% of the LCS and MS/MSD samples were within the applicable acceptance ranges, the overall level of accuracy is considered acceptable

Precision is defined as the agreement between a set of replicate measurements without knowledge of a true value. Precision is measured by the analysis of laboratory and field duplicates. Since 94% of the field and laboratory duplicate results were within applicable acceptance ranges, the overall level of precision is considered acceptable.

Completeness is measured as the ratio of the number of valid analytical results to the total number of analytical results requested. The completeness criteria of 95% for aqueous samples were met. The overall completeness of 100% is considered acceptable.

Representativeness, as measured by comparing the results obtained for the field duplicate pairs, use of sampling procedures contained in the QAPP, and relevant SOPs, is considered acceptable.

9. DATA USABILITY RELATIVE TO PROJECT OBJECTIVES

The overall objective of operations and maintenance phase of the project are to perform long-term monitoring and operations and maintenance (O&M) activities, in the form of semi-annual groundwater monitoring and other maintenance tasks, as required in support of the ROD for the Site.

9.1 EVALUATION OF SAMPLE DETECTION LIMITS AND METHOD QUANTITATION LIMITS RELATIVE TO THE ACTION LEVELS

Sample Detection Limits (SDLs) are the method detection limits for an analyte adjusted for dilutions and sample size. The maximum SDL for the chemicals of concern with a non-detect result were all below the Protective Concentration Limits (PCLs) specified by D. B. Stephens for the COC as shown below:

TARGET COC	MAXIMUM SDL (mg/l)	Level of Required Performance (LORP) (mg/l)
Antimony	0.00080	0.006
Arsenic	0.00200	0.010
Lead (inorganic)	0.00030	0.005

9.2 POTENTIAL EFFECTS OF BIASES AND IMPRECISION ON USABILITY OF THE DATA

Metals Precision – The following metal result did not meet data review criteria:

SDG	FIELD DUP ID	ANALYTE	ORIGINAL RESULT (mg/l)	DUPLICATE RESULT (mg/l)	LORP (mg/l)
1303040	1303040-17/19(DUP-1/ MW-21)	Lead	0.0112	0.00566	0.005

The interpretation of the lead result for the sample listed above, as being above the LORP was not impacted by the field duplicate result because both the original and field duplicate results were above the LORP.

10. POTENTIAL ADDITIONAL USES AND LIMITATIONS

Other potential data uses have not been identified for this data.

11. CORRECTIVE ACTIONS AND WORKPLAN DEVIATIONS

In order to obtain usable matrix spike/matrix spike duplicate (MS/MSD) QC data to evaluate potential sample matrix interferences, the following corrective action is documented to the field team:

For future sampling events, DBS&A must ensure that a project-specific sample is designated as the MS/MSD sample on the chain-of-custody form, as specified in Element B.5.4.2 of the Federal Superfund Program QAPP and in the TCEQ Superfund Program SOP No. 6.5 (Collection of QA/QC Samples). Additionally, the field team will ensure that sufficient sample volume is collected for the laboratory to perform the MS/MSD QC sample analysis on this project-specific sample. This was done for the March 2013 event.

12. REJECTED DATA AND PROJECT CONSEQUENCES

None of the results associated with this project were rejected based on this data review.

13. CONCLUSIONS

The chemical data covered by this Data Usability Report are considered usable for meeting the project objectives with the qualifications presented in this report.

APPENDIX A

QUALIFIED TRRP REPORTS

Table A-1
Data Qualifier Definitions

Qualifier	Definitions
U	The analyte was analyzed for but was not detected above the sample quantitation limit (SDL). The associated value presented in the tables is the method quantitation limit. The sample quantitation limit is not provided in the tables however, the SDL may be found in the analytical laboratory report.
J	The associated value is an estimated quantity.
UJ	The material was analyzed for but was not detected above the reported sample quantitation limit. The associated value is an estimate and may be inaccurate or imprecise.
N	Tentatively identified; The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	Tentatively identified, reported concentration is estimated: The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents the analyte's approximate concentration.
R	Rejected: The data are unusable. (Note: The presence or absence of the analyte cannot be confirmed.)
X1	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, and is accredited or periodically inspected at least every 3 years by TCEQ.
X2	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is located outside of Texas, and is accredited or periodically inspected by that state.
X3	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is inspected at least every 3 years by the TCEQ, and the work is performed for another company with a unit located on the same site as the laboratory.
X4	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is inspected at least every 3 years by the TCEQ, and the work is performed without compensation for a governmental agency or a charitable organization.

Qualifier	Definitions
X5	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The laboratory is accredited under federal law, including certification by the USEPA to provide these data for decisions related to the Safe Drinking Water Act.
X6	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The laboratory provides these data necessary for emergency response activities and the required analytical data are not available from a laboratory accredited under the Texas Laboratory Accreditation Program.
X7	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The TCEQ does not offer accreditation for this analyte, in this matrix, analyzed by this method.
X8	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The TCEQ does offers accreditation for this analyte, in this matrix, analyzed by this method, but the laboratory is not accredited for this analyte in this matrix by this method. The analyte result is validated and reported as part of a suite of analytes for the method.
X9	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The analyte result was generated prior to July 1, 2008.

Table A-2
Data Validation Qualifier Codes

Qualifier Code	Data Quality Condition Resulting In Assigned Qualification
General Use	
FB	Field blank contamination
FD	Field duplicate evaluation criteria not met
HT	Holding time requirement was not met
LCS	Laboratory control sample evaluation criteria not met
MB	Method blank or preparation blank contamination
RB	Rinsate blank contamination
MQL	Sample quantitation limit exceeds decision criteria (for nondetected
Inorganic Methods	
CCB	Continuing calibration blank contamination
CCV	Continuing calibration verification evaluation criteria not met
D	Laboratory duplicate precision evaluation criteria not met
DL	Serial dilution results did not meet evaluation criteria
ICS	Interference check sample evaluation criteria not met
ICV	Initial calibration verification evaluation criteria not met
MS	Matrix spike recovery outside acceptance range
PDS	Post-digestion spike recovery outside acceptance range
MSA	Method of standard additions correlation coefficient <0.995
PB	Preparation Blank
Organic Methods	
CCAL	Continuing calibration evaluation criteria not met
ICAL	Initial calibration evaluation criteria not met
ID	Target compound identification criteria not met
IS	Internal standard evaluation criteria not met
MS/SD	Matrix spike/matrix spike duplicate accuracy and/or precision criteria
SUR	Surrogate recovery outside acceptance range
TUNE	Instrument performance (tuning) criteria not met
P	Detected concentration difference between the primary and secondary
Bias Codes	
H	Bias in sample result likely to be high
I	Bias in sample result is indeterminate
L	Bias in sample result likely to be low

March 18, 2013

Paul Kirby
D. B. Stephens & Assoc, Inc.
4030 W Braker #325
Austin, Texas 78759
TEL: (512) 821-2765
FAX

Order No.: 1303040

RE: Rockwool Ind. Belton, TX

Dear Paul Kirby:

DHL Analytical, Inc. received 25 sample(s) on 3/6/2013 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-12-9

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DHL ANALYTICAL
2300 Double Creek Dr. ■ Round Rock, TX 78664
Phone (512) 388-8222 ■ FAX (512) 388-8229
Web: www.dhlanalytical.com
E-Mail: login@dhlanalytical.com

№ 58573

CHAIN-OF-CUSTODY

CLIENT: Daniel B. Stephens & Associates
ADDRESS: 4030 W. Braker Lane, Ste. 325, Austin, TX 78759
PHONE: 512-821-2745 FAX/E-MAIL:
DATA REPORTED TO: Billy Gamblin
ADDITIONAL REPORT COPIES TO:

DATE: 3-6-13 PAGE 2 OF 2
PO #: DHL WORK ORDER #: 18465 1323240
PROJECT LOCATION OR NAME: Rockwool Ind. - Belton, TX
CLENT PROJECT #: ES13, AIRS, II COLLECTOR: Bud Shirley

Authorize 5% surcharge for TRRP Report? ☐ Yes ☐ No

S=SOIL W=WATER A=AIR L=LIQUID P=PAINT SL=SLUDGE O=OTHER SO=SOLID

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	PRESERVATION: HCl	HNO3	H2SO4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES: BTEX ☐ MTBE ☐ (METHOD 8021)	TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐	GRO (METHOD 8015) ☐ DRO (METHOD 8105) ☐	VOC 8260 ☐ VOC 624 ☐ VOC 8260/5035 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLD PAH ☐ SVOC 625 ☐	8081 PEST ☐ 608 PEST/PCB ☐ 8082 PCB ☐ 8270 PEST ☐	8270 O-P PEST ☐ 608 PEST/PCB ☐ 8270 PCB ☐	8321 HERB ☐ 8330 EXPL ☐ PERCHLORATE ☐	METALS 6020 ☐ METALS 200.8 ☐ DISS. METALS ☐	RCRA ☐ TX11 ☐ ☐	PH ☐ HEX CHROM ☐ ALKALINITY ☐ ☐	CHLORIDE ☐ ANIONS ☐	TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐	TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	MS/MSD	FIELD NOTES
ER-1	16	3-5-13	1759	W	250 ml	1		X											X									
DUP-1	17	3-6-13	1008	W	250 ml	1		X											X									BE 3-6-13
~~MW-15~~		~~3-6-13~~		~~W~~	~~250 ml~~	~~1~~		X											X									
MW-20	18	3-6-13	0908	W	250 ml	1		X											X									
MW-21	19	3-6-13	1037	W	250 ml	3		X											X							X		
MW-22	20	3-6-13	0949	W	250 ml	1		X											X									
MW-35-90	21	3-6-13	1251	W	250 ml	1		X											X									
MW-37-90	22	3-6-13	1209	W	250 ml	1		X											X									
MW-38-90	23	3-6-13	1125	W	250 ml	1		X											X									
ER-2	24	3-6-13	1309	W	250 ml	1		X											X									
MW-18	25	3-6-13	0747	W	250 ml	1		X											X									
TOTAL						12																						

RELINQUISHED BY: (Signature) 3-6-13/1534 DATE/TIME RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: 0.1 THERM #: 57
CUSTODY SEALS: ☐ BROKEN ☐ INTACT ☒ NOT USED
☐ CARRIER BILL #:
☐ APC DELIVERY
☐ HAND DELIVERED

DHL ANALYTICAL
2300 Double Creek Dr. ■ Round Rock, TX 78664
Phone (512) 388-8222 ■ FAX (512) 388-8229
Web: www.dhlanalytical.com
E-Mail: login@dhlanalytical.com

№ 58572

CHAIN-OF-CUSTODY

CLIENT: Daniel B. Stephens & Associates
ADDRESS: 4030 W. Braker Lane, Ste. 325, Austin, TX 78759
PHONE: 512-821-2765 FAX/E-MAIL:
DATA REPORTED TO: Billy Gamblin
ADDITIONAL REPORT COPIES TO:

DATE: 3-5-13 PAGE 1 OF 2
PO #: DHL WORK ORDER #: 18465 1303040
PROJECT LOCATION OR NAME: Rockwool Ind. - Belton, TX
CLENT PROJECT #: ES13.AIRS.11 COLLECTOR: Bud Shirley

Authorize 5% surcharge for TRRP Report? ☐ Yes ☐ No

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR O=OTHER
L=LIQUID SO=SOLID

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESERVED

ANALYSES: BTEX ☐ MTBE ☐ (METHOD 8021) | TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐ | GRO (METHOD 8015) ☐ DRO (METHOD 8015) ☐ | VOC 8260 ☐ VOC 624 ☐ VOC 8260/5035 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLD PAH ☐ SVOC 625 ☐ | 8081 PEST ☐ 608 PEST/PCB ☐ 8270 PEST ☐ | 8270 O-P PEST ☐ 8082 PCB ☐ 8270 PCB ☐ | 8321 HERB ☐ 8330 EXPL ☐ PERCHLORATE ☐ | METALS 6020 ☐ METALS 200.8 ☐ DISS. METALS ☐ ☐ | RCRA ☐ TX11 ☐ ☐ | PH ☐ HEX. CHROM ☐ ALKALINITY ☐ ☐ | CHLORIDE ☐ ANIONS ☐ ☐ | TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐ | TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	METALS 6020	FIELD NOTES
MW-7	01	3-5-13	1410	W	250ml	1		X				X	
MW-9	02	3-5-13	1202	W	250ml	1		X				X	
MW-10	03	3-5-13	1045	W	250 ml	1		X				X	
MW-11	04	3-5-13	1008	W	250 ml	1		X				X	
MW-14	05	3-5-13	0819	W	250 ml	1		X				X	
MW-17	06	3-5-13	0919	W	250 ml	1		X				X	
MW-19	07	3-5-13	1659	W	250 ml	1		X				X	
MW-24-90	08	3-5-13	1735	W	250 ml	1		X				X	
MW-27-90	09	3-5-13	1557	W	250 ml	1		X				X	
MW-28-90	10	3-5-13	1523	W	250 ml	1		X				X	
MW-29-90	11	3-5-13	1448	W	250 ml	1		X				X	
MW-30-90	12	3-6-13	0814	W	250ml	1		X				X	
MW-33-90	13	3-5-13	1339	W	250ml	1		X				X	
MW-34-90	14	3-5-13	1120	W	250ml	1		X				X	
Dup-2	15	3-5-13	1100	W	250ml	1		X				X	
TOTAL						15							

RELINQUISHED BY: (Signature) DATE/TIME 3-6-13/1534 RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ _____

LABORATORY USE ONLY:
RECEIVING TEMP: 0.5 THERM #: 57
CUSTODY SEALS: ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #: _____
☐ APC DELIVERY
☒ HAND DELIVERED

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name D. B. Stephens & Assoc, Inc. Date Received: 3/6/2013

Work Order Number 1303040 Received by JB

Checklist completed by: Signature 3/6/2013 Date Reviewed by Initials 3/6/2013 Date

Carrier name HaNnd Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☑	No ☐	Not Present ☐
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 ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	0.9 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Adjusted? NO Checked by

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

Page 1 of 1

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: Rockwool Ind. Belton, TX	**Date:** 3/18/13
Reviewer Name: Carlos Castro	**Laboratory Work Order:** 1303040
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-Custody (C-O-C)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?			X		
		2) Were analytical duplicates analyzed at the appropriate frequency?			X		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses, I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: Rockwool Ind. Belton, TX	**Date:** 3/18/13
Reviewer Name: Carlos Castro	**Laboratory Work Order:** 1303040

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?		X			S4-01
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable

4 NR = Not Reviewed

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference,
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5,
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) The amount of analyte measured in the duplicate,
  - b) The calculated RPD, and
  - c) The laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results (DCS results can be found with the Miscellaneous Documents) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

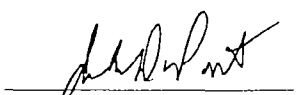
The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on May 17-20, 2011. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager

Scott Schroeder – Technical Director



Signature

03/18/13

Date

DHL Analytical, Inc. Date: *18-Mar-13*

CLIENT: D. B. Stephens & Assoc, Inc.
Project: Rockwool Ind. Belton, TX
Lab Order: 1303040

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis

Exception Report R1-01

The samples were received and log-in performed on 3/6/13. A total of 25 samples were received. The samples arrived in good condition and were properly packaged.

Exception Report R7-03

For Metals analysis performed on 3/14/13 (batch 56372) the matrix spike recovery was slightly below control limits for Antimony. This is flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for this analyte. No further corrective actions were taken.

Exception Report S4-01

For Metals analysis the matrix spike and PDS had low responses for the internal standard Bismuth. The associated analyte (Lead) was within control limits. No further corrective actions were taken.

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT: D. B Stephens & Assoc, Inc
Project: Rockwool Ind. Belton, TX
Lab Order: 1303040

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1303040-01	MW-7		03/05/13 02:10 PM	3/6/2013
1303040-02	MW-9		03/05/13 12:02 PM	3/6/2013
1303040-03	MW-10		03/05/13 10:45 AM	3/6/2013
1303040-04	MW-11		03/05/13 10:08 AM	3/6/2013
1303040-05	MW-14		03/05/13 08:19 AM	3/6/2013
1303040-06	MW-17		03/05/13 09:19 AM	3/6/2013
1303040-07	MW-19		03/05/13 04:59 PM	3/6/2013
1303040-08	MW-24-90		03/05/13 05:35 PM	3/6/2013
1303040-09	MW-27-90		03/05/13 03:57 PM	3/6/2013
1303040-10	MW-28-90		03/05/13 03:23 PM	3/6/2013
1303040-11	MW-29-90		03/05/13 02:48 PM	3/6/2013
1303040-12	MW-30-90		03/05/13 08:14 AM	3/6/2013
1303040-13	MW-33-90		03/05/13 01:39 PM	3/6/2013
1303040-14	MW-34-90		03/05 13 11:20 AM	3 6 2013
1303040-15	DUP-2		03/05/13 11:00 AM	3.6.2013
1303040-16	ER-1		03/05/13 05:59 PM	3/6/2013
1303040-17	DUP-1		03/06/13 10:08 AM	3/6/2013
1303040-18	MW-20		03/06/13 09:08 AM	3/6/2013
1303040-19	MW-21		03/06/13 10:37 AM	3/6/2013
1303040-20	MW-22		03/06/13 09:49 AM	3/6/2013
1303040-21	MW-35-90		03/06/13 12:51 PM	3/6/2013
1303040-22	MW-37-90		03/06/13 12:09 PM	3/6/2013
1303040-23	MW-38-90		03/06/13 11:25 AM	3/6/2013
1303040-24	ER-2		03/06/13 01:09 PM	3/6/2013
1303040-25	MW-18		03/06/13 07:47 AM	3/6/2013

DHL Analytical, Inc.

18-Mar-13

Lab Order: 1303040
Client: D. B. Stephens & Assoc. Inc.
Project: Rockwool Ind. Belton, TX

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1303040-01A	MW-7	03/05/13 02:10 PM	Aqueous	SW3005A	Aq Prep Metals ICP-MS	03/11/13 09:01 AM	56371
1303040-02A	MW-9	03/05/13 12:02 PM	Aqueous	SW3005A	Aq Prep Metals ICP-MS	03/11/13 09:01 AM	56371
1303040-03A	MW-10	03/05/13 10:45 AM	Aqueous	SW3005A	Aq Prep Metals ICP-MS	03/11/13 09:01 AM	56371
1303040-04A	MW-11	03/05/13 10:08 AM	Aqueous	SW3005A	Aq Prep Metals ICP-MS	03/11/13 09:01 AM	56371
1303040-05A	MW-14	03/05/13 08:19 AM	Aqueous	SW3005A	Aq Prep Metals ICP-MS	03/11/13 09:01 AM	56371
1303040-06A	MW-17	03/05/13 09:19 AM	Aqueous	SW3005A	Aq Prep Metals ICP-MS	03/11/13 09:01 AM	56371
1303040-07A	MW-19	03/05/13 04:59 PM	Aqueous	SW3005A	Aq Prep Metals ICP-MS	03/11/13 09:01 AM	56371
1303040-08A	MW-24-90	03/05/13 05:35 PM	Aqueous	SW3005A	Aq Prep Metals ICP-MS	03/11/13 09:01 AM	56371
1303040-09A	MW-27-90	03/05/13 03:57 PM	Aqueous	SW3005A	Aq Prep Metals ICP-MS	03/11/13 09:01 AM	56371
1303040-10A	MW-28-90	03/05/13 03:23 PM	Aqueous	SW3005A	Aq Prep Metals , ICP-MS	03/11/13 09:01 AM	56371
1303040-11A	MW-29-90	03/05/13 02:48 PM	Aqueous	SW3005A	Aq Prep Metals ICP-MS	03/11/13 09:01 AM	56371
1303040-12A	MW-30-90	03/05/13 08:14 AM	Aqueous	SW3005A	Aq Prep Metals ICP-MS	03/11/13 09:01 AM	56371
1303040-13A	MW-33-90	03/05/13 01:39 PM	Aqueous	SW3005A	Aq Prep Metals ICP-MS	03/11/13 09:01 AM	56371
1303040-14A	MW-34-90	03/05/13 11:20 AM	Aqueous	SW3005A	Aq Prep Metals ICP-MS	03/11/13 09:01 AM	56371
1303040-15A	DUP-2	03/05/13 11:00 AM	Aqueous	SW3005A	Aq Prep Metals ICP-MS	03/11/13 09:01 AM	56371
1303040-16A	ER-1	03/05/13 05:59 PM	Equip Blank	SW3005A	Aq Prep Metals ICP-MS	03/11/13 09:01 AM	56371
1303040-17A	DUP-1	03/06/13 10:08 AM	Aqueous	SW3005A	Aq Prep Metals ICP-MS	03/11/13 09:01 AM	56371
1303040-18A	MW-20	03/06/13 09:08 AM	Aqueous	SW3005A	Aq Prep Metals , ICP-MS	03/11/13 09:01 AM	56371
1303040-19A	MW-21	03/06/13 10:37 AM	Aqueous	SW3005A	Aq Prep Metals , ICP-MS	03/11/13 09:01 AM	56371
1303040-20A	MW-22	03/06/13 09:49 AM	Aqueous	SW3005A	Aq Prep Metals , ICP-MS	03/11/13 09:01 AM	56371
1303040-21A	MW-35-90	03/06/13 12:51 PM	Aqueous	SW3005A	Aq Prep Metals , ICP-MS	03/11/13 09:02 AM	56372
	MW-35-90	03/06/13 12:51 PM	Aqueous	SW3005A	Aq Prep Metals ICP-MS	03/11/13 09:02 AM	56372
1303040-22A	MW-37-90	03/06/13 12:09 PM	Aqueous	SW3005A	Aq Prep Metals , ICP-MS	03/11/13 09:02 AM	56372
1303040-23A	MW-38-90	03/06/13 11:25 AM	Aqueous	SW3005A	Aq Prep Metals ICP-MS	03/11/13 09:02 AM	56372
	MW-38-90	03/06/13 11:25 AM	Aqueous	SW3005A	Aq Prep Metals ICP-MS	03/11/13 09:02 AM	56372
1303040-24A	ER-2	03/06/13 01:09 PM	Equip Blank	SW3005A	Aq Prep Metals ICP-MS	03/11/13 09:02 AM	56372
1303040-25A	MW-18	03/06/13 07:47 AM	Aqueous	SW3005A	Aq Prep Metals , ICP-MS	03/11/13 09:02 AM	56372

DHL Analytical, Inc.

18-Mar-13

Lab Order: 1303040
Client: D. B. Stephens & Assoc, Inc.
Project: Rockwool Ind. Belton, TX

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1303040-01A	MW-7	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56371	1	03/11/13 05:05 PM	ICP-MS3_130311B
1303040-02A	MW-9	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56371	1	03/11/13 05:11 PM	ICP-MS3_130311B
1303040-03A	MW-10	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56371	1	03/11/13 05:17 PM	ICP-MS3_130311B
1303040-04A	MW-11	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56371	1	03/11/13 05:23 PM	ICP-MS3_130311B
1303040-05A	MW-14	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56371	1	03/11/13 05:29 PM	ICP-MS3_130311B
1303040-06A	MW-17	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56371	1	03/11/13 05:35 PM	ICP-MS3_130311B
1303040-07A	MW-19	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56371	1	03/11/13 05:42 PM	ICP-MS3_130311B
1303040-08A	MW-24-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56371	1	03/11/13 05:48 PM	ICP-MS3_130311B
1303040-09A	MW-27-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56371	1	03/11/13 05:54 PM	ICP-MS3_130311B
1303040-10A	MW-28-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56371	1	03/11/13 07:12 PM	ICP-MS3_130311B
1303040-11A	MW-29-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56371	1	03/11/13 07:18 PM	ICP-MS3_130311B
1303040-12A	MW-30-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56371	1	03/11/13 07:24 PM	ICP-MS3_130311B
1303040-13A	MW-33-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56371	1	03/11/13 07:30 PM	ICP-MS3_130311B
1303040-14A	MW-34-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56371	1	03/11/13 07:36 PM	ICP-MS3_130311B
1303040-15A	DUP-2	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56371	1	03/11/13 07:42 PM	ICP-MS3_130311B
1303040-16A	ER-1	Equip Blank	SW6020A	Trace Metals: ICP-MS - Water	56371	1	03/11/13 07:48 PM	ICP-MS3_130311B
1303040-17A	DUP-1	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56371	1	03/11/13 07:55 PM	ICP-MS3_130311B
1303040-18A	MW-20	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56371	1	03/11/13 08:01 PM	ICP-MS3_130311B
1303040-19A	MW-21	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56371	1	03/11/13 04:53 PM	ICP-MS3_130311B
1303040-20A	MW-22	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56371	1	03/11/13 08:07 PM	ICP-MS3_130311B
1303040-21A	MW-35-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56372	1	03/13/13 06:08 PM	ICP-MS2_130313C
	MW-35-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56372	10	03/14/13 06:17 PM	ICP-MS2_130314B
1303040-22A	MW-37-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56372	1	03/13/13 06:20 PM	ICP-MS2_130313C
1303040-23A	MW-38-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56372	1	03/13/13 06:25 PM	ICP-MS2_130313C
	MW-38-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56372	10	03/14/13 06:28 PM	ICP-MS2_130314B
1303040-24A	ER-2	Equip Blank	SW6020A	Trace Metals: ICP-MS - Water	56372	1	03/13/13 06:31 PM	ICP-MS2_130313C
1303040-25A	MW-18	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56372	1	03/13/13 06:37 PM	ICP-MS2_130313C

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-7
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1303040-01
Project No:	ES13.AIRS.11	**Collection Date:**	03/05/13 02:10 PM
Lab Order:	1303040	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.00128	0.000800	0.00250	J	mg/L	1	03/11/13 05:05 PM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	03/11/13 05:05 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	03/11/13 05:05 PM

MK 1
6-6-13

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT:	D. B. Stephens & Assoc, Inc	**Client Sample ID:**	MW-9
Project:	Rockwool Ind Belton, TX	**Lab ID:**	1303040-02
Project No:	ES13.AIRS.11	**Collection Date:**	03/05/13 12:02 PM
Lab Order:	1303040	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.212	0.000800	0.00250		mg/L	1	03/11/13 05:11 PM
Arsenic	0.0731	0.00200	0.00500		mg/L	1	03/11/13 05:11 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	03/11/13 05:11 PM

MK 1
6-6-13

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
F - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-10
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1303040-03
Project No:	ES13.AIRS.11	**Collection Date:**	03/05/13 10:45 AM
Lab Order:	1303040	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst **SW**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	03/11/13 05:17 PM
Arsenic	0.00296	0.00200	0.00500	J	mg/L	1	03/11/13 05:17 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	03/11/13 05:17 PM

3/16/13
3-6-13

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF - Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-11
Project:	Rockwool Ind Belton, TX	**Lab ID:**	1303040-04
Project No:	ES13.AIRS.11	**Collection Date:**	03/05/13 10:08 AM
Lab Order:	1303040	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	03/11/13 05:23 PM
Arsenic	0.00353	0.00200	0.00500	J	mg/L	1	03/11/13 05:23 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	03/11/13 05:23 PM

MW-11
6.6.13

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
F - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT:	D. B. Stephens & Assoc, Inc	**Client Sample ID:**	MW-14
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1303040-05
Project No:	ES13.AIRS.11	**Collection Date:**	03/05/13 08:19 AM
Lab Order:	1303040	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	03/11/13 05:29 PM
Arsenic	0.00214	0.00200	0.00500	J	mg/L	1	03/11/13 05:29 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	03/11/13 05:29 PM

MW-1
3-6-13

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
F - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-17
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1303040-06
Project No:	ES13.AIRS.11	**Collection Date:**	03/05/13 09:19 AM
Lab Order:	1303040	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst **SW**
Antimony	0.0314	0.000800	0.00250		mg/L	1	03/11/13 05:35 PM
Arsenic	0.00537	0.00200	0.00500		mg/L	1	03/11/13 05:35 PM
Lead	0.000365	0.000300	0.00100	J	mg/L	1	03/11/13 05:35 PM

MW-1
3-6-13

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-19
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1303040-07
Project No:	ES13.AIRS.11	**Collection Date:**	03/05/13 04:59 PM
Lab Order:	1303040	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.00126	0.000800	0.00250	J	mg/L	1	03/11/13 05:42 PM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	03/11/13 05:42 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	03/11/13 05:42 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-24-90
Project:	Rockwool Ind Belton, TX	**Lab ID:**	1303040-08
Project No:	ES13.AIRS.11	**Collection Date:**	03/05/13 05:35 PM
Lab Order:	1303040	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.00627	0.000800	0.00250		mg/L	1	03/11/13 05:48 PM
Arsenic	0.00821	0.00200	0.00500		mg/L	1	03/11/13 05:48 PM
Lead	0.000551	0.000300	0.00100	J	mg/L	1	03/11/13 05:48 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-27-90
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1303040-09
Project No:	ES13.AIRS.11	**Collection Date:**	03/05/13 03:57 PM
Lab Order:	1303040	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.0630	0.000800	0.00250		mg/L	1	03/11/13 05:54 PM
Arsenic	0.00221	0.00200	0.00500	J	mg/L	1	03/11/13 05:54 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	03/11/13 05:54 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs

S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-28-90
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1303040-10
Project No:	ES13.AIRS.11	**Collection Date:**	03/05/13 03:23 PM
Lab Order:	1303040	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.0224	0.000800	0.00250		mg/L	1	03/11/13 07:12 PM
Arsenic	0.0508	0.00200	0.00500		mg/L	1	03/11/13 07:12 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	03/11/13 07:12 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-29-90
Project:	Rockwool Ind Belton, TX	**Lab ID:**	1303040-11
Project No:	ES13.AIRS.11	**Collection Date:**	03/05/13 02:48 PM
Lab Order:	1303040	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst **SW**
Antimony	0.0306	0.000800	0.00250		mg/L	1	03/11/13 07:18 PM
Arsenic	0.00270	0.00200	0.00500	J	mg/L	1	03/11/13 07:18 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	03/11/13 07:18 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT:	D. B. Stephens & Assoc, Inc	**Client Sample ID:**	MW-30-90
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1303040-12
Project No:	ES13.AIRS.11	**Collection Date:**	03/05/13 08:14 AM
Lab Order:	1303040	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.000839	0.000800	0.00250	J	mg/L	1	03/11/13 07:24 PM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	03/11/13 07:24 PM
Lead	0.00129	0.000300	0.00100		mg/L	1	03/11/13 07:24 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT:	D B. Stephens & Assoc, Inc	**Client Sample ID:**	MW-33-90
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1303040-13
Project No:	ES13.AIRS.11	**Collection Date:**	03/05/13 01:39 PM
Lab Order:	1303040	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst. **SW**
Antimony	0.131	0.000800	0.00250		mg/L	1	03/11/13 07:30 PM
Arsenic	0.0301	0.00200	0.00500		mg/L	1	03/11/13 07:30 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	03/11/13 07:30 PM

Qualifiers:

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See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT:	D. B Stephens & Assoc, Inc.	**Client Sample ID:**	MW-34-90
Project:	Rockwool Ind Belton, TX	**Lab ID:**	1303040-14
Project No:	ES13.AIRS.11	**Collection Date:**	03/05/13 11:20 AM
Lab Order:	1303040	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.306	0.000800	0.00250		mg/L	1	03/11/13 07:36 PM
Arsenic	0.346	0.00200	0.00500		mg/L	1	03/11/13 07:36 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	03/11/13 07:36 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	DUP-2
Project:	Rockwool Ind Belton, TX	**Lab ID:**	1303040-15
Project No:	ES13.AIRS.11	**Collection Date:**	03/05/13 11:00 AM
Lab Order:	1303040	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.302	0.000800	0.00250		mg/L	1	03/11/13 07:42 PM
Arsenic	0.345	0.00200	0.00500		mg/L	1	03/11/13 07:42 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	03/11/13 07:42 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	ER-1
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1303040-16
Project No:	ES13.AIRS.11	**Collection Date:**	03/05/13 05:59 PM
Lab Order:	1303040	**Matrix:**	EQUIP BLANK

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	03/11/13 07:48 PM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	03/11/13 07:48 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	03/11/13 07:48 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	DUP-1
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1303040-17
Project No:	ES13.AIRS.11	**Collection Date:**	03/06/13 10:08 AM
Lab Order:	1303040	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.335	0.000800	0.00250		mg/L	1	03/11/13 07:55 PM
Arsenic	0.00339	0.00200	0.00500	J	mg/L	1	03/11/13 07:55 PM
Lead J1-F2	0.0112	0.000300	0.00100		mg/L	1	03/11/13 07:55 PM E, S

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-20
Project:	Rockwool Ind Belton, TX	**Lab ID:**	1303040-18
Project No:	ES13.AIRS.11	**Collection Date:**	03/06/13 09:08 AM
Lab Order:	1303040	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.00211	0.000800	0.00250	J	mg/L	1	03/11/13 08:01 PM
Arsenic	0.00316	0.00200	0.00500	J	mg/L	1	03/11/13 08:01 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	03/11/13 08:01 PM

3/11/13
3/6/13

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT:	D. B. Stephens & Assoc, Inc	**Client Sample ID:**	MW-21
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1303040-19
Project No:	ES13.AIRS.11	**Collection Date:**	03/06/13 10:37 AM
Lab Order:	1303040	**Matrix:**	AQUEOUS

Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed	
TRACE METALS: ICP-MS - WATER			**SW6020A**					Analyst **SW**	
Antimony		0.325	0.000800	0.00250		mg/L	1	03/11/13 04:53 PM	
Arsenic		0.00276	0.00200	0.00500	J	mg/L	1	03/11/13 04:53 PM	
Lead	J1-FD	0.00566	0.000300	0.00100		mg/L	1	03/11/13 04:53 PM	ECS

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-22
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1303040-20
Project No:	ES13.AIRS.11	**Collection Date:**	03/06/13 09:49 AM
Lab Order:	1303040	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.00146	0.000800	0.00250	J	mg/L	1	03/11/13 08:07 PM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	03/11/13 08:07 PM
Lead	0.000856	0.000300	0.00100	J	mg/L	1	03/11/13 08:07 PM

3/18/13
6-6-13

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT:	D B Stephens & Assoc, Inc.	**Client Sample ID:**	MW-35-90
Project:	Rockwool Ind Belton, TX	**Lab ID:**	1303040-21
Project No:	ES13.AIRS.11	**Collection Date:**	03/06/13 12:51 PM
Lab Order:	1303040	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	1.31	0.00800	0.0250		mg/L	10	03/14/13 06:17 PM
Arsenic	0.0957	0.00200	0.00500		mg/L	1	03/13/13 06:08 PM
Lead	0.000598	0.000300	0.00100	J	mg/L	1	03/13/13 06:08 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-37-90
Project:	Rockwool Ind Belton, TX	**Lab ID:**	1303040-22
Project No:	ES13.AIRS.11	**Collection Date:**	03/06/13 12:09 PM
Lab Order:	1303040	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.00144	0.000800	0.00250	J	mg/L	1	03/13/13 06:20 PM
Arsenic	0.0451	0.00200	0.00500		mg/L	1	03/13/13 06:20 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	03/13/13 06:20 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-38-90
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1303040-23
Project No:	ES13.AIRS.11	**Collection Date:**	03/06/13 11:25 AM
Lab Order:	1303040	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.911	0.00800	0.0250		mg/L	10	03/14/13 06:28 PM
Arsenic	0.00418	0.00200	0.00500	J	mg/L	1	03/13/13 06:25 PM
Lead	0.000396	0.000300	0.00100	J	mg/L	1	03/13/13 06:25 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
F - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	ER-2
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1303040-24
Project No:	ES13.AIRS.11	**Collection Date:**	03/06/13 01:09 PM
Lab Order:	1303040	**Matrix:**	EQUIP BLANK

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	03/13/13 06:31 PM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	03/13/13 06:31 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	03/13/13 06:31 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-18
Project:	Rockwool Ind. Belton, TX	**Lab ID:**	1303040-25
Project No:	ES13.AIRS.11	**Collection Date:**	03/06/13 07:47 AM
Lab Order:	1303040	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.00118	0.000800	0.00250	J	mg/L	1	03/13/13 06:37 PM
Arsenic	0.00785	0.00200	0.00500		mg/L	1	03/13/13 06:37 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	03/13/13 06:37 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: 18-Mar-13

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1303040
Project: Rockwool Ind. Belton, TX

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130201B

Sample ID: DCS-55786-1	Batch ID: 55786	TestNo: SW6020A	Units: mg/L
SampType: DCS	Run ID: ICP-MS2_130201B	Analysis Date: 2/1/2013 3:07:00 PM	Prep Date: 1/29/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00106	0.00250	0.00100	0	106	60	140	0	0	
Arsenic	0.00114	0.00500	0.00100	0	114	60	140	0	0	
Lead	0.00103	0.00100	0.00100	0	103	60	140	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1303040
Project: Rockwool Ind. Belton, TX

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130313C

The QC data in batch 56372 applies to the following samples. 1303040-21A, 1303040-22A, 1303040-23A, 1303040-24A, 1303040-25A

Sample ID: **MB-56372** Batch ID: **56372** TestNo: **SW6020A** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS2_130313C** Analysis Date: **3/13/2013 5:44:00 PM** Prep Date: **3/11/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.000800	0.00250								
Arsenic	<0.00200	0.00500								
Lead	<0.000300	0.00100								

Sample ID: **LCS-56372** Batch ID: **56372** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCS** Run ID: **ICP-MS2_130313C** Analysis Date: **3/13/2013 5:50:00 PM** Prep Date: **3/11/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.187	0.00250	0.200	0	93.7	80	120			
Arsenic	0.196	0.00500	0.200	0	97.9	80	120			
Lead	0.189	0.00100	0.200	0	94.4	80	120			

Sample ID: **LCSD-56372** Batch ID: **56372** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCSD** Run ID: **ICP-MS2_130313C** Analysis Date: **3/13/2013 5:56:00 PM** Prep Date: **3/11/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.185	0.00250	0.200	0	92.5	80	120	1.29	15	
Arsenic	0.188	0.00500	0.200	0	94.0	80	120	4.12	15	
Lead	0.186	0.00100	0.200	0	93.1	80	120	1.39	15	

Sample ID: **1303040-21A SD** Batch ID: **56372** TestNo: **SW6020A** Units: **mg/L**
SampType: **SD** Run ID: **ICP-MS2_130313C** Analysis Date: **3/13/2013 6:14:00 PM** Prep Date: **3/11/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.102	0.0250	0	0.0957				6.53	10	
Lead	<0.00150	0.00500	0	0.000598				0	10	

Sample ID: **1303040-21A PDS** Batch ID: **56372** TestNo: **SW6020A** Units: **mg/L**
SampType: **PDS** Run ID: **ICP-MS2_130313C** Analysis Date: **3/13/2013 6:43:00 PM** Prep Date: **3/11/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.277	0.00500	0.200	0.0957	90.8	80	120			
Lead	0.204	0.00100	0.200	0.000598	102	80	120			

Sample ID: **1303040-21A MS** Batch ID: **56372** TestNo: **SW6020A** Units: **mg/L**
SampType: **MS** Run ID: **ICP-MS2_130313C** Analysis Date: **3/13/2013 6:49:00 PM** Prep Date: **3/11/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.272	0.00500	0.200	0.0957	88.1	80	120			
Lead	0.195	0.00100	0.200	0.000598	97.1	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1303040
Project: Rockwool Ind. Belton, TX

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130313C

Sample ID: **1303040-21A MSD**	Batch ID: **56372**	TestNo: **SW6020A**	Units **mg/L**
SampType: **MSD**	Run ID: **ICP-MS2_130313C**	Analysis Date: **3/13/2013 6:55:00 PM**	Prep Date: **3/11/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	1.63	0.00250	0.200	1.44	94.0	80	120	3.50	15	
Arsenic	0.280	0.00500	0.200	0.0957	92.4	80	120	3.11	15	
Lead	0.204	0.00100	0.200	0.000598	102	80	120	4.56	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc
Work Order: 1303040
Project: Rockwool Ind. Belton, TX

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130313C

Sample ID: **ICV1-130313** Batch ID: **R65306** TestNo: **SW6020A** Units: **mg/L**
SampType **ICV** Run ID: **ICP-MS2_130313C** Analysis Date: **3/13/2013 2:16:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.0988	0.00250	0.100	0	98.8	90	110			
Arsenic	0.101	0.00500	0.100	0	101	90	110			
Lead	0.0983	0.00100	0.100	0	98.3	90	110			

Sample ID: **ILCVL-130313** Batch ID: **R65306** TestNo: **SW6020A** Units: **mg/L**
SampType **LCVL** Run ID: **ICP-MS2_130313C** Analysis Date: **3/13/2013 2:34:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00201	0.00250	0.00200	0	100	70	130			
Arsenic	0.00575	0.00500	0.00500	0	115	70	130			
Lead	0.00105	0.00100	0.00100	0	105	70	130			

Sample ID: **CCV1-130313** Batch ID: **R65306** TestNo: **SW6020A** Units: **mg/L**
SampType **CCV** Run ID: **ICP-MS2_130313C** Analysis Date: **3/13/2013 4:50:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.199	0.00250	0.200	0	99.4	90	110			
Arsenic	0.201	0.00500	0.200	0	101	90	110			
Lead	0.196	0.00100	0.200	0	98.2	90	110			

Sample ID: **LCVL1-130313** Batch ID: **R65306** TestNo: **SW6020A** Units: **mg/L**
SampType **LCVL** Run ID: **ICP-MS2_130313C** Analysis Date: **3/13/2013 5:26:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00224	0.00250	0.00200	0	112	70	130			
Arsenic	0.00549	0.00500	0.00500	0	110	70	130			
Lead	0.00104	0.00100	0.00100	0	104	70	130			

Sample ID: **CCV2-130313** Batch ID: **R65306** TestNo: **SW6020A** Units: **mg/L**
SampType: **CCV** Run ID: **ICP-MS2_130313C** Analysis Date: **3/13/2013 7:01:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.206	0.00250	0.200	0	103	90	110			
Arsenic	0.212	0.00500	0.200	0	106	90	110			
Lead	0.206	0.00100	0.200	0	103	90	110			

Sample ID: **LCVL2-130313** Batch ID: **R65306** TestNo: **SW6020A** Units **mg/L**
SampType **LCVL** Run ID: **ICP-MS2_130313C** Analysis Date: **3/13/2013 7:37:00 PM** Prep Date

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00253	0.00250	0.00200	0	126	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1303040
Project: Rockwool Ind. Belton, TX

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130313C

Sample ID: **LCVL2-130313** Batch ID: **R65306** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCVL** Run ID: **ICP-MS2_130313C** Analysis Date: **3/13/2013 7:37:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00580	0.00500	0.00500	0	116	70	130			
Lead	0.00106	0.00100	0.00100	0	106	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1303040
Project: Rockwool Ind. Belton, TX

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130314B

The QC data in batch 56372 applies to the following samples: 1303040-21A, 1303040-22A, 1303040-23A, 1303040-24A, 1303040-25A

Sample ID: **1303040-21A SD** Batch ID: **56372** TestNo: **SW6020A** Units: **mg/L**
SampType: **SD** Run ID: **ICP-MS2_130314B** Analysis Date: **3/14/2013 6:22:00 PM** Prep Date: **3/11/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	1.32	0.125	0	1.31				1.07	10	

Sample ID: **1303040-21A PDS** Batch ID: **56372** TestNo: **SW6020A** Units: **mg/L**
SampType: **PDS** Run ID: **ICP-MS2_130314B** Analysis Date: **3/14/2013 6:34:00 PM** Prep Date: **3/11/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	3.02	0.0250	2.00	1.31	85.6	80	120			

Sample ID: **1303040-21A MS** Batch ID: **56372** TestNo: **SW6020A** Units: **mg/L**
SampType: **MS** Run ID: **ICP-MS2_130314B** Analysis Date: **3/14/2013 6:40:00 PM** Prep Date: **3/11/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	1.46	0.0250	0.200	1.31	79.0	80	120			S

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B Stephens & Assoc, Inc.
Work Order: 1303040
Project: Rockwool Ind. Belton, TX

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130314B

Sample ID: ICV1-130314	Batch ID: R65325	TestNo: SW6020A	Units: mg/L
SampType: ICV	Run ID: ICP-MS2_130314B	Analysis Date: 3/14/2013 1:15:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.0957	0.00250	0.100	0	95.7	90	110			

Sample ID: CCV2-130314	Batch ID: R65325	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS2_130314B	Analysis Date: 3/14/2013 5:23:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.196	0.00250	0.200	0	97.9	90	110			

Sample ID: LCVL2-130314	Batch ID: R65325	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS2_130314B	Analysis Date: 3/14/2013 5:59:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00206	0.00250	0.00200	0	103	70	130			

Sample ID: CCV3-130314	Batch ID: R65325	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS2_130314B	Analysis Date: 3/14/2013 6:46:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.202	0.00250	0.200	0	101	90	110			

Sample ID: LCVL3-130314	Batch ID: R65325	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS2_130314B	Analysis Date: 3/14/2013 7:22:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00219	0.00250	0.00200	0	109	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1303040
Project: Rockwool Ind. Belton, TX

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130102A

Sample ID: **DCS-54340-1.1**	Batch ID: **54340**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **DCS**	Run ID: **ICP-MS3_130102A**	Analysis Date: **1/2/2013 12:41:00 PM**	Prep Date: **10/23/2012**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00103	0.00250	0.00100	0	103	60	140	0	0	
Arsenic	0.000976	0.00500	0.00100	0	97.6	60	140	0	0	
Lead	0.00102	0.00100	0.00100	0	102	60	140	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1303040
Project: Rockwool Ind. Belton, TX

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130311B

The QC data in batch 56371 applies to the following samples: 1303040-01A, 1303040-02A, 1303040-03A, 1303040-04A, 1303040-05A, 1303040-06A, 1303040-07A, 1303040-08A, 1303040-09A, 1303040-10A, 1303040-11A, 1303040-12A, 1303040-13A 1303040-14A, 1303040-15A, 1303040-16A, 1303040-17A, 1303040-18A, 1303040-19A, 1303040-20A

Sample ID: **MB-56371** Batch ID: **56371** TestNo: **SW6020A** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS3_130311B** Analysis Date: **3/11/2013 4:29:00 PM** Prep Date: **3/11/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.000800	0.00250								
Arsenic	<0.00200	0.00500								
Lead	<0.000300	0.00100								

Sample ID: **LCS-56371** Batch ID: **56371** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCS** Run ID: **ICP-MS3_130311B** Analysis Date: **3/11/2013 4:35:00 PM** Prep Date: **3/11/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.181	0.00250	0.200	0	90.4	80	120			
Arsenic	0.184	0.00500	0.200	0	92.0	80	120			
Lead	0.183	0.00100	0.200	0	91.4	80	120			

Sample ID: **LCSD-56371** Batch ID: **56371** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCSD** Run ID: **ICP-MS3_130311B** Analysis Date: **3/11/2013 4:41:00 PM** Prep Date **3/11/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.181	0.00250	0.200	0	90.3	80	120	0.055	15	
Arsenic	0.183	0.00500	0.200	0	91.4	80	120	0.654	15	
Lead	0.182	0.00100	0.200	0	91.2	80	120	0.110	15	

Sample ID: **1303040-19A SD** Batch ID: **56371** TestNo: **SW6020A** Units: **mg/L**
SampType: **SD** Run ID: **ICP-MS3_130311B** Analysis Date: **3/11/2013 4:59:00 PM** Prep Date: **3/11/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.320	0.0125	0	0.325				1.39	10	
Arsenic	<0.0100	0.0250	0	0.00276				0	10	
Lead	0.00606	0.00500	0	0.00566				6.73	10	

Sample ID: **1303040-19A PDS** Batch ID: **56371** TestNo: **SW6020A** Units: **mg/L**
SampType: **PDS** Run ID: **ICP-MS3_130311B** Analysis Date: **3/11/2013 6:00:00 PM** Prep Date: **3/11/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.511	0.00250	0.200	0.325	93.1	80	120			
Arsenic	0.191	0.00500	0.200	0.00276	94.2	80	120			
Lead	0.189	0.00100	0.200	0.00566	91.7	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc
Work Order: 1303040
Project: Rockwool Ind. Belton, TX

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130311B

Sample ID: 1303040-19A MS	Batch ID: 56371	TestNo: SW6020A	Units: mg/L
SampType: MS	Run ID: ICP-MS3_130311B	Analysis Date: 3/11/2013 6:06:00 PM	Prep Date: 3/11/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.556	0.00250	0.200	0.325	116	80	120			
Arsenic	0.195	0.00500	0.200	0.00276	95.9	80	120			
Lead	0.198	0.00100	0.200	0.00566	96.1	80	120			

Sample ID: 1303040-19A MSD	Batch ID: 56371	TestNo: SW6020A	Units: mg/L
SampType: MSD	Run ID: ICP-MS3_130311B	Analysis Date: 3/11/2013 6:12:00 PM	Prep Date: 3/11/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.546	0.00250	0.200	0.325	110	80	120	1.94	15	
Arsenic	0.190	0.00500	0.200	0.00276	93.8	80	120	2.23	15	
Lead	0.194	0.00100	0.200	0.00566	94.4	80	120	1.68	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1303040
Project: Rockwool Ind. Belton, TX

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130311B

Sample ID: ICV1-130311	Batch ID: R65273	TestNo: SW6020A	Units mg/L
SampType: ICV	Run ID: ICP-MS3_130311B	Analysis Date: 3/11/2013 2:08:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.0936	0.00250	0.100	0	93.6	90	110			
Arsenic	0.0985	0.00500	0.100	0	98.5	90	110			
Lead	0.0936	0.00100	0.100	0	93.6	90	110			

Sample ID: ILCVL-130311	Batch ID: R65273	TestNo: SW6020A	Units mg/L
SampType: LCVL	Run ID: ICP-MS3_130311B	Analysis Date: 3/11/2013 2:26:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00193	0.00250	0.00200	0	96.6	70	130			
Arsenic	0.00533	0.00500	0.00500	0	107	70	130			
Lead	0.00105	0.00100	0.00100	0	105	70	130			

Sample ID: CCV1-130311	Batch ID: R65273	TestNo: SW6020A	Units mg/L
SampType: CCV	Run ID: ICP-MS3_130311B	Analysis Date: 3/11/2013 3:46:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.194	0.00250	0.200	0	97.2	90	110			
Arsenic	0.192	0.00500	0.200	0	95.8	90	110			
Lead	0.186	0.00100	0.200	0	93.0	90	110			

Sample ID: LCVL1-130311	Batch ID: R65273	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130311B	Analysis Date: 3/11/2013 4:11:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00201	0.00250	0.00200	0	100	70	130			
Arsenic	0.00548	0.00500	0.00500	0	110	70	130			
Lead	0.00103	0.00100	0.00100	0	103	70	130			

Sample ID: CCV2-130311	Batch ID: R65273	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS3_130311B	Analysis Date: 3/11/2013 6:18:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.196	0.00250	0.200	0	98.0	90	110			
Arsenic	0.192	0.00500	0.200	0	96.1	90	110			
Lead	0.188	0.00100	0.200	0	94.2	90	110			

Sample ID: LCVL2-130311	Batch ID: R65273	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130311B	Analysis Date: 3/11/2013 6:54:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00207	0.00250	0.00200	0	104	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1303040
Project: Rockwool Ind. Belton, TX

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130311B

Sample ID: LCVL2-130311	Batch ID: R65273	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130311B	Analysis Date: 3/11/2013 6:54:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00543	0.00500	0.00500	0	109	70	130			
Lead	0.00107	0.00100	0.00100	0	107	70	130			

Sample ID: CCV3-130311	Batch ID: R65273	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS3_130311B	Analysis Date: 3/11/2013 8:13:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.191	0.00250	0.200	0	95.7	90	110			
Arsenic	0.190	0.00500	0.200	0	94.8	90	110			
Lead	0.187	0.00100	0.200	0	93.6	90	110			

Sample ID: LCVL3-130311	Batch ID: R65273	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130311B	Analysis Date: 3/11/2013 8:49:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00207	0.00250	0.00200	0	103	70	130			
Arsenic	0.00528	0.00500	0.00500	0	106	70	130			
Lead	0.00105	0.00100	0.00100	0	105	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

DHL Analytical, Inc.

Date: *18-Mar-13*

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1303040
Project: Rockwool Ind. Belton, TX

MQL SUMMARY REPORT

TestNo: SW6020A	MDL	MQL
Analyte	**mg/L**	**mg/L**
Antimony	0.000800	0.00250
Arsenic	0.00200	0.00500
Lead	0.000300	0.00100

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

APPENDIX B

LABORATORY NELAP CERTIFICATE

Texas Commission on Environmental Quality

NELAP-Recognized Laboratory Accreditation is hereby awarded to

DHL Analytical, Inc.

2300 Double Creek Drive
Round Rock, TX 78664-3801

in accordance with Texas Water Code Chapter 5, Subchapter R, Title 30 Texas Administrative Code Chapter 25, and the National Environmental Laboratory Accreditation Program.

The laboratory's scope of accreditation includes the fields of accreditation that accompany this certificate. Continued accreditation depends upon successful ongoing participation in the program. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current location(s) and accreditation status for particular methods and analyses (www.tceq.texas.gov/goto/lab). Accreditation does not imply that a product, process, system or person is approved by the Texas Commission on Environmental Quality.

Certificate Number: T104704211-12-8
Effective Date: 5/1/2012
Expiration Date: 4/30/2013

Executive Director Texas Commission on Environmental Quality

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate:	T104704211-12-8
Expiration Date:	4/30/2013
Issue Date:	5/1/2012

DHL Analytical, Inc.

2300 Double Creek Drive
Round Rock, TX 78664-3801

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Non-Potable Water***

Method EPA 1010

Analyte	AB	Analyte ID	Method ID
Ignitability	TX	1780	10116606

Method EPA 120.1

Analyte	AB	Analyte ID	Method ID
Conductivity	TX	1610	10006403

Method EPA 1311

Analyte	AB	Analyte ID	Method ID
TCLP	TX	849	10118806

Method EPA 1312

Analyte	AB	Analyte ID	Method ID
SPLP	TX	850	10119003

Method EPA 150.1

Analyte	AB	Analyte ID	Method ID
pH	TX	1900	10008409

Method EPA 160.1

Analyte	AB	Analyte ID	Method ID
Residue-filterable (TDS)	TX	1955	10009208

Method EPA 160.2

Analyte	AB	Analyte ID	Method ID
Residue-nonfilterable (TSS)	TX	1960	10009606

Method EPA 1664

Analyte	AB	Analyte ID	Method ID
n-Hexane Extractable Material (HEM) (O&G)	TX	1803	10127807

Method EPA 180.1

Analyte	AB	Analyte ID	Method ID
Turbidity	TX	2055	10011606

Method EPA 200.8

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10014605
Antimony	TX	1005	10014605
Arsenic	TX	1010	10014605

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

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Round Rock, TX 78664-3801

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Expiration Date: 4/30/2013
Issue Date: 5/1/2012

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Matrix: ***Non-Potable Water***

Barium	TX	1015	10014605
Beryllium	TX	1020	10014605
Boron	TX	1025	10014605
Cadmium	TX	1030	10014605
Calcium	TX	1035	10014605
Chromium	TX	1040	10014605
Cobalt	TX	1050	10014605
Copper	TX	1055	10014605
Iron	TX	1070	10014605
Lead	TX	1075	10014605
Magnesium	TX	1085	10014605
Manganese	TX	1090	10014605
Molybdenum	TX	1100	10014605
Nickel	TX	1105	10014605
Potassium	TX	1125	10014605
Selenium	TX	1140	10014605
Silver	TX	1150	10014605
Sodium	TX	1155	10014605
Strontium	TX	1160	10014605
Thallium	TX	1165	10014605
Tin	TX	1175	10014605
Titanium	TX	1180	10014605
Vanadium	TX	1185	10014605
Zinc	TX	1190	10014605

Method EPA 245.1

Analyte	AB	Analyte ID	Method ID
Mercury	TX	1095	10036609

Method EPA 300.0

Analyte	AB	Analyte ID	Method ID
Bromide	TX	1540	10053006
Chloride	TX	1575	10053006

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate:	T104704211-12-8
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Issue Date:	5/1/2012

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2300 Double Creek Drive
Round Rock, TX 78664-3801

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Matrix: ***Non-Potable Water***

Fluoride	TX	1730	10053006
Nitrate as N	TX	1810	10053006
Nitrate-nitrite	TX	1820	10053006
Nitrite as N	TX	1840	10053006
Sulfate	TX	2000	10053006

Method EPA 305.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Acidity, as CaCO3	TX	1500	10054203

Method EPA 310.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Alkalinity as CaCO3	TX	1505	10054805

Method EPA 335.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Amenable cyanide	TX	1510	10060001

Method EPA 335.2

Analyte	**AB**	**Analyte ID**	**Method ID**
Total cyanide	TX	1645	10060205

Method EPA 365.2

Analyte	**AB**	**Analyte ID**	**Method ID**
Orthophosphate as P	TX	1870	10070403
Phosphorus	TX	1910	10070403

Method EPA 370.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Silica as SiO2	TX	1990	10072001

Method EPA 376.2

Analyte	**AB**	**Analyte ID**	**Method ID**
Sulfide	TX	2005	10074609

Method EPA 415.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Total Organic Carbon (TOC)	TX	2040	10078407

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

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Matrix: ***Non-Potable Water***

Method EPA 602

Analyte	AB	Analyte ID	Method ID
Benzene	TX	4375	10102202
Ethylbenzene	TX	4765	10102202
m+p-xylene	TX	5240	10102202
Methyl tert-butyl ether (MTBE)	TX	5000	10102202
o-Xylene	TX	5250	10102202
Toluene	TX	5140	10102202
Xylene (total)	TX	5260	10102202

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10156204
Antimony	TX	1005	10156204
Arsenic	TX	1010	10156204
Barium	TX	1015	10156204
Beryllium	TX	1020	10156204
Boron	TX	1025	10156204
Cadmium	TX	1030	10156204
Calcium	TX	1035	10156204
Chromium	TX	1040	10156204
Cobalt	TX	1050	10156204
Copper	TX	1055	10156204
Iron	TX	1070	10156204
Lead	TX	1075	10156204
Lithium	TX	1080	10156204
Magnesium	TX	1085	10156204
Manganese	TX	1090	10156204
Molybdenum	TX	1100	10156204
Nickel	TX	1105	10156204
Potassium	TX	1125	10156204
Selenium	TX	1140	10156204

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate:	T104704211-12-8
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Matrix: ***Non-Potable Water***

Silver	TX	1150	10156204
Sodium	TX	1155	10156204
Strontium	TX	1160	10156204
Thallium	TX	1165	10156204
Tin	TX	1175	10156204
Titanium	TX	1180	10156204
Vanadium	TX	1185	10156204
Zinc	TX	1190	10156204

Method EPA 608

Analyte	**AB**	**Analyte ID**	**Method ID**
Aroclor-1016 (PCB-1016)	TX	8880	10103603
Aroclor-1221 (PCB-1221)	TX	8885	10103603
Aroclor-1232 (PCB-1232)	TX	8890	10103603
Aroclor-1242 (PCB-1242)	TX	8895	10103603
Aroclor-1248 (PCB-1248)	TX	8900	10103603
Aroclor-1254 (PCB-1254)	TX	8905	10103603
Aroclor-1260 (PCB-1260)	TX	8910	10103603

Method EPA 624

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1-Trichloroethane	TX	5160	10107207
1,1,2,2-Tetrachloroethane	TX	5110	10107207
1,1,2-Trichloroethane	TX	5165	10107207
1,1-Dichloroethane	TX	4630	10107207
1,1-Dichloroethylene	TX	4640	10107207
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10107207
1,2-Dichlorobenzene	TX	4610	10107207
1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10107207
1,2-Dichloropropane	TX	4655	10107207
1,3-Dichlorobenzene	TX	4615	10107207
1,4-Dichlorobenzene	TX	4620	10107207
2-Butanone (Methyl ethyl ketone, MEK)	TX	4410	10107207

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate:	T104704211-12-8
Expiration Date:	4/30/2013
Issue Date:	5/1/2012

DHL Analytical, Inc.

2300 Double Creek Drive
Round Rock, TX 78664-3801

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: *Non-Potable Water*

2-Chloroethyl vinyl ether	TX	4500	10107207
Acetone (2-Propanone)	TX	4315	10107207
Acrolein (Propenal)	TX	4325	10107207
Acrylonitrile	TX	4340	10107207
Benzene	TX	4375	10107207
Bromodichloromethane	TX	4395	10107207
Bromoform	TX	4400	10107207
Carbon tetrachloride	TX	4455	10107207
Chlorobenzene	TX	4475	10107207
Chlorodibromomethane	TX	4575	10107207
Chloroethane (Ethyl chloride)	TX	4485	10107207
Chloroform	TX	4505	10107207
cis-1,2-Dichloroethylene	TX	4645	10107207
cis-1,3-Dichloropropene	TX	4680	10107207
Ethylbenzene	TX	4765	10107207
m+p-xylene	TX	5240	10107207
Methyl bromide (Bromomethane)	TX	4950	10107207
Methyl chloride (Chloromethane)	TX	4960	10107207
Methyl tert-butyl ether (MTBE)	TX	5000	10107207
Methylene chloride (Dichloromethane)	TX	4975	10107207
Naphthalene	TX	5005	10107207
o-Xylene	TX	5250	10107207
Tetrachloroethylene (Perchloroethylene)	TX	5115	10107207
Toluene	TX	5140	10107207
Total trihalomethanes	TX	5205	10107207
trans-1,2-Dichloroethylene	TX	4700	10107207
trans-1,3-Dichloropropylene	TX	4685	10107207
Trichloroethene (Trichloroethylene)	TX	5170	10107207
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10107207
Vinyl chloride	TX	5235	10107207

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate:	T104704211-12-8
Expiration Date:	4/30/2013
Issue Date:	5/1/2012

DHL Analytical, Inc.

2300 Double Creek Drive
Round Rock, TX 78664-3801

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Matrix: *Non-Potable Water*

Xylene (total)	TX	5260	10107207

Method EPA 625

Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	TX	6715	10107401
1,2,4-Trichlorobenzene	TX	5155	10107401
1,2-Dichlorobenzene	TX	4610	10107401
1,2-Diphenylhydrazine	TX	6220	10107401
1,3-Dichlorobenzene	TX	4615	10107401
1,4-Dichlorobenzene	TX	4620	10107401
2,3,4,6-Tetrachlorophenol	TX	6735	10107401
2,4,5-Trichlorophenol	TX	6835	10107401
2,4,6-Trichlorophenol	TX	6840	10107401
2,4-Dichlorophenol	TX	6000	10107401
2,4-Dimethylphenol	TX	6130	10107401
2,4-Dinitrophenol	TX	6175	10107401
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10107401
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10107401
2-Chloronaphthalene	TX	5795	10107401
2-Chlorophenol	TX	5800	10107401
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10107401
2-Methylphenol (o-Cresol)	TX	6400	10107401
2-Nitrophenol	TX	6490	10107401
3,3'-Dichlorobenzidine	TX	5945	10107401
4,4'-DDD	TX	7355	10107401
4,4'-DDE	TX	7360	10107401
4,4'-DDT	TX	7365	10107401
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10107401
4-Chloro-3-methylphenol	TX	5700	10107401
4-Chlorophenyl phenylether	TX	5825	10107401
4-Methylphenol (p-Cresol)	TX	6410	10107401

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Matrix: *Non-Potable Water*

4-Nitrophenol	TX	6500	10107401
Acenaphthene	TX	5500	10107401
Acenaphthylene	TX	5505	10107401
Aldrin	TX	7025	10107401
alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10107401
alpha-Chlordane	TX	7240	10107401
Anthracene	TX	5555	10107401
Aroclor-1016 (PCB-1016)	TX	8880	10107401
Aroclor-1221 (PCB-1221)	TX	8885	10107401
Aroclor-1232 (PCB-1232)	TX	8890	10107401
Aroclor-1242 (PCB-1242)	TX	8895	10107401
Aroclor-1248 (PCB-1248)	TX	8900	10107401
Aroclor-1254 (PCB-1254)	TX	8905	10107401
Aroclor-1260 (PCB-1260)	TX	8910	10107401
Benzidine	TX	5595	10107401
Benzo(a)anthracene	TX	5575	10107401
Benzo(a)pyrene	TX	5580	10107401
Benzo(b)fluoranthene	TX	5585	10107401
Benzo(g,h,i)perylene	TX	5590	10107401
Benzo(k)fluoranthene	TX	5600	10107401
beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10107401
bis(2-Chloroethoxy)methane	TX	5760	10107401
bis(2-Chloroethyl) ether	TX	5765	10107401
bis(2-Chloroisopropyl) ether	TX	5780	10107401
bis(2-Ethylhexyl) phthalate (DEHP)	TX	6255	10107401
Butyl benzyl phthalate	TX	5670	10107401
Chrysene	TX	5855	10107401
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10107401
Dibenz(a,h) anthracene	TX	5895	10107401
Dieldrin	TX	7470	10107401

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Matrix: ***Non-Potable Water***

Diethyl phthalate	TX	6070	10107401
Dimethyl phthalate	TX	6135	10107401
Di-n-butyl phthalate	TX	5925	10107401
Di-n-octyl phthalate	TX	6200	10107401
Endosulfan I	TX	7510	10107401
Endosulfan II	TX	7515	10107401
Endosulfan sulfate	TX	7520	10107401
Endrin	TX	7540	10107401
Endrin aldehyde	TX	7530	10107401
Fluoranthene	TX	6265	10107401
Fluorene	TX	6270	10107401
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10107401
gamma-Chlordane	TX	7245	10107401
Heptachlor	TX	7685	10107401
Heptachlor epoxide	TX	7690	10107401
Hexachlorobenzene	TX	6275	10107401
Hexachlorobutadiene	TX	4835	10107401
Hexachlorocyclopentadiene	TX	6285	10107401
Hexachloroethane	TX	4840	10107401
Indeno(1,2,3-cd) pyrene	TX	6315	10107401
Isophorone	TX	6320	10107401
Naphthalene	TX	5005	10107401
Nitrobenzene	TX	5015	10107401
n-Nitrosodiethylamine	TX	6525	10107401
n-Nitrosodimethylamine	TX	6530	10107401
n-Nitrosodi-n-butylamine	TX	5025	10107401
n-Nitrosodi-n-propylamine	TX	6545	10107401
n-Nitrosodiphenylamine	TX	6535	10107401
Pentachlorobenzene	TX	6590	10107401
Pentachlorophenol	TX	6605	10107401

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Matrix: ***Non-Potable Water***

Phenanthrene	TX	6615	10107401
Phenol	TX	6625	10107401
Pyrene	TX	6665	10107401
Pyridine	TX	5095	10107401
Toxaphene (Chlorinated camphene)	TX	8250	10107401

Method EPA 7196

Analyte	**AB**	**Analyte ID**	**Method ID**
Chromium (VI)	TX	1045	10162400

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	TX	1095	10165807

Method EPA 8011

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10173009

Method EPA 8015

Analyte	**AB**	**Analyte ID**	**Method ID**
Diesel range organics (DRO)	TX	9369	10173203
Ethylene glycol	TX	4785	10173203
Gasoline range organics (GRO)	TX	9408	10173203
Propylene Glycol	TX	6657	10173203

Method EPA 8021

Analyte	**AB**	**Analyte ID**	**Method ID**
Benzene	TX	4375	10174808
Ethylbenzene	TX	4765	10174808
m+p-xylene	TX	5240	10174808
Methyl tert-butyl ether (MTBE)	TX	5000	10174808
o-Xylene	TX	5250	10174808
Toluene	TX	5140	10174808
Xylene (total)	TX	5260	10174808

Method EPA 8082

Analyte	**AB**	**Analyte ID**	**Method ID**

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Matrix: ***Non-Potable Water***

Aroclor-1016 (PCB-1016)	TX	8880	10179007
Aroclor-1221 (PCB-1221)	TX	8885	10179007
Aroclor-1232 (PCB-1232)	TX	8890	10179007
Aroclor-1242 (PCB-1242)	TX	8895	10179007
Aroclor-1248 (PCB-1248)	TX	8900	10179007
Aroclor-1254 (PCB-1254)	TX	8905	10179007
Aroclor-1260 (PCB-1260)	TX	8910	10179007
PCBs (total)	TX	8870	10179007

Method EPA 8260

Analyte	**AB**	**Analyte ID**	**Method ID**
1,1,1,2-Tetrachloroethane	TX	5105	10184802
1,1,1-Trichloroethane	TX	5160	10184802
1,1,2,2-Tetrachloroethane	TX	5110	10184802
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	TX	5195	10184802
1,1,2-Trichloroethane	TX	5165	10184802
1,1-Dichloroethane	TX	4630	10184802
1,1-Dichloroethylene	TX	4640	10184802
1,1-Dichloropropene	TX	4670	10184802
1,2,3-Trichlorobenzene	TX	5150	10184802
1,2,3-Trichloropropane	TX	5180	10184802
1,2,4-Trichlorobenzene	TX	5155	10184802
1,2,4-Trimethylbenzene	TX	5210	10184802
1,2-Dibromo-3-chloropropane (DBCP)	TX	4570	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10184802
1,2-Dichlorobenzene	TX	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10184802
1,2-Dichloropropane	TX	4655	10184802
1,3,5-Trimethylbenzene	TX	5215	10184802
1,3-Dichlorobenzene	TX	4615	10184802
1,3-Dichloropropane	TX	4660	10184802

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Matrix: *Non-Potable Water*

1,4-Dichlorobenzene	TX	4620	10184802
1-Chlorohexane	TX	4510	10184802
2,2-Dichloropropane	TX	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	TX	4410	10184802
2-Chloroethyl vinyl ether	TX	4500	10184802
2-Chlorotoluene	TX	4535	10184802
2-Hexanone (MBK)	TX	4860	10184802
4-Chlorotoluene	TX	4540	10184802
4-Isopropyltoluene (p-Cymene)	TX	4915	10184802
4-Methyl-2-pentanone (MIBK)	TX	4995	10184802
Acetone (2-Propanone)	TX	4315	10184802
Acrolein (Propenal)	TX	4325	10184802
Acrylonitrile	TX	4340	10184802
Benzene	TX	4375	10184802
Bromobenzene	TX	4385	10184802
Bromochloromethane	TX	4390	10184802
Bromodichloromethane	TX	4395	10184802
Bromoform	TX	4400	10184802
Carbon disulfide	TX	4450	10184802
Carbon tetrachloride	TX	4455	10184802
Chlorobenzene	TX	4475	10184802
Chlorodibromomethane	TX	4575	10184802
Chloroethane (Ethyl chloride)	TX	4485	10184802
Chloroform	TX	4505	10184802
cis-1,2-Dichloroethylene	TX	4645	10184802
cis-1,3-Dichloropropene	TX	4680	10184802
Dibromomethane (Methylene bromide)	TX	4595	10184802
Dichlorodifluoromethane (Freon-12)	TX	4625	10184802
Ethylbenzene	TX	4765	10184802
Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)	TX	4770	10184802

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Matrix: *Non-Potable Water*

Hexachlorobutadiene	TX	4835	10184802
Iodomethane (Methyl iodide)	TX	4870	10184802
Isopropyl ether	TX	4905	10184802
Isopropylbenzene (Cumene)	TX	4900	10184802
m+p-xylene	TX	5240	10184802
Methyl acetate	TX	4940	10184802
Methyl bromide (Bromomethane)	TX	4950	10184802
Methyl chloride (Chloromethane)	TX	4960	10184802
Methyl tert-butyl ether (MTBE)	TX	5000	10184802
Methylcyclohexane	TX	4965	10184802
Methylene chloride (Dichloromethane)	TX	4975	10184802
Naphthalene	TX	5005	10184802
n-Butylbenzene	TX	4435	10184802
n-Propylbenzene	TX	5090	10184802
o-Xylene	TX	5250	10184802
sec-Butylbenzene	TX	4440	10184802
Styrene	TX	5100	10184802
T-amylmethylether (TAME)	TX	4370	10184802
tert-Butyl alcohol	TX	4420	10184802
tert-Butylbenzene	TX	4445	10184802
Tetrachloroethylene (Perchloroethylene)	TX	5115	10184802
Toluene	TX	5140	10184802
Total trihalomethanes	TX	5205	10184802
trans-1,2-Dichloroethylene	TX	4700	10184802
trans-1,3-Dichloropropylene	TX	4685	10184802
trans-1,4-Dichloro-2-butene	TX	4605	10184802
Trichloroethene (Trichloroethylene)	TX	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10184802
Vinyl acetate	TX	5225	10184802
Vinyl chloride	TX	5235	10184802

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Matrix: ***Non-Potable Water***

Xylene (total)	TX	5260	10184802

Method EPA 8270

Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	TX	6715	10185805
1,2,4-Trichlorobenzene	TX	5155	10185805
1,2-Dichlorobenzene	TX	4610	10185805
1,2-Diphenylhydrazine	TX	6220	10185805
1,3-Dichlorobenzene	TX	4615	10185805
1,4-Dichlorobenzene	TX	4620	10185805
1-Naphthylamine	TX	6425	10185805
2,3,4,6-Tetrachlorophenol	TX	6735	10185805
2,4,5-Trichlorophenol	TX	6835	10185805
2,4,6-Trichlorophenol	TX	6840	10185805
2,4-Dichlorophenol	TX	6000	10185805
2,4-Dimethylphenol	TX	6130	10185805
2,4-Dinitrophenol	TX	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10185805
2,6-Dichlorophenol	TX	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10185805
2-Chloronaphthalene	TX	5795	10185805
2-Chlorophenol	TX	5800	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10185805
2-Methylnaphthalene	TX	6385	10185805
2-Methylphenol (o-Cresol)	TX	6400	10185805
2-Naphthylamine	TX	6430	10185805
2-Nitroaniline	TX	6460	10185805
2-Nitrophenol	TX	6490	10185805
2-Picoline (2-Methylpyridine)	TX	5050	10185805
3,3'-Dichlorobenzidine	TX	5945	10185805
3-Methylcholanthrene	TX	6355	10185805

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Matrix: *Non-Potable Water*

3-Nitroaniline	TX	6465	10185805
4,4'-DDD	TX	7355	10185805
4,4'-DDE	TX	7360	10186002
4,4'-DDT	TX	7365	10185805
4-Aminobiphenyl	TX	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10185805
4-Chloro-3-methylphenol	TX	5700	10185805
4-Chloroaniline	TX	5745	10185805
4-Chlorophenyl phenylether	TX	5825	10185805
4-Dimethyl aminoazobenzene	TX	6105	10185805
4-Methylphenol (p-Cresol)	TX	6410	10185805
4-Nitroaniline	TX	6470	10185805
4-Nitrophenol	TX	6500	10185805
7,12-Dimethylbenz(a) anthracene	TX	6115	10185805
a-a-Dimethylphenethylamine	TX	6125	10185805
Acenaphthene	TX	5500	10185805
Acenaphthylene	TX	5505	10185805
Acetophenone	TX	5510	10185805
Aldrin	TX	7025	10186002
alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10186002
alpha-Chlordane	TX	7240	10185601
Aniline	TX	5545	10185805
Anthracene	TX	5555	10185805
Aroclor-1016 (PCB-1016)	TX	8880	10186002
Aroclor-1221 (PCB-1221)	TX	8885	10185203
Aroclor-1232 (PCB-1232)	TX	8890	10185407
Aroclor-1242 (PCB-1242)	TX	8895	10185203
Aroclor-1248 (PCB-1248)	TX	8900	10186002
Aroclor-1254 (PCB-1254)	TX	8905	10185601
Aroclor-1260 (PCB-1260)	TX	8910	10185203

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Matrix: *Non-Potable Water*

Atrazine	TX	7065	10185805
Azinphos-methyl (Guthion)	TX	7075	10185805
Benzidine	TX	5595	10185805
Benzo(a)anthracene	TX	5575	10185805
Benzo(a)pyrene	TX	5580	10185805
Benzo(b)fluoranthene	TX	5585	10185805
Benzo(e)pyrene	TX	5605	10185805
Benzo(g,h,i)perylene	TX	5590	10185805
Benzo(k)fluoranthene	TX	5600	10185805
Benzoic acid	TX	5610	10185805
Benzyl alcohol	TX	5630	10185805
beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10185203
Biphenyl	TX	5640	10185805
bis(2-Chloroethoxy)methane	TX	5760	10185805
bis(2-Chloroethyl) ether	TX	5765	10185805
bis(2-Chloroisopropyl) ether	TX	5780	10185805
bis(2-Ethylhexyl) phthalate (DEHP)	TX	6255	10185805
Butyl benzyl phthalate	TX	5670	10185805
Caprolactam	TX	7180	10185805
Carbaryl (Sevin)	TX	7195	10185407
Carbazole	TX	5680	10185805
Carbophenothion	TX	7220	10185407
Chlordane (tech.)	TX	7250	10185203
Chlorfenvinphos	TX	7255	10185805
Chrysene	TX	5855	10185805
Coumaphos	TX	7315	10186002
Crotoxyphos	TX	7330	10185407
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10185805
Demeton	TX	7390	10185407
Demeton-o	TX	7395	10185203

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Matrix: ***Non-Potable Water***

Demeton-s	TX	7385	10185601
Dibenz(a,h) anthracene	TX	5895	10185805
Dibenzofuran	TX	5905	10185805
Dichlorovos (DDVP, Dichlorvos)	TX	8610	10186002
Dicrotophos	TX	7465	10185407
Dieldrin	TX	7470	10186002
Diethyl phthalate	TX	6070	10185805
Dimethoate	TX	7475	10185805
Dimethyl phthalate	TX	6135	10185805
Di-n-butyl phthalate	TX	5925	10185805
Di-n-octyl phthalate	TX	6200	10185805
Dioxathion	TX	7495	10185203
Diphenylamine	TX	6205	10185805
Disulfoton	TX	8625	10185601
Endosulfan I	TX	7510	10185805
Endosulfan II	TX	7515	10185203
Endosulfan sulfate	TX	7520	10185601
Endrin	TX	7540	10185203
Endrin aldehyde	TX	7530	10185805
Endrin ketone	TX	7535	10186002
EPN (Phosphonothioic acid, phenyl-, O-ethyl O-(p-nitrophenyl) ester)	TX	7550	10186002
Ethion	TX	7565	10185805
Ethyl methanesulfonate	TX	6260	10185805
Famphur	TX	7580	10185407
Fensulfothion	TX	7600	10185203
Fenthion	TX	7605	10186002
Fluoranthene	TX	6265	10185805
Fluorene	TX	6270	10185805
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10185203
gamma-Chlordane	TX	7245	10185203

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Matrix: *Non-Potable Water*

Heptachlor	TX	7685	10185601
Heptachlor epoxide	TX	7690	10185805
Hexachlorobenzene	TX	6275	10185805
Hexachlorobutadiene	TX	4835	10185805
Hexachlorocyclopentadiene	TX	6285	10185805
Hexachloroethane	TX	4840	10185805
Hexachlorophene	TX	6290	10185805
Indeno(1,2,3-cd) pyrene	TX	6315	10185805
Isodrin	TX	7725	10185407
Isophorone	TX	6320	10185805
Leptophos	TX	7755	10186002
Malathion	TX	7770	10186002
Methoxychlor	TX	7810	10185601
Methyl methanesulfonate	TX	6375	10185805
Methyl parathion (Parathion, methyl)	TX	7825	10185203
Mevinphos	TX	7850	10186002
Monocrotophos	TX	7880	10185203
Naled	TX	7905	10185203
Naphthalene	TX	5005	10185805
Nitrobenzene	TX	5015	10185805
n-Nitrosodiethylamine	TX	6525	10185805
n-Nitrosodimethylamine	TX	6530	10185805
n-Nitrosodi-n-butylamine	TX	5025	10185805
n-Nitrosodi-n-propylamine	TX	6545	10185805
n-Nitrosodiphenylamine	TX	6535	10185805
n-Nitrosopiperidine	TX	6560	10185805
Parathion, ethyl	TX	7955	10185805
Pentachlorobenzene	TX	6590	10185805
Pentachloronitrobenzene (PCNB)	TX	6600	10185805
Pentachlorophenol	TX	6605	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate: T104704211-12-8
Expiration Date: 4/30/2013
Issue Date: 5/1/2012

DHL Analytical, Inc.

2300 Double Creek Drive
Round Rock, TX 78664-3801

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Matrix: ***Non-Potable Water***

Phenacetin	TX	6610	10185805
Phenanthrene	TX	6615	10185805
Phenol	TX	6625	10185805
Phorate	TX	7985	10186002
Phosmet (Imidan)	TX	8000	10186002
Phosphamidon	TX	8005	10185805
Pronamide (Kerb)	TX	6650	10185805
Pyrene	TX	6665	10185805
Pyridine	TX	5095	10185805
Quinoline	TX	6670	10185805
Sulfotepp	TX	8155	10186002
Terbufos	TX	8185	10185805
Tetrachlorvinphos (Stirophos, Gardona)	TX	8197	10186002
Tetraethyl pyrophosphate (TEPP)	TX	8210	10185407
Toxaphene (Chlorinated camphene)	TX	8250	10185203

Method EPA 8321

Analyte	**AB**	**Analyte ID**	**Method ID**
2,4,5-T	TX	8655	10188804
2,4-D	TX	8545	10188804
2,4-DB	TX	8560	10188804
Dalapon	TX	8555	10188804
Dicamba	TX	8595	10188804
Dichloroprop (Dichlorprop, Weedone)	TX	8605	10188804
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10188804
MCPA	TX	7775	10188804
MCPP	TX	7780	10188804
Silvex (2,4,5-TP)	TX	8650	10188804

Method EPA 8330

Analyte	**AB**	**Analyte ID**	**Method ID**
1,3,5-Trinitrobenzene (1,3,5-TNB)	TX	6885	10189807
1,3-Dinitrobenzene (1,3-DNB)	TX	6160	10189807

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Matrix: ***Non-Potable Water***

2,4,6-Trinitrotoluene (2,4,6-TNT)	TX	9651	10189807
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10189807
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10189807
2-Amino-4,6-dinitrotoluene (2-am-dnt)	TX	9303	10189807
2-Nitrotoluene	TX	9507	10189807
3-Nitrotoluene	TX	9510	10189807
4-Amino-2,6-dinitrotoluene (4-am-dnt)	TX	9306	10189807
4-Nitrotoluene	TX	9513	10189807
Methyl-2,4,6-trinitrophenylnitramine (tetryl)	TX	6415	10189807
Nitrobenzene	TX	5015	10189807
Nitroglycerin	TX	6485	10189807
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	TX	9522	10189807
Pentaerythritoltetranitrate (PETN)	TX	9558	10189807
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	TX	9432	10189807

Method EPA 9014

Analyte	**AB**	**Analyte ID**	**Method ID**
Amenable cyanide	TX	1510	10193803
Total Cyanide	TX	1635	10193803

Method EPA 9040

Analyte	**AB**	**Analyte ID**	**Method ID**
pH	TX	1900	10197203

Method EPA 9056

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromide	TX	1540	10199209
Chloride	TX	1575	10199209
Fluoride	TX	1730	10199209
Nitrate as N	TX	1810	10199209
Nitrate-nitrite	TX	1820	10199209
Nitrite as N	TX	1840	10199209
Sulfate	TX	2000	10199209

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Matrix: ***Non-Potable Water***

Method EPA 9060

Analyte	AB	Analyte ID	Method ID
Total Organic Carbon (TOC)	TX	2040	10200201

Method EPA 9070

Analyte	AB	Analyte ID	Method ID
n-Hexane Extractable Material (HEM) (O&G)	TX	1803	10201000

Method EPA RSK 175

Analyte	AB	Analyte ID	Method ID
Carbon dioxide	TX	3755	10212905
Ethane	TX	4747	10212905
Ethene	TX	4752	10212905
Methane	TX	4926	10212905

Method HACH 8000

Analyte	AB	Analyte ID	Method ID
Chemical oxygen demand (COD)	TX	1565	60003001

Method SM 2130 B

Analyte	AB	Analyte ID	Method ID
Turbidity	TX	2055	20002408

Method SM 2310 B (4a)

Analyte	AB	Analyte ID	Method ID
Acidity, as CaCO3	TX	1500	20002806

Method SM 2320 B

Analyte	AB	Analyte ID	Method ID
Alkalinity as CaCO3	TX	1505	20003003

Method SM 2340 B

Analyte	AB	Analyte ID	Method ID
Total hardness as CaCO3	TX	1755	20003401

Method SM 2510 B

Analyte	AB	Analyte ID	Method ID
Conductivity	TX	1610	20003809

Method SM 2540 C

Analyte	AB	Analyte ID	Method ID

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Matrix: *Non-Potable Water*

Residue-filterable (TDS)	TX	1955	20004404
Method SM 2540 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-nonfilterable (TSS)	TX	1960	20004802
Method SM 3500-Cr D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Chromium	TX	1040	20009001
Method SM 4500-CN^- E			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Cyanide	TX	1635	20021209
Method SM 4500-CN^- G			
Analyte	**AB**	**Analyte ID**	**Method ID**
Amenable cyanide	TX	1510	20021607
Method SM 4500-H+ B			
Analyte	**AB**	**Analyte ID**	**Method ID**
pH	TX	1900	20016404
Method SM 4500-NH3 F			
Analyte	**AB**	**Analyte ID**	**Method ID**
Ammonia as N	TX	1515	20023001
Method SM 4500-P E			
Analyte	**AB**	**Analyte ID**	**Method ID**
Orthophosphate as P	TX	1870	20025803
Phosphorus	TX	1910	20025803
Method SM 4500-$S2^-$ D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Sulfide	TX	2005	20125400
Method SM 4500-SiO2 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Silica as SiO2	TX	1990	20018206
Method SM 5220 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Chemical oxygen demand (COD)	TX	1565	20027809

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Matrix: ***Non-Potable Water***

Method SM 5310 C

Analyte	AB	Analyte ID	Method ID
Total Organic Carbon (TOC)	TX	2040	20028200

Method TCEQ 1005

Analyte	AB	Analyte ID	Method ID
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208

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Matrix: ***Solid & Chemical Materials***

Method ASTM D2216

Analyte	AB	Analyte ID	Method ID
Moisture	TX	10337	ASTM D2216-05

Method EPA 1010

Analyte	AB	Analyte ID	Method ID
Ignitability	TX	1780	10116606

Method EPA 1311

Analyte	AB	Analyte ID	Method ID
TCLP	TX	849	10118806

Method EPA 1312

Analyte	AB	Analyte ID	Method ID
SPLP	TX	850	10119003

Method EPA 200.8

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10014605
Antimony	TX	1005	10014605
Arsenic	TX	1010	10014605
Barium	TX	1015	10014605
Beryllium	TX	1020	10014605
Cadmium	TX	1030	10014605
Calcium	TX	1035	10014605
Chromium	TX	1040	10014605
Cobalt	TX	1050	10014605
Copper	TX	1055	10014605
Iron	TX	1070	10014605
Lead	TX	1075	10014605
Magnesium	TX	1085	10014605
Manganese	TX	1090	10014605
Molybdenum	TX	1100	10014605
Nickel	TX	1105	10014605
Potassium	TX	1125	10014605

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Matrix: ***Solid & Chemical Materials***

Selenium	TX	1140	10014605
Silver	TX	1150	10014605
Sodium	TX	1155	10014605
Strontium	TX	1160	10014605
Thallium	TX	1165	10014605
Tin	TX	1175	10014605
Titanium	TX	1180	10014605
Vanadium	TX	1185	10014605
Zinc	TX	1190	10014605

Method EPA 300.0

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromide	TX	1540	10053006
Chloride	TX	1575	10053006
Fluoride	TX	1730	10053006
Nitrate as N	TX	1810	10053006
Nitrate-nitrite	TX	1820	10053006
Nitrite as N	TX	1840	10053006
Sulfate	TX	2000	10053006

Method EPA 310.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Alkalinity as CaCO3	TX	1505	10054805

Method EPA 350.3

Analyte	**AB**	**Analyte ID**	**Method ID**
Ammonia as N	TX	1515	10064401

Method EPA 365.2

Analyte	**AB**	**Analyte ID**	**Method ID**
Orthophosphate as P	TX	1870	10070403
Phosphorus	TX	1910	10070403

Method EPA 6020

Analyte	**AB**	**Analyte ID**	**Method ID**
Aluminum	TX	1000	10156204

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Matrix: ***Solid & Chemical Materials***

Antimony	TX	1005	10156204
Arsenic	TX	1010	10156204
Barium	TX	1015	10156204
Beryllium	TX	1020	10156204
Boron	TX	1025	10156204
Cadmium	TX	1030	10156204
Calcium	TX	1035	10156204
Chromium	TX	1040	10156204
Cobalt	TX	1050	10156204
Copper	TX	1055	10156204
Iron	TX	1070	10156204
Lead	TX	1075	10156204
Lithium	TX	1080	10156204
Magnesium	TX	1085	10156204
Manganese	TX	1090	10156204
Molybdenum	TX	1100	10156204
Nickel	TX	1105	10156204
Potassium	TX	1125	10156204
Selenium	TX	1140	10156204
Silver	TX	1150	10156204
Sodium	TX	1155	10156204
Strontium	TX	1160	10156204
Thallium	TX	1165	10156204
Tin	TX	1175	10156204
Titanium	TX	1180	10156204
Vanadium	TX	1185	10156204
Zinc	TX	1190	10156204

Method EPA 7196

Analyte	**AB**	**Analyte ID**	**Method ID**
Chromium (VI)	TX	1045	10162400

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Matrix: ***Solid & Chemical Materials***

Method EPA 7470

Analyte	AB	Analyte ID	Method ID
Mercury	TX	1095	10165807

Method EPA 7471

Analyte	AB	Analyte ID	Method ID
Mercury	TX	1095	10166208

Method EPA 8015

Analyte	AB	Analyte ID	Method ID
Diesel range organics (DRO)	TX	9369	10173203
Ethylene glycol	TX	4785	10173203
Gasoline range organics (GRO)	TX	9408	10173203
Propylene Glycol	TX	6657	10173203

Method EPA 8021

Analyte	AB	Analyte ID	Method ID
Benzene	TX	4375	10174808
Ethylbenzene	TX	4765	10174808
m+p-xylene	TX	5240	10174808
Methyl tert-butyl ether (MTBE)	TX	5000	10174808
o-Xylene	TX	5250	10174808
Toluene	TX	5140	10174808
Xylene (total)	TX	5260	10174808

Method EPA 8082

Analyte	AB	Analyte ID	Method ID
Aroclor-1016 (PCB-1016)	TX	8880	10179007
Aroclor-1221 (PCB-1221)	TX	8885	10179007
Aroclor-1232 (PCB-1232)	TX	8890	10179007
Aroclor-1242 (PCB-1242)	TX	8895	10179007
Aroclor-1248 (PCB-1248)	TX	8900	10179007
Aroclor-1254 (PCB-1254)	TX	8905	10179007
Aroclor-1260 (PCB-1260)	TX	8910	10179007
PCBs (total)	TX	8870	10179007

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Matrix: ***Solid & Chemical Materials***

Method EPA 8260

Analyte	AB	Analyte ID	Method ID
1,1,1,2-Tetrachloroethane	TX	5105	10184802
1,1,1-Trichloroethane	TX	5160	10184802
1,1,2,2-Tetrachloroethane	TX	5110	10184802
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	TX	5195	10184802
1,1,2-Trichloroethane	TX	5165	10184802
1,1-Dichloroethane	TX	4630	10184802
1,1-Dichloroethylene	TX	4640	10184802
1,1-Dichloropropene	TX	4670	10184802
1,2,3-Trichlorobenzene	TX	5150	10184802
1,2,3-Trichloropropane	TX	5180	10184802
1,2,4-Trichlorobenzene	TX	5155	10184802
1,2,4-Trimethylbenzene	TX	5210	10184802
1,2-Dibromo-3-chloropropane (DBCP)	TX	4570	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10184802
1,2-Dichlorobenzene	TX	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10184802
1,2-Dichloropropane	TX	4655	10184802
1,3,5-Trimethylbenzene	TX	5215	10184802
1,3-Dichlorobenzene	TX	4615	10184802
1,3-Dichloropropane	TX	4660	10184802
1,4-Dichlorobenzene	TX	4620	10184802
1-Chlorohexane	TX	4510	10184802
2,2-Dichloropropane	TX	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	TX	4410	10184802
2-Chloroethyl vinyl ether	TX	4500	10184802
2-Chlorotoluene	TX	4535	10184802
2-Hexanone (MBK)	TX	4860	10184802
4-Chlorotoluene	TX	4540	10184802

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Matrix: *Solid & Chemical Materials*

4-Isopropyltoluene (p-Cymene)	TX	4915	10184802
4-Methyl-2-pentanone (MIBK)	TX	4995	10184802
Acetone (2-Propanone)	TX	4315	10184802
Acrolein (Propenal)	TX	4325	10184802
Acrylonitrile	TX	4340	10184802
Benzene	TX	4375	10184802
Bromobenzene	TX	4385	10184802
Bromochloromethane	TX	4390	10184802
Bromodichloromethane	TX	4395	10184802
Bromoform	TX	4400	10184802
Carbon disulfide	TX	4450	10184802
Carbon tetrachloride	TX	4455	10184802
Chlorobenzene	TX	4475	10184802
Chlorodibromomethane	TX	4575	10184802
Chloroethane (Ethyl chloride)	TX	4485	10184802
Chloroform	TX	4505	10184802
cis-1,2-Dichloroethylene	TX	4645	10184802
cis-1,3-Dichloropropene	TX	4680	10184802
Dibromomethane (Methylene bromide)	TX	4595	10184802
Dichlorodifluoromethane (Freon-12)	TX	4625	10184802
Ethylbenzene	TX	4765	10184802
Hexachlorobutadiene	TX	4835	10184802
Iodomethane (Methyl iodide)	TX	4870	10184802
Isopropyl alcohol (2-Propanol, Isopropanol)	TX	4895	10184802
Isopropylbenzene (Cumene)	TX	4900	10184802
m+p-xylene	TX	5240	10184802
Methyl acetate	TX	4940	10184802
Methyl bromide (Bromomethane)	TX	4950	10184802
Methyl chloride (Chloromethane)	TX	4960	10184802
Methyl tert-butyl ether (MTBE)	TX	5000	10184802

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Matrix: ***Solid & Chemical Materials***

Methylcyclohexane	TX	4965	10184802
Methylene chloride (Dichloromethane)	TX	4975	10184802
Naphthalene	TX	5005	10184802
n-Butylbenzene	TX	4435	10184802
n-Propylbenzene	TX	5090	10184802
o-Xylene	TX	5250	10184802
sec-Butylbenzene	TX	4440	10184802
Styrene	TX	5100	10184802
tert-Butylbenzene	TX	4445	10184802
Tetrachloroethylene (Perchloroethylene)	TX	5115	10184802
Toluene	TX	5140	10184802
trans-1,2-Dichloroethylene	TX	4700	10184802
trans-1,3-Dichloropropylene	TX	4685	10184802
trans-1,4-Dichloro-2-butene	TX	4605	10184802
Trichloroethene (Trichloroethylene)	TX	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10184802
Vinyl acetate	TX	5225	10184802
Vinyl chloride	TX	5235	10184802
Xylene (total)	TX	5260	10184802

Method EPA 8270

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2,4,5-Tetrachlorobenzene	TX	6715	10185805
1,2,4-Trichlorobenzene	TX	5155	10185805
1,2-Dichlorobenzene	TX	4610	10185805
1,2-Diphenylhydrazine	TX	6220	10185805
1,3-Dichlorobenzene	TX	4615	10185805
1,4-Dichlorobenzene	TX	4620	10185805
1-Naphthylamine	TX	6425	10185805
2,3,4,6-Tetrachlorophenol	TX	6735	10185805
2,4,5-Trichlorophenol	TX	6835	10185805

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Matrix: *Solid & Chemical Materials*

2,4,6-Trichlorophenol	TX	6840	10185805
2,4-Dichlorophenol	TX	6000	10185805
2,4-Dimethylphenol	TX	6130	10185805
2,4-Dinitrophenol	TX	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10185805
2,6-Dichlorophenol	TX	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10185805
2-Chloronaphthalene	TX	5795	10185805
2-Chlorophenol	TX	5800	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10185805
2-Methylnaphthalene	TX	6385	10185805
2-Methylphenol (o-Cresol)	TX	6400	10185805
2-Naphthylamine	TX	6430	10185805
2-Nitroaniline	TX	6460	10185805
2-Nitrophenol	TX	6490	10185805
2-Picoline (2-Methylpyridine)	TX	5050	10185805
3,3'-Dichlorobenzidine	TX	5945	10185805
3-Methylcholanthrene	TX	6355	10185805
3-Nitroaniline	TX	6465	10185805
4,4'-DDD	TX	7355	10185203
4,4'-DDE	TX	7360	10186002
4,4'-DDT	TX	7365	10185407
4-Aminobiphenyl	TX	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10185805
4-Chloro-3-methylphenol	TX	5700	10185805
4-Chloroaniline	TX	5745	10185805
4-Chlorophenyl phenylether	TX	5825	10185805
4-Dimethyl aminoazobenzene	TX	6105	10185805
4-Methylphenol (p-Cresol)	TX	6410	10185805
4-Nitroaniline	TX	6470	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

DHL Analytical, Inc.

2300 Double Creek Drive
Round Rock, TX 78664-3801

Certificate: T104704211-12-8
Expiration Date: 4/30/2013
Issue Date: 5/1/2012

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: *Solid & Chemical Materials*

4-Nitrophenol	TX	6500	10185805
7,12-Dimethylbenz(a) anthracene	TX	6115	10185805
a-a-Dimethylphenethylamine	TX	6125	10185805
Acenaphthene	TX	5500	10185805
Acenaphthylene	TX	5505	10185805
Acetophenone	TX	5510	10185805
Aldrin	TX	7025	10186002
alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10185407
alpha-Chlordane	TX	7240	10185805
Aniline	TX	5545	10185805
Anthracene	TX	5555	10185805
Aroclor-1016 (PCB-1016)	TX	8880	10186002
Aroclor-1221 (PCB-1221)	TX	8885	10185805
Aroclor-1232 (PCB-1232)	TX	8890	10185407
Aroclor-1242 (PCB-1242)	TX	8895	10185407
Aroclor-1248 (PCB-1248)	TX	8900	10185805
Aroclor-1254 (PCB-1254)	TX	8905	10185805
Aroclor-1260 (PCB-1260)	TX	8910	10185407
Atrazine	TX	7065	10185805
Azinphos-methyl (Guthion)	TX	7075	10185203
Benzidine	TX	5595	10185805
Benzo(a)anthracene	TX	5575	10185805
Benzo(a)pyrene	TX	5580	10185805
Benzo(b)fluoranthene	TX	5585	10185805
Benzo(e)pyrene	TX	5605	10185805
Benzo(g,h,i)perylene	TX	5590	10185805
Benzo(k)fluoranthene	TX	5600	10185805
Benzoic acid	TX	5610	10185805
Benzyl alcohol	TX	5630	10185805
beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10185601

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Matrix: *Solid & Chemical Materials*

Biphenyl	TX	5640	10185805
bis(2-Chloroethoxy)methane	TX	5760	10185805
bis(2-Chloroethyl) ether	TX	5765	10185805
bis(2-Chloroisopropyl) ether	TX	5780	10185805
bis(2-Ethylhexyl) phthalate (DEHP)	TX	6255	10185805
Butyl benzyl phthalate	TX	5670	10185805
Caprolactam	TX	7180	10185805
Carbaryl (Sevin)	TX	7195	10185601
Carbazole	TX	5680	10185805
Carbophenothion	TX	7220	10185805
Chlordane (tech.)	TX	7250	10185805
Chlorfenvinphos	TX	7255	10185203
Chrysene	TX	5855	10185805
Coumaphos	TX	7315	10185805
Crotoxyphos	TX	7330	10185203
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10186002
Demeton	TX	7390	10185805
Demeton-o	TX	7395	10185805
Demeton-s	TX	7385	10185601
Dibenz(a,h) anthracene	TX	5895	10185805
Dibenzofuran	TX	5905	10185805
Dichlorovos (DDVP, Dichlorvos)	TX	8610	10185805
Dicrotophos	TX	7465	10185805
Dieldrin	TX	7470	10185407
Diethyl phthalate	TX	6070	10185805
Dimethoate	TX	7475	10185805
Dimethyl phthalate	TX	6135	10185805
Di-n-butyl phthalate	TX	5925	10185805
Di-n-octyl phthalate	TX	6200	10185805
Dioxathion	TX	7495	10185601

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Matrix: *Solid & Chemical Materials*

Diphenylamine	TX	6205	10185805
Disulfoton	TX	8625	10185407
Endosulfan I	TX	7510	10185601
Endosulfan II	TX	7515	10185805
Endosulfan sulfate	TX	7520	10186002
Endrin	TX	7540	10185601
Endrin aldehyde	TX	7530	10186002
Endrin ketone	TX	7535	10186002
EPN (Phosphonothioic acid, phenyl-, O-ethyl O-(p-nitrophenyl) ester)	TX	7550	10186002
Ethion	TX	7565	10185203
Ethyl methanesulfonate	TX	6260	10185805
Famphur	TX	7580	10186002
Fensulfothion	TX	7600	10185805
Fenthion	TX	7605	10186002
Fluoranthene	TX	6265	10185805
Fluorene	TX	6270	10185805
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10185407
gamma-Chlordane	TX	7245	10185601
Heptachlor	TX	7685	10185601
Heptachlor epoxide	TX	7690	10185203
Hexachlorobenzene	TX	6275	10185805
Hexachlorobutadiene	TX	4835	10185805
Hexachlorocyclopentadiene	TX	6285	10185805
Hexachloroethane	TX	4840	10185805
Hexachlorophene	TX	6290	10185601
Indeno(1,2,3-cd) pyrene	TX	6315	10185805
Isodrin	TX	7725	10185203
Isophorone	TX	6320	10185805
Leptophos	TX	7755	10185407
Malathion	TX	7770	10185601

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Matrix: *Solid & Chemical Materials*

Methoxychlor	TX	7810	10185203
Methyl methanesulfonate	TX	6375	10185805
Methyl parathion (Parathion, methyl)	TX	7825	10185203
Mevinphos	TX	7850	10185805
Monocrotophos	TX	7880	10185805
Naled	TX	7905	10185805
Naphthalene	TX	5005	10185805
Nitrobenzene	TX	5015	10185805
n-Nitrosodiethylamine	TX	6525	10185805
n-Nitrosodimethylamine	TX	6530	10185805
n-Nitrosodi-n-butylamine	TX	5025	10185805
n-Nitrosodi-n-propylamine	TX	6545	10185805
n-Nitrosodiphenylamine	TX	6535	10185805
n-Nitrosopiperidine	TX	6560	10185805
Parathion, ethyl	TX	7955	10185805
Pentachlorobenzene	TX	6590	10185805
Pentachloronitrobenzene (PCNB)	TX	6600	10185805
Pentachlorophenol	TX	6605	10185805
Phenacetin	TX	6610	10185805
Phenanthrene	TX	6615	10185805
Phenol	TX	6625	10185805
Phorate	TX	7985	10185407
Phosmet (Imidan)	TX	8000	10185203
Phosphamidon	TX	8005	10186002
Pronamide (Kerb)	TX	6650	10185805
Pyrene	TX	6665	10185805
Pyridine	TX	5095	10185805
Quinoline	TX	6670	10185805
Sulfotepp	TX	8155	10185203
Terbufos	TX	8185	10185805

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Matrix: ***Solid & Chemical Materials***

Tetrachlorvinphos (Stirophos, Gardona)	TX	8197	10186002
Tetraethyl pyrophosphate (TEPP)	TX	8210	10185407
Toxaphene (Chlorinated camphene)	TX	8250	10185203

Method EPA 8321

Analyte	**AB**	**Analyte ID**	**Method ID**
2,4,5-T	TX	8655	10188804
2,4-D	TX	8545	10188804
2,4-DB	TX	8560	10188804
Dalapon	TX	8555	10188804
Dicamba	TX	8595	10188804
Dichloroprop (Dichlorprop, Weedone)	TX	8605	10188804
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10188804
MCPA	TX	7775	10188804
MCPP	TX	7780	10188804
Silvex (2,4,5-TP)	TX	8650	10188804

Method EPA 8330

Analyte	**AB**	**Analyte ID**	**Method ID**
1,3,5-Trinitrobenzene (1,3,5-TNB)	TX	6885	10189807
1,3-Dinitrobenzene (1,3-DNB)	TX	6160	10189807
2,4,6-Trinitrotoluene (2,4,6-TNT)	TX	9651	10189807
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10189807
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10189807
2-Amino-4,6-dinitrotoluene (2-am-dnt)	TX	9303	10189807
2-Nitrotoluene	TX	9507	10189807
3-Nitrotoluene	TX	9510	10189807
4-Amino-2,6-dinitrotoluene (4-am-dnt)	TX	9306	10189807
4-Nitrotoluene	TX	9513	10189807
Methyl-2,4,6-trinitrophenylnitramine (tetryl)	TX	6415	10189807
Nitrobenzene	TX	5015	10189807
Nitroglycerin	TX	6485	10189807
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	TX	9522	10189807

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Matrix: *Solid & Chemical Materials*

Pentaerythritoltetranitrate (PETN)	TX	9558	10189807
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	TX	9432	10189807

Method EPA 9014

Analyte	AB	Analyte ID	Method ID
Amenable cyanide	TX	1510	10193803
Total Cyanide	TX	1635	10193803

Method EPA 9040

Analyte	AB	Analyte ID	Method ID
Corrosivity	TX	1615	10197203
pH	TX	1900	10197203

Method EPA 9045

Analyte	AB	Analyte ID	Method ID
pH	TX	1900	10198400

Method EPA 9056

Analyte	AB	Analyte ID	Method ID
Bromide	TX	1540	10199209
Chloride	TX	1575	10199209
Fluoride	TX	1730	10199209
Nitrate as N	TX	1810	10199209
Nitrate-nitrite	TX	1820	10199209
Nitrite as N	TX	1840	10199209
Sulfate	TX	2000	10199209

Method SM 2320 B

Analyte	AB	Analyte ID	Method ID
Alkalinity as CaCO3	TX	1505	20003003

Method SM 2510 B

Analyte	AB	Analyte ID	Method ID
Conductivity	TX	1610	20003809

Method SSA/ASA Part 3:14

Analyte	AB	Analyte ID	Method ID
Conductivity	TX	1610	SSA/ASA Pt 3:14

Texas Commission on Environmental Quality

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Round Rock, TX 78664-3801

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Matrix: ***Solid & Chemical Materials***

Method TCEQ 1005

Analyte	AB	Analyte ID	Method ID
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208

Texas Commission on Environmental Quality

Remediation Division Correspondence Identification Form

SITE & PROGRAM AREA IDENTIFICATION

SITE LOCATION				REMEDIATION DIVISION PROGRAM AND FACILITY IDENTIFICATION	
Site Name:	**Rockwool Industries, Inc.**			Is This Site Being Managed Under A State Lead Contract? ☐ Yes ☑ No	
Address 1:	**1741 Taylors Valley Road**			Program Area:	**SUPERFUND**
Address 2:				Mail Code:	**MC-136**
City:	**Belton**	State:	**Texas**	Is This A New Site To This Program Area? ☐ Yes ☑ No	
Zip Code:	**76513**	County:	**Bell**	**PROGRAM ID No.:**	**SUP033**
TCEQ Region:	**Region 9 - Waco**			**--Leave This Field Blank--**	**--Leave This Field Blank--**

DOCUMENT(S) IDENTIFICATION

	PHASE OF REMEDIATION	DOCUMENT NAME
1.	**POST-CLOSURE CARE**	**DATA USABILITY SUMMARY (DUS)**
2.		
3.		
4.		
5.		

CONTACT INFORMATION

RESPONSIBLE PARTY/APPLICANT/CUSTOMER

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TCEQ INTERNAL USE ONLY

Document No.	TCEQ Database Term	Document No.	TCEQ Database Term
1.		4.	
2.		5.	
3.			

Data Usability Summary
for
Rockwool Industries, Inc.
Federal Superfund Site
1741 Taylors Valley Road
Belton, Bell County, Texas

Prepared for **Texas Commission on Environmental Quality**

July 1, 2013

Contract No.
582-10-91051
Work Order No.
248-0071

Submitted By:

William Gamblin, P.E.
Project Manager

Daniel B. Stephens & Associates, Inc.

4030 W. Braker Lane, Suite 325, Austin, Texas 78759

DATA USABILITY SUMMARY
FOR
ROCKWOOL INDUSTRIES, INC.

FEDERAL SUPERFUND SITE

1741 TAYLORS VALLEY ROAD

BELTON, BELL COUNTY, TEXAS

JUNE 2013

Prepared by:

Nancy K. Toole
ECS Environmental Chemistry Services
PO Box 79782
Houston, Texas

Under Subcontract to:

Daniel B. Stephens & Associates, Inc.
4030 W. Braker Road, Suite 325
Austin, TX 78759
(512) 821-2765

June 26, 2013

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APPENDICES

Appendix A Qualified TRRP Report

Appendix B NELAP Laboratory Certificate

1. NELAC/TLAP LABORATORY ACCREDITATION CERTIFICATION STATEMENT

Daniel B. Stephens & Associates, Inc. (DB Stephens) certifies that at the time the laboratory data were generated for the project, DHL Analytical ((DHL) was NELAC accredited under the Texas Laboratory Accreditation Program (TLAP) for the matrices, analytes, and parameters of analysis requested on the chain-of-custody form.

This sampling event was conducted during June 2013. This sampling event includes data package 1306130. The qualified TRRP Report is presented in Appendix A. A copy of the DHL NELAP accreditation certificate is presented in Appendix B.

2. INTRODUCTION

This Data Usability Summary (DUS) contains the results of the data review conducted by ECS Environmental Chemistry Services (ECS) for samples collected from the Rockwool Industries Federal Superfund Site in Belton, Bell County, Texas. This report covers a sampling event that was conducted during June 2013. DHL located in Round Rock, Texas analyzed the samples for the parameters listed in Table 2-1. Field quality control samples are identified in Table 2-2. The independent data review covered by this DUS includes the following three levels of review:

Laboratory Data Package Review – an evaluation of sample-specific criteria specified in Section 3 of this DUS.

Laboratory Review Checklist Review - an evaluation of the laboratory performance criteria specified in Section 4 of this DUS.

Data Validation – an evaluation of raw data to confirm the accuracy of calculation, data transcription, and instrument performance as specified in Section 5 of this DUS.

The results of the first level of review are covered for each analytical method in Section 6 of this report.

The results of the second and third levels of review are covered for each analytical method in Section 7 of this report. Validation included a review of the supporting data, recalculation of results from raw data, and checks for transcription errors on 10% of the data.

The result of the data review process is the qualified data presented in Appendix A. The data were qualified using the qualifiers and bias codes presented in Tables D-2 and Table D-3 of the Texas Commission on Environmental Quality (TCEQ) Quality Assurance Project Plan (QAPP) for the Federal Superfund Program (Revision 9.0, QTRAK#12-463).

Table 2-1
Rockwool Industries
Belton, Bell County, Texas
Sample Summary

SDG	LAB SAMPLE ID	FIELD SAMPLE ID	DATE COLL.	MATRIX	PARAMETER
1306108	1306108-01	MW-7	06/10/2013	Aqueous	MET
	1306108-02	MW-9	06/11/2013	Aqueous	MET
	1306108-03	MW-10	06/10/2013	Aqueous	MET
	1306108-04	MW-11	06/10/2013	Aqueous	MET
	1306108-05	MW-14	06/10/2013	Aqueous	MET
	1306108-06	MW-17	06/11/2013	Aqueous	MET
	1306108-07	MW-18	06/10/2013	Aqueous	MET
	1306108-08	MW-19	06/10/2013	Aqueous	MET
	1306108-09	MW-24-90	06/10/2013	Aqueous	MET
	1306108-10	MW-27-90	06/11/2013	Aqueous	MET
	1306108-11	MW-28-90	06/10/2013	Aqueous	MET
	1306108-12	MW-29-90	06/11/2013	Aqueous	MET
	1306108-13	MW-30-90	06/10/2013	Aqueous	MET
	1306108-14	MW-33-90	06/11/2013	Aqueous	MET
	1306108-15	MW-34-90	06/11/2013	Aqueous	MET
	1306108-16	DUP-2	06/11/2013	Aqueous	MET
	1306108-17	ER-1	06/10/2013	Aqueous	MET
	1306108-18	MW-20	06/11/2013	Aqueous	MET
	1306108-19	MW-21	06/11/2013	Aqueous	MET
	1306108-20	MW-22	06/11/2013	Aqueous	MET
	1306108-21	MW-35-90	06/11/2013	Aqueous	MET
	1306108-22	MW-37-90	06/11/2013	Aqueous	MET
	1306108-23	MW-38-90	06/11/2013	Aqueous	MET
	1306108-24	DUP-1	06/11/2013	Aqueous	MET
	1306108-25	ER-2	06/11/2013	Aqueous	MET

MET= antimony, arsenic, and lead by USEPA Method 6020A

Table 2-2
Rockwool Industries
Belton, Bell County, Texas
Field Quality Control Sample Summary

SDG	LAB SAMPLE ID	FIELD SAMPLE ID	FIELD QC SAMPLE TYPE	ASSOCIATED SAMPLES
1306108	1306108-16	DUP-2	Field Duplicate	1306108-15
	1306108-17	ER-1	Equipment Blank	1306130-01, 03-05, 07-09, 11, 13
	1306108-19	MW-21	MS/MSD	1306108-19
	1306108-24	DUP-1	Field Duplicate	1306108-19
	1306108-25	ER-2	Equipment Blank	1306130-02, 06, 10, 12, 14-16, 18-24

3. DATA REVIEW CRITERIA

The laboratory data package review covers a review of the sample-specific items for the TCEQ QAPP criteria listed below.

METHOD	SAMPLE-SPECIFIC REVIEW ITEM	EVALUATION CRITERIA
Metals/ 6020A	Holding Time/Preservation Requirements	Table B2-1
	Blanks	Table B5.1.15 or 16-3
	Laboratory Control Sample	Table D-1
	Laboratory Spike Sample	Table D-1
	Laboratory Duplicate Sample	Table D-1
	Field Duplicate	Section D.2.1.2.2.1.6

The independent review of these items is covered in Section 6 of this DUS.

4. LABORATORY REVIEW CHECKLIST REVIEW CRITERIA

The Laboratory Review Checklist (LRC) review covers a review of the laboratory performance items for the TCEQ QAPP evaluation criteria listed below.

METHOD	LAB PERFORMANCE REVIEW ITEM	EVALUATION CRITERIA
Metals/ 6020A	Instrument Performance	Table B5.1.16-3
	Initial Calibration	Table B5.1.16-3
	Initial and Continuing Calibration Verification	Table B5.1.16-3
	Internal Standard	Table B5.1.16-3
	Interference Check Standard	Section D.2.1.2.1.5
	Serial Dilution	Section D.2.1.2.1.6
	Post Digestion Spike	Section D.2.1.2.1.7
	Method of Standard Addition	Section D.2.1.2.1.8

Results not meeting the evaluation criteria were documented in the LRCs and ERs presented in the data package in Appendix A. The independent review of these items is covered in Section 7.0 of this DUS.

5. DATA VALIDATION CRITERIA

Data validation was performed on the following project analytical batches:

- Metal Batch 57936

Data validation was performed on 10% of the project analytical batches. Laboratory Quality Control Summary sheets were reviewed to confirm that QC problems were properly reported on the Laboratory Control Checklist (LRC). Raw data were checked for calculation and transcription errors. The independent data validation is covered in Section 6.0 of this DUS.

6. DATA REVIEW RESULTS

6.1 METALS

For metals data, the following items are reviewed in this section:

- Holding Time/Preservation Requirements;
- Blanks;
- Laboratory Control Sample;
- Matrix Spike Sample;
- Laboratory Duplicate Sample; and
- Field Duplicates.

The following sections specify the reasons for the data validation qualifiers that are presented in Appendix A.

6.1.1 Holding Time/Preservation Requirements

The maximum holding time from date of collection to date of preparation for metals in aqueous matrix samples is 180 days. The maximum holding time from date of preparation to date of analysis for metals in aqueous matrix samples is 180 days. These holding times were met for all of the samples in this data set. None of the metal data were qualified based on holding times.

6.1.2 Blanks

All associated blanks were free of all reported analytes in concentrations at or greater than the SDLs. None of the metal data were qualified based on blank data.

6.1.3 Laboratory Control Sample (LCS)

The LCS review criteria for metal data are as follows:

ACCURACY (%R)	PRECISION (RPD)
70%-130%	30%

One LCS was analyzed with each analytical batch. These criteria were met for all the samples in this data set. None of the metal data were qualified based on LCS data.

6.1.4 Matrix Spike Sample

The MS/MSD review criteria for metal data are as follows:

ACCURACY (%R)	PRECISION (RPD)
70%-130%	30%

One MS/MSD set was analyzed with every analytical batch. These criteria were met for all the MS/MSD in this data set. None of the metal data were qualified based on MS/MSD data.

6.1.5 Duplicate Sample

The duplicate sample review criteria for metal data when both the sample and duplicate concentrations are greater than 5 times the MQL are as follows:

PRECISION (RPD)
30%

One duplicate sample was analyzed with every analytical batch. These criteria were met for all the samples in this data set that had concentrations for the original and duplicate greater than 5 times the MQL. None of the metal data were qualified based on duplicate data.

6.1.6 Field Duplicates

For aqueous matrix samples, when both the original and duplicate result are greater than 5 times the method quantitation limit (MQL), the Relative Percent Differences (RPD) was equal to or less than 30%. For aqueous matrix samples, when one or both of the original and duplicate results are less than 5 times the MQL, the results agree within 2 times the greater SDL. The results of this evaluation of all detected results are shown in the following table:

SDG	FIELD DUP ID	ANALYTE	ORIGINAL RESULT	DUPLICATE RESULT	QC RESULT	CRITERIA
1306108	1306108-15/16	Antimony	0.327	0.337	RPD:3%	<=30%
		Arsenic	0.398	0.413	RPD:4%	<=30%
	1306108-19/24	Antimony	0.361	0.349	RPD:3%	<=30%
		Arsenic	0.00295	0.00269	RPD:9%	<=30%

All of the results met data review criteria.

7. DATA VALIDATION RESULTS

The laboratory used for this project appears to have an adequate QA system in place that is designed to ensure the accurate reporting of analytical results generated. All instances in which the analytical QC results fell outside the acceptance criteria were fully and correctly reported in the associated Laboratory Review Checklists.

The following subsections contain a review of the supporting data using the criteria specified in Section 4.

7.1 ICP/MS METALS

For ICP/MS metal data, the following items are reviewed in this section:

- Instrument Performance;
- Initial Calibration;
- Initial and Continuing Calibration Verification;
- Internal Standard;
- Interference Check Sample;
- Serial Dilution, Post Digestion Spike, Method of Standard Addition;

The following sections specify the reasons for the data validation qualifiers that are presented in Appendix A.

7.1.1 Instrument Performance

Instrument performance checks were performed at the proper frequency and met the criteria specified in the Table B5.1.16-3 of the TCEQ QAPP. None of the ICP/MS metal data were qualified based on instrument performance.

7.1.2 Initial Calibration

Initial Calibrations were performed daily prior to sample analysis. None of the ICP/MS metal data were qualified based on initial calibration data.

7.1.3 Initial and Continuing Calibration Verification

Initial Calibration Verifications (ICV) were conducted daily after the initial calibration. Continuing calibration verifications (CCV) were conducted before the first sample run, after every 10 samples, and at the end of the analytical sequence. Initial and Continuing Calibrations Verification were within 10% of the expected value. None of the ICP metal data were qualified based on ICV or CCV data.

7.1.4 Internal Standards

Internal standards were added to all ICP/MS samples and quality control samples associated with this report. Internal standard intensities were within 30% to 120% of the intensity of the internal standard in the initial calibration standard. These criteria were met for all the samples in this data set. None of the ICP/MS data were qualified based on Internal Standard data.

7.1.5 Interference Check Solution

All of the Interference Check Solutions (ICS) were conducted at the beginning of an analytical run or once during a 12-hour period, whichever was more frequent. All ICS were within 20% of the true value. None of the ICP metal data were qualified based on ICS data.

7.1.6 Serial Dilution, Post Digestion Spike, Method of Standard Additions

The serial dilution, post digestion spike, and Method of Standard Additions (MSA) were performed, if needed, at the proper frequency and met the requirements set forth in Sections D.2.1.2.1.6, D.2.1.2.1.7, and D.2.1.2.1.8 of the QAPP, respectively. None of the metal data were qualified based on these QC items.

8. OVERALL ASSESSMENT DATA USABILITY RELATIVE TO PROJECT OBJECTIVES

The data covered by this report are acceptable for use in meeting project objectives specified in the Field Sampling Plan for this project as qualified based on the following data quality assurance objectives:

Accuracy is defined as the degree of agreement between a measurement in a quality control sample and an accepted reference or true value. Accuracy is measured as the percent recovery of an analyte as measured through analysis of Laboratory Control Samples (LCS) and Matrix Spike/ Matrix Spike Duplicates (MS/MSD). Since 100% of the LCS and MS/MSD samples were within the applicable acceptance ranges, the overall level of accuracy is considered acceptable

Precision is defined as the agreement between a set of replicate measurements without knowledge of a true value. Precision is measured by the analysis of laboratory and field duplicates. Since 100% of the field and laboratory duplicate results were within applicable acceptance ranges, the overall level of precision is considered acceptable.

Completeness is measured as the ratio of the number of valid analytical results to the total number of analytical results requested. The completeness criteria of 95% for aqueous samples were met. The overall completeness of 100% is considered acceptable.

Representativeness, as measured by comparing the results obtained for the field duplicate pairs, use of sampling procedures contained in the QAPP, and relevant SOPs, is considered acceptable.

9. DATA USABILITY RELATIVE TO PROJECT OBJECTIVES

The overall objective of operations and maintenance phase of the project are to perform long-term monitoring and operations and maintenance (O&M) activities, in the form of semi-annual groundwater monitoring and other maintenance tasks, as required in support of the ROD for the Site.

9.1 EVALUATION OF SAMPLE DETECTION LIMITS AND METHOD QUANTITATION LIMITS RELATIVE TO THE ACTION LEVELS

Sample Detection Limits (SDLs) are the method detection limits for an analyte adjusted for dilutions and sample size. The maximum SDL for the chemicals of concern with a non-detect result were all below the Protective Concentration Limits (PCLs) specified by D. B. Stephens for the COC as shown below:

TARGET COC	MAXIMUM SDL (mg/l)	Level of Required Performance (LORP) (mg/l)
Antimony	0.00080	0.006
Arsenic	0.00200	0.010
Lead (inorganic)	0.00030	0.005

9.2 POTENTIAL EFFECTS OF BIASES AND IMPRECISION ON USABILITY OF THE DATA

None of the data covered by this DUS required qualification.

10. POTENTIAL ADDITIONAL USES AND LIMITATIONS

Other potential data uses have not been identified for this data.

11. CORRECTIVE ACTIONS AND WORKPLAN DEVIATIONS

In order to obtain usable matrix spike/matrix spike duplicate (MS/MSD) QC data to evaluate potential sample matrix interferences, the following corrective action is documented to the field team:

For future sampling events, DBS&A must ensure that a project-specific sample is designated as the MS/MSD sample on the chain-of-custody form, as specified in Element B.5.4.2 of the Federal Superfund Program QAPP and in the TCEQ Superfund Program SOP No. 6.5 (Collection of QA/QC Samples). Additionally, the field team will ensure that sufficient sample volume is collected for the laboratory to perform the MS/MSD QC sample analysis on this project-specific sample. This was done for the June 2013 event.

12. REJECTED DATA AND PROJECT CONSEQUENCES

None of the results associated with this project were rejected based on this data review.

13. CONCLUSIONS

The chemical data covered by this Data Usability Report are considered usable for meeting the project objectives with the qualifications presented in this report.

APPENDIX A

QUALIFIED TRRP REPORTS

Table A-1
Data Qualifier Definitions

Qualifier	Definitions
U	The analyte was analyzed for but was not detected above the sample quantitation limit (SDL). The associated value presented in the tables is the method quantitation limit. The sample quantitation limit is not provided in the tables however, the SDL may be found in the analytical laboratory report.
J	The associated value is an estimated quantity.
UJ	The material was analyzed for but was not detected above the reported sample quantitation limit. The associated value is an estimate and may be inaccurate or imprecise.
N	Tentatively identified; The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	Tentatively identified, reported concentration is estimated: The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents the analyte's approximate concentration.
R	Rejected: The data are unusable. (Note: The presence or absence of the analyte cannot be confirmed.)
X1	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, and is accredited or periodically inspected at least every 3 years by TCEQ.
X2	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is located outside of Texas, and is accredited or periodically inspected by that state.
X3	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is inspected at least every 3 years by the TCEQ, and the work is performed for another company with a unit located on the same site as the laboratory.
X4	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The laboratory is an on-site or in-house laboratory, defined in 30 TAC 25, is inspected at least every 3 years by the TCEQ, and the work is performed without compensation for a governmental agency or a charitable organization.

Qualifier	Definitions
X5	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The laboratory is accredited under federal law, including certification by the USEPA to provide these data for decisions related to the Safe Drinking Water Act.
X6	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The laboratory provides these data necessary for emergency response activities and the required analytical data are not available from a laboratory accredited under the Texas Laboratory Accreditation Program.
X7	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The TCEQ does not offer accreditation for this analyte, in this matrix, analyzed by this method.
X8	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The TCEQ does offers accreditation for this analyte, in this matrix, analyzed by this method, but the laboratory is not accredited for this analyte in this matrix by this method. The analyte result is validated and reported as part of a suite of analytes for the method.
X9	The laboratory is not NELAC accredited under the Texas Laboratory Accreditation Program for this analyte in this matrix analyzed by this method. The analyte result was generated prior to July 1, 2008.

Table A-2
Data Validation Qualifier Codes

Qualifier Code	Data Quality Condition Resulting In Assigned Qualification
General Use	
FB	Field blank contamination
FD	Field duplicate evaluation criteria not met
HT	Holding time requirement was not met
LCS	Laboratory control sample evaluation criteria not met
MB	Method blank or preparation blank contamination
RB	Rinsate blank contamination
MQL	Sample quantitation limit exceeds decision criteria (for nondetected
Inorganic Methods	
CCB	Continuing calibration blank contamination
CCV	Continuing calibration verification evaluation criteria not met
D	Laboratory duplicate precision evaluation criteria not met
DL	Serial dilution results did not meet evaluation criteria
ICS	Interference check sample evaluation criteria not met
ICV	Initial calibration verification evaluation criteria not met
MS	Matrix spike recovery outside acceptance range
PDS	Post-digestion spike recovery outside acceptance range
MSA	Method of standard additions correlation coefficient <0.995
PB	Preparation Blank
Organic Methods	
CCAL	Continuing calibration evaluation criteria not met
ICAL	Initial calibration evaluation criteria not met
ID	Target compound identification criteria not met
IS	Internal standard evaluation criteria not met
MS/SD	Matrix spike/matrix spike duplicate accuracy and/or precision criteria
SUR	Surrogate recovery outside acceptance range
TUNE	Instrument performance (tuning) criteria not met
P	Detected concentration difference between the primary and secondary
Bias Codes	
H	Bias in sample result likely to be high
I	Bias in sample result is indeterminate
L	Bias in sample result likely to be low

DHL ANALYTICAL

June 20, 2013

William Gamblin
D. B. Stephens & Assoc, Inc.
4030 W Braker #325
Austin, Texas 78759
TEL: (512) 821-2765
FAX

Order No.: 1306108

RE: Rockwool TCEQ

Dear William Gamblin:

DHL Analytical, Inc. received 26 sample(s) on 6/12/2013 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-13-11

ACCREDITED IN ACCORDANCE WITH nelac

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DHL ANALYTICAL
2300 Double Creek Dr. ■ Round Rock, TX 78664
Phone (512) 388-8222 ■ FAX (512) 388-8229
Web: www.dhlanalytical.com
E-Mail: login@dhlanalytical.com

№ 60037

CHAIN-OF-CUSTODY

CLIENT: Daniel B. Stephens & Associates
ADDRESS: 4030 W. Braker Lane, Ste. 325, Austin, TX 78759
PHONE: 512-821-2765 FAX/E-MAIL:
DATA REPORTED TO: William Gamblin
ADDITIONAL REPORT COPIES TO:

DATE: 6-11-13 PAGE 1 OF 2
PO #: DHL WORK ORDER #: 018844 1306123
PROJECT LOCATION OR NAME: Rockwool Ind. - Belton, TX
CLENT PROJECT #: ES13.AIRS.11 COLLECTOR: BUD SHIRLEY

Authorize 5% surcharge for TRRP Report? ☐ Yes ☐ No

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR O=OTHER
L=LIQUID SO=SOLID

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESERVED

ANALYSES: BTEX ☐ MTBE ☐ 8021 ☐ 8260 ☐ TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐ GRO (METHOD 8015) ☐ DRO (METHOD 8105) ☐ VOC 8260 ☐ VOC 624 ☐ VOC 8260/5035 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLD PAH ☐ SVOC 625 ☐ 8081 PEST ☐ 608 PEST/PCB ☐ 8082 PCB ☐ 8270 PEST ☐ 8270 PCB ☐ 8270 O-P PEST ☐ 8321 HERB ☐ 8330 EXPL ☐ PERCHLORATE ☐ METALS 6020 ☐ METALS 200.8 ☐ DISS. METALS ☐ ____ ☐ RCRA ☐ TX11 ☐ ____ ☐ PH ☐ HEX CHROM ☐ ALKALINITY ☐ ____ ☐ CHLORIDE ☐ ANIONS ☐ ____ ☐ TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐ TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐ RCI ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	FIELD NOTES
MW-7	01	6-10-13	1620	W	250 ml	1		X		X		
MW-9	02	6-11-13	1128	W	250 ml	1		X		X		
MW-10	03	6-10-13	1231	W	250 ml	1		X		X		
MW-11	04	6-10-13	1313	W	250 ml	1		X		X		
MW-14	05	6-10-13	1353	W	250 ml	1		X		X		
MW-17	06	6-11-13	0910	W	250 ml	1		X		X		
MW-18	07	6-10-13	1446	W	250 ml	1		X		X		
MW-19	08	6-10-13	1534	W	250 ml	1		X		X		
MW-24-90	09	6-10-13	1705	W	250 ml	1		X		X		
MW-27-90	10	6-11-13	0946	W	250 ml	1		X		X		
MW-28-90	11	6-10-13	1752	W	250 ml	1		X		X		
MW-29-90	12	6-11-13	0807	W	250 ml	1		X		X		
MW-30-90	13	6-10-13	1830	W	250 ml	1		X		X		
MW-33-90	14	6-11-13	1022	W	250 ml	1		X		X		
MW-34-90	15	6-11-13	1053	W	250 ml	1		X		X		
TOTAL						15						

RELINQUISHED BY: (Signature) DATE/TIME: 6-12-13 1007 RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ _____

LABORATORY USE ONLY:
RECEIVING TEMP: 4.1 THERM #: 57
CUSTODY SEALS: ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #: _____
☐ APC DELIVERY
☐ HAND DELIVERED

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№ 60038

CHAIN-OF-CUSTODY

CLIENT: Daniel B. Stephens & Associates
ADDRESS: 4030 W. Braker Lane, Ste. 325, Austin, TX 78759
PHONE: 512-821-2705 FAX/E-MAIL:
DATA REPORTED TO: William Gamblin
ADDITIONAL REPORT COPIES TO:

DATE: 6-11-13 PAGE 2 OF 2
PO #: DHL WORK ORDER #: 018844 1306109
PROJECT LOCATION OR NAME: Rockwool Ind. - Belton, TX
CLENT PROJECT #: ES13. AIRS.11 COLLECTOR: Bud SHIRLEY

Authorize 5% surcharge for TRRP Report? ☐ Yes ☐ No

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR O=OTHER
L=LIQUID SO=SOLID

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESERVED

ANALYSES: BTEX ☐ MTBE ☐ (METHOD 8021) | TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐ | GRO (METHOD 8015) ☐ DRO (METHOD 8105) ☐ | VOC 8260 ☐ VOC 624 ☐ VOC (METHOD 8260/5035 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLD PAHs ☐ SVOC 625 ☐ | 8081 PEST ☐ 608 PEST/PCB ☐ 8270 PEST ☐ | 8270 O-P PEST ☐ 8082 PCB ☐ 8270 PCB ☐ | 8321 HERB ☐ 8330 EXPL ☐ PERCHLORATE ☐ | METALS 6020 ☐ METALS 200.8 ☐ DISS. METALS ☐ | RCRA ☐ TX11 ☐ | PH ☐ HEX CHROM ☐ ALKALINITY ☐ | CHLORIDE ☐ ANIONS ☐ | TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐ | TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | MS/MSD

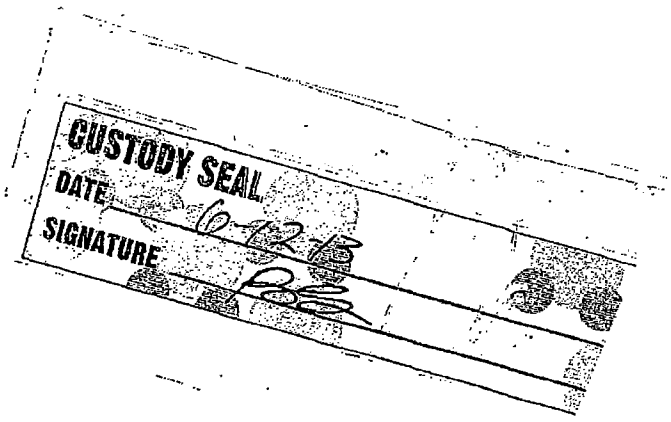
Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
Dup-2	16	6-11-13	1108	W	250 ml	1		X		X		X	
ER-1	17	6-10-13	1837	W	250 ml	1		X		X		X	
~~MW-15 BS~~ 6-11-13													
MW-20	18	6-11-13	1500	W	250 ml (1)	2		X		X		X	
MW-21	19	6-11-13	1547	W	250 ml	3		X		X		X	
MW-22	20	6-11-13	1426	W	250 ml	1		X		X		X	
MW-35-90	21	6-11-13	1654	W	250 ml	1		X		X		X	
MW-37-90	22	6-11-13	1359	W	250 ml	1		X		X		X	
MW-38-90	23	6-11-13	16216	W	250 ml	1		X		X		X	
Dup-1	24	6-11-13	1557	W	250 ml	1		X		X		X	
ER-2	25	6-11-13	1715	W	250 ml	1		X		X		X	
IDW	26	6-12-13	0819	W	250 ml	1		X		X		X	
TOTAL						13							

RELINQUISHED BY: (Signature) DATE/TIME 6-12-13/1007 RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: 4.1 THERM #: 57
CUSTODY SEALS: ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #:
☐ APC DELIVERY
☐ HAND DELIVERED


CUSTODY SEAL
DATE 6-12-15
SIGNATURE


QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name D. B. Stephens & Assoc, Inc. Date Received: 6/12/2013

Work Order Number 1306108 Received by JB

Checklist completed by: _____ 6/12/2013 Reviewed by: DL 6/12/2013
Signature / Date / Initials / Date

Carrier name Hand Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☑	No ☐	Not Present ☐
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 ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	4.1 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH<2 acceptable upon receipt?	Yes ☑	No ☐	NA ☐ LOT # 7179
	Adjusted? NO		Checked by ⊃
Water - ph>9 (S) or ph>12 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted? _____		Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

Page 1 of 1

DHL Analytical, Inc.
Laboratory Review Checklist: Reportable Data

Project Name: Rockwool TCEQ	**Date:** 6/20/2013
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1306108
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?			X		
		2) Were analytical duplicates analyzed at the appropriate frequency?			X		
		3) Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: Rockwool TCEQ	**Date:** 6/20/2013
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 1306108

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			S9-01
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5,
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) The amount of analyte measured in the duplicate,
  - b) The calculated RPD, and
  - c) The laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on May 17-20, 2011. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager

Scott Schroeder – Technical Director — Signature — 6/20/13 — Date

DHL Analytical, Inc. **Date:** *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.
Project:	Rockwool TCEQ
Lab Order:	1306108

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis
Method SW7470A- Total Mercury Analysis

Exception Report R1-01

The samples were received and log-in performed on 6/12/2013. A total of 26 samples were received and analyzed. The samples arrived in good condition and were properly packaged.

Exception Report S9-01

For Metals Analysis, the RPDs of five analytes for the Serial Dilution (1306108-26 SD) were above the method control limit. These are flagged accordingly in the QC Summary report. These analytes are within method control limits in the associated Post Digestion Spike. No further corrective action was taken.

For Metals Analysis, the recovery of Antimony for the Post Digestion Spike (1306108-19 PDS) was slightly below the method control limits. This is flagged accordingly in the QC Summary report. This analyte is within method control limits in the associated Serial Dilution. No further corrective action was taken.

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT: D. B. Stephens & Assoc, Inc.
Project: Rockwool TCEQ
Lab Order: 1306108

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1306108-01	MW-7		06/10/13 04:20 PM	6/12/2013
1306108-02	MW-9		06/11/13 11:28 AM	6/12/2013
1306108-03	MW-10		06/10/13 12:31 PM	6/12/2013
1306108-04	MW-11		06/10/13 01:13 PM	6/12/2013
1306108-05	MW-14		06/10/13 01:53 PM	6/12/2013
1306108-06	MW-17		06/11/13 09:06 AM	6/12/2013
1306108-07	MW-18		06/10/13 02:46 PM	6/12/2013
1306108-08	MW-19		06/10/13 03:34 PM	6/12/2013
1306108-09	MW-24-90		06/10/13 05:05 PM	6/12/2013
1306108-10	MW-27-90		06/11/13 09:46 AM	6/12/2013
1306108-11	MW-28-90		06/10/13 05:52 PM	6/12/2013
1306108-12	MW-29-90		06/11/13 08:07 AM	6/12/2013
1306108-13	MW-30-90		06/10/13 06:30 PM	6/12/2013
1306108-14	MW-33-90		06/11/13 10:22 AM	6/12/2013
1306108-15	MW-34-90		06/11/13 10:53 AM	6/12/2013
1306108-16	DUP-2		06/11/13 11:08 AM	6/12/2013
1306108-17	ER-1		06/10/13 06:37 PM	6/12/2013
1306108-18	MW-20		06/11/13 03:00 PM	6/12/2013
1306108-19	MW-21		06/11/13 03:47 PM	6/12/2013
1306108-20	MW-22		06/11/13 02:26 PM	6/12/2013
1306108-21	MW-35-90		06/11/13 04:54 PM	6/12/2013
1306108-22	MW-37-90		06/11/13 01:59 PM	6/12/2013
1306108-23	MW-38-90		06/11/13 04:26 PM	6/12/2013
1306108-24	DUP-1		06/11/13 03:57 PM	6/12/2013
1306108-25	ER-2		06/11/13 05:15 PM	6/12/2013
1306108-26	IDW		06/12/13 08:19 AM	6/12/2013

Lab Order: 1306108
Client: D. B. Stephens & Assoc, Inc.
Project: Rockwool TCEQ

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1306108-01A	MW-7	06/10/13 04:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:42 AM	57936
1306108-02A	MW-9	06/11/13 11:28 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:42 AM	57936
1306108-03A	MW-10	06/10/13 12:31 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:42 AM	57936
1306108-04A	MW-11	06/10/13 01:13 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:42 AM	57936
1306108-05A	MW-14	06/10/13 01:53 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:42 AM	57936
1306108-06A	MW-17	06/11/13 09:06 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:42 AM	57936
1306108-07A	MW-18	06/10/13 02:46 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:42 AM	57936
1306108-08A	MW-19	06/10/13 03:34 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:42 AM	57936
1306108-09A	MW-24-90	06/10/13 05:05 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:42 AM	57936
1306108-10A	MW-27-90	06/11/13 09:46 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:42 AM	57936
1306108-11A	MW-28-90	06/10/13 05:52 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:42 AM	57936
1306108-12A	MW-29-90	06/11/13 08:07 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:42 AM	57936
1306108-13A	MW-30-90	06/10/13 06:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:42 AM	57936
1306108-14A	MW-33-90	06/11/13 10:22 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:42 AM	57936
1306108-15A	MW-34-90	06/11/13 10:53 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:42 AM	57936
1306108-16A	DUP-2	06/11/13 11:08 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:42 AM	57936
1306108-17A	ER-1	06/10/13 06:37 PM	Equip Blank	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:42 AM	57936
1306108-18A	MW-20	06/11/13 03:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:42 AM	57936
1306108-19A	MW-21	06/11/13 03:47 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:42 AM	57936
1306108-20A	MW-22	06/11/13 02:26 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:42 AM	57936
1306108-21A	MW-35-90	06/11/13 04:54 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:50 AM	57939
	MW-35-90	06/11/13 04:54 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:50 AM	57939
1306108-22A	MW-37-90	06/11/13 01:59 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:50 AM	57939
1306108-23A	MW-38-90	06/11/13 04:26 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:50 AM	57939
	MW-38-90	06/11/13 04:26 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:50 AM	57939
1306108-24A	DUP-1	06/11/13 03:57 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:50 AM	57939
1306108-25A	ER-2	06/11/13 05:15 PM	Equip Blank	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:50 AM	57939
1306108-26A	IDW	06/12/13 08:19 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:50 AM	57939

Lab Order: 1306108
Client: D. B. Stephens & Assoc, Inc.
Project: Rockwool TCEQ

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1306108-26A	IDW	06/12/13 08:19 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	06/14/13 08:49 AM	57938

Lab Order: 1306108
Client: D. B. Stephens & Assoc, Inc.
Project: Rockwool TCEQ

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1306108-01A	MW-7	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	1	06/15/13 01:11 AM	ICP-MS2_130614D
1306108-02A	MW-9	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	1	06/15/13 01:16 AM	ICP-MS2_130614D
1306108-03A	MW-10	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	1	06/15/13 01:22 AM	ICP-MS2_130614D
1306108-04A	MW-11	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	1	06/15/13 01:28 AM	ICP-MS2_130614D
1306108-05A	MW-14	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	1	06/15/13 01:34 AM	ICP-MS2_130614D
1306108-06A	MW-17	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	1	06/15/13 01:40 AM	ICP-MS2_130614D
1306108-07A	MW-18	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	1	06/15/13 01:46 AM	ICP-MS2_130614D
1306108-08A	MW-19	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	1	06/15/13 01:51 AM	ICP-MS2_130614D
1306108-09A	MW-24-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	1	06/15/13 01:57 AM	ICP-MS2_130614D
1306108-10A	MW-27-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	1	06/15/13 03:18 AM	ICP-MS2_130614D
1306108-11A	MW-28-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	1	06/15/13 03:24 AM	ICP-MS2_130614D
1306108-12A	MW-29-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	1	06/15/13 03:30 AM	ICP-MS2_130614D
1306108-13A	MW-30-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	1	06/15/13 03:36 AM	ICP-MS2_130614D
1306108-14A	MW-33-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	1	06/15/13 03:42 AM	ICP-MS2_130614D
1306108-15A	MW-34-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	1	06/15/13 03:47 AM	ICP-MS2_130614D
1306108-16A	DUP-2	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	1	06/15/13 03:53 AM	ICP-MS2_130614D
1306108-17A	ER-1	Equip Blank	SW6020A	Trace Metals: ICP-MS - Water	57936	1	06/15/13 03:59 AM	ICP-MS2_130614D
1306108-18A	MW-20	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	1	06/15/13 04:05 AM	ICP-MS2_130614D
1306108-19A	MW-21	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	1	06/15/13 12:59 AM	ICP-MS2_130614D
1306108-20A	MW-22	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	1	06/15/13 04:11 AM	ICP-MS2_130614D
1306108-21A	MW-35-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57939	1	06/14/13 09:30 PM	ICP-MS2_130614D
	MW-35-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57939	5	06/17/13 12:21 PM	ICP-MS3_130617A
1306108-22A	MW-37-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57939	1	06/14/13 09:36 PM	ICP-MS2_130614D
1306108-23A	MW-38-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57939	1	06/14/13 09:42 PM	ICP-MS2_130614D
	MW-38-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57939	5	06/17/13 12:26 PM	ICP-MS3_130617A
1306108-24A	DUP-1	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57939	1	06/14/13 11:03 PM	ICP-MS2_130614D
1306108-25A	ER-2	Equip Blank	SW6020A	Trace Metals: ICP-MS - Water	57939	1	06/14/13 11:09 PM	ICP-MS2_130614D
1306108-26A	IDW	Aqueous	SW7470A	Total Mercury: Aqueous	57938	1	06/17/13 12:59 PM	CETAC_HG_130617B

Lab Order: 1306108
Client: D. B. Stephens & Assoc, Inc.
Project: Rockwool TCEQ

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1306108-26A	IDW	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57939	1	06/14/13 08:43 PM	ICP-MS2_130614D

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-7
Project:	Rockwool TCEQ	**Lab ID:**	1306108-01
Project No:	ES13.AIRS.11	**Collection Date:**	06/10/13 04:20 PM
Lab Order:	1306108	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.00143	0.000800	0.00250	J	mg/L	1	06/15/13 01:11 AM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	06/15/13 01:11 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	06/15/13 01:11 AM
IS: Bismuth	110	0	70-200		%REC	1	06/15/13 01:11 AM
IS: Germanium	103	0	70-200		%REC	1	06/15/13 01:11 AM
IS: Indium	105	0	70-200		%REC	1	06/15/13 01:11 AM
IS: Scandium(1)	101	0	70-200		%REC	1	06/15/13 01:11 AM
IS: Scandium(2)	89.8	0	70-200		%REC	1	06/15/13 01:11 AM

MLT 6-26-13

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-9
Project:	Rockwool TCEQ	**Lab ID:**	1306108-02
Project No:	ES13.AIRS.11	**Collection Date:**	06/11/13 11:28 AM
Lab Order:	1306108	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.256	0.000800	0.00250		mg/L	1	06/15/13 01:16 AM
Arsenic	0.0982	0.00200	0.00500		mg/L	1	06/15/13 01:16 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	06/15/13 01:16 AM
IS: Bismuth	111	0	70-200		%REC	1	06/15/13 01:16 AM
IS: Germanium	108	0	70-200		%REC	1	06/15/13 01:16 AM
IS: Indium	103	0	70-200		%REC	1	06/15/13 01:16 AM
IS: Scandium(1)	107	0	70-200		%REC	1	06/15/13 01:16 AM
IS: Scandium(2)	88.0	0	70-200		%REC	1	06/15/13 01:16 AM

JKT 6.26.13

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-10
Project:	Rockwool TCEQ	**Lab ID:**	1306108-03
Project No:	ES13.AIRS.11	**Collection Date:**	06/10/13 12:31 PM
Lab Order:	1306108	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	06/15/13 01:22 AM
Arsenic	0.00363	0.00200	0.00500	J	mg/L	1	06/15/13 01:22 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	06/15/13 01:22 AM
IS: Bismuth	107	0	70-200		%REC	1	06/15/13 01:22 AM
IS: Germanium	101	0	70-200		%REC	1	06/15/13 01:22 AM
IS: Indium	99.7	0	70-200		%REC	1	06/15/13 01:22 AM
IS: Scandium(1)	102	0	70-200		%REC	1	06/15/13 01:22 AM
IS: Scandium(2)	85.2	0	70-200		%REC	1	06/15/13 01:22 AM

MLC 6-26-13

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-11
Project:	Rockwool TCEQ	**Lab ID:**	1306108-04
Project No:	ES13.AIRS.11	**Collection Date:**	06/10/13 01:13 PM
Lab Order:	1306108	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	06/15/13 01:28 AM
Arsenic	0.00260	0.00200	0.00500	J	mg/L	1	06/15/13 01:28 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	06/15/13 01:28 AM
IS: Bismuth	84.5	0	70-200		%REC	1	06/15/13 01:28 AM
IS: Germanium	96.8	0	70-200		%REC	1	06/15/13 01:28 AM
IS: Indium	80.4	0	70-200		%REC	1	06/15/13 01:28 AM
IS: Scandium(1)	97.0	0	70-200		%REC	1	06/15/13 01:28 AM

NKT 6-26-13

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-14
Project:	Rockwool TCEQ	**Lab ID:**	1306108-05
Project No:	ES13.AIRS.11	**Collection Date:**	06/10/13 01:53 PM
Lab Order:	1306108	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	06/15/13 01:34 AM
Arsenic	0.00216	0.00200	0.00500	J	mg/L	1	06/15/13 01:34 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	06/15/13 01:34 AM
IS: Bismuth	92.7	0	70-200		%REC	1	06/15/13 01:34 AM
IS: Germanium	82.2	0	70-200		%REC	1	06/15/13 01:34 AM
IS: Indium	85.6	0	70-200		%REC	1	06/15/13 01:34 AM
IS: Scandium(1)	80.0	0	70-200		%REC	1	06/15/13 01:34 AM
IS: Scandium(2)	73.2	0	70-200		%REC	1	06/15/13 01:34 AM

MKT 6.26.13

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-17
Project:	Rockwool TCEQ	**Lab ID:**	1306108-06
Project No:	ES13.AIRS.11	**Collection Date:**	06/11/13 09:06 AM
Lab Order:	1306108	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.0436	0.000800	0.00250		mg/L	1	06/15/13 01:40 AM
Arsenic	0.0115	0.00200	0.00500		mg/L	1	06/15/13 01:40 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	06/15/13 01:40 AM
IS: Bismuth	95.9	0	70-200		%REC	1	06/15/13 01:40 AM
IS: Germanium	88.2	0	70-200		%REC	1	06/15/13 01:40 AM
IS: Indium	90.1	0	70-200		%REC	1	06/15/13 01:40 AM
IS: Scandium(1)	85.2	0	70-200		%REC	1	06/15/13 01:40 AM
IS: Scandium(2)	77.0	0	70-200		%REC	1	06/15/13 01:40 AM

MK 6.26.13

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-18
Project:	Rockwool TCEQ	**Lab ID:**	1306108-07
Project No:	ES13.AIRS.11	**Collection Date:**	06/10/13 02:46 PM
Lab Order:	1306108	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	06/15/13 01:46 AM
Arsenic	0.00699	0.00200	0.00500		mg/L	1	06/15/13 01:46 AM
Lead	0.00601	0.000300	0.00100		mg/L	1	06/15/13 01:46 AM
IS: Bismuth	104	0	70-200		%REC	1	06/15/13 01:46 AM
IS: Germanium	97.9	0	70-200		%REC	1	06/15/13 01:46 AM
IS: Indium	102	0	70-200		%REC	1	06/15/13 01:46 AM
IS: Scandium(1)	98.4	0	70-200		%REC	1	06/15/13 01:46 AM
IS: Scandium(2)	91.1	0	70-200		%REC	1	06/15/13 01:46 AM

NKT 6-26-13

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-19
Project:	Rockwool TCEQ	**Lab ID:**	1306108-08
Project No:	ES13.AIRS.11	**Collection Date:**	06/10/13 03:34 PM
Lab Order:	1306108	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.00148	0.000800	0.00250	J	mg/L	1	06/15/13 01:51 AM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	06/15/13 01:51 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	06/15/13 01:51 AM
IS: Bismuth	96.7	0	70-200		%REC	1	06/15/13 01:51 AM
IS: Germanium	95.7	0	70-200		%REC	1	06/15/13 01:51 AM
IS: Indium	90.4	0	70-200		%REC	1	06/15/13 01:51 AM
IS: Scandium(1)	95.7	0	70-200		%REC	1	06/15/13 01:51 AM
IS: Scandium(2)	78.7	0	70-200		%REC	1	06/15/13 01:51 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

NEI 6-26-13

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-24-90
Project:	Rockwool TCEQ	**Lab ID:**	1306108-09
Project No:	ES13.AIRS.11	**Collection Date:**	06/10/13 05:05 PM
Lab Order:	1306108	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.00982	0.000800	0.00250		mg/L	1	06/15/13 01:57 AM
Arsenic	0.00458	0.00200	0.00500	J	mg/L	1	06/15/13 01:57 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	06/15/13 01:57 AM
IS: Bismuth	115	0	70-200		%REC	1	06/15/13 01:57 AM
IS: Germanium	103	0	70-200		%REC	1	06/15/13 01:57 AM
IS: Indium	109	0	70-200		%REC	1	06/15/13 01:57 AM
IS: Scandium(1)	104	0	70-200		%REC	1	06/15/13 01:57 AM
IS: Scandium(2)	96.1	0	70-200		%REC	1	06/15/13 01:57 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

NV 6.26.13

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-27-90
Project:	Rockwool TCEQ	**Lab ID:**	1306108-10
Project No:	ES13.AIRS.11	**Collection Date:**	*06/11/13 09:46 AM*
Lab Order:	1306108	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.0624	0.000800	0.00250		mg/L	1	06/15/13 03:18 AM
Arsenic	0.00211	0.00200	0.00500	J	mg/L	1	06/15/13 03:18 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	06/15/13 03:18 AM
IS: Bismuth	95.7	0	70-200		%REC	1	06/15/13 03:18 AM
IS: Germanium	95.9	0	70-200		%REC	1	06/15/13 03:18 AM
IS: Indium	90.0	0	70-200		%REC	1	06/15/13 03:18 AM
IS: Scandium(1)	94.4	0	70-200		%REC	1	06/15/13 03:18 AM
IS: Scandium(2)	78.7	0	70-200		%REC	1	06/15/13 03:18 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

WLT 6.26-13

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-28-90
Project:	Rockwool TCEQ	**Lab ID:**	1306108-11
Project No:	ES13.AIRS.11	**Collection Date:**	06/10/13 05:52 PM
Lab Order:	1306108	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.0254	0.000800	0.00250		mg/L	1	06/15/13 03:24 AM
Arsenic	0.0554	0.00200	0.00500		mg/L	1	06/15/13 03:24 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	06/15/13 03:24 AM
IS: Bismuth	101	0	70-200		%REC	1	06/15/13 03:24 AM
IS: Germanium	87.2	0	70-200		%REC	1	06/15/13 03:24 AM
IS: Indium	97.0	0	70-200		%REC	1	06/15/13 03:24 AM
IS: Scandium(1)	86.8	0	70-200		%REC	1	06/15/13 03:24 AM
IS: Scandium(2)	85.0	0	70-200		%REC	1	06/15/13 03:24 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

MK 6.26.13

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-29-90
Project:	Rockwool TCEQ	**Lab ID:**	1306108-12
Project No:	ES13.AIRS.11	**Collection Date:**	06/11/13 08:07 AM
Lab Order:	1306108	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.0221	0.000800	0.00250		mg/L	1	06/15/13 03:30 AM
Arsenic	0.00270	0.00200	0.00500	J	mg/L	1	06/15/13 03:30 AM
Lead	0.000802	0.000300	0.00100	J	mg/L	1	06/15/13 03:30 AM
IS: Bismuth	106	0	70-200		%REC	1	06/15/13 03:30 AM
IS: Germanium	104	0	70-200		%REC	1	06/15/13 03:30 AM
IS: Indium	99.4	0	70-200		%REC	1	06/15/13 03:30 AM
IS: Scandium(1)	102	0	70-200		%REC	1	06/15/13 03:30 AM
IS: Scandium(2)	86.7	0	70-200		%REC	1	06/15/13 03:30 AM

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

NK 6.26.13

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-30-90
Project:	Rockwool TCEQ	**Lab ID:**	1306108-13
Project No:	ES13.AIRS.11	**Collection Date:**	06/10/13 06:30 PM
Lab Order:	1306108	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.00121	0.000800	0.00250	J	mg/L	1	06/15/13 03:36 AM
Arsenic	0.00205	0.00200	0.00500	J	mg/L	1	06/15/13 03:36 AM
Lead	0.00378	0.000300	0.00100		mg/L	1	06/15/13 03:36 AM
IS: Bismuth	102	0	70-200		%REC	1	06/15/13 03:36 AM
IS: Germanium	93.8	0	70-200		%REC	1	06/15/13 03:36 AM
IS: Indium	96.4	0	70-200		%REC	1	06/15/13 03:36 AM
IS: Scandium(1)	92.4	0	70-200		%REC	1	06/15/13 03:36 AM
IS: Scandium(2)	85.2	0	70-200		%REC	1	06/15/13 03:36 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

NKT 6.26.13

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-33-90
Project:	Rockwool TCEQ	**Lab ID:**	1306108-14
Project No:	ES13.AIRS.11	**Collection Date:**	06/11/13 10:22 AM
Lab Order:	1306108	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.138	0.000800	0.00250		mg/L	1	06/15/13 03:42 AM
Arsenic	0.0314	0.00200	0.00500		mg/L	1	06/15/13 03:42 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	06/15/13 03:42 AM
IS: Bismuth	102	0	70-200		%REC	1	06/15/13 03:42 AM
IS: Germanium	97.6	0	70-200		%REC	1	06/15/13 03:42 AM
IS: Indium	97.1	0	70-200		%REC	1	06/15/13 03:42 AM
IS: Scandium(1)	95.3	0	70-200		%REC	1	06/15/13 03:42 AM
IS: Scandium(2)	85.4	0	70-200		%REC	1	06/15/13 03:42 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

MK 6-26-13

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-34-90
Project:	Rockwool TCEQ	**Lab ID:**	1306108-15
Project No:	ES13.AIRS.11	**Collection Date:**	06/11/13 10:53 AM
Lab Order:	1306108	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.327	0.000800	0.00250		mg/L	1	06/15/13 03:47 AM
Arsenic	0.398	0.00200	0.00500		mg/L	1	06/15/13 03:47 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	06/15/13 03:47 AM
IS: Bismuth	85.1	0	70-200		%REC	1	06/15/13 03:47 AM
IS: Germanium	90.1	0	70-200		%REC	1	06/15/13 03:47 AM
IS: Indium	81.4	0	70-200		%REC	1	06/15/13 03:47 AM
IS: Scandium(1)	88.8	0	70-200		%REC	1	06/15/13 03:47 AM
IS: Scandium(2)	71.1	0	70-200		%REC	1	06/15/13 03:47 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

MK 6.26.13

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	DUP-2
Project:	Rockwool TCEQ	**Lab ID:**	1306108-16
Project No:	ES13.AIRS.11	**Collection Date:**	06/11/13 11:08 AM
Lab Order:	1306108	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.337	0.000800	0.00250		mg/L	1	06/15/13 03:53 AM
Arsenic	0.413	0.00200	0.00500		mg/L	1	06/15/13 03:53 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	06/15/13 03:53 AM
IS: Bismuth	98.7	0	70-200		%REC	1	06/15/13 03:53 AM
IS: Germanium	93.7	0	70-200		%REC	1	06/15/13 03:53 AM
IS: Indium	94.3	0	70-200		%REC	1	06/15/13 03:53 AM
IS: Scandium(1)	91.3	0	70-200		%REC	1	06/15/13 03:53 AM
IS: Scandium(2)	84.1	0	70-200		%REC	1	06/15/13 03:53 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

MK 6-26-13

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	ER-1
Project:	Rockwool TCEQ	**Lab ID:**	1306108-17
Project No:	ES13.AIRS.11	**Collection Date:**	06/10/13 06:37 PM
Lab Order:	1306108	**Matrix:**	EQUIP BLANK

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	06/15/13 03:59 AM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	06/15/13 03:59 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	06/15/13 03:59 AM
IS: Bismuth	112	0	70-200		%REC	1	06/15/13 03:59 AM
IS: Germanium	83.1	0	70-200		%REC	1	06/15/13 03:59 AM
IS: Indium	102	0	70-200		%REC	1	06/15/13 03:59 AM
IS: Scandium(1)	81.9	0	70-200		%REC	1	06/15/13 03:59 AM
IS: Scandium(2)	89.8	0	70-200		%REC	1	06/15/13 03:59 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

NLT 6.26.13

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-20
Project:	Rockwool TCEQ	**Lab ID:**	1306108-18
Project No:	ES13.AIRS.11	**Collection Date:**	06/11/13 03:00 PM
Lab Order:	1306108	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.00196	0.000800	0.00250	J	mg/L	1	06/15/13 04:05 AM
Arsenic	0.00322	0.00200	0.00500	J	mg/L	1	06/15/13 04:05 AM
Lead	*<0.000300*	*0.000300*	*0.00100*		mg/L	1	06/15/13 04:05 AM
IS: Bismuth	91.6	0	70-200		%REC	1	06/15/13 04:05 AM
IS: Germanium	84.7	0	70-200		%REC	1	06/15/13 04:05 AM
IS: Indium	88.2	0	70-200		%REC	1	06/15/13 04:05 AM
IS: Scandium(1)	85.3	0	70-200		%REC	1	06/15/13 04:05 AM
IS: Scandium(2)	79.2	0	70-200		%REC	1	06/15/13 04:05 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

NKT 6-26-13

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-21
Project:	Rockwool TCEQ	**Lab ID:**	1306108-19
Project No:	ES13.AIRS.11	**Collection Date:**	06/11/13 03:47 PM
Lab Order:	1306108	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.361	0.000800	0.00250		mg/L	1	06/15/13 12:59 AM
Arsenic	0.00295	0.00200	0.00500	J	mg/L	1	06/15/13 12:59 AM
Lead	<0.000300	0.000300	0.00100		mg/L	1	06/15/13 12:59 AM
IS: Bismuth	109	0	70-200		%REC	1	06/15/13 12:59 AM
IS: Germanium	102	0	70-200		%REC	1	06/15/13 12:59 AM
IS: Indium	103	0	70-200		%REC	1	06/15/13 12:59 AM
IS: Scandium(1)	99.4	0	70-200		%REC	1	06/15/13 12:59 AM
IS: Scandium(2)	86.8	0	70-200		%REC	1	06/15/13 12:59 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

6.26.13

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-22
Project:	Rockwool TCEQ	**Lab ID:**	1306108-20
Project No:	ES13.AIRS.11	**Collection Date:**	06/11/13 02:26 PM
Lab Order:	1306108	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.00103	0.000800	0.00250	J	mg/L	1	06/15/13 04:11 AM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	06/15/13 04:11 AM
Lead	0.000461	0.000300	0.00100	J	mg/L	1	06/15/13 04:11 AM
IS: Bismuth	90.9	0	70-200		%REC	1	06/15/13 04:11 AM
IS: Germanium	83.4	0	70-200		%REC	1	06/15/13 04:11 AM
IS: Indium	87.0	0	70-200		%REC	1	06/15/13 04:11 AM
IS: Scandium(1)	83.7	0	70-200		%REC	1	06/15/13 04:11 AM
IS: Scandium(2)	76.8	0	70-200		%REC	1	06/15/13 04:11 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

6-26-13

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-35-90
Project:	Rockwool TCEQ	**Lab ID:**	1306108-21
Project No:	ES13.AIRS.11	**Collection Date:**	06/11/13 04:54 PM
Lab Order:	1306108	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.850	0.00400	0.0125		mg/L	5	06/17/13 12:21 PM
Arsenic	0.0955	0.00200	0.00500		mg/L	1	06/14/13 09:30 PM
Lead	0.000834	0.000300	0.00100	J	mg/L	1	06/14/13 09:30 PM
IS: Bismuth	101	0	70-200		%REC	5	06/17/13 12:21 PM
IS: Bismuth	105	0	70-200		%REC	1	06/14/13 09:30 PM
IS: Germanium	101	0	70-200		%REC	5	06/17/13 12:21 PM
IS: Germanium	100	0	70-200		%REC	1	06/14/13 09:30 PM
IS: Indium	101	0	70-200		%REC	5	06/17/13 12:21 PM
IS: Indium	101	0	70-200		%REC	1	06/14/13 09:30 PM
IS: Scandium(1)	98.3	0	70-200		%REC	5	06/17/13 12:21 PM
IS: Scandium(1)	100	0	70-200		%REC	1	06/14/13 09:30 PM
IS: Scandium(2)	94.2	0	70-200		%REC	5	06/17/13 12:21 PM
IS: Scandium(2)	91.3	0	70-200		%REC	1	06/14/13 09:30 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

MK 6-26-13

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-37-90
Project:	Rockwool TCEQ	**Lab ID:**	1306108-22
Project No:	ES13.AIRS.11	**Collection Date:**	06/11/13 01:59 PM
Lab Order:	1306108	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.00169	0.000800	0.00250	J	mg/L	1	06/14/13 09:36 PM
Arsenic	0.0360	0.00200	0.00500		mg/L	1	06/14/13 09:36 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	06/14/13 09:36 PM
IS: Bismuth	110	0	70-200		%REC	1	06/14/13 09:36 PM
IS: Germanium	97.8	0	70-200		%REC	1	06/14/13 09:36 PM
IS: Indium	105	0	70-200		%REC	1	06/14/13 09:36 PM
IS: Scandium(1)	96.7	0	70-200		%REC	1	06/14/13 09:36 PM
IS: Scandium(2)	93.8	0	70-200		%REC	1	06/14/13 09:36 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

NKJ 6-26-13

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	MW-38-90
Project:	Rockwool TCEQ	**Lab ID:**	1306108-23
Project No:	ES13.AIRS.11	**Collection Date:**	06/11/13 04:26 PM
Lab Order:	1306108	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.976	0.00400	0.0125		mg/L	5	06/17/13 12:26 PM
Arsenic	0.00498	0.00200	0.00500	J	mg/L	1	06/14/13 09:42 PM
Lead	0.000579	0.000300	0.00100	J	mg/L	1	06/14/13 09:42 PM
IS: Bismuth	99.7	0	70-200		%REC	5	06/17/13 12:26 PM
IS: Bismuth	102	0	70-200		%REC	1	06/14/13 09:42 PM
IS: Germanium	102	0	70-200		%REC	5	06/17/13 12:26 PM
IS: Germanium	96.5	0	70-200		%REC	1	06/14/13 09:42 PM
IS: Indium	99.4	0	70-200		%REC	5	06/17/13 12:26 PM
IS: Indium	96.7	0	70-200		%REC	1	06/14/13 09:42 PM
IS: Scandium(1)	98.7	0	70-200		%REC	5	06/17/13 12:26 PM
IS: Scandium(1)	96.3	0	70-200		%REC	1	06/14/13 09:42 PM
IS: Scandium(2)	92.5	0	70-200		%REC	5	06/17/13 12:26 PM
IS: Scandium(2)	88.0	0	70-200		%REC	1	06/14/13 09:42 PM

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

NC7 6-26-13

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	DUP-1
Project:	Rockwool TCEQ	**Lab ID:**	1306108-24
Project No:	ES13.AIRS.11	**Collection Date:**	06/11/13 03:57 PM
Lab Order:	1306108	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.349	0.000800	0.00250		mg/L	1	06/14/13 11:03 PM
Arsenic	0.00269	0.00200	0.00500	J	mg/L	1	06/14/13 11:03 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	06/14/13 11:03 PM
IS: Bismuth	108	0	70-200		%REC	1	06/14/13 11:03 PM
IS: Germanium	101	0	70-200		%REC	1	06/14/13 11:03 PM
IS: Indium	102	0	70-200		%REC	1	06/14/13 11:03 PM
IS: Scandium(1)	99.7	0	70-200		%REC	1	06/14/13 11:03 PM
IS: Scandium(2)	91.4	0	70-200		%REC	1	06/14/13 11:03 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

MKJ 6-26-13

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	ER-2
Project:	Rockwool TCEQ	**Lab ID:**	1306108-25
Project No:	ES13.AIRS.11	**Collection Date:**	06/11/13 05:15 PM
Lab Order:	1306108	**Matrix:**	EQUIP BLANK

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	<0.000800	0.000800	0.00250		mg/L	1	06/14/13 11:09 PM
Arsenic	<0.00200	0.00200	0.00500		mg/L	1	06/14/13 11:09 PM
Lead	<0.000300	0.000300	0.00100		mg/L	1	06/14/13 11:09 PM
IS: Bismuth	113	0	70-200		%REC	1	06/14/13 11:09 PM
IS: Germanium	101	0	70-200		%REC	1	06/14/13 11:09 PM
IS: Indium	105	0	70-200		%REC	1	06/14/13 11:09 PM
IS: Scandium(1)	100	0	70-200		%REC	1	06/14/13 11:09 PM
IS: Scandium(2)	91.3	0	70-200		%REC	1	06/14/13 11:09 PM

Qualifiers:
ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

MK 6-26-13

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT:	D. B. Stephens & Assoc, Inc.	**Client Sample ID:**	IDW
Project:	Rockwool TCEQ	**Lab ID:**	1306108-26
Project No:	ES13.AIRS.11	**Collection Date:**	06/12/13 08:19 AM
Lab Order:	1306108	**Matrix:**	AQUEOUS

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		**SW6020A**					Analyst: **SW**
Antimony	0.0704	0.000800	0.00250		mg/L	1	06/14/13 08:43 PM
Arsenic	0.00897	0.00200	0.00500		mg/L	1	06/14/13 08:43 PM
Barium	0.0485	0.00300	0.0100		mg/L	1	06/14/13 08:43 PM
Beryllium	0.000703	0.000300	0.00100	J	mg/L	1	06/14/13 08:43 PM
Cadmium	0.000933	0.000300	0.00100	J	mg/L	1	06/14/13 08:43 PM
Chromium	0.00233	0.00200	0.00500	J	mg/L	1	06/14/13 08:43 PM
Lead	0.00260	0.000300	0.00100		mg/L	1	06/14/13 08:43 PM
Nickel	0.00555	0.00300	0.0100	J	mg/L	1	06/14/13 08:43 PM
Selenium	0.0163	0.00200	0.00500		mg/L	1	06/14/13 08:43 PM
Silver	<0.00100	0.00100	0.00200		mg/L	1	06/14/13 08:43 PM
IS: Bismuth	110	0	70-200		%REC	1	06/14/13 08:43 PM
IS: Germanium	100	0	70-200		%REC	1	06/14/13 08:43 PM
IS: Indium	104	0	70-200		%REC	1	06/14/13 08:43 PM
IS: Scandium(1)	99.3	0	70-200		%REC	1	06/14/13 08:43 PM
IS: Scandium(2)	94.2	0	70-200		%REC	1	06/14/13 08:43 PM
TOTAL MERCURY: AQUEOUS		**SW7470A**					Analyst: **LM**
Mercury	<0.0000800	0.0000800	0.000200		mg/L	1	06/17/13 12:59 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc. **Date:** *20-Jun-13*

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1306108
Project: Rockwool TCEQ

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_130522A

Sample ID: **DCS-57545**	Batch ID: **57545**	TestNo: **SW7470A**		Units:	**mg/L**
SampType: **DCS**	Run ID: **CETAC_HG_130522A**	Analysis Date: **5/22/2013 3:16:16 PM**		Prep Date:	**5/21/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0000734	0.000200	0.000100	0	73.4	60	140	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1306108
Project: Rockwool TCEQ

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_130617B

The QC data in batch 57938 applies to the following samples: 1306108-26A

Sample ID: MB-57938	Batch ID: 57938	TestNo: SW7470A	Units: mg/L
SampType: MBLK	Run ID: CETAC_HG_130617B	Analysis Date: 6/17/2013 12:30:45 PM	Prep Date: 6/14/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.0000800	0.000200								

Sample ID: LCS-57938	Batch ID: 57938	TestNo: SW7470A	Units: mg/L
SampType: LCS	Run ID: CETAC_HG_130617B	Analysis Date: 6/17/2013 12:34:49 PM	Prep Date: 6/14/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00202	0.000200	0.00200	0	101	85	115			

Sample ID: LCSD-57938	Batch ID: 57938	TestNo: SW7470A	Units: mg/L
SampType: LCSD	Run ID: CETAC_HG_130617B	Analysis Date: 6/17/2013 12:36:51 PM	Prep Date: 6/14/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00204	0.000200	0.00200	0	102	85	115	0.985	15	

Sample ID: 1306091-02C SD	Batch ID: 57938	TestNo: SW7470A	Units: mg/L
SampType: SD	Run ID: CETAC_HG_130617B	Analysis Date: 6/17/2013 12:40:56 PM	Prep Date: 6/14/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	<0.000400	0.00100	0	0				0	10	

Sample ID: 1306091-02C PDS	Batch ID: 57938	TestNo: SW7470A	Units: mg/L
SampType: PDS	Run ID: CETAC_HG_130617B	Analysis Date: 6/17/2013 12:42:58 PM	Prep Date: 6/14/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00255	0.000200	0.00250	0	102	85	115			

Sample ID: 1306091-02C MS	Batch ID: 57938	TestNo: SW7470A	Units: mg/L
SampType: MS	Run ID: CETAC_HG_130617B	Analysis Date: 6/17/2013 12:45:00 PM	Prep Date: 6/14/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00206	0.000200	0.00200	0	103	80	120			

Sample ID: 1306091-02C MSD	Batch ID: 57938	TestNo: SW7470A	Units: mg/L
SampType: MSD	Run ID: CETAC_HG_130617B	Analysis Date: 6/17/2013 12:47:03 PM	Prep Date: 6/14/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00213	0.000200	0.00200	0	106	80	120	3.34	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1306108
Project: Rockwool TCEQ

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_130617B

Sample ID: ICV-130617	Batch ID: R66967	TestNo: SW7470A	Units: mg/L
SampType: ICV	Run ID: CETAC_HG_130617B	Analysis Date: 6/17/2013 12:26:39 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00430	0.000200	0.00400	0	108	90	110			

Sample ID: CCV1-130617	Batch ID: R66967	TestNo: SW7470A	Units: mg/L
SampType: CCV	Run ID: CETAC_HG_130617B	Analysis Date: 6/17/2013 12:51:10 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00211	0.000200	0.00200	0	106	90	110			

Sample ID: CCV2-130617	Batch ID: R66967	TestNo: SW7470A	Units: mg/L
SampType: CCV	Run ID: CETAC_HG_130617B	Analysis Date: 6/17/2013 1:05:33 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00213	0.000200	0.00200	0	106	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1306108
Project: Rockwool TCEQ

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130410A

Sample ID: DCS-56857-1	Batch ID: 56857	TestNo: SW6020A	Units: mg/L
SampType: DCS	Run ID: ICP-MS2_130410A	Analysis Date: 4/10/2013 2:25:00 PM	Prep Date: 4/10/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.000965	0.00250	0.00100	0	96.5	60	140	0	0	
Arsenic	0.000973	0.00500	0.00100	0	97.3	60	140	0	0	
Barium	0.000956	0.0100	0.00100	0	95.6	60	140	0	0	
Beryllium	0.000926	0.00100	0.00100	0	92.6	60	140	0	0	
Cadmium	0.000991	0.00100	0.00100	0	99.1	60	140	0	0	
Chromium	0.000913	0.00500	0.00100	0	91.3	60	140	0	0	
Lead	0.000901	0.00100	0.00100	0	90.1	60	140	0	0	
Nickel	0.00104	0.0100	0.00100	0	104	60	140	0	0	
Selenium	0.000826	0.00500	0.00100	0	82.6	60	140	0	0	
Silver	0.000964	0.00200	0.00100	0	96.4	60	140	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1306108
Project: Rockwool TCEQ

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130614D

The QC data in batch 57936 applies to the following samples: 1306108-01A, 1306108-02A, 1306108-03A, 1306108-04A, 1306108-05A, 1306108-06A, 1306108-07A, 1306108-08A, 1306108-09A, 1306108-10A, 1306108-11A, 1306108-12A, 1306108-13A, 1306108-14A, 1306108-15A, 1306108-16A, 1306108-17A, 1306108-18A, 1306108-19A, 1306108-20A

Sample ID: **MB-57936** Batch ID: **57936** TestNo: **SW6020A** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS2_130614D** Analysis Date: **6/15/2013 12:13:00 AM** Prep Date: **6/14/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.000800	0.00250								
Arsenic	<0.00200	0.00500								
Lead	<0.000300	0.00100								
IS: Bismuth	0.200		0.200		111	70	200			
IS: Germanium	0.200		0.200		103	70	200			
IS: Indium	0.200		0.200		105	70	200			
IS: Scandium(1)	0.200		0.200		102	70	200			
IS: Scandium(2)	0.200		0.200		92.9	70	200			

Sample ID: **LCS-57936** Batch ID: **57936** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCS** Run ID: **ICP-MS2_130614D** Analysis Date: **6/15/2013 12:19:00 AM** Prep Date: **6/14/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.190	0.00250	0.200	0	94.9	80	120			
Arsenic	0.196	0.00500	0.200	0	97.9	80	120			
Lead	0.192	0.00100	0.200	0	96.2	80	120			
IS: Bismuth	0.200		0.200		108	70	200			
IS: Germanium	0.200		0.200		102	70	200			
IS: Indium	0.200		0.200		102	70	200			
IS: Scandium(1)	0.200		0.200		101	70	200			
IS: Scandium(2)	0.200		0.200		90.8	70	200			

Sample ID: **LCSD-57936** Batch ID: **57936** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCSD** Run ID: **ICP-MS2_130614D** Analysis Date: **6/15/2013 12:24:00 AM** Prep Date: **6/14/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.189	0.00250	0.200	0	94.7	80	120	0.211	15	
Arsenic	0.203	0.00500	0.200	0	102	80	120	3.66	15	
Lead	0.192	0.00100	0.200	0	96.2	80	120	0.052	15	
IS: Bismuth	0.200		0.200		111	70	200	0	0	
IS: Germanium	0.200		0.200		101	70	200	0	0	
IS: Indium	0.200		0.200		104	70	200	0	0	
IS: Scandium(1)	0.200		0.200		101	70	200	0	0	
IS: Scandium(2)	0.200		0.200		92.7	70	200	0	0	

Sample ID: **1306108-19A SD** Batch ID: **57936** TestNo: **SW6020A** Units: **mg/L**
SampType: **SD** Run ID: **ICP-MS2_130614D** Analysis Date: **6/15/2013 1:05:00 AM** Prep Date: **6/14/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1306108
Project: Rockwool TCEQ

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130614D

Sample ID: 1306108-19A SD	Batch ID: 57936	TestNo: SW6020A	Units: mg/L
SampType: SD	Run ID: ICP-MS2_130614D	Analysis Date: 6/15/2013 1:05:00 AM	Prep Date: 6/14/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.350	0.0125	0	0.361				3.07	10	
Arsenic	<0.0100	0.0250	0	0.00295				0	10	
Lead	<0.00150	0.00500	0	0				0	10	
IS: Bismuth	1.00		0.200		114	70	200	0	0	
IS: Germanium	1.00		0.200		104	70	200	0	0	
IS: Indium	1.00		0.200		105	70	200	0	0	
IS: Scandium(1)	1.00		0.200		100	70	200	0	0	
IS: Scandium(2)	1.00		0.200		87.7	70	200	0	0	

Sample ID: 1306108-19A PDS	Batch ID: 57936	TestNo: SW6020A	Units: mg/L
SampType: PDS	Run ID: ICP-MS2_130614D	Analysis Date: 6/15/2013 2:03:00 AM	Prep Date: 6/14/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.519	0.00250	0.200	0.361	78.9	80	120			S
Arsenic	0.196	0.00500	0.200	0.00295	96.4	80	120			
Lead	0.189	0.00100	0.200	0	94.6	80	120			
IS: Bismuth	0.200		0.200		104	70	200			
IS: Germanium	0.200		0.200		91.6	70	200			
IS: Indium	0.200		0.200		97.1	70	200			
IS: Scandium(1)	0.200		0.200		91.3	70	200			
IS: Scandium(2)	0.200		0.200		85.3	70	200			

Sample ID: 1306108-19A MS	Batch ID: 57936	TestNo: SW6020A	Units: mg/L
SampType: MS	Run ID: ICP-MS2_130614D	Analysis Date: 6/15/2013 2:09:00 AM	Prep Date: 6/14/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.537	0.00250	0.200	0.361	87.9	80	120			
Arsenic	0.195	0.00500	0.200	0.00295	96.1	80	120			
Lead	0.186	0.00100	0.200	0	93.2	80	120			
IS: Bismuth	0.200		0.200		101	70	200			
IS: Germanium	0.200		0.200		93.5	70	200			
IS: Indium	0.200		0.200		94.4	70	200			
IS: Scandium(1)	0.200		0.200		92.8	70	200			
IS: Scandium(2)	0.200		0.200		82.2	70	200			

Sample ID: 1306108-19A MSD	Batch ID: 57936	TestNo: SW6020A	Units: mg/L
SampType: MSD	Run ID: ICP-MS2_130614D	Analysis Date: 6/15/2013 2:15:00 AM	Prep Date: 6/14/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.567	0.00250	0.200	0.361	103	80	120	5.51	15	
Arsenic	0.202	0.00500	0.200	0.00295	99.5	80	120	3.48	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1306108
Project: Rockwool TCEQ

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130614D

Sample ID: 1306108-19A MSD	Batch ID: 57936	TestNo: SW6020A	Units: mg/L
SampType: MSD	Run ID: ICP-MS2_130614D	Analysis Date: 6/15/2013 2:15:00 AM	Prep Date: 6/14/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.193	0.00100	0.200	0	96.6	80	120	3.53	15	
IS: Bismuth	0.200		0.200		104	70	200	0	0	
IS: Germanium	0.200		0.200		92.3	70	200	0	0	
IS: Indium	0.200		0.200		95.6	70	200	0	0	
IS: Scandium(1)	0.200		0.200		91.2	70	200	0	0	
IS: Scandium(2)	0.200		0.200		82.8	70	200	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1306108
Project: Rockwool TCEQ

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130614D

The QC data in batch 57939 applies to the following samples: 1306108-21A, 1306108-22A, 1306108-23A, 1306108-24A, 1306108-25A, 1306108-26A

Sample ID: **MB-57939** Batch ID: **57939** TestNo: **SW6020A** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS2_130614D** Analysis Date: **6/14/2013 8:09:00 PM** Prep Date: **6/14/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	<0.000800	0.00250								
Arsenic	<0.00200	0.00500								
Barium	<0.00300	0.0100								
Beryllium	<0.000300	0.00100								
Cadmium	<0.000300	0.00100								
Chromium	<0.00200	0.00500								
Lead	<0.000300	0.00100								
Nickel	<0.00300	0.0100								
Selenium	<0.00200	0.00500								
Silver	<0.00100	0.00200								
IS: Bismuth	0.200		0.200		106	70	200			
IS: Germanium	0.200		0.200		95.7	70	200			
IS: Indium	0.200		0.200		99.2	70	200			
IS: Scandium(1)	0.200		0.200		94.5	70	200			
IS: Scandium(2)	0.200		0.200		85.9	70	200			

Sample ID: **LCS-57939** Batch ID: **57939** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCS** Run ID: **ICP-MS2_130614D** Analysis Date: **6/14/2013 8:20:00 PM** Prep Date: **6/14/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.180	0.00250	0.200	0	90.2	80	120			
Arsenic	0.188	0.00500	0.200	0	94.0	80	120			
Barium	0.180	0.0100	0.200	0	90.0	80	120			
Beryllium	0.169	0.00100	0.200	0	84.6	80	120			
Cadmium	0.183	0.00100	0.200	0	91.4	80	120			
Chromium	0.195	0.00500	0.200	0	97.4	80	120			
Lead	0.180	0.00100	0.200	0	90.2	80	120			
Nickel	0.196	0.0100	0.200	0	98.2	80	120			
Selenium	0.188	0.00500	0.200	0	93.8	80	120			
Silver	0.179	0.00200	0.200	0	89.7	80	120			
IS: Bismuth	0.200		0.200		112	70	200			
IS: Germanium	0.200		0.200		104	70	200			
IS: Indium	0.200		0.200		104	70	200			
IS: Scandium(1)	0.200		0.200		104	70	200			
IS: Scandium(2)	0.200		0.200		93.4	70	200			

Sample ID: **LCSD-57939** Batch ID: **57939** TestNo: **SW6020A** Units: **mg/L**
SampType: **LCSD** Run ID: **ICP-MS2_130614D** Analysis Date: **6/14/2013 8:26:00 PM** Prep Date: **6/14/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1306108
Project: Rockwool TCEQ

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130614D

Sample ID: LCSD-57939	Batch ID: 57939	TestNo: SW6020A	Units: mg/L
SampType: LCSD	Run ID: ICP-MS2_130614D	Analysis Date: 6/14/2013 8:26:00 PM	Prep Date: 6/14/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.176	0.00250	0.200	0	88.2	80	120	2.24	15	
Arsenic	0.189	0.00500	0.200	0	94.4	80	120	0.478	15	
Barium	0.177	0.0100	0.200	0	88.6	80	120	1.68	15	
Beryllium	0.165	0.00100	0.200	0	82.7	80	120	2.21	15	
Cadmium	0.179	0.00100	0.200	0	89.6	80	120	1.93	15	
Chromium	0.198	0.00500	0.200	0	99.0	80	120	1.63	15	
Lead	0.182	0.00100	0.200	0	91.0	80	120	0.883	15	
Nickel	0.198	0.0100	0.200	0	98.9	80	120	0.761	15	
Selenium	0.189	0.00500	0.200	0	94.3	80	120	0.585	15	
Silver	0.177	0.00200	0.200	0	88.4	80	120	1.46	15	
IS: Bismuth	0.200		0.200		114	70	200	0	0	
IS: Germanium	0.200		0.200		103	70	200	0	0	
IS: Indium	0.200		0.200		108	70	200	0	0	
IS: Scandium(1)	0.200		0.200		102	70	200	0	0	
IS: Scandium(2)	0.200		0.200		95.4	70	200	0	0	

Sample ID: 1306108-26A SD	Batch ID: 57939	TestNo: SW6020A	Units: mg/L
SampType: SD	Run ID: ICP-MS2_130614D	Analysis Date: 6/14/2013 8:49:00 PM	Prep Date: 6/14/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Antimony	0.0705	0.0125	0	0.0704				0.099	10		NA
Arsenic	0.0106	0.0250	0	0.00897				16.7	10	R	NA
Barium	0.0490	0.0500	0	0.0485				1.11	10		
Beryllium	0.00184	0.00500	0	0.000703				89.3	10	R	NA
Cadmium	0.00209	0.00500	0	0.000933				76.5	10	R	NA
Chromium	<0.0100	0.0250	0	0.00233				0	10		NA
Lead	0.00387	0.00500	0	0.00260				39.5	10	R	NA
Nickel	<0.0150	0.0500	0	0.00555				0	10		NA
Selenium	0.0196	0.0250	0	0.0163				18.8	10	R	NA
Silver	<0.00500	0.0100	0	0				0	10		
IS: Bismuth	1.00		0.200		107	70	200	0	0		
IS: Germanium	1.00		0.200		101	70	200	0	0		
IS: Indium	1.00		0.200		100	70	200	0	0		
IS: Scandium(1)	1.00		0.200		101	70	200	0	0		
IS: Scandium(2)	1.00		0.200		90.0	70	200	0	0		

Sample ID: 1306108-26A PDS	Batch ID: 57939	TestNo: SW6020A	Units: mg/L
SampType: PDS	Run ID: ICP-MS2_130614D	Analysis Date: 6/14/2013 9:48:00 PM	Prep Date: 6/14/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.248	0.00250	0.200	0.0704	89.0	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

NA orig conc < 50 x IDL

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1306108
Project: Rockwool TCEQ

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130614D

Sample ID: 1306108-26A PDS	Batch ID: 57939	TestNo: SW6020A	Units: mg/L
SampType: PDS	Run ID: ICP-MS2_130614D	Analysis Date: 6/14/2013 9:48:00 PM	Prep Date: 6/14/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.205	0.00500	0.200	0.00897	98.2	80	120			
Barium	0.235	0.0100	0.200	0.0485	93.2	80	120			
Beryllium	0.171	0.00100	0.200	0.000703	85.0	80	120			
Cadmium	0.186	0.00100	0.200	0.000933	92.7	80	120			
Chromium	0.209	0.00500	0.200	0.00233	103	80	120			
Lead	0.191	0.00100	0.200	0.00260	94.3	80	120			
Nickel	0.211	0.0100	0.200	0.00555	103	80	120			
Selenium	0.210	0.00500	0.200	0.0163	96.9	80	120			
Silver	0.169	0.00200	0.200	0	84.7	80	120			
IS: Bismuth	0.200		0.200		97.2	70	200			
IS: Germanium	0.200		0.200		92.0	70	200			
IS: Indium	0.200		0.200		91.7	70	200			
IS: Scandium(1)	0.200		0.200		90.0	70	200			
IS: Scandium(2)	0.200		0.200		83.7	70	200			

Sample ID: 1306108-26A MS	Batch ID: 57939	TestNo: SW6020A	Units: mg/L
SampType: MS	Run ID: ICP-MS2_130614D	Analysis Date: 6/14/2013 9:54:00 PM	Prep Date: 6/14/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.262	0.00250	0.200	0.0704	96.0	80	120			
Arsenic	0.207	0.00500	0.200	0.00897	98.9	80	120			
Barium	0.234	0.0100	0.200	0.0485	92.5	80	120			
Beryllium	0.172	0.00100	0.200	0.000703	85.5	80	120			
Cadmium	0.185	0.00100	0.200	0.000933	92.1	80	120			
Chromium	0.205	0.00500	0.200	0.00233	101	80	120			
Lead	0.194	0.00100	0.200	0.00260	95.8	80	120			
Nickel	0.207	0.0100	0.200	0.00555	101	80	120			
Selenium	0.212	0.00500	0.200	0.0163	97.8	80	120			
Silver	0.181	0.00200	0.200	0	90.5	80	120			
IS: Bismuth	0.200		0.200		101	70	200			
IS: Germanium	0.200		0.200		93.4	70	200			
IS: Indium	0.200		0.200		96.7	70	200			
IS: Scandium(1)	0.200		0.200		92.5	70	200			
IS: Scandium(2)	0.200		0.200		87.0	70	200			

Sample ID: 1306108-26A MSD	Batch ID: 57939	TestNo: SW6020A	Units: mg/L
SampType: MSD	Run ID: ICP-MS2_130614D	Analysis Date: 6/14/2013 9:59:00 PM	Prep Date: 6/14/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.274	0.00250	0.200	0.0704	102	80	120	4.36	15	
Arsenic	0.209	0.00500	0.200	0.00897	100	80	120	1.11	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1306108
Project: Rockwool TCEQ

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130614D

Sample ID: **1306108-26A MSD**	Batch ID: **57939**	TestNo: **SW6020A**	Units: **mg/L**
SampType: **MSD**	Run ID: **ICP-MS2_130614D**	Analysis Date: **6/14/2013 9:59:00 PM**	Prep Date: **6/14/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.244	0.0100	0.200	0.0485	97.6	80	120	4.27	15	
Beryllium	0.176	0.00100	0.200	0.000703	87.5	80	120	2.30	15	
Cadmium	0.192	0.00100	0.200	0.000933	95.4	80	120	3.50	15	
Chromium	0.210	0.00500	0.200	0.00233	104	80	120	2.60	15	
Lead	0.202	0.00100	0.200	0.00260	99.8	80	120	3.99	15	
Nickel	0.208	0.0100	0.200	0.00555	101	80	120	0.482	15	
Selenium	0.215	0.00500	0.200	0.0163	99.4	80	120	1.50	15	
Silver	0.188	0.00200	0.200	0	94.0	80	120	3.74	15	
IS: Bismuth	0.200		0.200		101	70	200	0	0	
IS: Germanium	0.200		0.200		95.5	70	200	0	0	
IS: Indium	0.200		0.200		95.5	70	200	0	0	
IS: Scandium(1)	0.200		0.200		94.4	70	200	0	0	
IS: Scandium(2)	0.200		0.200		86.4	70	200	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1306108
Project: Rockwool TCEQ

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130614D

Sample ID: ICV1-130614	Batch ID: R66954	TestNo: SW6020A	Units: mg/L
SampType: ICV	Run ID: ICP-MS2_130614D	Analysis Date: 6/14/2013 1:00:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.0983	0.00250	0.100	0	98.3	90	110			
Arsenic	0.102	0.00500	0.100	0	102	90	110			
Barium	0.0979	0.0100	0.100	0	97.9	90	110			
Beryllium	0.0931	0.00100	0.100	0	93.1	90	110			
Cadmium	0.0980	0.00100	0.100	0	98.0	90	110			
Chromium	0.103	0.00500	0.100	0	103	90	110			
Lead	0.0979	0.00100	0.100	0	97.9	90	110			
Nickel	0.109	0.0100	0.100	0	109	90	110			
Selenium	0.106	0.00500	0.100	0	106	90	110			
Silver	0.0979	0.00200	0.100	0	97.9	90	110			
IS: Bismuth	0.200		0.200		98.8	70	200			
IS: Germanium	0.200		0.200		102	70	200			
IS: Indium	0.200		0.200		96.7	70	200			
IS: Scandium(1)	0.200		0.200		104	70	200			
IS: Scandium(2)	0.200		0.200		92.6	70	200			

Sample ID: ILCVL-130614	Batch ID: R66954	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS2_130614D	Analysis Date: 6/14/2013 1:17:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00183	0.00250	0.00200	0	91.4	70	130			
Arsenic	0.00491	0.00500	0.00500	0	98.2	70	130			
Barium	0.00461	0.0100	0.00500	0	92.1	70	130			
Beryllium	0.000891	0.00100	0.00100	0	89.1	70	130			
Cadmium	0.000954	0.00100	0.00100	0	95.4	70	130			
Chromium	0.00502	0.00500	0.00500	0	100	70	130			
Lead	0.000955	0.00100	0.00100	0	95.5	70	130			
Nickel	0.00516	0.0100	0.00500	0	103	70	130			
Selenium	0.00539	0.00500	0.00500	0	108	70	130			
Silver	0.00196	0.00200	0.00200	0	97.9	70	130			
IS: Bismuth	0.200		0.200		99.0	70	200			
IS: Germanium	0.200		0.200		104	70	200			
IS: Indium	0.200		0.200		97.7	70	200			
IS: Scandium(1)	0.200		0.200		105	70	200			
IS: Scandium(2)	0.200		0.200		94.0	70	200			

Sample ID: CCV3-130614	Batch ID: R66954	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS2_130614D	Analysis Date: 6/14/2013 7:22:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.204	0.00250	0.200	0	102	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1306108
Project: Rockwool TCEQ

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130614D

Sample ID: CCV3-130614	Batch ID: R66954	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS2_130614D	Analysis Date: 6/14/2013 7:22:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.212	0.00500	0.200	0	106	90	110			
Barium	0.202	0.0100	0.200	0	101	90	110			
Beryllium	0.185	0.00100	0.200	0	92.6	90	110			
Cadmium	0.203	0.00100	0.200	0	102	90	110			
Chromium	0.217	0.00500	0.200	0	109	90	110			
Lead	0.206	0.00100	0.200	0	103	90	110			
Nickel	0.220	0.0100	0.200	0	110	90	110			
Selenium	0.210	0.00500	0.200	0	105	90	110			
Silver	0.208	0.00200	0.200	0	104	90	110			
IS: Bismuth	0.200		0.200		117	70	200			
IS: Germanium	0.200		0.200		105	70	200			
IS: Indium	0.200		0.200		109	70	200			
IS: Scandium(1)	0.200		0.200		105	70	200			
IS: Scandium(2)	0.200		0.200		94.0	70	200			

Sample ID: LCVL3-130614	Batch ID: R66954	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS2_130614D	Analysis Date: 6/14/2013 7:51:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00203	0.00250	0.00200	0	102	70	130			
Arsenic	0.00472	0.00500	0.00500	0	94.3	70	130			
Barium	0.00475	0.0100	0.00500	0	94.9	70	130			
Beryllium	0.000818	0.00100	0.00100	0	81.8	70	130			
Cadmium	0.000983	0.00100	0.00100	0	98.3	70	130			
Chromium	0.00505	0.00500	0.00500	0	101	70	130			
Lead	0.000987	0.00100	0.00100	0	98.7	70	130			
Nickel	0.00486	0.0100	0.00500	0	97.2	70	130			
Selenium	0.00500	0.00500	0.00500	0	100	70	130			
Silver	0.00194	0.00200	0.00200	0	97.0	70	130			
IS: Bismuth	0.200		0.200		104	70	200			
IS: Germanium	0.200		0.200		90.8	70	200			
IS: Indium	0.200		0.200		97.3	70	200			
IS: Scandium(1)	0.200		0.200		89.9	70	200			
IS: Scandium(2)	0.200		0.200		86.1	70	200			

Sample ID: CCV4-130614	Batch ID: R66954	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS2_130614D	Analysis Date: 6/14/2013 10:05:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.210	0.00250	0.200	0	105	90	110			
Arsenic	0.208	0.00500	0.200	0	104	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank
J	Analyte detected between MDL and RL
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
J	Analyte detected between SDL and RL
DF	Dilution Factor
MDL	Method Detection Limit
R	RPD outside accepted control limits
S	Spike Recovery outside control limits
N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1306108
Project: Rockwool TCEQ

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130614D

Sample ID: CCV4-130614	Batch ID: R66954	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS2_130614D	Analysis Date: 6/14/2013 10:05:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.204	0.0100	0.200	0	102	90	110			
Beryllium	0.188	0.00100	0.200	0	94.0	90	110			
Cadmium	0.204	0.00100	0.200	0	102	90	110			
Chromium	0.216	0.00500	0.200	0	108	90	110			
Lead	0.206	0.00100	0.200	0	103	90	110			
Nickel	0.215	0.0100	0.200	0	107	90	110			
Selenium	0.209	0.00500	0.200	0	104	90	110			
Silver	0.209	0.00200	0.200	0	104	90	110			
IS: Bismuth	0.200		0.200		105	70	200			
IS: Germanium	0.200		0.200		97.5	70	200			
IS: Indium	0.200		0.200		96.8	70	200			
IS: Scandium(1)	0.200		0.200		97.1	70	200			
IS: Scandium(2)	0.200		0.200		86.2	70	200			

Sample ID: LCVL4-130614	Batch ID: R66954	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS2_130614D	Analysis Date: 6/14/2013 10:46:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00207	0.00250	0.00200	0	104	70	130			
Arsenic	0.00465	0.00500	0.00500	0	93.0	70	130			
Barium	0.00482	0.0100	0.00500	0	96.5	70	130			
Beryllium	0.000779	0.00100	0.00100	0	77.9	70	130			
Cadmium	0.000997	0.00100	0.00100	0	99.7	70	130			
Chromium	0.00502	0.00500	0.00500	0	100	70	130			
Lead	0.000993	0.00100	0.00100	0	99.2	70	130			
Nickel	0.00494	0.0100	0.00500	0	98.9	70	130			
Selenium	0.00502	0.00500	0.00500	0	100	70	130			
Silver	0.00194	0.00200	0.00200	0	97.0	70	130			
IS: Bismuth	0.200		0.200		112	70	200			
IS: Germanium	0.200		0.200		103	70	200			
IS: Indium	0.200		0.200		106	70	200			
IS: Scandium(1)	0.200		0.200		103	70	200			
IS: Scandium(2)	0.200		0.200		93.2	70	200			

Sample ID: CCV5130614	Batch ID: R66954	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS2_130614D	Analysis Date: 6/14/2013 11:15:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.209	0.00250	0.200	0	104	90	110			
Arsenic	0.212	0.00500	0.200	0	106	90	110			
Lead	0.206	0.00100	0.200	0	103	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1306108
Project: Rockwool TCEQ

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130614D

Sample ID: CCV5130614	Batch ID: R66954	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS2_130614D	Analysis Date: 6/14/2013 11:15:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
IS: Bismuth	0.200		0.200		113	70	200			
IS: Germanium	0.200		0.200		101	70	200			
IS: Indium	0.200		0.200		105	70	200			
IS: Scandium(1)	0.200		0.200		100	70	200			
IS: Scandium(2)	0.200		0.200		92.5	70	200			

Sample ID: LCVL5-130614	Batch ID: R66954	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS2_130614D	Analysis Date: 6/14/2013 11:55:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00204	0.00250	0.00200	0	102	70	130			
Arsenic	0.00469	0.00500	0.00500	0	93.9	70	130			
Lead	0.000957	0.00100	0.00100	0	95.7	70	130			
IS: Bismuth	0.200		0.200		112	70	200			
IS: Germanium	0.200		0.200		102	70	200			
IS: Indium	0.200		0.200		104	70	200			
IS: Scandium(1)	0.200		0.200		103	70	200			
IS: Scandium(2)	0.200		0.200		92.4	70	200			

Sample ID: CCV6-130614	Batch ID: R66954	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS2_130614D	Analysis Date: 6/15/2013 2:20:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.205	0.00250	0.200	0	102	90	110			
Arsenic	0.212	0.00500	0.200	0	106	90	110			
Lead	0.202	0.00100	0.200	0	101	90	110			
IS: Bismuth	0.200		0.200		107	70	200			
IS: Germanium	0.200		0.200		92.5	70	200			
IS: Indium	0.200		0.200		97.6	70	200			
IS: Scandium(1)	0.200		0.200		91.9	70	200			
IS: Scandium(2)	0.200		0.200		83.3	70	200			

Sample ID: LCVL6-130614	Batch ID: R66954	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS2_130614D	Analysis Date: 6/15/2013 3:01:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00203	0.00250	0.00200	0	102	70	130			
Arsenic	0.00480	0.00500	0.00500	0	96.0	70	130			
Lead	0.000952	0.00100	0.00100	0	95.2	70	130			
IS: Bismuth	0.200		0.200		106	70	200			
IS: Germanium	0.200		0.200		89.9	70	200			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1306108
Project: Rockwool TCEQ

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130614D

Sample ID: LCVL6-130614	Batch ID: R66954	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS2_130614D	Analysis Date: 6/15/2013 3:01:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
IS: Indium	0.200		0.200		98.3	70	200			
IS: Scandium(1)	0.200		0.200		89.0	70	200			
IS: Scandium(2)	0.200		0.200		83.3	70	200			

Sample ID: CCV7-130614	Batch ID: R66954	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS2_130614D	Analysis Date: 6/15/2013 4:28:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.199	0.00250	0.200	0	99.4	90	110			
Arsenic	0.209	0.00500	0.200	0	104	90	110			
Lead	0.200	0.00100	0.200	0	100	90	110			
IS: Bismuth	0.200		0.200		113	70	200			
IS: Germanium	0.200		0.200		97.7	70	200			
IS: Indium	0.200		0.200		105	70	200			
IS: Scandium(1)	0.200		0.200		97.7	70	200			
IS: Scandium(2)	0.200		0.200		89.6	70	200			

Sample ID: LCVL7-130614	Batch ID: R66954	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS2_130614D	Analysis Date: 6/15/2013 4:57:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00204	0.00250	0.00200	0	102	70	130			
Arsenic	0.00474	0.00500	0.00500	0	94.9	70	130			
Lead	0.000944	0.00100	0.00100	0	94.4	70	130			
IS: Bismuth	0.200		0.200		91.5	70	200			
IS: Germanium	0.200		0.200		81.4	70	200			
IS: Indium	0.200		0.200		84.8	70	200			
IS: Scandium(1)	0.200		0.200		80.7	70	200			
IS: Scandium(2)	0.200		0.200		74.4	70	200			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1306108
Project: Rockwool TCEQ

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130411A

Sample ID: DCS-56857-1	Batch ID: 56857	TestNo: SW6020A	Units: mg/L
SampType: DCS	Run ID: ICP-MS3_130411A	Analysis Date: 4/11/2013 1:50:00 PM	Prep Date: 4/10/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.000828	0.00250	0.00100	0	82.8	60	140	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1306108
Project: Rockwool TCEQ

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130617A

Sample ID: ICV1-130617	Batch ID: R66977	TestNo: SW6020A	Units: mg/L
SampType: ICV	Run ID: ICP-MS3_130617A	Analysis Date: 6/17/2013 11:51:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.0961	0.00250	0.100	0	96.1	90	110			
IS: Bismuth	0.200		0.200		103	70	200			
IS: Germanium	0.200		0.200		103	70	200			
IS: Indium	0.200		0.200		102	70	200			
IS: Scandium(1)	0.200		0.200		102	70	200			
IS: Scandium(2)	0.200		0.200		96.7	70	200			

Sample ID: ILCVL-130617	Batch ID: R66977	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130617A	Analysis Date: 6/17/2013 12:09:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00187	0.00250	0.00200	0	93.6	70	130			
IS: Bismuth	0.200		0.200		105	70	200			
IS: Germanium	0.200		0.200		104	70	200			
IS: Indium	0.200		0.200		103	70	200			
IS: Scandium(1)	0.200		0.200		102	70	200			
IS: Scandium(2)	0.200		0.200		95.6	70	200			

Sample ID: CCV1-130617	Batch ID: R66977	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS3_130617A	Analysis Date: 6/17/2013 12:33:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.196	0.00250	0.200	0	97.9	90	110			
IS: Bismuth	0.200		0.200		100	70	200			
IS: Germanium	0.200		0.200		96.5	70	200			
IS: Indium	0.200		0.200		96.5	70	200			
IS: Scandium(1)	0.200		0.200		94.4	70	200			
IS: Scandium(2)	0.200		0.200		89.6	70	200			

Sample ID: LCVL1-130617	Batch ID: R66977	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130617A	Analysis Date: 6/17/2013 1:02:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.00200	0.00250	0.00200	0	100	70	130			
IS: Bismuth	0.200		0.200		101	70	200			
IS: Germanium	0.200		0.200		99.0	70	200			
IS: Indium	0.200		0.200		97.9	70	200			
IS: Scandium(1)	0.200		0.200		95.4	70	200			
IS: Scandium(2)	0.200		0.200		88.9	70	200			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

DHL Analytical, Inc.

Date: *20-Jun-13*

CLIENT: D. B. Stephens & Assoc, Inc.
Work Order: 1306108
Project: Rockwool TCEQ

MQL SUMMARY REPORT

TestNo: SW6020A	MDL	MQL
Analyte	**mg/L**	**mg/L**
Antimony	0.000800	0.00250
Arsenic	0.00200	0.00500
Barium	0.00300	0.0100
Beryllium	0.000300	0.00100
Cadmium	0.000300	0.00100
Chromium	0.00200	0.00500
Lead	0.000300	0.00100
Nickel	0.00300	0.0100
Selenium	0.00200	0.00500
Silver	0.00100	0.00200

TestNo: SW7470A	MDL	MQL
Analyte	**mg/L**	**mg/L**
Mercury	0.0000800	0.000200

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

APPENDIX B

LABORATORY NELAP CERTIFICATE

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

Certificate:	T104704211-13-10
Expiration Date:	4/30/2014
Issue Date:	5/1/2013

DHL Analytical, Inc.

2300 Double Creek Drive
Round Rock, TX 78664-3801

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Matrix: ***Drinking Water***

Method EPA 200.8

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10014605
Antimony	TX	1005	10014605
Arsenic	TX	1010	10014605
Barium	TX	1015	10014605
Beryllium	TX	1020	10014605
Cadmium	TX	1030	10014605
Chromium	TX	1040	10014605
Copper	TX	1055	10014605
Lead	TX	1075	10014605
Manganese	TX	1090	10014605
Nickel	TX	1105	10014605
Selenium	TX	1140	10014605
Silver	TX	1150	10014605
Thallium	TX	1165	10014605
Uranium	TX	3035	10014605
Zinc	TX	1190	10014605

Method EPA 245.1

Analyte	AB	Analyte ID	Method ID
Mercury	TX	1095	10036609

Method EPA 300.0

Analyte	AB	Analyte ID	Method ID
Fluoride	TX	1730	10053006
Nitrate as N	TX	1810	10053006
Nitrite as N	TX	1840	10053006

Method EPA 335.2

Analyte	AB	Analyte ID	Method ID
Total Cyanide	TX	1635	10060409

Method EPA 524.2

Analyte	AB	Analyte ID	Method ID

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Matrix: ***Drinking Water***

1,1,1-Trichloroethane	TX	5160	10089006
1,1,2-Trichloroethane	TX	5165	10089006
1,1-Dichloroethylene	TX	4640	10089006
1,2,4-Trichlorobenzene	TX	5155	10089006
1,2-Dichlorobenzene	TX	4610	10089006
1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10089006
1,2-Dichloropropane	TX	4655	10089006
1,4-Dichlorobenzene	TX	4620	10089006
Benzene	TX	4375	10089006
Carbon tetrachloride	TX	4455	10089006
Chlorobenzene	TX	4475	10089006
cis-1,2-Dichloroethylene	TX	4645	10089006
Ethylbenzene	TX	4765	10089006
m+p-xylene	TX	5240	10089006
Methylene chloride (Dichloromethane)	TX	4975	10089006
o-Xylene	TX	5250	10089006
Styrene	TX	5100	10089006
Tetrachloroethylene (Perchloroethylene)	TX	5115	10089006
Toluene	TX	5140	10089006
Total trihalomethanes	TX	5205	10089006
trans-1,2-Dichloroethylene	TX	4700	10089006
Trichloroethene (Trichloroethylene)	TX	5170	10089006
Vinyl chloride	TX	5235	10089006
Xylene (total)	TX	5260	10089006

Method EPA 525.2

Analyte	**AB**	**Analyte ID**	**Method ID**
Alachlor	TX	7005	10090003
Atrazine	TX	7065	10090003
Benzo(a)pyrene	TX	5580	10090003
bis(2-Ethylhexyl) adipate (Di(2-Ethylhexyl) adipate, DEHA)	TX	6062	10090003

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Matrix: ***Drinking Water***

bis(2-Ethylhexyl) phthalate (Di(2-Ethylhexyl) phthalate, DEHP)	TX	6065	10090003
Chlordane (tech.)	TX	7250	10090003
Endrin	TX	7540	10090003
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10090003
Heptachlor	TX	7685	10090003
Heptachlor epoxide	TX	7690	10090003
Hexachlorobenzene	TX	6275	10090003
Hexachlorocyclopentadiene	TX	6285	10090003
Methoxychlor	TX	7810	10090003
PCB Aroclor Identification	TX	8872	10090003
Pentachlorophenol	TX	6605	10090003
Simazine	TX	8125	10090003
Toxaphene (Chlorinated camphene)	TX	8250	10090003

Method SM 4500-CN^- E

Analyte	**AB**	**Analyte ID**	**Method ID**
Total Cyanide	TX	1635	20021209

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Matrix: ***Non-Potable Water***

Method	Analyte	AB	Analyte ID	Method ID
EPA 1010				
	Ignitability	TX	1780	10116606
EPA 120.1				
	Conductivity	TX	1610	10006403
EPA 1311				
	TCLP	TX	849	10118806
EPA 1312				
	SPLP	TX	850	10119003
EPA 150.1				
	pH	TX	1900	10008409
EPA 160.1				
	Residue-filterable (TDS)	TX	1955	10009208
EPA 160.2				
	Residue-nonfilterable (TSS)	TX	1960	10009606
EPA 1664				
	n-Hexane Extractable Material (HEM) (O&G)	TX	1803	10127807
EPA 180.1				
	Turbidity	TX	2055	10011606
EPA 200.8				
	Aluminum	TX	1000	10014605
	Antimony	TX	1005	10014605
	Arsenic	TX	1010	10014605

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Matrix: ***Non-Potable Water***

Barium	TX	1015	10014605
Beryllium	TX	1020	10014605
Boron	TX	1025	10014605
Cadmium	TX	1030	10014605
Calcium	TX	1035	10014605
Chromium	TX	1040	10014605
Cobalt	TX	1050	10014605
Copper	TX	1055	10014605
Iron	TX	1070	10014605
Lead	TX	1075	10014605
Magnesium	TX	1085	10014605
Manganese	TX	1090	10014605
Molybdenum	TX	1100	10014605
Nickel	TX	1105	10014605
Potassium	TX	1125	10014605
Selenium	TX	1140	10014605
Silver	TX	1150	10014605
Sodium	TX	1155	10014605
Strontium	TX	1160	10014605
Thallium	TX	1165	10014605
Tin	TX	1175	10014605
Titanium	TX	1180	10014605
Vanadium	TX	1185	10014605
Zinc	TX	1190	10014605

Method EPA 245.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	TX	1095	10036609

Method EPA 300.0

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromide	TX	1540	10053006
Chloride	TX	1575	10053006

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Matrix: *Non-Potable Water*

Fluoride	TX	1730	10053006
Nitrate as N	TX	1810	10053006
Nitrate-nitrite	TX	1820	10053006
Nitrite as N	TX	1840	10053006
Sulfate	TX	2000	10053006

Method EPA 305.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Acidity, as CaCO3	TX	1500	10054203

Method EPA 310.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Alkalinity as CaCO3	TX	1505	10054805

Method EPA 335.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Amenable cyanide	TX	1510	10060001

Method EPA 335.2

Analyte	**AB**	**Analyte ID**	**Method ID**
Total cyanide	TX	1645	10060205

Method EPA 365.2

Analyte	**AB**	**Analyte ID**	**Method ID**
Orthophosphate as P	TX	1870	10070403
Phosphorus	TX	1910	10070403

Method EPA 370.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Silica as SiO2	TX	1990	10072001

Method EPA 376.2

Analyte	**AB**	**Analyte ID**	**Method ID**
Sulfide	TX	2005	10074609

Method EPA 415.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Total Organic Carbon (TOC)	TX	2040	10078407

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Matrix: ***Non-Potable Water***

Method EPA 602

Analyte	AB	Analyte ID	Method ID
Benzene	TX	4375	10102202
Ethylbenzene	TX	4765	10102202
m+p-xylene	TX	5240	10102202
Methyl tert-butyl ether (MTBE)	TX	5000	10102202
o-Xylene	TX	5250	10102202
Toluene	TX	5140	10102202
Xylene (total)	TX	5260	10102202

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10156204
Antimony	TX	1005	10156204
Arsenic	TX	1010	10156204
Barium	TX	1015	10156204
Beryllium	TX	1020	10156204
Boron	TX	1025	10156204
Cadmium	TX	1030	10156204
Calcium	TX	1035	10156204
Chromium	TX	1040	10156204
Cobalt	TX	1050	10156204
Copper	TX	1055	10156204
Iron	TX	1070	10156204
Lead	TX	1075	10156204
Lithium	TX	1080	10156204
Magnesium	TX	1085	10156204
Manganese	TX	1090	10156204
Molybdenum	TX	1100	10156204
Nickel	TX	1105	10156204
Potassium	TX	1125	10156204
Selenium	TX	1140	10156204

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

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Matrix: *Non-Potable Water*

Silver	TX	1150	10156204
Sodium	TX	1155	10156204
Strontium	TX	1160	10156204
Thallium	TX	1165	10156204
Tin	TX	1175	10156204
Titanium	TX	1180	10156204
Vanadium	TX	1185	10156204
Zinc	TX	1190	10156204

Method EPA 608

Analyte	AB	Analyte ID	Method ID
Aroclor-1016 (PCB-1016)	TX	8880	10103603
Aroclor-1221 (PCB-1221)	TX	8885	10103603
Aroclor-1232 (PCB-1232)	TX	8890	10103603
Aroclor-1242 (PCB-1242)	TX	8895	10103603
Aroclor-1248 (PCB-1248)	TX	8900	10103603
Aroclor-1254 (PCB-1254)	TX	8905	10103603
Aroclor-1260 (PCB-1260)	TX	8910	10103603

Method EPA 624

Analyte	AB	Analyte ID	Method ID
1,1,1-Trichloroethane	TX	5160	10107207
1,1,2,2-Tetrachloroethane	TX	5110	10107207
1,1,2-Trichloroethane	TX	5165	10107207
1,1-Dichloroethane	TX	4630	10107207
1,1-Dichloroethylene	TX	4640	10107207
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10107207
1,2-Dichlorobenzene	TX	4610	10107207
1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10107207
1,2-Dichloropropane	TX	4655	10107207
1,3-Dichlorobenzene	TX	4615	10107207
1,4-Dichlorobenzene	TX	4620	10107207
2-Butanone (Methyl ethyl ketone, MEK)	TX	4410	10107207

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Issue Date: 5/1/2013

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Matrix: *Non-Potable Water*

2-Chloroethyl vinyl ether	TX	4500	10107207
Acetone (2-Propanone)	TX	4315	10107207
Acrolein (Propenal)	TX	4325	10107207
Acrylonitrile	TX	4340	10107207
Benzene	TX	4375	10107207
Bromodichloromethane	TX	4395	10107207
Bromoform	TX	4400	10107207
Carbon tetrachloride	TX	4455	10107207
Chlorobenzene	TX	4475	10107207
Chlorodibromomethane	TX	4575	10107207
Chloroethane (Ethyl chloride)	TX	4485	10107207
Chloroform	TX	4505	10107207
cis-1,2-Dichloroethylene	TX	4645	10107207
cis-1,3-Dichloropropene	TX	4680	10107207
Ethylbenzene	TX	4765	10107207
m+p-xylene	TX	5240	10107207
Methyl bromide (Bromomethane)	TX	4950	10107207
Methyl chloride (Chloromethane)	TX	4960	10107207
Methyl tert-butyl ether (MTBE)	TX	5000	10107207
Methylene chloride (Dichloromethane)	TX	4975	10107207
Naphthalene	TX	5005	10107207
o-Xylene	TX	5250	10107207
Tetrachloroethylene (Perchloroethylene)	TX	5115	10107207
Toluene	TX	5140	10107207
Total trihalomethanes	TX	5205	10107207
trans-1,2-Dichloroethylene	TX	4700	10107207
trans-1,3-Dichloropropylene	TX	4685	10107207
Trichloroethene (Trichloroethylene)	TX	5170	10107207
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10107207
Vinyl chloride	TX	5235	10107207

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Matrix: *Non-Potable Water*

Xylene (total)	TX	5260	10107207

Method EPA 625

Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	TX	6715	10107401
1,2,4-Trichlorobenzene	TX	5155	10107401
1,2-Dichlorobenzene	TX	4610	10107401
1,2-Diphenylhydrazine	TX	6220	10107401
1,3-Dichlorobenzene	TX	4615	10107401
1,4-Dichlorobenzene	TX	4620	10107401
2,3,4,6-Tetrachlorophenol	TX	6735	10107401
2,4,5-Trichlorophenol	TX	6835	10107401
2,4,6-Trichlorophenol	TX	6840	10107401
2,4-Dichlorophenol	TX	6000	10107401
2,4-Dimethylphenol	TX	6130	10107401
2,4-Dinitrophenol	TX	6175	10107401
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10107401
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10107401
2-Chloronaphthalene	TX	5795	10107401
2-Chlorophenol	TX	5800	10107401
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10107401
2-Methylphenol (o-Cresol)	TX	6400	10107401
2-Nitrophenol	TX	6490	10107401
3,3'-Dichlorobenzidine	TX	5945	10107401
4,4'-DDD	TX	7355	10107401
4,4'-DDE	TX	7360	10107401
4,4'-DDT	TX	7365	10107401
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10107401
4-Chloro-3-methylphenol	TX	5700	10107401
4-Chlorophenyl phenylether	TX	5825	10107401
4-Methylphenol (p-Cresol)	TX	6410	10107401

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Matrix: ***Non-Potable Water***

4-Nitrophenol	TX	6500	10107401
Acenaphthene	TX	5500	10107401
Acenaphthylene	TX	5505	10107401
Aldrin	TX	7025	10107401
alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10107401
alpha-Chlordane	TX	7240	10107401
Anthracene	TX	5555	10107401
Aroclor-1016 (PCB-1016)	TX	8880	10107401
Aroclor-1221 (PCB-1221)	TX	8885	10107401
Aroclor-1232 (PCB-1232)	TX	8890	10107401
Aroclor-1242 (PCB-1242)	TX	8895	10107401
Aroclor-1248 (PCB-1248)	TX	8900	10107401
Aroclor-1254 (PCB-1254)	TX	8905	10107401
Aroclor-1260 (PCB-1260)	TX	8910	10107401
Benzidine	TX	5595	10107401
Benzo(a)anthracene	TX	5575	10107401
Benzo(a)pyrene	TX	5580	10107401
Benzo(b)fluoranthene	TX	5585	10107401
Benzo(g,h,i)perylene	TX	5590	10107401
Benzo(k)fluoranthene	TX	5600	10107401
beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10107401
bis(2-Chloroethoxy)methane	TX	5760	10107401
bis(2-Chloroethyl) ether	TX	5765	10107401
bis(2-Chloroisopropyl) ether	TX	5780	10107401
bis(2-Ethylhexyl) phthalate (DEHP)	TX	6255	10107401
Butyl benzyl phthalate	TX	5670	10107401
Chrysene	TX	5855	10107401
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10107401
Dibenz(a,h) anthracene	TX	5895	10107401
Dieldrin	TX	7470	10107401

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Matrix: *Non-Potable Water*

Diethyl phthalate	TX	6070	10107401
Dimethyl phthalate	TX	6135	10107401
Di-n-butyl phthalate	TX	5925	10107401
Di-n-octyl phthalate	TX	6200	10107401
Endosulfan I	TX	7510	10107401
Endosulfan II	TX	7515	10107401
Endosulfan sulfate	TX	7520	10107401
Endrin	TX	7540	10107401
Endrin aldehyde	TX	7530	10107401
Fluoranthene	TX	6265	10107401
Fluorene	TX	6270	10107401
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10107401
gamma-Chlordane	TX	7245	10107401
Heptachlor	TX	7685	10107401
Heptachlor epoxide	TX	7690	10107401
Hexachlorobenzene	TX	6275	10107401
Hexachlorobutadiene	TX	4835	10107401
Hexachlorocyclopentadiene	TX	6285	10107401
Hexachloroethane	TX	4840	10107401
Indeno(1,2,3-cd) pyrene	TX	6315	10107401
Isophorone	TX	6320	10107401
Naphthalene	TX	5005	10107401
Nitrobenzene	TX	5015	10107401
n-Nitrosodiethylamine	TX	6525	10107401
n-Nitrosodimethylamine	TX	6530	10107401
n-Nitrosodi-n-butylamine	TX	5025	10107401
n-Nitrosodi-n-propylamine	TX	6545	10107401
n-Nitrosodiphenylamine	TX	6535	10107401
Pentachlorobenzene	TX	6590	10107401
Pentachlorophenol	TX	6605	10107401

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Issue Date: 5/1/2013

DHL Analytical, Inc.

2300 Double Creek Drive
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Matrix: ***Non-Potable Water***

Phenanthrene	TX	6615	10107401
Phenol	TX	6625	10107401
Pyrene	TX	6665	10107401
Pyridine	TX	5095	10107401
Toxaphene (Chlorinated camphene)	TX	8250	10107401

Method EPA 7196

Analyte	**AB**	**Analyte ID**	**Method ID**
Chromium (VI)	TX	1045	10162400

Method EPA 7470

Analyte	**AB**	**Analyte ID**	**Method ID**
Mercury	TX	1095	10165807

Method EPA 8011

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10173009

Method EPA 8015

Analyte	**AB**	**Analyte ID**	**Method ID**
Diesel range organics (DRO)	TX	9369	10173203
Ethylene glycol	TX	4785	10173203
Gasoline range organics (GRO)	TX	9408	10173203
Propylene Glycol	TX	6657	10173203

Method EPA 8021

Analyte	**AB**	**Analyte ID**	**Method ID**
Benzene	TX	4375	10174808
Ethylbenzene	TX	4765	10174808
m+p-xylene	TX	5240	10174808
Methyl tert-butyl ether (MTBE)	TX	5000	10174808
o-Xylene	TX	5250	10174808
Toluene	TX	5140	10174808
Xylene (total)	TX	5260	10174808

Method EPA 8082

Analyte	**AB**	**Analyte ID**	**Method ID**

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Matrix: *Non-Potable Water*

Aroclor-1016 (PCB-1016)	TX	8880	10179007
Aroclor-1221 (PCB-1221)	TX	8885	10179007
Aroclor-1232 (PCB-1232)	TX	8890	10179007
Aroclor-1242 (PCB-1242)	TX	8895	10179007
Aroclor-1248 (PCB-1248)	TX	8900	10179007
Aroclor-1254 (PCB-1254)	TX	8905	10179007
Aroclor-1260 (PCB-1260)	TX	8910	10179007
PCBs (total)	TX	8870	10179007

Method EPA 8260

Analyte	AB	Analyte ID	Method ID
1,1,1,2-Tetrachloroethane	TX	5105	10184802
1,1,1-Trichloroethane	TX	5160	10184802
1,1,2,2-Tetrachloroethane	TX	5110	10184802
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	TX	5195	10184802
1,1,2-Trichloroethane	TX	5165	10184802
1,1-Dichloroethane	TX	4630	10184802
1,1-Dichloroethylene	TX	4640	10184802
1,1-Dichloropropene	TX	4670	10184802
1,2,3-Trichlorobenzene	TX	5150	10184802
1,2,3-Trichloropropane	TX	5180	10184802
1,2,4-Trichlorobenzene	TX	5155	10184802
1,2,4-Trimethylbenzene	TX	5210	10184802
1,2-Dibromo-3-chloropropane (DBCP)	TX	4570	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10184802
1,2-Dichlorobenzene	TX	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10184802
1,2-Dichloropropane	TX	4655	10184802
1,3,5-Trimethylbenzene	TX	5215	10184802
1,3-Dichlorobenzene	TX	4615	10184802
1,3-Dichloropropane	TX	4660	10184802

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Matrix: *Non-Potable Water*

1,4-Dichlorobenzene	TX	4620	10184802
1-Chlorohexane	TX	4510	10184802
2,2-Dichloropropane	TX	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	TX	4410	10184802
2-Chloroethyl vinyl ether	TX	4500	10184802
2-Chlorotoluene	TX	4535	10184802
2-Hexanone (MBK)	TX	4860	10184802
4-Chlorotoluene	TX	4540	10184802
4-Isopropyltoluene (p-Cymene)	TX	4915	10184802
4-Methyl-2-pentanone (MIBK)	TX	4995	10184802
Acetone (2-Propanone)	TX	4315	10184802
Acrolein (Propenal)	TX	4325	10184802
Acrylonitrile	TX	4340	10184802
Benzene	TX	4375	10184802
Bromobenzene	TX	4385	10184802
Bromochloromethane	TX	4390	10184802
Bromodichloromethane	TX	4395	10184802
Bromoform	TX	4400	10184802
Carbon disulfide	TX	4450	10184802
Carbon tetrachloride	TX	4455	10184802
Chlorobenzene	TX	4475	10184802
Chlorodibromomethane	TX	4575	10184802
Chloroethane (Ethyl chloride)	TX	4485	10184802
Chloroform	TX	4505	10184802
cis-1,2-Dichloroethylene	TX	4645	10184802
cis-1,3-Dichloropropene	TX	4680	10184802
Dibromomethane (Methylene bromide)	TX	4595	10184802
Dichlorodifluoromethane (Freon-12)	TX	4625	10184802
Ethylbenzene	TX	4765	10184802
Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)	TX	4770	10184802

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Matrix: *Non-Potable Water*

Hexachlorobutadiene	TX	4835	10184802
Iodomethane (Methyl iodide)	TX	4870	10184802
Isopropyl ether	TX	4905	10184802
Isopropylbenzene (Cumene)	TX	4900	10184802
m+p-xylene	TX	5240	10184802
Methyl acetate	TX	4940	10184802
Methyl bromide (Bromomethane)	TX	4950	10184802
Methyl chloride (Chloromethane)	TX	4960	10184802
Methyl tert-butyl ether (MTBE)	TX	5000	10184802
Methylcyclohexane	TX	4965	10184802
Methylene chloride (Dichloromethane)	TX	4975	10184802
Naphthalene	TX	5005	10184802
n-Butylbenzene	TX	4435	10184802
n-Propylbenzene	TX	5090	10184802
o-Xylene	TX	5250	10184802
sec-Butylbenzene	TX	4440	10184802
Styrene	TX	5100	10184802
T-amylmethylether (TAME)	TX	4370	10184802
tert-Butyl alcohol	TX	4420	10184802
tert-Butylbenzene	TX	4445	10184802
Tetrachloroethylene (Perchloroethylene)	TX	5115	10184802
Toluene	TX	5140	10184802
Total trihalomethanes	TX	5205	10184802
trans-1,2-Dichloroethylene	TX	4700	10184802
trans-1,3-Dichloropropylene	TX	4685	10184802
trans-1,4-Dichloro-2-butene	TX	4605	10184802
Trichloroethene (Trichloroethylene)	TX	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10184802
Vinyl acetate	TX	5225	10184802
Vinyl chloride	TX	5235	10184802

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Matrix: *Non-Potable Water*

Xylene (total)	TX	5260	10184802

Method EPA 8270

Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	TX	6715	10185805
1,2,4-Trichlorobenzene	TX	5155	10185805
1,2-Dichlorobenzene	TX	4610	10185805
1,2-Diphenylhydrazine	TX	6220	10185805
1,3-Dichlorobenzene	TX	4615	10185805
1,4-Dichlorobenzene	TX	4620	10185805
1-Naphthylamine	TX	6425	10185805
2,3,4,6-Tetrachlorophenol	TX	6735	10185805
2,4,5-Trichlorophenol	TX	6835	10185805
2,4,6-Trichlorophenol	TX	6840	10185805
2,4-Dichlorophenol	TX	6000	10185805
2,4-Dimethylphenol	TX	6130	10185805
2,4-Dinitrophenol	TX	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10185805
2,6-Dichlorophenol	TX	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10185805
2-Chloronaphthalene	TX	5795	10185805
2-Chlorophenol	TX	5800	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10185805
2-Methylnaphthalene	TX	6385	10185805
2-Methylphenol (o-Cresol)	TX	6400	10185805
2-Naphthylamine	TX	6430	10185805
2-Nitroaniline	TX	6460	10185805
2-Nitrophenol	TX	6490	10185805
2-Picoline (2-Methylpyridine)	TX	5050	10185805
3,3'-Dichlorobenzidine	TX	5945	10185805
3-Methylcholanthrene	TX	6355	10185805

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Matrix: *Non-Potable Water*

3-Nitroaniline	TX	6465	10185805
4,4'-DDD	TX	7355	10185805
4,4'-DDE	TX	7360	10186002
4,4'-DDT	TX	7365	10185805
4-Aminobiphenyl	TX	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10185805
4-Chloro-3-methylphenol	TX	5700	10185805
4-Chloroaniline	TX	5745	10185805
4-Chlorophenyl phenylether	TX	5825	10185805
4-Dimethyl aminoazobenzene	TX	6105	10185805
4-Methylphenol (p-Cresol)	TX	6410	10185805
4-Nitroaniline	TX	6470	10185805
4-Nitrophenol	TX	6500	10185805
7,12-Dimethylbenz(a) anthracene	TX	6115	10185805
a-a-Dimethylphenethylamine	TX	6125	10185805
Acenaphthene	TX	5500	10185805
Acenaphthylene	TX	5505	10185805
Acetophenone	TX	5510	10185805
Aldrin	TX	7025	10186002
alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10186002
alpha-Chlordane	TX	7240	10185601
Aniline	TX	5545	10185805
Anthracene	TX	5555	10185805
Aroclor-1016 (PCB-1016)	TX	8880	10186002
Aroclor-1221 (PCB-1221)	TX	8885	10185203
Aroclor-1232 (PCB-1232)	TX	8890	10185407
Aroclor-1242 (PCB-1242)	TX	8895	10185203
Aroclor-1248 (PCB-1248)	TX	8900	10186002
Aroclor-1254 (PCB-1254)	TX	8905	10185601
Aroclor-1260 (PCB-1260)	TX	8910	10185203

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Matrix: *Non-Potable Water*

Atrazine	TX	7065	10185805
Azinphos-methyl (Guthion)	TX	7075	10185805
Benzidine	TX	5595	10185805
Benzo(a)anthracene	TX	5575	10185805
Benzo(a)pyrene	TX	5580	10185805
Benzo(b)fluoranthene	TX	5585	10185805
Benzo(e)pyrene	TX	5605	10185805
Benzo(g,h,i)perylene	TX	5590	10185805
Benzo(k)fluoranthene	TX	5600	10185805
Benzoic acid	TX	5610	10185805
Benzyl alcohol	TX	5630	10185805
beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10185203
Biphenyl	TX	5640	10185805
bis(2-Chloroethoxy)methane	TX	5760	10185805
bis(2-Chloroethyl) ether	TX	5765	10185805
bis(2-Chloroisopropyl) ether	TX	5780	10185805
bis(2-Ethylhexyl) phthalate (DEHP)	TX	6255	10185805
Butyl benzyl phthalate	TX	5670	10185805
Caprolactam	TX	7180	10185805
Carbaryl (Sevin)	TX	7195	10185407
Carbazole	TX	5680	10185805
Carbophenothion	TX	7220	10185407
Chlordane (tech.)	TX	7250	10185203
Chlorfenvinphos	TX	7255	10185805
Chrysene	TX	5855	10185805
Coumaphos	TX	7315	10186002
Crotoxyphos	TX	7330	10185407
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10185805
Demeton	TX	7390	10185407
Demeton-o	TX	7395	10185203

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Matrix: *Non-Potable Water*

Demeton-s	TX	7385	10185601
Dibenz(a,h) anthracene	TX	5895	10185805
Dibenzofuran	TX	5905	10185805
Dichlorovos (DDVP, Dichlorvos)	TX	8610	10186002
Dicrotophos	TX	7465	10185407
Dieldrin	TX	7470	10186002
Diethyl phthalate	TX	6070	10185805
Dimethoate	TX	7475	10185805
Dimethyl phthalate	TX	6135	10185805
Di-n-butyl phthalate	TX	5925	10185805
Di-n-octyl phthalate	TX	6200	10185805
Dioxathion	TX	7495	10185203
Diphenylamine	TX	6205	10185805
Disulfoton	TX	8625	10185601
Endosulfan I	TX	7510	10185805
Endosulfan II	TX	7515	10185203
Endosulfan sulfate	TX	7520	10185601
Endrin	TX	7540	10185203
Endrin aldehyde	TX	7530	10185805
Endrin ketone	TX	7535	10186002
EPN (Phosphonothioic acid, phenyl-, O-ethyl O-(p-nitrophenyl) ester)	TX	7550	10186002
Ethion	TX	7565	10185805
Ethyl methanesulfonate	TX	6260	10185805
Famphur	TX	7580	10185407
Fensulfothion	TX	7600	10185203
Fenthion	TX	7605	10186002
Fluoranthene	TX	6265	10185805
Fluorene	TX	6270	10185805
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10185203
gamma-Chlordane	TX	7245	10185203

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Matrix: *Non-Potable Water*

Heptachlor	TX	7685	10185601
Heptachlor epoxide	TX	7690	10185805
Hexachlorobenzene	TX	6275	10185805
Hexachlorobutadiene	TX	4835	10185805
Hexachlorocyclopentadiene	TX	6285	10185805
Hexachloroethane	TX	4840	10185805
Hexachlorophene	TX	6290	10185805
Indeno(1,2,3-cd) pyrene	TX	6315	10185805
Isodrin	TX	7725	10185407
Isophorone	TX	6320	10185805
Leptophos	TX	7755	10186002
Malathion	TX	7770	10186002
Methoxychlor	TX	7810	10185601
Methyl methanesulfonate	TX	6375	10185805
Methyl parathion (Parathion, methyl)	TX	7825	10185203
Mevinphos	TX	7850	10186002
Monocrotophos	TX	7880	10185203
Naled	TX	7905	10185203
Naphthalene	TX	5005	10185805
Nitrobenzene	TX	5015	10185805
n-Nitrosodiethylamine	TX	6525	10185805
n-Nitrosodimethylamine	TX	6530	10185805
n-Nitrosodi-n-butylamine	TX	5025	10185805
n-Nitrosodi-n-propylamine	TX	6545	10185805
n-Nitrosodiphenylamine	TX	6535	10185805
n-Nitrosopiperidine	TX	6560	10185805
Parathion, ethyl	TX	7955	10185805
Pentachlorobenzene	TX	6590	10185805
Pentachloronitrobenzene (PCNB)	TX	6600	10185805
Pentachlorophenol	TX	6605	10185805

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Matrix: ***Non-Potable Water***

Phenacetin	TX	6610	10185805
Phenanthrene	TX	6615	10185805
Phenol	TX	6625	10185805
Phorate	TX	7985	10186002
Phosmet (Imidan)	TX	8000	10186002
Phosphamidon	TX	8005	10185805
Pronamide (Kerb)	TX	6650	10185805
Pyrene	TX	6665	10185805
Pyridine	TX	5095	10185805
Quinoline	TX	6670	10185805
Sulfotepp	TX	8155	10186002
Terbufos	TX	8185	10185805
Tetrachlorvinphos (Stirophos, Gardona)	TX	8197	10186002
Tetraethyl pyrophosphate (TEPP)	TX	8210	10185407
Toxaphene (Chlorinated camphene)	TX	8250	10185203

Method EPA 8321

Analyte	**AB**	**Analyte ID**	**Method ID**
2,4,5-T	TX	8655	10188804
2,4-D	TX	8545	10188804
2,4-DB	TX	8560	10188804
Dalapon	TX	8555	10188804
Dicamba	TX	8595	10188804
Dichloroprop (Dichlorprop, Weedone)	TX	8605	10188804
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10188804
MCPA	TX	7775	10188804
MCPP	TX	7780	10188804
Silvex (2,4,5-TP)	TX	8650	10188804

Method EPA 8330

Analyte	**AB**	**Analyte ID**	**Method ID**
1,3,5-Trinitrobenzene (1,3,5-TNB)	TX	6885	10189807
1,3-Dinitrobenzene (1,3-DNB)	TX	6160	10189807

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Matrix: *Non-Potable Water*

2,4,6-Trinitrotoluene (2,4,6-TNT)	TX	9651	10189807
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10189807
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10189807
2-Amino-4,6-dinitrotoluene (2-am-dnt)	TX	9303	10189807
2-Nitrotoluene	TX	9507	10189807
3-Nitrotoluene	TX	9510	10189807
4-Amino-2,6-dinitrotoluene (4-am-dnt)	TX	9306	10189807
4-Nitrotoluene	TX	9513	10189807
Methyl-2,4,6-trinitrophenylnitramine (tetryl)	TX	6415	10189807
Nitrobenzene	TX	5015	10189807
Nitroglycerin	TX	6485	10189807
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	TX	9522	10189807
Pentaerythritoltetranitrate (PETN)	TX	9558	10189807
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	TX	9432	10189807

Method EPA 9014

Analyte	**AB**	**Analyte ID**	**Method ID**
Amenable cyanide	TX	1510	10193803
Total Cyanide	TX	1635	10193803

Method EPA 9040

Analyte	**AB**	**Analyte ID**	**Method ID**
pH	TX	1900	10197203

Method EPA 9056

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromide	TX	1540	10199209
Chloride	TX	1575	10199209
Fluoride	TX	1730	10199209
Nitrate as N	TX	1810	10199209
Nitrate-nitrite	TX	1820	10199209
Nitrite as N	TX	1840	10199209
Sulfate	TX	2000	10199209

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Matrix: *Non-Potable Water*

Method	Analyte	AB	Analyte ID	Method ID
EPA 9060	Total Organic Carbon (TOC)	TX	2040	10200201
EPA 9070	n-Hexane Extractable Material (HEM) (O&G)	TX	1803	10201000
EPA RSK 175	Carbon dioxide	TX	3755	10212905
	Ethane	TX	4747	10212905
	Ethene	TX	4752	10212905
	Methane	TX	4926	10212905
HACH 8000	Chemical oxygen demand (COD)	TX	1565	60003001
SM 2130 B	Turbidity	TX	2055	20002408
SM 2310 B (4a)	Acidity, as CaCO3	TX	1500	20002806
SM 2320 B	Alkalinity as CaCO3	TX	1505	20003003
SM 2340 B	Total hardness as CaCO3	TX	1755	20003401
SM 2510 B	Conductivity	TX	1610	20003809
SM 2540 C				

Method	Analyte	AB	Analyte ID	Method ID

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Matrix: ***Non-Potable Water***

Residue-filterable (TDS)	TX	1955	20004404
Method SM 2540 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Residue-nonfilterable (TSS)	TX	1960	20004802
Method SM 3500-Cr D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Chromium	TX	1040	20009001
Method SM 4500-CN^- E			
Analyte	**AB**	**Analyte ID**	**Method ID**
Total Cyanide	TX	1635	20021209
Method SM 4500-CN^- G			
Analyte	**AB**	**Analyte ID**	**Method ID**
Amenable cyanide	TX	1510	20021607
Method SM 4500-H+ B			
Analyte	**AB**	**Analyte ID**	**Method ID**
pH	TX	1900	20016404
Method SM 4500-NH3 F			
Analyte	**AB**	**Analyte ID**	**Method ID**
Ammonia as N	TX	1515	20023001
Method SM 4500-P E			
Analyte	**AB**	**Analyte ID**	**Method ID**
Orthophosphate as P	TX	1870	20025803
Phosphorus	TX	1910	20025803
Method SM 4500-$S2^-$ D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Sulfide	TX	2005	20125400
Method SM 4500-SiO2 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Silica as SiO2	TX	1990	20018206
Method SM 5220 D			
Analyte	**AB**	**Analyte ID**	**Method ID**
Chemical oxygen demand (COD)	TX	1565	20027809

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Matrix: ***Non-Potable Water***

Method SM 5310 C

Analyte	AB	Analyte ID	Method ID
Total Organic Carbon (TOC)	TX	2040	20028200

Method TCEQ 1005

Analyte	AB	Analyte ID	Method ID
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208

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Matrix: ***Solid & Chemical Materials***

Method ASTM D2216

Analyte	AB	Analyte ID	Method ID
Moisture	TX	10337	ASTM D2216-05

Method EPA 1010

Analyte	AB	Analyte ID	Method ID
Ignitability	TX	1780	10116606

Method EPA 1311

Analyte	AB	Analyte ID	Method ID
TCLP	TX	849	10118806

Method EPA 1312

Analyte	AB	Analyte ID	Method ID
SPLP	TX	850	10119003

Method EPA 200.8

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10014605
Antimony	TX	1005	10014605
Arsenic	TX	1010	10014605
Barium	TX	1015	10014605
Beryllium	TX	1020	10014605
Cadmium	TX	1030	10014605
Calcium	TX	1035	10014605
Chromium	TX	1040	10014605
Cobalt	TX	1050	10014605
Copper	TX	1055	10014605
Iron	TX	1070	10014605
Lead	TX	1075	10014605
Magnesium	TX	1085	10014605
Manganese	TX	1090	10014605
Molybdenum	TX	1100	10014605
Nickel	TX	1105	10014605
Potassium	TX	1125	10014605

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Matrix: ***Solid & Chemical Materials***

Selenium	TX	1140	10014605
Silver	TX	1150	10014605
Sodium	TX	1155	10014605
Strontium	TX	1160	10014605
Thallium	TX	1165	10014605
Tin	TX	1175	10014605
Titanium	TX	1180	10014605
Vanadium	TX	1185	10014605
Zinc	TX	1190	10014605

Method EPA 300.0

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromide	TX	1540	10053006
Chloride	TX	1575	10053006
Fluoride	TX	1730	10053006
Nitrate as N	TX	1810	10053006
Nitrate-nitrite	TX	1820	10053006
Nitrite as N	TX	1840	10053006
Sulfate	TX	2000	10053006

Method EPA 310.1

Analyte	**AB**	**Analyte ID**	**Method ID**
Alkalinity as CaCO3	TX	1505	10054805

Method EPA 350.3

Analyte	**AB**	**Analyte ID**	**Method ID**
Ammonia as N	TX	1515	10064401

Method EPA 365.2

Analyte	**AB**	**Analyte ID**	**Method ID**
Orthophosphate as P	TX	1870	10070403
Phosphorus	TX	1910	10070403

Method EPA 6020

Analyte	**AB**	**Analyte ID**	**Method ID**
Aluminum	TX	1000	10156204

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Matrix: ***Solid & Chemical Materials***

Antimony	TX	1005	10156204
Arsenic	TX	1010	10156204
Barium	TX	1015	10156204
Beryllium	TX	1020	10156204
Boron	TX	1025	10156204
Cadmium	TX	1030	10156204
Calcium	TX	1035	10156204
Chromium	TX	1040	10156204
Cobalt	TX	1050	10156204
Copper	TX	1055	10156204
Iron	TX	1070	10156204
Lead	TX	1075	10156204
Lithium	TX	1080	10156204
Magnesium	TX	1085	10156204
Manganese	TX	1090	10156204
Molybdenum	TX	1100	10156204
Nickel	TX	1105	10156204
Potassium	TX	1125	10156204
Selenium	TX	1140	10156204
Silver	TX	1150	10156204
Sodium	TX	1155	10156204
Strontium	TX	1160	10156204
Thallium	TX	1165	10156204
Tin	TX	1175	10156204
Titanium	TX	1180	10156204
Vanadium	TX	1185	10156204
Zinc	TX	1190	10156204

Method EPA 7196

Analyte	**AB**	**Analyte ID**	**Method ID**
Chromium (VI)	TX	1045	10162400

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Matrix: *Solid & Chemical Materials*

Method EPA 7470

Analyte	AB	Analyte ID	Method ID
Mercury	TX	1095	10165807

Method EPA 7471

Analyte	AB	Analyte ID	Method ID
Mercury	TX	1095	10166208

Method EPA 8015

Analyte	AB	Analyte ID	Method ID
Diesel range organics (DRO)	TX	9369	10173203
Ethylene glycol	TX	4785	10173203
Gasoline range organics (GRO)	TX	9408	10173203
Propylene Glycol	TX	6657	10173203

Method EPA 8021

Analyte	AB	Analyte ID	Method ID
Benzene	TX	4375	10174808
Ethylbenzene	TX	4765	10174808
m+p-xylene	TX	5240	10174808
Methyl tert-butyl ether (MTBE)	TX	5000	10174808
o-Xylene	TX	5250	10174808
Toluene	TX	5140	10174808
Xylene (total)	TX	5260	10174808

Method EPA 8082

Analyte	AB	Analyte ID	Method ID
Aroclor-1016 (PCB-1016)	TX	8880	10179007
Aroclor-1221 (PCB-1221)	TX	8885	10179007
Aroclor-1232 (PCB-1232)	TX	8890	10179007
Aroclor-1242 (PCB-1242)	TX	8895	10179007
Aroclor-1248 (PCB-1248)	TX	8900	10179007
Aroclor-1254 (PCB-1254)	TX	8905	10179007
Aroclor-1260 (PCB-1260)	TX	8910	10179007
PCBs (total)	TX	8870	10179007

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Matrix: ***Solid & Chemical Materials***

Method EPA 8260

Analyte	AB	Analyte ID	Method ID
1,1,1,2-Tetrachloroethane	TX	5105	10184802
1,1,1-Trichloroethane	TX	5160	10184802
1,1,2,2-Tetrachloroethane	TX	5110	10184802
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	TX	5195	10184802
1,1,2-Trichloroethane	TX	5165	10184802
1,1-Dichloroethane	TX	4630	10184802
1,1-Dichloroethylene	TX	4640	10184802
1,1-Dichloropropene	TX	4670	10184802
1,2,3-Trichlorobenzene	TX	5150	10184802
1,2,3-Trichloropropane	TX	5180	10184802
1,2,4-Trichlorobenzene	TX	5155	10184802
1,2,4-Trimethylbenzene	TX	5210	10184802
1,2-Dibromo-3-chloropropane (DBCP)	TX	4570	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10184802
1,2-Dichlorobenzene	TX	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10184802
1,2-Dichloropropane	TX	4655	10184802
1,3,5-Trimethylbenzene	TX	5215	10184802
1,3-Dichlorobenzene	TX	4615	10184802
1,3-Dichloropropane	TX	4660	10184802
1,4-Dichlorobenzene	TX	4620	10184802
1-Chlorohexane	TX	4510	10184802
2,2-Dichloropropane	TX	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	TX	4410	10184802
2-Chloroethyl vinyl ether	TX	4500	10184802
2-Chlorotoluene	TX	4535	10184802
2-Hexanone (MBK)	TX	4860	10184802
4-Chlorotoluene	TX	4540	10184802

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Matrix: *Solid & Chemical Materials*

4-Isopropyltoluene (p-Cymene)	TX	4915	10184802
4-Methyl-2-pentanone (MIBK)	TX	4995	10184802
Acetone (2-Propanone)	TX	4315	10184802
Acrolein (Propenal)	TX	4325	10184802
Acrylonitrile	TX	4340	10184802
Benzene	TX	4375	10184802
Bromobenzene	TX	4385	10184802
Bromochloromethane	TX	4390	10184802
Bromodichloromethane	TX	4395	10184802
Bromoform	TX	4400	10184802
Carbon disulfide	TX	4450	10184802
Carbon tetrachloride	TX	4455	10184802
Chlorobenzene	TX	4475	10184802
Chlorodibromomethane	TX	4575	10184802
Chloroethane (Ethyl chloride)	TX	4485	10184802
Chloroform	TX	4505	10184802
cis-1,2-Dichloroethylene	TX	4645	10184802
cis-1,3-Dichloropropene	TX	4680	10184802
Dibromomethane (Methylene bromide)	TX	4595	10184802
Dichlorodifluoromethane (Freon-12)	TX	4625	10184802
Ethylbenzene	TX	4765	10184802
Hexachlorobutadiene	TX	4835	10184802
Iodomethane (Methyl iodide)	TX	4870	10184802
Isopropyl alcohol (2-Propanol, Isopropanol)	TX	4895	10184802
Isopropylbenzene (Cumene)	TX	4900	10184802
m+p-xylene	TX	5240	10184802
Methyl acetate	TX	4940	10184802
Methyl bromide (Bromomethane)	TX	4950	10184802
Methyl chloride (Chloromethane)	TX	4960	10184802
Methyl tert-butyl ether (MTBE)	TX	5000	10184802

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Matrix: *Solid & Chemical Materials*

Methylcyclohexane	TX	4965	10184802
Methylene chloride (Dichloromethane)	TX	4975	10184802
Naphthalene	TX	5005	10184802
n-Butylbenzene	TX	4435	10184802
n-Propylbenzene	TX	5090	10184802
o-Xylene	TX	5250	10184802
sec-Butylbenzene	TX	4440	10184802
Styrene	TX	5100	10184802
tert-Butylbenzene	TX	4445	10184802
Tetrachloroethylene (Perchloroethylene)	TX	5115	10184802
Toluene	TX	5140	10184802
trans-1,2-Dichloroethylene	TX	4700	10184802
trans-1,3-Dichloropropylene	TX	4685	10184802
trans-1,4-Dichloro-2-butene	TX	4605	10184802
Trichloroethene (Trichloroethylene)	TX	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10184802
Vinyl acetate	TX	5225	10184802
Vinyl chloride	TX	5235	10184802
Xylene (total)	TX	5260	10184802

Method EPA 8270

Analyte	**AB**	**Analyte ID**	**Method ID**
1,2,4,5-Tetrachlorobenzene	TX	6715	10185805
1,2,4-Trichlorobenzene	TX	5155	10185805
1,2-Dichlorobenzene	TX	4610	10185805
1,2-Diphenylhydrazine	TX	6220	10185805
1,3-Dichlorobenzene	TX	4615	10185805
1,4-Dichlorobenzene	TX	4620	10185805
1-Naphthylamine	TX	6425	10185805
2,3,4,6-Tetrachlorophenol	TX	6735	10185805
2,4,5-Trichlorophenol	TX	6835	10185805

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Matrix: *Solid & Chemical Materials*

2,4,6-Trichlorophenol	TX	6840	10185805
2,4-Dichlorophenol	TX	6000	10185805
2,4-Dimethylphenol	TX	6130	10185805
2,4-Dinitrophenol	TX	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10185805
2,6-Dichlorophenol	TX	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10185805
2-Chloronaphthalene	TX	5795	10185805
2-Chlorophenol	TX	5800	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10185805
2-Methylnaphthalene	TX	6385	10185805
2-Methylphenol (o-Cresol)	TX	6400	10185805
2-Naphthylamine	TX	6430	10185805
2-Nitroaniline	TX	6460	10185805
2-Nitrophenol	TX	6490	10185805
2-Picoline (2-Methylpyridine)	TX	5050	10185805
3,3'-Dichlorobenzidine	TX	5945	10185805
3-Methylcholanthrene	TX	6355	10185805
3-Nitroaniline	TX	6465	10185805
4,4'-DDD	TX	7355	10185203
4,4'-DDE	TX	7360	10186002
4,4'-DDT	TX	7365	10185407
4-Aminobiphenyl	TX	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10185805
4-Chloro-3-methylphenol	TX	5700	10185805
4-Chloroaniline	TX	5745	10185805
4-Chlorophenyl phenylether	TX	5825	10185805
4-Dimethyl aminoazobenzene	TX	6105	10185805
4-Methylphenol (p-Cresol)	TX	6410	10185805
4-Nitroaniline	TX	6470	10185805

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Matrix: *Solid & Chemical Materials*

4-Nitrophenol	TX	6500	10185805
7,12-Dimethylbenz(a) anthracene	TX	6115	10185805
a-a-Dimethylphenethylamine	TX	6125	10185805
Acenaphthene	TX	5500	10185805
Acenaphthylene	TX	5505	10185805
Acetophenone	TX	5510	10185805
Aldrin	TX	7025	10186002
alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10185407
alpha-Chlordane	TX	7240	10185805
Aniline	TX	5545	10185805
Anthracene	TX	5555	10185805
Aroclor-1016 (PCB-1016)	TX	8880	10186002
Aroclor-1221 (PCB-1221)	TX	8885	10185805
Aroclor-1232 (PCB-1232)	TX	8890	10185407
Aroclor-1242 (PCB-1242)	TX	8895	10185407
Aroclor-1248 (PCB-1248)	TX	8900	10185805
Aroclor-1254 (PCB-1254)	TX	8905	10185805
Aroclor-1260 (PCB-1260)	TX	8910	10185407
Atrazine	TX	7065	10185805
Azinphos-methyl (Guthion)	TX	7075	10185203
Benzidine	TX	5595	10185805
Benzo(a)anthracene	TX	5575	10185805
Benzo(a)pyrene	TX	5580	10185805
Benzo(b)fluoranthene	TX	5585	10185805
Benzo(e)pyrene	TX	5605	10185805
Benzo(g,h,i)perylene	TX	5590	10185805
Benzo(k)fluoranthene	TX	5600	10185805
Benzoic acid	TX	5610	10185805
Benzyl alcohol	TX	5630	10185805
beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10185601

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Matrix: *Solid & Chemical Materials*

Biphenyl	TX	5640	10185805
bis(2-Chloroethoxy)methane	TX	5760	10185805
bis(2-Chloroethyl) ether	TX	5765	10185805
bis(2-Chloroisopropyl) ether	TX	5780	10185805
bis(2-Ethylhexyl) phthalate (DEHP)	TX	6255	10185805
Butyl benzyl phthalate	TX	5670	10185805
Caprolactam	TX	7180	10185805
Carbaryl (Sevin)	TX	7195	10185601
Carbazole	TX	5680	10185805
Carbophenothion	TX	7220	10185805
Chlordane (tech.)	TX	7250	10185805
Chlorfenvinphos	TX	7255	10185203
Chrysene	TX	5855	10185805
Coumaphos	TX	7315	10185805
Crotoxyphos	TX	7330	10185203
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10186002
Demeton	TX	7390	10185805
Demeton-o	TX	7395	10185805
Demeton-s	TX	7385	10185601
Dibenz(a,h) anthracene	TX	5895	10185805
Dibenzofuran	TX	5905	10185805
Dichlorovos (DDVP, Dichlorvos)	TX	8610	10185805
Dicrotophos	TX	7465	10185805
Dieldrin	TX	7470	10185407
Diethyl phthalate	TX	6070	10185805
Dimethoate	TX	7475	10185805
Dimethyl phthalate	TX	6135	10185805
Di-n-butyl phthalate	TX	5925	10185805
Di-n-octyl phthalate	TX	6200	10185805
Dioxathion	TX	7495	10185601

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Matrix: *Solid & Chemical Materials*

Diphenylamine	TX	6205	10185805
Disulfoton	TX	8625	10185407
Endosulfan I	TX	7510	10185601
Endosulfan II	TX	7515	10185805
Endosulfan sulfate	TX	7520	10186002
Endrin	TX	7540	10185601
Endrin aldehyde	TX	7530	10186002
Endrin ketone	TX	7535	10186002
EPN (Phosphonothioic acid, phenyl-, O-ethyl O-(p-nitrophenyl) ester)	TX	7550	10186002
Ethion	TX	7565	10185203
Ethyl methanesulfonate	TX	6260	10185805
Famphur	TX	7580	10186002
Fensulfothion	TX	7600	10185805
Fenthion	TX	7605	10186002
Fluoranthene	TX	6265	10185805
Fluorene	TX	6270	10185805
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10185407
gamma-Chlordane	TX	7245	10185601
Heptachlor	TX	7685	10185601
Heptachlor epoxide	TX	7690	10185203
Hexachlorobenzene	TX	6275	10185805
Hexachlorobutadiene	TX	4835	10185805
Hexachlorocyclopentadiene	TX	6285	10185805
Hexachloroethane	TX	4840	10185805
Hexachlorophene	TX	6290	10185601
Indeno(1,2,3-cd) pyrene	TX	6315	10185805
Isodrin	TX	7725	10185203
Isophorone	TX	6320	10185805
Leptophos	TX	7755	10185407
Malathion	TX	7770	10185601

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2300 Double Creek Drive
Round Rock, TX 78664-3801

These fields of accreditation supercede all previous fields. The Texas Commission on Environmental Quality urges customers to verify the laboratory's current accreditation status for particular methods and analyses.

Matrix: ***Solid & Chemical Materials***

Methoxychlor	TX	7810	10185203
Methyl methanesulfonate	TX	6375	10185805
Methyl parathion (Parathion, methyl)	TX	7825	10185203
Mevinphos	TX	7850	10185805
Monocrotophos	TX	7880	10185805
Naled	TX	7905	10185805
Naphthalene	TX	5005	10185805
Nitrobenzene	TX	5015	10185805
n-Nitrosodiethylamine	TX	6525	10185805
n-Nitrosodimethylamine	TX	6530	10185805
n-Nitrosodi-n-butylamine	TX	5025	10185805
n-Nitrosodi-n-propylamine	TX	6545	10185805
n-Nitrosodiphenylamine	TX	6535	10185805
n-Nitrosopiperidine	TX	6560	10185805
Parathion, ethyl	TX	7955	10185805
Pentachlorobenzene	TX	6590	10185805
Pentachloronitrobenzene (PCNB)	TX	6600	10185805
Pentachlorophenol	TX	6605	10185805
Phenacetin	TX	6610	10185805
Phenanthrene	TX	6615	10185805
Phenol	TX	6625	10185805
Phorate	TX	7985	10185407
Phosmet (Imidan)	TX	8000	10185203
Phosphamidon	TX	8005	10186002
Pronamide (Kerb)	TX	6650	10185805
Pyrene	TX	6665	10185805
Pyridine	TX	5095	10185805
Quinoline	TX	6670	10185805
Sulfotepp	TX	8155	10185203
Terbufos	TX	8185	10185805

Texas Commission on Environmental Quality

NELAP - Recognized Laboratory Fields of Accreditation

DHL Analytical, Inc.
2300 Double Creek Drive
Round Rock, TX 78664-3801

Certificate: T104704211-13-10
Expiration Date: 4/30/2014
Issue Date: 5/1/2013

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Matrix: ***Solid & Chemical Materials***

Tetrachlorvinphos (Stirophos, Gardona)	TX	8197	10186002
Tetraethyl pyrophosphate (TEPP)	TX	8210	10185407
Toxaphene (Chlorinated camphene)	TX	8250	10185203

Method EPA 8321

Analyte	AB	Analyte ID	Method ID
2,4,5-T	TX	8655	10188804
2,4-D	TX	8545	10188804
2,4-DB	TX	8560	10188804
Dalapon	TX	8555	10188804
Dicamba	TX	8595	10188804
Dichloroprop (Dichlorprop, Weedone)	TX	8605	10188804
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10188804
MCPA	TX	7775	10188804
MCPP	TX	7780	10188804
Silvex (2,4,5-TP)	TX	8650	10188804

Method EPA 8330

Analyte	AB	Analyte ID	Method ID
1,3,5-Trinitrobenzene (1,3,5-TNB)	TX	6885	10189807
1,3-Dinitrobenzene (1,3-DNB)	TX	6160	10189807
2,4,6-Trinitrotoluene (2,4,6-TNT)	TX	9651	10189807
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10189807
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10189807
2-Amino-4,6-dinitrotoluene (2-am-dnt)	TX	9303	10189807
2-Nitrotoluene	TX	9507	10189807
3-Nitrotoluene	TX	9510	10189807
4-Amino-2,6-dinitrotoluene (4-am-dnt)	TX	9306	10189807
4-Nitrotoluene	TX	9513	10189807
Methyl-2,4,6-trinitrophenylnitramine (tetryl)	TX	6415	10189807
Nitrobenzene	TX	5015	10189807
Nitroglycerin	TX	6485	10189807
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	TX	9522	10189807

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Matrix: *Solid & Chemical Materials*

Pentaerythritoltetranitrate (PETN)	TX	9558	10189807
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	TX	9432	10189807

Method EPA 9014

Analyte	**AB**	**Analyte ID**	**Method ID**
Amenable cyanide	TX	1510	10193803
Total Cyanide	TX	1635	10193803

Method EPA 9040

Analyte	**AB**	**Analyte ID**	**Method ID**
Corrosivity	TX	1615	10197203
pH	TX	1900	10197203

Method EPA 9045

Analyte	**AB**	**Analyte ID**	**Method ID**
pH	TX	1900	10198400

Method EPA 9056

Analyte	**AB**	**Analyte ID**	**Method ID**
Bromide	TX	1540	10199209
Chloride	TX	1575	10199209
Fluoride	TX	1730	10199209
Nitrate as N	TX	1810	10199209
Nitrate-nitrite	TX	1820	10199209
Nitrite as N	TX	1840	10199209
Sulfate	TX	2000	10199209

Method SM 2320 B

Analyte	**AB**	**Analyte ID**	**Method ID**
Alkalinity as CaCO3	TX	1505	20003003

Method SM 2510 B

Analyte	**AB**	**Analyte ID**	**Method ID**
Conductivity	TX	1610	20003809

Method SSA/ASA Part 3:14

Analyte	**AB**	**Analyte ID**	**Method ID**
Conductivity	TX	1610	SSA/ASA Pt 3:14

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Matrix: ***Solid & Chemical Materials***

Method TCEQ 1005

Analyte	AB	Analyte ID	Method ID
Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208

Appendix 3

Field Notes

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12-26-12

ROCKWOOL IND. - BELTON, TX

ES13.AIRS.11 - B. SHIRLEY

0945 - Arrive on Site. Weather Conditions: 31°F, Partly Sunny, Winds NNW @ 15-20 mph.

0950 - Set up SAMPLING EQUIPMENT.

1039 - CALIBRATE HORIBA

pH = (4.0 CAL Sol.) = 3.97

COND = 0.458 s/m

TURB = 0.8 NTU

DO = 5.47 s/l

TEMP = 13.22 °C

GAUGING DATA: (CENTRAL PROP.)

WELL ID	DTW (Ft)	TD (Ft)	DATE SP Sample Col. / Time
MW-7	30.34	35.1	12-27-12 / 0851
MW-9	28.94	35.1	12-26-12 / 1602
MW-10	29.84	35.0	12-26-12 / 1414
MW-11	32.98	35.65	12-26-12 / 1334
MW-14	32.46	41.0	12-26-12 / 1204
MW-16	DRY	31.5	N/A
MW-17	26.25	31.5	12-26-12 / 1243
MW-19	32.16	34.3	12-27-12 / 1128
MW-24-90	33.53	40.63	12-27-12 / 1211
MW-27-90	34.38	35.4	12-28-12 / 0809
MW-28-90	30.46	31.94	12-28-12 / 0755
MW-29-90	27.90	29.92	12-27-12 / 0939

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ROCKWOOL IND. - BELTON, TX

ES13.AIRS.11 - B. SHIRLEY

Gauging Data - Central Property cont.:

WELL ID	DTW (Ft)	TD (Ft)	DATE/Time Sample Collected
MW-30-90	27.69	28.4	12-28-12 / 0816
MW-33-90	30.29	33.0	12-26-12 / 1645
MW-34-90	29.05	32.5	12-26-12 / 1501
Dup-2 (MW-34-90)			12-26-12 / 1521
Dup-1 (MW-28)			12-27-12 / 1445
ER-1			12-26-12 / 1707
ER-2			12-27-12 / 1710

Gauging Data (North Property):

WELL ID	DTW (Ft)	TD (Ft)	DATE/Time Sample Collected
MW-15	DRY	19.1 (?)	N/A
MW-20	32.15	39.2	12-27-12 / 1732
MW-21	10.08	15.5	12-27-12 / 1510
MW-22	11.57	14.56	12-27-12 / 1427
MW-35-90	16.72	17.3	12-28-12 / 0905
MW-36-90	Casing Plugged/Collapsed N/A		
MW-37-90	19.08	26.3	12-27-12 / 1625
MW-38-90	10.19	18.83	12-27-12 / 1553

Sampling Order: 14, 17, 11, 10, 34-90, 9, 33-90, 7, 29-90, 28-90, 27-90, 30-90, 16, 19, 24-90, 20, 15, 22, 21, 35-90, 37-90, 36-90, BS 12-26-12

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(82) Rockwool Ind. - Becton, TX

ES13. AIRS. 11 - B. SHIRLEY

1130 - Mob to MW-14

MW-14 DTW = 32.40 ft.

Set pump @ 40 ft.

FLOW RATE = 250 ml/min

TIME	pH	COND(S/m)	TURB(NTU)	DO(g/L)	TEMP(°C)	ORP(mV) / DTW(ft)
1147	5.60	0.280	5.0	0.68	19.76	53 / 32.70
1150	5.73	0.228	574	1.75	17.39	50 / 32.70
1153	5.81	0.172	336	2.73	16.85	43 / 32.80
1156	5.87	0.171	265	3.14	16.22	39 / 32.82
1159	5.88	0.167	132	3.33	16.22	35 / 32.78

1204 - Collect SAMPLE (250ml - HNO_3) Metals 6020A

PV = 1.25 gallons

1208 - Decon Pump. - J-plug @ well vault. lock present - concrete pad is ~~loose~~ loose

1220 - Mob to MW-17 DTW = 26.25 ft.

DTP = 31 Flow Rate = 270 ml/min

Time	pH	COND	TURB	DO	TEMP	ORP	DTW
1234	6.48	0.783	31.7	0.09	16.10	-29	26.68
1237	6.45	0.32	38.3	0.	16.84	-26	26.92
1240	643	6.61	18.8	0	17.20	-23	27.19

1243 - Collect SAMPLE - 250ml - Metals - HNO_3

PV = 1 gallon

1247 - Decon Pump. J-plug & lock in place

1305 - Mob to MW-11 well condition - good

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Rockwool Ind. Becton, TX

ES13. AIRS. 11 - B. SHIRLEY

Photo Log:

1. MW-14 - LKG NE
2. MW-14 - Purge - LKG NE
3. MW-17 - Purge - LKG SW
4. MW-11 - Purge - LKG South
5. MW-10 - Purge - LKG South
6. MW-39-90 - Purge - LKG NW
7. MW-9 - LKG - SW
8. MW-33-90 - Purge - LKG SW

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9. MW-7 - Purge - LKG NW
10. MW-29-90 - Purge - LKG NW
11. MW-19 - Purge - LKG South
12. MW-24-90 - Purge - LKG NE
13. MW-24-90 - Pump after Purging well
14. MW-24-90 - Dirt/Debris on Pump.
15. MW-20 - Purge - LKG NW
16. MW-22 - Purge - LKG South
17. MW-21 - Purge - LKG South
18. MW-38-90 - Pump Decon. - LKG North
19. MW-37-90 - Purge - LKG East.
20. MW-28-90 - LKG NW
21. MW-27-90 - LKG NW
22. MW-30-90 - LKG ~~East~~ WEST.
23. MW-35-90 - LKG South
24. Onsite Waste Drum

12-20-12

ROCKWOOL IND - BECTON, TX

ES13. AIRS. 11 - B. SHIRLEY

MW-11 DTW = 32.98 ft.

DTP = 32.5 ft FLOW RATE = 200 mL/min

Time	pH	COND	TURB	DO	TEMP	ORP	DTW
1317	6.89	0.122	107	1.81	15.32	-65	*
1320	7.07	0.131	36.3	0.83	15.23	-83	*
1323	7.09	0.197	27.2	0.19	14.98	-84	*
1326	7.06	0.126	38.1	0.62	14.79	-80	*
1329	7.00	0.122	74.8	1.17	14.06	-76	*

1334 - Collect SAMPLE - 250 ml - METALS 6020A - HNO_3
Purge Volume = 1/2 gallon

1339 - Decon Pump. well pad, stickup & bollards in good condition. J-Plug & lock present. * - WL below top of pump.

1348 - Mob to MW-10.

MW-10 DTW = 29.84 ft.

DTP = 34.5 ft. FLOW RATE = 260 mL/min

Time	pH	COND	TURB	DO	TEMP	ORP	DTW
1403	6.69	0.090	57.4	0.25	16.84	-47	30.61
1406	6.75	0.995	33.7	0.0	16.85	-61	30.80
1409	6.78	7.96	17.3	0.0	16.55	-63	31.28
1412	6.76	4.14	16.4	0.0	16.55	-60	31.61

1414 - Collect SAMPLE - 250 ml - HNO_3 - Metals 6020A

1416 - Decon Pump. Well pad, bollards & stickup in good condition. J-Plug & Lock present.
Purge Volume = 1.9 gallon

Rel Sec 12-26-12

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ROCKWOOL IND. - BECTON, TX

ES13. AIRS. 11 - B. SHIRLEY

1437 - Mob to MW-34-90 DTW = 29.05 ft.
DTP = 32 ft FLOW RATE: 260 mL/min

Time	pH	COND	TURB	DO	TEMP	ORP	DTW
1449	6.03	0.107	402	0.82	17.78	19	29.11
1452	6.13	0.106	268	1.84	17.40	11	29.14
1455	6.16	0.100	173	2.89	17.63	10	29.10
1458	6.18	0.101	125	3.82	17.63	11	29.10

1501 - Collect SAMPLE - 250 ml - HNO_3 - METALS 6020A

1521 - Collect Dup. 2 - 250 ml - HNO_3 - METALS 6020A

1507 - Decon Pump. Bollard & Stickup in good condition. well pad is loose. J-Plug & lock present.
Purge Volume = 1 gallon

1534 - Mob to MW-9 DTW = 28.94 ft.
DTP = 34.5 ft FLOW RATE = 290 mL/min

Time	pH	COND	TURB	DO	TEMP	ORP	DTW
1548	6.60	0.09	192	0.16	19.39	-41	28.94
1551	6.66	0.106	86.1	0.27	17.81	-48	28.94
1554	6.61	0.101	43.8	0.70	17.38	-41	28.94
1557	6.52	0.090	30.6	1.77	16.89	-40	28.94
1600	6.54	0.090	23.9	2.65	16.27	-29	28.94

1602 - Collect SAMPLE - 250 ml - HNO_3 - Metals 6020A
Purge Volume = 1.25, Bollards & Stickup in good condition. well pad is loose/leaning. J-Plug & lock present.

1606 - Decon Pump.

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Rockwool Ind. - Belton, TX

ES13.AIRS.11 - B. Shirley

~~1600~~ 1618 - Mob to MW-33-90 DTW = 30.29 ft

DTP = 38.29 ft. Flow Rate = 290 mL/min

Time	pH	Cond	Turb	DO	Temp	ORP	DTW
1631	6.02	0.090	347	3.19	14.89	39	30.36
1634	6.01	0.090	239	3.43	16.31	32	30.34
1637	6.05	0.090	177	3.40	15.95	15	30.35
1640	6.20	0.090	128	3.63	16.25	28	30.32
1643	6.21	0.090	100	3.41	16.31	27	30.33

1645 - Collect Sample - 250 ml - HNO_3 - Metals 6020A
Purge Volume = 1 gallon. Bollards & Stickup are in good condition. Well pad is loose/leaning. J-plug + lock present.

1650 - Decon Pump.

1707 - COLLECT ER-1 SAMPLE.
250 ml - HNO_3 - Metals 6020 A

1715 - Put up sampling equipment.
Fill out CoC's.

1800 - Depart Site

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Rockwool Ind. - Belton TX

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ES13.AIRS.11 - B. SHIRLEY

0730 - Arrive on site. Weather conditions: 29°F, Pt. Sunny, Winds Calm. Set up sampling equipment.

0807 - Calibrate Horiba water Quality Meter.
pH = (4 solution) = 3.99 Turb = 0.0 NTU
Cond = 0.463 s/m DO = 6.70 g/L
Temp = 10.94 °C ORP = 122 mv

0821 - Mob to MW-7 DTW = 30.34 ft
DTP = 34.5 ft. Flow Rate = 280 mL/min.

Time	pH	Cond	Turb	DO	Temp	ORP	DTW
0837	5.44	0.115	31.6	1.91	18.93	125	30.55
0840	5.71	0.117	34.7	2.06	18.74	112	30.69
0843	5.86	0.117	29.6	2.03	18.39	101	30.84
0846	5.98	0.122	27.4	1.73	17.97	90	31.01
0849	6.02	0.116	28.6	1.42	17.78	80	31.16

0851 - Collect Sample - 250 ml - HNO_3 - Metals 6020A
Purge volume = 1.0 gallons
Bollards & pad in fair condition.
J-Plug + lock present.

0855 - Decon Pump

0910 - Mob to MW-29-90

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Rockwool Ind. - Belton, TX

ES13. AIRS. II - B. SHIRLEY

MW-29-90 DTW = 27.90 Ft.

DTP = 29.50 ft. FLOW RATE = 250 ml/min

Time	pH	COND.	TURB	DO	TEMP	ORP	DTW
0930	7.40	0.090	258	0.43	16.48	-92	*
0933	7.42	0.479	222	0.22	16.79	-111	*
0936	7.42	2.32	89.7	0.0	16.58	-107	*

0939 - Collect SAMPLE - 250ml - HNO_3 - METALS 6020A
Purge Volume = ½ gallon

0944 - Decon Pump. well pad, bollards & stick up in good condition. J-plug & lock present.

1007 - Mob to MW-28-90 DTW = 30.46 ft.
~~DTP =~~ Water Column = 1.49 ft. insufficient water column for pump. Hand bail well
Purge volume = bailed dry @ ½ gallons

Pg. 95 - Collect Sample - 250 ml - HNO_3 - metals 6020A
Let well recharge. Collected sample later in the day. well pad, bollards, stick up in good condition. J-plug + lock present.

1018 - Mob to MW-27-90.

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Rockwool Ind. - Belton, TX

ES13. AIRS. II - B. SHIRLEY

MW-27-90 DTW = 34.38 Ft.
Water Column = 1.02 Ft. Insufficient water column to use bladder pump. Hand bail well. Purge volume = 1.0 gallons
Collect sample after well has recharged.

Pg. 95 - Collect Sample - 250 ml - HNO_3 - Metals 6020A

~~1038~~ - Mob to MW-30-90 DTW = ~~BS~~ ft. BS 12.27.12
MW-27-90 - well pad, stick up & bollards are in good condition. J-plug & lock in place.

1038 - Mob to MW-30-90 DTW = 27.69 ft.
Water Column = 0.71 Ft. Insufficient W.C. to use pump. Hand bail well. Collect sample ~~@~~ after well has recharged. well pad, bollards & stick up are in good condition. J-plug & lock present. Purge volume = gallon

Pg. 95 - Collect Sample - 250 ml - HNO_3 - metals 6020A

1050 - Mob to MW-16 - DTW = DRY Ft.
TD = 31.45 ft

1102 - Mob to MW-19

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Rockwool Ind. - Belton, TX

ES13. AIRS. 11 - B. SHIRLEY

MW-19 DTW = 32.16 ft.

DTP = 34 ft. Flow Rate = 225 ml/min

Time	pH	COND	DO	TEMP	ORP	DTW
~~1118~~	~~6.53~~	~~0.121~~	~~69.6~~	~~85~~	12-27-12	
Time	pH	COND	TURB	DO	TEMP	ORP	DTW
1119	6.56	0.121	63.7	3.20	16.32	7	*
1122	6.60	0.121	57.0	3.30	17.06	3	*
1125	6.62	0.122	53.7	3.20	16.95	-1	*

1128 - Collect SAMPLE - 250 ml - HNO_3 - Metals - 6020A
Purge Volume = 1/2 gallon. Well pad, bollards & stick up are in good condition. J-plug & Lock present.

1133 - Decon Pump. * - Water level was below top of pump

1144 - Mob to MW-24-90 DTW = 33.53 ft.

DTP = 37.5 ft. Flow Rate = 250 ml/min

Time	pH	COND	TURB	DO	TEMP	ORP	DTW
1200	6.29	0.131	228	2.45	16.60	26	33.76
1203	6.40	0.129	206	3.03	16.76	19	33.80
1206	6.43	0.129	197	3.17	17.06	16	33.85
1209	6.44	0.126	170	3.23	17.17	13	33.89

1211 - Collect SAMPLE - 250 ml - HNO_3 - Metals - 6020A
Purge Volume = 3/4 gallon. Bollards & stick up are in good condition. Well pad is broke. J-plug & Lock are Present. 1215 - Decon Pump. Casing down hole is most likely broke see photos 1344.

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Rockwool Ind. - Belton, TX

ES13. AIRS. 11 - B. SHIRLEY

1254 - Mob to MW-20 DTW = 32.15 Ft.

DTP = 37.0 Ft. Flow Rate = 250 ml/min

Time	pH	COND	TURB	DO	TEMP	ORP	DTW
1317	6.32	0.138	205	0.79	20.21	21	32.50
1320	6.63	0.441	165	0.36	18.48	-6	32.58
1323	6.69	0.850	111	0.0	18.21	-11	32.61
1326	6.72	0.900	83.2	0.0	18.18	-13	32.65
1329	6.73	0.950	61.3	0.0	17.55	-13	32.68

1332 - Collect Sample - 250 ml - HNO_3 - Metals 6020 A
Purge Volume = 1.0 gallons. Well pad, Bollards & Stick up are in good condition. J-plug & lock present.

1335 - Decon Pump

1350 - Mob to MW-15 DTW = DRY (?) Ft.
Appears to be some sort of obstruction at the 19.10 ft depth. Possibly tree roots inside the casing. Well pad, Bollards and Stick up are in good condition. J-plug and Lock are present.

1405 - Mob to MW-20 ~~22~~

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(92) Rockwool Ind. - Belton, TX

ES13 - AIRS. 11 - B. SHIRLEY

MW-22 DTW = 11.57 Ft.

DTP = 14.00 ft. Flow Rate = 300 mL/min

Time	pH	COND	TURB	DO	TEMP	ORP	DTW
1416	6.32	0.120	158	3.48	21.23	46	*
1419	6.54	0.130	101	3.07	18.13	26	*
1422	6.56	0.141	35.7	1.29	17.93	19	*
1425	6.60	0.143	33.0	0.93	17.57	13	*

1427 - Collect SAMPLE - 250 ml - HNO_3 - Metals - 6020A Purge Volume = 3/4 gallons. Well pad & stick up (well protector) in good conditions No bollards present. J plug & lock present.

1431 - Decon Pump. ~~* MS/MSD collected.~~

1457 - Mob to MW-21 DTW = 10.08 Ft.

DTP = 15.0 ft. Flow Rate = 300 mL/min

Time	pH	COND	TURB	DO	TEMP	ORP	DTW
1500	6.55	0.090	58.7	1.71	17.47	29	10.51
1503	6.56	0.090	36.3	1.73	17.68	22	10.83
1506	6.57	0.090	21.4	1.29	17.83	21	11.04

1510 - Collect SAMPLE - 250 ml - HNO_3 - metals 6020A

1445 - Collect DUP-1 - 250 ml - HNO_3 - metals 6020A

1515 - Decon Pump. Well pad + stick up ave in good condition. No bollards present. J-plug & Lock present. PV = 3/4 gallon

1531 - Mob to MW-38-90

B. Shirley 12-27-12

12-27-12

(93) Rockwool Ind. - Belton, TX

ES13. AIRS. 11 - B. SHIRLEY

MW-38-90 DTW = 10.19 ft.

DTP = 12.00 ft. Flow Rate = 300 mL/min

Time	pH	COND	TURB	DO	TEMP	ORP	DTW
1542	6.40	0.154	84.6	2.24	16.93	32	*
1545	6.54	0.159	78.6	1.77	17.61	22	*
1548	6.62	0.181	73.8	0.76	17.57	15	*
1551	6.68	0.175	69.8	0.57	17.33	7	*

1553 - Collect Sample - 250 ml - HNO_3 - Metals - 6020A Purge Volume = 3/4 gallon. Well pad & stick up are in good condition. No bollards J-plug & lock are present.

1556 - Decon Pump. * - WL is below top of pump

1605 - Mob to MW-37-90 DTW = 19.08 Ft.

DTP = 23.0 ft. Flow Rate = 300 mL/min

Time	pH	Cond	TURB	DO	TEMP	ORP	DTW
1617	1.61	0.142	38.2	0.06	18.08	-114	19.40
1620	1.64	0.155	29.6	0.0	17.78	-120	19.54
1623	1.69	0.577	23.2	0.0	17.59	-126	19.52

1625 - Collect Sample - 250 ml - HNO_3 - Metal 6020A Purge Volume = 3/4 gallon. Well pad & stick up are in good condition. J-plug & Lock are present. No bollards.

1628 - Decon Pump

1640 - Mob to MW-35-90.

B. Shirley 12-27-12

(94) 12-27-12

Rockwool Ind. - Belton, TX

ES13. AIRS. 11 - B. SHIRLEY

MW-35-90 DTW = 16.72 ft. ~~pS~~

~~DTP = ft. Flow Rate = ml/min. pS~~

~~Time pH Cond Turb DO Temp ORP DTW~~

water Column = 0.58 ft. Insufficient water Column to use pump. Hand bail well dry. Collect sample on 12-28-12. Bailed dry @ < 0.25 gallons.

1655 - Mob to Central Property.

1710 - Collect ER-2 - 250ml-HNO_3-Metals-6020A

1715 - Put sampling equipment away. Fill out Lab COC's Transfer decon water into onsite 55 gallon drum.

1800 - Depart site.

B. Shirley 12-27-12

12-28-12 (95)

Rockwool Ind. - Belton, TX

ES13. AIRS. 11 - B. SHIRLEY

0730 - Arrive on site. Collect samples from all hand bailed wells:

0755 - MW-28-90 - 250ml-HNO_3 - Metals 6020A

0809 - MW-27-90 - 250ml-HNO_3 - Metals 6020A

0816 - MW-30-90 - 250ml-HNO_3 - Metals 6020A

0905 - MW-35-90 - 250ml-HNO_3 - Metals 6020A

X MS/MSD was collected @ MW-21

0925 - Fill out Lab COC's. Load up sampling Equipment. Label waste water drum. (1) ½ full & (1) empty.

1015 - Depart site. Travel to DHL Analytical in Round Rock.

DHL COC's # 58288 & 58289.

DHL WO # 0184165

1103 - Clear off sampler. Return to office.

B. Shirley 12-28-12

(96) 3-4-13

Rockwool Ind. - Belton, TX

ES13. AIRS. 11 - B SHIRLEY

1515 - Arrive on site. Unload Equipment.

1615 - Depart site

Gauging Data: (3-5-13)

WELL ID	DTW (ft)	TD (ft)	Date of Sample Collection / Time
MW-7	31.02	35.1	3-5-13 / 1410
MW-9	28.61	35.1	3-5-13 / 1202
MW-10	31.15	35.0	3-5-13 / 1045
MW-11	33.56	35.65	3-5-13 / 1008
MW-14	32.09	41	3-5-13 / 0819
MW-16	DRY	31.5	N/A / N/A
MW-17	26.25	31.5	3-5-13 / 0919
MW-19	32.12	34.3	3-5-13 / 1659
MW-24-90	33.72	40.63	3-5-13 / 1735
MW-27-90	34.44	35.4	3-5-13 / 1557
MW-28-90	30.23	31.64	3-5-13 / 1523
MW-29-90	*2285	29.92	3-5-13 / 1448
MW-30-90	27.63	28.4	3-6-13 / 0814
MW-33-90	29.94	33.0	3-5-13 / 1339
MW-34-90	28.74 (Dup-2)	32.5	3-5-13 / 1120
Dup-1 (MW-21)			3-6-13 / 1008
Dup-2 (MW-34-90)			3-5-13 / 1120
ER-1			3-5-13 / 1459
ER-2			3-6-13 / 1309
MW-18	32.42	34.22	3-6-13 / 0747

3-5-13

(97)

Rockwool IND. - BELTON, TX

ES13. AIRS. 11 - B. SHIRLEY

0645 - Arrive on site.

Gauging Data (NORTH PROPERTY)

WELL ID	DTW (Ft)	TD (Ft)	Date of Sample Collection / Time
MW-15	casing plugged @ 19.1 ft TOC	?	N/A
MW-20	32.24	39.2	3-6-13 / 0908
MW-21 (Dup-1)	9.75	15.5	MS/MSD 3-6-13 / 1037
MW-22	11.04	14.56	3-6-13 / 0949
MW-35-90	15.22	16.72	3-6-13 / 1251
MW-36-90	casing plugged/collapsed?		N/A
MW-37-90	16.15	26.3	3-6-13 / 1209
MW-38-90	7.72	12.33	3-6-13 / 1125

0650 - Set up sampling equipment

0725 - Calibrate Horiba U-52 multi water Quality Meter. using Auto Calibration

pH	Cond (mS/cm)	TURB (NTU)	DO (g/L)	Temp (°C)	ORP (mV)
4.01	4.42	0.0	9.80	-	0 mV

0744 - Mob to [MW-14] DTW = 32.09 ft.

TD = 35.5 ft - Flow Rate = 300 ml/min.

Time	pH	Cond	TURB	DO	Temp	ORP	DTW
0808	6.65	1.07	113	8.77	19.05	154	32.47
0811	6.74	1.07	91.6	8.79	19.11	146	32.46
0814	6.69	1.05	34.5	9.10	19.25	143	32.49

0819 - collected sample: metals 250 ml - HNO_3 6020A

Bob Shirley 3-5-13

(98)

3-5-13

Rockwool Ind. - Belton, TX

ES13. AIRS. 11 - B. SHIRLEY

0825 - Decon Pump.

0845 - MOB to MW-17 DTW = 26.25 ft.

DTPI = 30.0 ft. Flow Rate = 290 ml/min

Time	Temp	pH	ORP	COND	TURB	DO	DTW (ft)
0905	19.46	6.63	43	1.24	(0)	1.77	26.74
0908	19.31	6.71	43	1.18	48.6	1.33	27.02
0911	19.17	6.69	57	1.09	11.5	1.72	27.22
0914	19.82	6.68	60	1.06	12.7	1.56	27.59
0917	18.87	6.64	65	1.07	29.4	1.30	27.94

0919 - Collect Sample - Metals 6020A - 250 ml - HNO_3

Purge volume 1.25 gal

0925 - Decon Pump

0937 - MOB to MW-11 DTW = 33.56 ft.

DTPI = 35.4 ft. Flow Rate = 170 ml/min

Time	Temp	pH	ORP	COND	TURB	DO	DTW (ft)
0958	18.27	6.98	-25	1.26	0	3.36	below top of Pump
1001	18.28	6.96	-35	1.26	0	3.27	"
1004	18.25	6.90	-37	1.25	0	3.16	"

1008 - Collect SAMPLE - Metals - 6020A - 250ml - HNO_3

PV = 0.25 gallon

1015 - Decon Pump.

1025 - MOB to MW-10.

3-5-13

(99)

PHOTO LOG: Rockwool Ind.

ES13. AIRS. 11

3-5-13

1. UKG EAST - Low-flow MW-14.
2. UKG EAST - Low-Flow - MW-17.
3. Ukg east - low flow - MW-11
4. Ukg east - low flow - MW-10
5. Ukg north - low flow - MW 34-90
6. UKG North - Low flow - MW-9
7. Ukg north - low flow - MW-33-90
8. Ukg northwest - low flow - MW-29-90
9. UKG North - Low Flow - MW-27-90
10. UKG South - Low Flow - MW-19

3-6-13

11. UKG SW - Low Flow - MW-18
12. UKG N - Low flow - MW-18
13. UKG West - Low flow - MW-20
14. UKG South - Low Flow - MW-22
15. UKG South - Pump Decon - MW-21
16. UKG West - Low Flow - MW-38-90
17. UKG SE - Low flow - MW-37-90
18. UKG South - Low flow - MW-35-90

3-6-13

3-5-13

Rockwool Ind. - Belton, TX

ES13. AIRS. 11 - B. SHIRLEY

MW-10 DTW = 31.15 Ft.

DTPI = 31.83 ~~35.5~~ ft. Flow Rate = 290 ml/min

Time	Temp	pH	ORP	COND	TURB	DO	DTW
1037	19.59	6.84	29	0.890	0	1.94	32.15
1040	20.19	6.81	-13	0.890	0	1.16	32.54
1043	20.31	6.91	-17	0.892	0	1.12	32.92

1045 - collect sample - metals - 6020A - HNO_3 - 250ml

PV = 0.5 gallon

1050 - Decon Pump

1057 - Mob to MW MW-39-90

DTW = 28.74 Ft. DTPI = 32.0 ft.

Flow Rate = 290 mL/min

Time	Temp	pH	ORP	COND	TURB	DO	DTW
1108	19.61	6.63	64	1.08	55.9	3.71	28.78
1111	20.35	6.72	73	1.02	13.3	5.61	28.78
1114	20.45	6.62	82	0.999	1.3	7.86	28.78
1117	20.66	6.72	93	0.987	0	7.20	28.78

1120 - collect sample - metals - 6020A - HNO_3 - 250ml

1100 - collect DUP-2 - metals - 6020A - HNO_3 - 250ml

* denote time on COC as 1100

PV = 1 gallon

1125 - Decon Pump

1135 - Mob to MW-9

Bob Slin 3-5-13

3-5-13

Rockwool Ind. - Belton, TX

ES13. AIRS. 11 - B. SHIRLEY

MW-9 DTW = 28.62 Ft

DTPI = 34.5 ft Flow Rate = 295 ml/min

Time	Temp	PH	ORP	COND	TURB	DO	DTW
1153	20.15	6.75	113	0.914	0	4.00	28.62
1157	20.80	6.72	111	0.911	0	3.48	28.62
1200	20.59	6.70	112	0.908	0	3.72	28.62

1202 - Collect Sample - Metals 6020A 250 ml - HNO_3

PV = 1/2 gallon

1205 - Decon Pump

1220 - Clean - Depart site

1320 - Return. Mob to MW-33-90

DTW - 29.94 Ft. DTPI - 32.5 ft. Flow Rate = 290 ml/min

Time	Temp	pH	ORP	COND	TURB	DO	DTW
1328	20.06	6.65	145	0.971	220	9.80	29.94
1331	20.80	6.60	142	0.969	100	10.00	29.96
1334	21.00	6.73	137	0.967	35.9	10.49	29.94
1337	21.02	6.60	145	0.960	1.8	10.75	29.96

1339 - collect sample - metals 6020A - 250ml - HNO_3

PV = 1 gallon

1343 - Decon Pump.

- Mob to MW-7

Bob Slin 3-5-13

(102) Rockwool Ind. - Belton, TX 3-5-13

ES13 AIRS. 11 - B. Shirley

MW-7 DTW = 30.26 ft. DTPI = 34.5 ft.

Flow rate = 300 mL/min

Time	Temp	pH	ORP	COND	TURB	DO	DTW
1400	21.29	6.71	133	0.979	0	11.54	30.42
1403	22.09	6.62	134	0.993	0	11.19	30.63
1406	22.25	6.62	132	0.991	0	11.09	30.80
1409	22.26	6.64	131	0.933	0	11.39	31.02

1410 - collect sample - metals 6020A 250mL-HNO_3

PV = 1 gallon

1417 - Decon Pump

Mob to MW 29-90

MW 29-90 DTW = 27.85 ft

DTPI = 29.50 ft Flow Rate = 365 $\frac{mL}{min}$

Time	Temp	pH	ORP	COND	TURB	DO	DTW
~~* insufficient water column to use pump~~ BS 3-5-13							
1439	21.44	6.65	-3	0.879	34.3	2.53	*
1442	21.52	6.77	-3	0.833	65.2	2.25	*
1445	21.40	6.73	4	0.843	28.5	2.09	*

1448 - collect sample - metals 6020A 250mL - HNO_3

PV = 0.5 gallon

1452 - Decon pump

Mob to MW-28-90

* - Depth to water was not gauged during purging - WL was below top of pump

BS 3-5-13

(103) Rockwool Ind. - Belton, TX

ES13. AIRS. 11 - B SHIRLEY

MW-28-90 DTW = 30.23 ft

DTPI = 31.80 ft Flow Rate = 300 $\frac{mL}{min}$

Time	Temp	pH	ORP	COND	TURB	DO	DTW
1514	20.30	6.89	82	1.01	0	6.67	*
1517	20.39	6.89	62	1.06	0	8.06	*
1520	20.50	6.82	76	1.08	0	11.92	*

1523 - collect sample - metals 6020A 250mL HNO_3

PV = 0.25 gallon

1528 - Decon Pump

Mob to MW 27-90

MW 27-90 DTW = 34.44 ft

DTPI = 35.1 ft Flow Rate = 110 $\frac{mL}{min}$

Time	Temp	pH	ORP	COND	TURB	DO	DTW
1547	19.61	6.85	107	1.15	3.3	10.15	*
1550	19.48	6.79	111	1.20	5.3	11.12	*
1553	19.63	6.76	114	1.23	0	11.45	*

1557 - collect sample - metals - 6020A - 250mL - HNO_3

PV = 0.25 gallon

1602 - Decon Pump

1610 - Recover MW-18 - Call Billy Gamblin. Gauge DTW = 32.42

TD = 34.22 ft.

1620 - Mob to MW-30-90.

B Shirley 3-5-13

(104) 3-5-13

Rockwool Ind. - Belton, TX

ES13. AIRS. 11 - B. SHIRLEY

MW-30-90 - Insufficient water column to use bladder pump. Hand Bail well - PV = 0.25 gallons

1635 - Mob to ~~MW-19~~ MW-16

DTW = DRY TD = 31.47 ft.

1646 - Mob to MW-19 DTW = 32.12 ft.

DTPI = 34 ft. Flow Rate = 240 ml/min

Time	Temp	pH	ORP	COND	TURB	DO	DTW
1650	19.32	6.75	+29.29	1.08	6.0	7.25	*
1653	19.76	6.84	134	1.04	0	11.78	*
1656	19.88	6.74	134	1.03	0	12.30	*

1659 - Collect Sample - Metals 6020A - 250 ml - HNO_3

PV = 1/2 gallon.

1703 - Decon Pump.

* - DTW was not gauged during purge - WL was below Top of Pump

1712 - Mob to MW-24-90 DTW = 33.72 ft.

DTPI = 37.2 ft. Flow Rate = 285 ml/min

Time	Temp	pH	ORP	COND	TURB	DO	DTW
1724	19.18	6.82	141	1.07	7.0	7.33	33.87
1727	19.74	6.68	137	1.08	21.4	6.48	34.02
1730	19.90	6.67	144	1.08	2.5	6.42	34.00
1733	20.04	6.65	144	1.07	0.0	6.45	34.02

1735 - Collect Sample - Metals 6020A - 250 ml - HNO_3

Eric Sley - 3-5-13

(105) 3-5-13

Rockwool Ind. - Belton, TX

ES13. AIRS. 11 - B. SHIRLEY

MW-24-90 - PV = 1 gallon

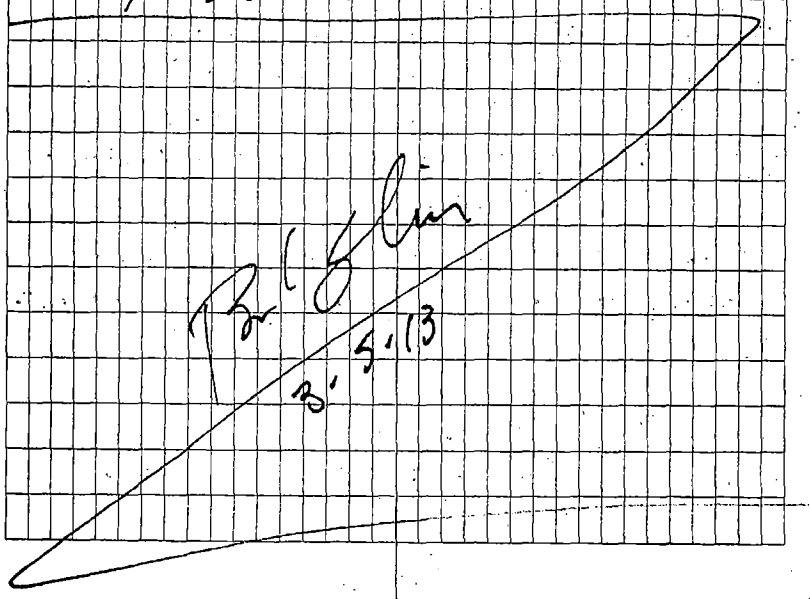
1740 - Decon Pump

1759 - Collect ER-1 Sample

Metals 6020A - 250 ml - HNO_3

1807 - Unload equipment & transfer waste/purge water from 55 gallon drum on work truck to on site 55 gallon drum.

1830 - Depart site. Travel to motel



3-6-13

Rockwool Ind. - Belton, TX

ES13. AIRS.11 - B. SHIRLEY

0645 - Arrive on site. Load up field/Gw sampling equipment.

0705 - Calibrate Horiba U-52 multi meter/Quality meter. Using pH 4 Cal. Sol.

Temp	pH	Cond (mS/cm)	Turb (NTU)	DO (g/L)	ORP (mV)
	3.99	9.58	0.8	12.14	0

0712 - Mob to MW-18 DTW = 32.43 ft.

DTPI = 34.00 ft. Flow Rate = 70 mL/min

Time	Temp	pH	ORP	Cond	Turb	DO	DTW
0735	10.77	6.60	-16	1.75	179	10.35	*
0738	11.41	6.68	-19	1.72	220	11.07	*
0741	11.63	6.68	-18	1.70	222	10.13	*

0747 - Collect SAMPLE - Metals 6020A - 250mL - HNO_3

PV = 0.1 gallon

* - Depth to water was not measured during while purging MW due to WL being below top of pump.

0753 - Decon Pump

0804 - Mob to MW-30-90

0814 - Collect SAMPLE - Metals 6020A - 250 mL - HNO_3

B. Shirley 3-6-13

3-6-13

Rockwool Ind. - Belton, TX

ES13. AIRS.11 - B. SHIRLEY

0820 - Mob to MW-20 DTW = 32.24 ft.

DTPI = 32.0 ft. Flow Rate = 290 mL/min

Time	Temp	pH	ORP	Cond	Turb	DO	DTW
0854	12.53	6.69	4	1.42	160	9.60	32.52
0857	16.40	6.51	12	1.30	138	9.10	32.78
0900	17.55	6.48	19	1.26	80.4	9.12	32.71
0903	18.31	6.45	19	1.23	40.4	8.82	32.86
0906	18.71	6.42	30	1.23	13.9	8.57	32.79

0908 - Collect Sample - Metals 6020A - 250 mL - HNO_3

PV = 1.0 gallon

0912 - Decon Pump

0928 - Mob to MW-22 DTW = 11.04 ft.

DTPI = 14.2 ft. Flow Rate = 290 mL/min

Time	Temp	pH	ORP	Cond	Turb	DO	DTW
0941	16.48	6.84	58	1.08	0.0	9.87	*
0944	16.72	6.77	74	1.01	14.9	10.45	*
0947	16.77	6.76	76	0.964	34	10.90	*

0949 - Collect Sample - Metals 6020A - 250 mL - HNO_3

PV = 5/4 gallon

* - Depth to water was not gauged due while Purging MW due to water level being below the top of pump.

0955 - Decon Pump

1010 - Mob to MW-21

B. Shirley 3-6-13

Rockwool Ind. - Belton, TX

ES13. AIR5.11 - B. SHIRLEY

MW-21 DTW = 9.75 ft. DTPI = 15.0 Ft.

Flow Rate = 305 mL/min

Time	Temp	pH	ORP	Cond	Turb	DO	DTW
1020	17.02	6.76	80	0.701	112	9.43	10.07
1023	17.74	6.63	81	0.632	16.5	9.53	10.34
1026	17.87	6.75	79	0.620	0.0	10.57	10.54
1029	17.94	6.72	79	0.615	0.0	10.54	10.87
1032	17.91	6.74	77	0.611	0.0	10.74	11.18

1037 - Collect Sample - Metals 6020A - 250ml - HNO_3

* - Collect MS/MSD

1008 - Collect Dup-1 (Note Collection Time on Lab COC as 1008). PV = 1.25 gallons

1047 - Decon Pump.

1058 - Mob to MW-38-90 DTW = 7.72 ft.

DTPI = 12.00 ft. Flow Rate = 295 mL/min

Time	Temp	pH	ORP	Cond	Turb	DO	DTW
1110	17.39	6.94	86	1.17	93.4	9.71	7.94
1113	17.41	6.75	91	1.31	31.0	10.16	8.23
1116	17.28	6.86	84	1.29	13.6	10.03	8.78
1119	17.26	6.88	84	1.26	11.0	10.04	9.11
1122	17.29	6.88	84	1.27	0.6	9.62	9.52

1125 - Collect Sample - Metals 6020A - 250ml - HNO_3

PV = 1.25 gallons

1130 - Decon Pump

3-6-13

Rockwool Ind. - Belton, TX

ES13. AIR5.11 - B. SHIRLEY

1140 - Mob to MW-37-90 DTW = 16.15 ft.

DTPI = 22 Ft. Flow Rate = 295 mL/min

Time	Temp	pH	ORP	Cond	Turb	DO	DTW
1156	19.17	6.92	82	0.944	21.2	8.88	16.56
1159	20.53	6.83	55	0.877	11.6	8.93	16.65
1202	20.90	6.81	-26	0.870	0.0	8.88	16.67
1205	21.02	6.76	-60	0.872	0.0	8.73	16.67

1209 - Collect Sample - Metals 6020A - 250ml - HNO_3

PV = 1.25 gallons

1214 - Decon Pump.

1225 - Mob to MW-35-90 DTW = 15.22 ft.

DTPI = 16.6 ft. Flow Rate = 275 mL/min

Time	Temp	pH	ORP	Cond	Turb	DO	DTW
1242	20.57	6.91	-68	0.876	0.0	8.92	*
1245	20.42	6.88	-39	0.874	0.0	9.11	*
1248	20.48	6.87	-16	0.884	0.0	9.12	*

1251 - Collect Sample - Metals 6020A - 250ml - HNO_3

PV = 3/4 gallon

* - Depth to water not gauged during calculated purging MW due to water level being below top of pump.

1257 - Decon Pump

1309 - Collect ER-2 - Metals 6020A - 250ml - HNO_3

3-6-13

(110) 3-6-13

Rockwood Ind. - Belton, TX
ESB - AIRS II - B. SHIRLEY

1315 - Mob to Central Property.
1325 - Transfer purge water to onsite drum. Load up Field sampling equipment

ONSITE WASTE:
(2) Drums on site.
(1) full
(1) empty.

1426 - Prepare samples for shipping
Fill out COC's
DHL COC #'s 58573 + 58572

1445 - Depart site - Travel to DHL
1535 - Drop off samples. Return to office.

3-6-13

(111)

ROCKWOOD [illegible]
ESB - AIRS II S. EATMAN - VEG REMOVAL
0745 LOAD & MOB TO N. SITE
0900 MEET CITY OF [illegible] P. WORKS STAFF (JEFF) TO OPEN GATES
0930 WALK THE PROPERTY, ACB [illegible] VOLUNTARY
1000 E² CREW ARRIVE; TALK TO BILLY
1010 TAILGATE SAFETY MEETING
CREW: PATRICK LAWYER
GERALD CORONADO (ALL)
JOHN PRUEDLER
1030 WALK THE SITE, QUESTIONS
- CLEAR ALL EMBANKMENT OR JUST WHERE ACB IS? (SOME PATCHY AREAS, ROOTS) TO GO ALL THE WAY TO EAST FENCE.
- JOHN ASKED IF WE NEED A CHIPPER OR IF USING A MOWER/ TRACTOR OVER IT (BRUSH) IS OK
1045 CALL BILLY, ONLY ACB, TRY W/O CHIPPER
1100 (OPEN BREAK FOR LUNCH)
1145 RETURN TO SITE
UNLOAD EQUIPMENT:
- TRACTOR MOWER, WEEDWHACKERS
CHAINSAW

(122) 6-10-13

ROCKWOOL - Belton, TX

ES13. AIRS. 11 - B. SHIRLEY

GWM EVENT #3

0915 - Arrive on site. Set up sampling equipment

1044 - Calibrate Horiba U-52 Multi-Meter w/ 4.0 Auto-Cal.

pH = 4.02 pH

COND = 4.52 ms/cm

TURB = 0.0 NTU

DO = 9.39 mg/L

Central Prop. Gauging DATA TABLE:

WELL ID	DTW (ft)	TD ft	Sample Collection DATE / Time
MW-7	30.12	~~35.0~~ 35.1	6-10-13 / 1620
MW-9	28.23	~~34.5~~ 35.1	6-11-13 / 1128
MW-10	32.47	~~34.5~~ 35.0	6-10-13 / 1231
MW-11	34.02	35.65	6-10-13 / 1313
MW-14	30.83	41	6-10-13 / 1353
MW-16	DRY	31.5	N/A
MW-17	26.16	31.5	6/11/13 / 0906
MW-18	33.31	~~34.90~~ 39.25	6-10-13 / 1446
MW-19	32.03	34.3	6-10-13 / 1534
MW-24-90	33.67	40.63	6-10-13 / 1705
MW-27-90	~~39.36~~ 34.34 re-sample	35.4	6-11-13 / 0946
MW-28-90	30.10	31.84	6-10-13 / 1752

B. Shirley 6-10-13

6-10-13 (123)

ROCKWOOL - BELTON, TX

ES13. AIRS. 11 - B. SHIRLEY

Central Prop. Gauging DATA TABLE CONT.:

Well ID	DTW (ft)	TD (ft)	Sample Collection DATE / Time
MW-29-90	27.79	29.92	6-11-13 / 0807
MW-30-90	27.59	28.4	6-10-13 / 1830
MW-33-90	29.55	33.0	6-11-13 / 1022
MW-34-90 *	28.36	32.5	6-11-13 / 1053
DUP-2 (MW-34-90) *			6-11-13 / 1108
ER-1			6-10-13 / 1837
ER-2			6-11-13 / 1715

NORTH PROPERTY GAUGING TABLE:

WELL ID	DTW (ft)	TD (ft)	Sample Collection DATE / Time
MW-15	well obstructed		N/A
MW-20	32.13	39.2	6-11-13 / 1500
MW-21 *	9.62	15.5	6-11-13 / 1547
MW-22	10.79	14.56	6-11-13 / 1426
MW-35-90	13.91	16.72	6-11-13 / 1654
MW-37-90	15.03	26.3	6-11-13 / 1359
MW-38-90	7.52	12.33	6-11-13 / 1626
* DUP-1 (MW-21)			6-11-13 / 1557
ER-2			6-11-13 / 1715

SAMPLING ORDER: CENTRAL PROPERTY: 10, 11, 14, 30, 18, 19, 7, 24, 28, 29, 17, 27, 33, 34, 9

NORTH PROPERTY: 37, 22, 20, 21, 38, 35

B. Shirley 6-10-13

6-10-13

Rockwool - BECTON, TX

E513. AIRS. 11 = BSHIRLEY

MW-10 DTW = 32.47 Ft.

DTPI = 34.5 Ft. Flow Rate = 290 mL/min

Time	Temp °C	pH	ORP mV	COND mS/cm	TURB NTU	DO mg/L	DTW *	* below tip
1216	23.64	7.87	-151	0.869	26.3	9.13	*	
1219	22.97	7.46	-118	0.880	16.3	8.31	*	
1222	23.01	7.37	-108	0.884	9.4	11.26	*	
1225	23.16	7.28	-79	0.889	6.6	5.40	*	
1228	23.17	7.25	-62	0.892	0.7	6.58	*	

1231 - Collect Sample - 250ml - HNO_3 - Metals 6020

1239 - Decon Pump - PV = 1/2 gallon

MW-11 DTW = 34.02 Ft. DTPI = 35.5 ft.

FLOW RATE = 235 mL/min

Time	Temp °C	pH	ORP mV	COND mS/cm	TURB NTU	DO mg/L	DTW
1259	25.91	7.03	-14	1.10	14.4	7.83	*
1302	24.67	6.75	-21	1.17	16.1	6.17	
1305	24.56	6.64	-14	1.18	10.6	5.02	
1308	24.50	6.61	-13	1.18	5.0	6.30	

1313 - Collect Sample - 250ml - HNO_3 - Metals 6020

1320 Decon Pump - PV = 0.25 gallon

B Shirley 6-10-13

6-10-13

Rockwool - BECTON, TX

E513. AIRS. 11 - BSHIRLEY

MW-14 DTW = 30.83 Ft. DTPI = 36.0 ft.

FLOW RATE = 400 mL/min

Time	Temp °C	pH	ORP mV	COND mS/cm	TURB NTU	DO mg/L	DTW
1342	24.77	6.00	[illegible]79	0.890	61.2	9.71	31.16
1345	22.65	5.93	132	0.841	68.1	8.44	31.29
1348	22.16	5.88	151	0.844	47.7	11.37	31.31
1351	21.90	5.87	164	0.838	15.3	11.12	31.34

1353 - Collect Sample - 250 ml - HNO_3 - Metals 6020

1358 - DECON PUMP - PV = 1.00 gallon

MW-30-90 DTW = 27.59 ft.

Hand bail w/ bailer - insufficient water to recover to collect pump.

PV = 1/2 gallon

1830 - Collect Sample - 2@250ml - HNO_3 - Metals 6020.

B Shirley 6-10-13

(126)

6-10-13

B Rockwool - Becton, TX

ES13.AIR5.11 - B. SHIRLEY

PHOTO LOG:

Photo ID	DESCRIPTION
(1)	MW-14 - LKG SW - Low Flow
(2)	MW-18 - LKG South - Low Flow
(3)	MW-18 - LKG South - Low Flow
(4)	MW-19 - LKG West - Low Flow
(5)	MW-7 - LKG North - Low Flow
(6)	MW-24-90 - LKG North - Low Flow
(7)	MW-28-90 - LKG North - Low Flow
	6-11-13
(8)	MW-29-90 - LKG North - Low Flow
(9)	MW-27-90 LKG SW - low flow
(10)	MW-33-90 LKG S - low flow
(11)	MW-34-90 - LKG SE - Low Flow
(12)	MW-9 - LKG NE - low flow
(13)	MW-22 - LKG SE - low flow
(14)	MW-20 - LKG NE - low flow
(15)	MW-21 - LKG N - Low Flow
(16)	MW-38-90 - LKG SW - Low flow
(17)	MW-35-90 - LKG S - low flow
	6-12-13
(18)	IDW onsite Waste.

(127)

6-10-13

Rockwool - Becton, TX

ES13.AIR5.11 - B. SHIRLEY

MW-18 DTW = 33.31 Ft. DTPI = 34.2

Flow Rate = 290 mL/min

Time	Temp °C	pH	ORP mV	Cond mS/cm	Turb NTU	DO mg/L	DTW
1436	25.10	5.98	-18	2.68	800+	2.07	34.91
1439	23.36	5.87	-6	2.65	542	0.94	35.66
1442	23.29	5.85	-10	241	800+	1.07	36.18
1445	23.02	5.81	~~-35~~ -10	294	800+	1.01	36.39
1446 - Collect Sample - 250 ml - HNO_3 - Metals 6020							
1452 - Decon Pump - PV = 1 gallon							

MW-19 DTW = 32.03 DTPI = 34

Flow Rate = 260 mg/L

Time	Temp °C	pH	ORP mV	Cond mS/cm	Turb NTU	DO mg/L	DTW
1523	25.53	5.93	106	1.04	54.6	6.09	X below top of pump
1526	23.34	5.75	133	0.975	12.5	6.91	X
1529	22.49	5.72	147	0.908	4.8	7.11	X
1532	22.41	5.72	154	0.965	0.1	7.02	
1534 - Collect Sample - 250 ml - HNO_3 - Metals 6020							
1538 - Decon Pump - PV = ½ gallon							
1546 - Move to MW-7							

B/S

6-10-13

6-10-13

Rockwool - Belton, TX

ES13. AIRS. 11 - B. SHIRLEY

GWM EVENT #3

MW-7 DTW = 30.12 Ft. DTPI = 34.5 Ft

Flow Rate = 410 mL/min

Time	Temp °C	pH	ORP mV	COND mS/cm	TURB NTU	DO mg/L	DTW
1605	25.71	6.51	131	0.952	18.5	4.86	30.27
1608	24.44	6.42	136	0.948	1.9	10.61	30.35
1611	23.96	6.37	137	0.960	0.8	3.20	30.39
1614	23.92	6.27	141	0.963	0.0	2.41	30.44
1617	23.97	6.30	138	0.956	0.0	1.99	30.47

1620 - Collect Sample - 250 ml - HNO_3 - Metals 6020

1623 - Decon Pump - PV = 1½ gallons

MW-24-90 DTW = 33.67 Ft DTPI = 37

Flow Rate = 285 mL/min

Time	Temp °C	pH	ORP mV	COND mS/cm	TURB NTU	DO mg/L	DTW
1649	25.37	6.60	141	1.01	34.9	6.30	33.92
1652	23.61	6.51	151	1.01	22.3	5.97	33.97
1655	22.57	6.49	151	1.02	1.2	5.56	34.03
1658	22.52	6.43	155	1.01	0.0	5.53	34.08
1701	22.39	6.43	154	1.02	0.0	5.54	34.16

1703 - Collect Sample - 250ml - HNO_3 - Metals 6020

1705 - Decon Pump - PV = 1¼ gallons

BJS 6-10-13

6-10-13

Rockwool - Belton, TX

ES13. AIRS. 11 - B. SHIRLEY

GWM EVENT #3

MW-28-90 DTW = 30.10 ft DTPI = 31.8

Flow Rate = 240 mL/min

Time	Temp °C	pH	ORP mV	COND mS/cm	TURB NTU	DO mg/L	DTW
1739	26.54	6.70	150	1.02	9.6	7.44	*
1742	24.27	6.61	156	0.982	10.2	8.30	*
1745	23.79	6.60	158	1.01	6.2	7.70	*
1748	23.60	6.58	160	1.06	1.9	6.88	*

* W/ Below TOP of Pump

1752 - Collect Sample - 250 ml - HNO_3 - Metals 6020

1755 - Decon Pump - PV = 1½ gallon

1815 - Unload sampling equipment

1817 - End of Day Cal Check

pH = 6.00

COND = 6.52 ms/cm

TURB = 0.0 NTU

91.5 mg/L DO

1830 - Collect Sample - MW-30-90

1837 - Collect EB-1. 250 ml HNO_3 - Metals 6020

1845 - Depart Site.

BJS 6-10-13

(130) 6-11-13

Rockwool - Belton, TX
ESI3. AIRS. 11 - B. STURLEY
GWM Event #3

0700 - Arrive on site. Set up sampling equipment.
0715 - Calibrate Horiba
pH = 4.02
COND = 2.25 ms/cm
TURB = 0.0 NTU
DO = 9.00 mg/L

MW-29-90 DTW = 27.79 Ft. DTPI = 29.80
Flow Rate = 225 mL/min

Time	Temp °C	pH	ORP mV	COND ms/cm	TURB NTU	DO mg/L	DTW
0754	23.03	6.62	-39	0.799	139	2.10	* WL below top of pump
0757	22.54	6.67	30	0.815	209	1.40	*
0800	22.47	6.71	-14	0.843	95.5	0.99	*

0807 - Collect Sample - 250 mL - HNO_3 - Metals 6020
0810 - Decon Pump. PV = ¼ gal.

MW-17 DTW = 26.18 Ft. DTPI = 30 ft.
Flow Rate = 295 mL/min

Time	Temp °C	pH	ORP mV	COND ms/cm	TURB NTU	DO mg/L	DTW Ft
0854	22.76	6.75	154	1.17	18.6	1.76	26.56
0857	21.89	6.74	138	1.12	10.5	1.81	26.85
0900	21.50	6.74	126	1.03	4.7	2.43	27.03

BLS 6-11-13

6-11-13

Rockwool - Belton, TX
ESI3. AIRS. 11 - B. STURLEY
GWM EVENT #3

(131)

MW-17 Cont.

Time	Temp °C	pH	ORP mV	COND ms/cm	TURB NTU	DO mg/L	DTW
0903	21.51	6.76	121	0.980	8.9	2.55	22.19

0906 - Collect Sample - 250 ml - HNO_3 - Metals 6020
0909 - Decon Pump - PV = 1.0 gal.

MW-27-90 DTW = 34.34 Ft DTPI = 35.0 ft
Flow Rate = 215 mL/min

Time	Temp °C	pH	ORP mV	Cond ms/cm	Turb NTU	DO mg/L	DTW
0932	25.56	6.68	160	1.09	52.3	5.39	34.34 * WL below top of pump
0935	24.50	6.66	158	1.11	27.3	5.19	*
0938	23.84	6.66	160	1.11	12.4	5.02	*
0941	23.82	6.64	164	1.10	1.4	4.91	*

0946 - Collect Sample - 250 ml - HNO_3 - Metals 6020
0950 Decon Pump PV = ½ gal

MW-33-90 DTW = 29.55 & DTPI = 32.5 ft.
Flow Rate = 280 mL/min

Time	Temp °C	pH	ORP mV	Cond ms/cm	Turb NTU	DO mg/L	DTW
1014	24.75	6.79	171	0.975	693	5.50	29.56
1017	23.27	6.80	173	0.961	237	5.23	29.56
1020	22.93	6.88	172	0.950	85.0	5.32	29.56

1022 - Collect sample - 250 ml - HNO_3 - Metals 6020
1027 - Decon Pump - PV = ½ gallon

BLS 6-11-13

(132) 6-11-13

Rockwool - Belton, TX

ES13. AIRS. 11 - B. SHIRLEY

GWM EVENT #3

MW-34-90 DTW = 28.36 ft. DTPI = 32.0 ft.

Flow Rate = 380 mL/min

Time	Temp °C	pH	ORP mV	Cond ms/cm	Turb NTU	DO mg/L	DTW
1044	23.50	7.29	170	1.02	204	3.49	28.38
1047	22.48	7.31	169	0.978	519	5.41	28.36
1050	22.21	7.36	170	0.955	24.0	6.86	28.38

1052 - Collect Sample - 250 mL - HNO_3 - Metals 6020

1053 - Collect Dup-2 - 250 mL - HNO_3 - Metals 6020

indicate time on COC for Dup-2 as 1108

1056 - Decon Pump - PV = 3/4 gal.

MW-9 DTW = 28.23 ft. DTPI = 33.0 ft

Flow Rate = 365 mL/min

Time	Temp °C	pH	ORP mV	Cond ms/cm	Turb NTU	DO mg/L	DTW
1120	23.37	7.00	198	0.881	15.6	6.79	28.23
1123	22.63	6.84	208	0.876	7.0	6.32	28.23
1126	22.40	6.84	206	0.869	3.1	6.49	28.23

1128 - Collect sample - 250 mL - HNO_3 - metals 6020

1133 - Decon Pump PV = 1/2 gal

1145 Break for Lunch

1215 On Site

B. Shirley 6-11-13

(133) 6-11-13

Rockwool - Belton, Tx

ES13. AIRS. 11 B. Shirley

GWM Event #3

MW-37-90 DTW = 15.03 ft DTPI = 24.0 ft

Flow Rate = 300 mL/min

Time	Temp °C	pH	ORP mV	Cond ms/cm	Turb NTU	DO mg/L	DTW
1343	24.34	7.10	144	0.847	71.2	1.80	15.49
1347	22.58	7.08	-27	0.836	12.1	0.95	15.58
1350	22.17	6.92	-37	0.829	2.2	0.76	15.61
1353	22.03	6.75	-32	0.831	0.4	0.70	15.61
1356	21.84	6.54	-23	0.829	0.0	0.66	15.61

1359 - Collect Sample - 250 mL - HNO_3 - metals 6020

1404 - Decon Pump - PV = 1.5 gal

MW-22 DTW = 10.79 ft DTPI = 14.0 ft

Flow Rate = 300 mL/min

Time	Temp °C	pH	ORP mV	Cond ms/cm	Turb NTU	DO mg/L	DTW
1415	24.21	7.45	-30	1.01	33.0	3.48	1109
1418	22.93	7.51	22	1.02	64.1	4.07	11.48
1421	22.66	7.61	59	0.904	154	4.60	12.35
1424	22.65	7.56	82	0.916	184	3.77	12.69

1426 - Collect Sample - 250 mL - HNO_3 - metals 6020

1430 - Decon Pump PV = 1 gal

B. Shirley 6-11-13

(34) 6-11-13

Rockwool - Belton, TX

ES 13. A1125.11 - B. Shirley

GWM Event #3

MW-20 DTW = 32.13 ft DTPI = 35.5 ft

Flow Rate = 375 mL/min

Time	Temp °C	pH	ORP mV	Cond ms/cm	Turb NTU	DO mg/L	DTW
1449	25.34	6.97	163	1.19	87.0	3.50	32.5
1452	24.08	6.85	170	1.22	29.9	2.92	32.67
1455	23.86	6.87	166	1.22	11.9	2.26	32.77
1458	23.63	6.92	159	1.21	2.3	1.73	32.82

1500 - Collect Sample - 250 mL - HNO_3 - Metals 6020

1504 - Decon Pump - PV = 1 gal

MW-21 DTW = 9.62 ft DTPI = 15.0 ft

Flow Rate = 305 mL/min

Time	Temp °C	pH	ORP mV	Cond ms/cm	Turb NTU	DO mg/L	DTW
1531	25.08	7.55	152	0.638	28.4	1.70	10.85
1534	24.31	7.62	139	0.586	14.9	1.12	10.12
1537	24.30	7.48	118	0.591	4.3	1.05	10.27
1540	24.09	7.48	66	0.585	0.0	0.97	10.54
1543	23.78	7.58	66	0.587	0.0	0.96	10.66

1547 - Collect Sample - 250 mL - HNO_3 - metals 6020

Collect MS/MSD - 250 ml - HNO_3 - Metals 6020

1557 - Dup-1 - 250 mL - HNO_3 - Metals 6020

1552 - Decon Pump PV = 1.5 gal

6-11-13

(35) 6-11-13

Rockwool - Belton, TX

ES 13. A1125.11 - B. Shirley

GWM Event #3

MW-38-90 DTW = 7.52 ft DTPI = 11.0 ft.

Flow Rate = 305

Time	Temp °C	pH	ORP mV	Cond ms/cm	Turb NTU	DO mg/L	DTW
1612	25.12	7.16	154	1.16	45.6	3.45	7.82
1615	23.90	6.38	156	1.18	25.5	2.71	8.19
1618	23.72	6.22	150	1.16	19.3	1.71	8.63
1621	23.29	6.17	150	1.19	18.7	2.27	9.10
1624	23.24	6.17	152	1.19	26.1	2.75	9.42

1626 - Collect Sample - 250 mL - HNO_3 - metals 6020

1631 - Decon Pump - PV = 1.5 gal

MW-35-90 DTW = 13.91 ft DTPI = 16.5 ft

Flow Rate = 375 mL/min

Time	Temp °C	pH	ORP mV	Cond ms/cm	Turb NTU	DO mg/L	DTW
1645	23.48	6.15	180	1.20	12.4	4.04	14.20
1646	22.65	6.63	170	1.20	10.0	2.14	14.39
1649	22.15	6.61	169	1.17	6.6	2.17	14.65
1652	21.96	6.58	168	1.16	5.6	2.32	14.88

1654 - Collect Sample - 250 mL - HNO_3 - metals 6020

1658 - Decon Pump - PV = 1 gal

6-12-13

(136) 6-11-13

BE Rockwood - Belton, TX

ES13. AIRS. 11 - B. SHIRLEY

CWM EVENT #3

1715 - Collect EB ER-2 - 250 ml - HNO_3 - Metals 6020.

1720 - End of day Calibration Check

pH = 4.04

COND = 4.53 ms/cm

TURB = 16.6 NTU

DO = 7.08 mg/L

1728 - Unload Sampling equipment

1800 - Depart site

B. Shirley 6-12-13

(137) 6-12-13

Rockwool - Belton, TX

ES13. AIRS. 11 - B. SHIRLEY

CWM EVENT #3

0800 - Arrive on site. Load up sampling equipment.

0819 - Collect IDW sample - 250 ml - HNO_3 - RCRA/TX11 Metals

Label onsite drums

Onsite Waste:

(2) 55 gal. drums

1 - full

1 - 2/3 full

0915 - Depart site

B. Shirley 6-12-13