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

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Texas Commission on Environmental Quality

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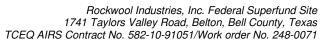
Contract No. 582-10-91051 Work Order No. 248-0071 Submitted By:

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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 μ g/L for antimony, 10 μ g/L for arsenic, and 5 μ g/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 (HNO₃) 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 plasmamass 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 nondedicated 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 (HNO₃) 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 (HNO₃) 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 μ g/L for antimony, 10 μ g/L for arsenic, and 5 μ g/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.

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	W-27-90 1212276-09		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	MW-38-90 1212276-24 1		0.516	0.00344 J	0.00247	
Preliminary	Remediation Goals	s (mg/L)	0.006	0.010	0.005	

Table 5.1a - Summary	of PRG Exceedances	- December 2012

* 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 $3.5 \,^{\circ}$ C upon receipt by the laboratory, which is within the allowable temperature range of $0-6 \,^{\circ}$ 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 μ g/L for antimony, 10 μ g/L for arsenic, and 5 μ g/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.

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	MW-38-90 1303040-23		0.911	0.00418 J	0.000396 J
Preliminary	Remediation Goals	0.006	0.010	0.005	

Table 5.1b - Summary of PRG Exceedances - March 2013

* 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 μ g/L for antimony, 10 μ g/L for arsenic, and 5 μ g/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.

Sample ID	Lab Sample ID Sample Date Antimony (mg/L)		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	MW-38-90 1306108-23 6/1		0.976	0.00498 J	0.000579 J
Preliminary	Remediation Goals	s (mg/L)	0.006	0.010	0.005

Table 5.1c - Summary of PRG Exceedances - June 2013

* 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 $4.1 \,^{\circ}$ C upon receipt by the laboratory, which is within the allowable temperature range of $0.6 \,^{\circ}$ 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

- Daniel B. Stephens & Associates, Inc. February 2011. *Operations & Maintenance Plan*. Rockwool Industries, Inc. Superfund Site, Bell County, Texas.
- Daniel B. Stephens & Associates, Inc. June 2012. *Addendum No. 1 to the April 26, 2011 Field Sampling Plan for Operations & Maintenance Activities*. Rockwool Industries, Inc. Superfund Site, Bell County, Texas.
- Texas Commission on Environmental Quality (TCEQ) Remediation Division. 2012. *Quality* Assurance Project Plan for the Federal Superfund Program Revision 9.0, Q-TRAK# 12-463.
- U.S. Environmental Protection Agency (EPA). September 2004. *Superfund Record of Decision* (*ROD*). Rockwool Industries, Inc., Bell County, Texas.
- Wilder Construction Company (Wilder). January 2006. *MatCon® Operation and Maintenance Plan for Rockwool Superfund Site, MatCon® Impermeable Asphalt Cap.* Wilder Construction Company, Everett, Washington.

Tables

Table 1. Summary of Groundwater Analytical ResultsRockwool Industries, Inc. Federal Superfund Site1741 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)
PR	Gs (mg/L)	-	0.006	1. S. S.		0.010		0.005	1		
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
	1105001.10	F/4/0014			0.0005	0.00//					
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
	1105004.44	5///0011		0.0000	0.0005				0.000054		
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	0.002	0.005	<0.000300	0.0003	0.001
	1212276-03	12/26/2012	<0.000800	0.0008	0.0025	0.00244		0.005	<0.000300	0.0003	0.001
	1303040-03	3/5/2013	<0.000800	0.0008	0.0025	0.00296	0.002	0.005	<0.000300	0.0003	0.001
	1306108-03	6/10/2013	<0.000800	0.0008	0.0025	0.00363	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		<0.000800	0.0008	0.0025	0.00311		0.005	<0.000300	0.0003	0.001
· · · ·	1303040-04	3/5/2013	<0.000800	0.0008	0.0025	0.00353	0.002	0.005	<0.000300	0.0003	0.001
	1306108-04	6/10/2013	<0.000800	0.0008	0.0025	0.0026		0.005	<0.000300	0.0003	0.001
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MW-14	1212276-05	12/26/2012	<0.000800	0.0008	0.0025	0.00209	0.002	0.005	0.000376 J	0.0003	0.001
	1303040-05	3/5/2013	<0.000800	0.0008	0.0025	0.00214	0.002	0.005	<0.000300	0.0003	0.001
	1306108-05	6/10/2013	<0.000800	0.0008	0.0025	0.00216	0.002	0.005	<0.000300	0.0003	0.001

Table 1. Summary of Groundwater Analytical ResultsRockwool Industries, Inc. Federal Superfund Site1741 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)
P	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		0.0025	0.00921		0.002	0.005	0.00267 JI-FD		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 ResultsRockwool Industries, Inc. Federal Superfund Site1741 Taylors Valley Road, Belton, Bell County, Texas

Sample ID	Lab Sample ID	Sample Date	Antimony (mg/L)	Γ	SDL (mg/L)	MQL (mg/L)	Arsenic (mg/L)		SDL (mg/L)	MQL (mg/L)	Lead (mg/L)		SDL (mg/L)	MQL (mg/L)
PR	Gs (mg/L)	5.	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	I-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	C	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	ſ	0.0008	0.0025	<0.00200		0.002	0.005	0.000856	J	0.0003	0.001
	1306108-20	6/11/2013	0.00103	ſ	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
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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 ResultsRockwool Industries, Inc. Federal Superfund Site1741 Taylors Valley Road, Belton, Bell County, Texas

Sample ID	Lab Sample ID	Sample Date	Antimon (mg/L)	y	SDL (mg/L)	MQL (mg/L)	Arsenic (mg/L)		SDL (mg/L)	MQL (mg/L)	Lead (mg/L)		SDL (mg/L)	MQL (mg/L)
PR	Gs (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
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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 ResultsRockwool Industries, Inc. Federal Superfund Site1741 Taylors Valley Road, Belton, Bell County, Texas

Sample ID	Lab Sample ID	Sample Date	Antimon (mg/L)	y	SDL (mg/L)	MQL (mg/L)	Arsenic (mg/L)		SDL (mg/L)	MQL (mg/L)	Lead (mg/L)		SDL (mg/L)	MQL (mg/L)
PR	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 ResultsRockwool Industries, Inc. Federal Superfund Site1741 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)
PR	Gs (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
	<u> </u>										

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.

l = Bias in sample result is indeterminate.



Table 2. Water Level Measurements and Groundwater Elevation DataRockwool Industries, Inc. Federal Superfund Site1741 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	
		-	İ	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	Cas	ing obstruct	ed at 19.2'	
				12/26/2012	Cas	ing obstruct	ed at 19.2'	
				3/4/2013		ing obstruct		
				6/10/2013	Cas	ing obstruct	ed 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	



Table 2. Water Level Measurements and Groundwater Elevation DataRockwool Industries, Inc. Federal Superfund Site1741 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			
			1 · · ·				· ·	
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
	10000001.00	0202010.00	000110	7/11/2012	11.94	11.00	493.24	The weating
				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	
1001 c= c:	100500 10 0	00001						
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
		0.14	0,0.04	7/11/2012	30.38	01.04	489.46	
				12/26/2012	30.46		489.38	
				3/4/2013	30.40		489.61	
				6/10/2013	30.10		489.74	
				5,10,2010				



Table 2. Water Level Measurements and Groundwater Elevation DataRockwool Industries, Inc. Federal Superfund Site1741 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
10100-30-30	1000/070/0.00	5202045.54	520.17	7/11/2012	27.74	20.40	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	Ca	Lsing obstruc	ted at 2.5'	No well log
				7/11/2012	Ca	sing obstruc	ted at 2.5'	
				12/26/2012	Ca	sing obstruc	ted at 2.5'	
			·	3/4/2013		sing obstruc	ted at 2.5'	
MM 07 00	10050000 57			Abandoned o			400.05	No woll log
MW-37-90	10358806.57	3202888.58	501.52	5/2/2011 7/11/2012	18.67 17.96	26.30	482.85 483.56	No well log
				12/26/2012	19.08		483.30	
				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	
			I	6/11/2013	7.52	1	496.53	



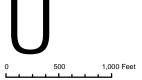
Table 2. Water Level Measurements and Groundwater Elevation Data **Rockwool Industries, Inc. Federal Superfund Site** 1741 Taylors Valley Road, Belton, Bell County, Texas

Well ID Northing Easting TOC (ft) (ft) 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

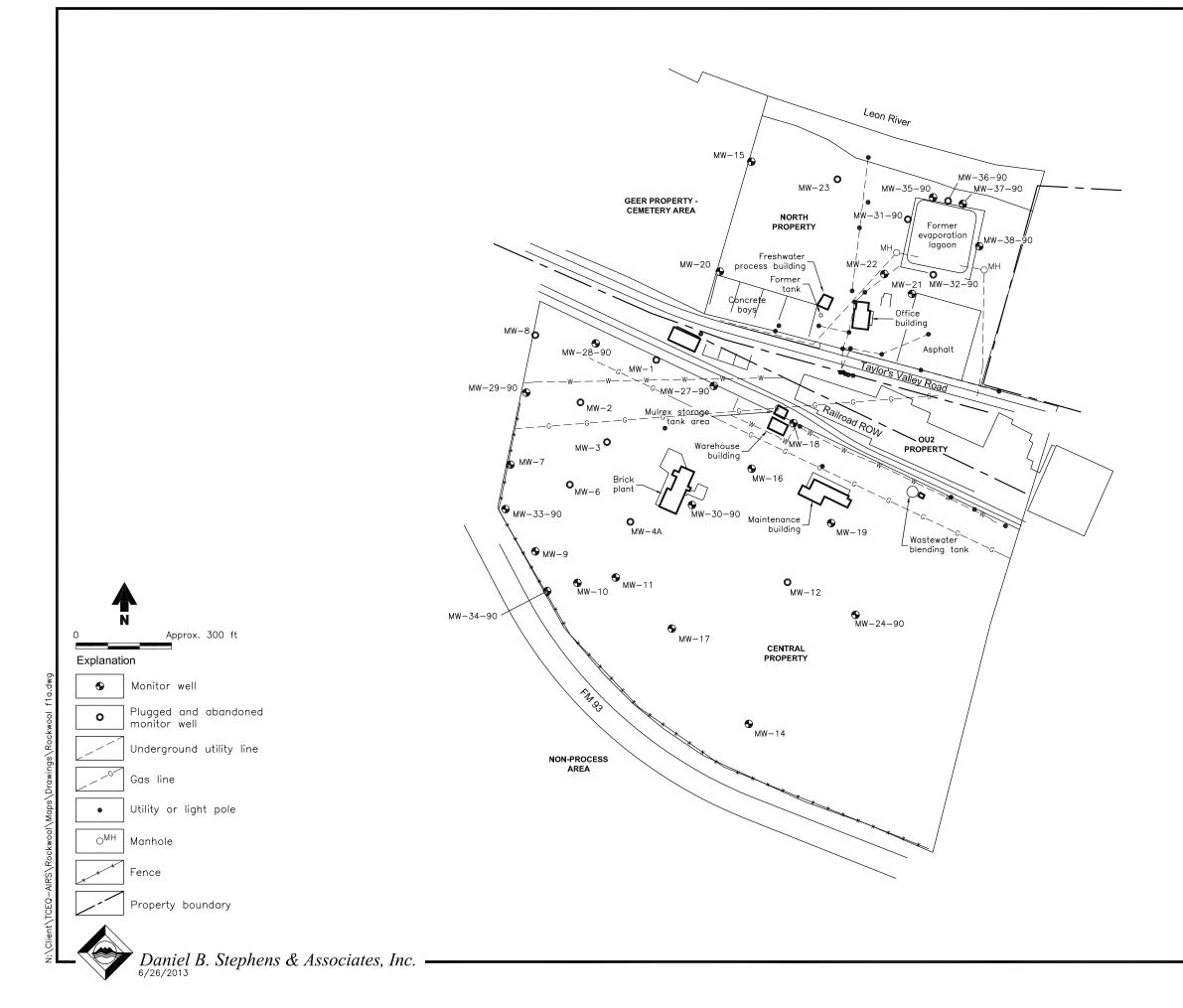




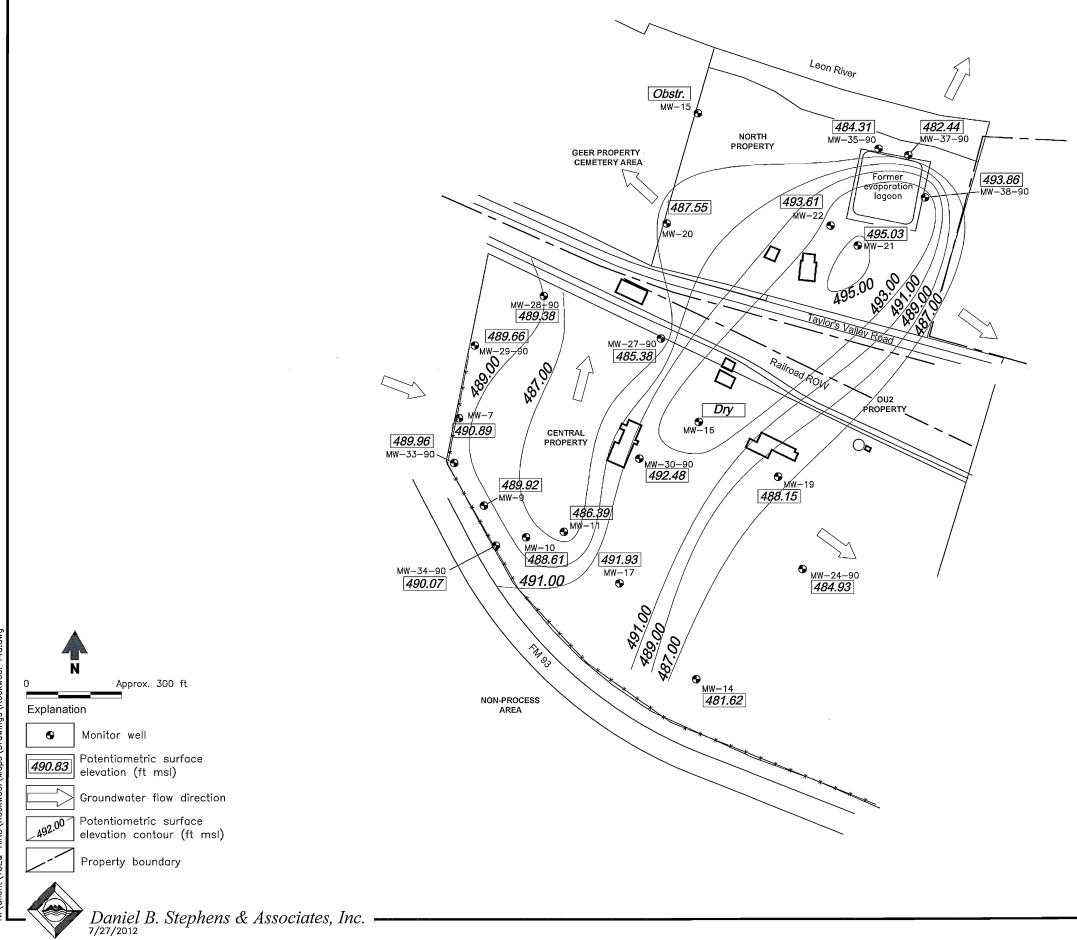
2010 Color Aerial Imagery Courtesy Google Earth

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

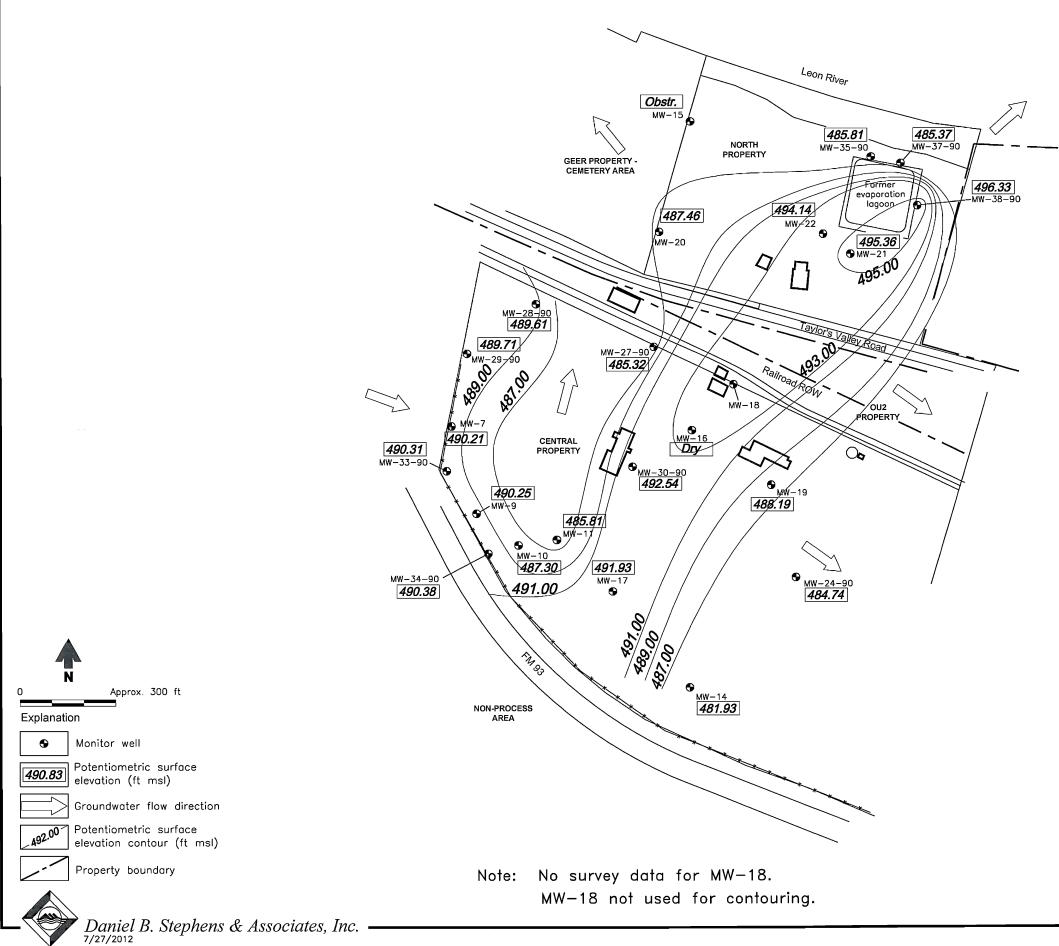


Rockwool Industries Superfund Site 1741 Taylor's Valley Rd Belton, Texas **Site Map**



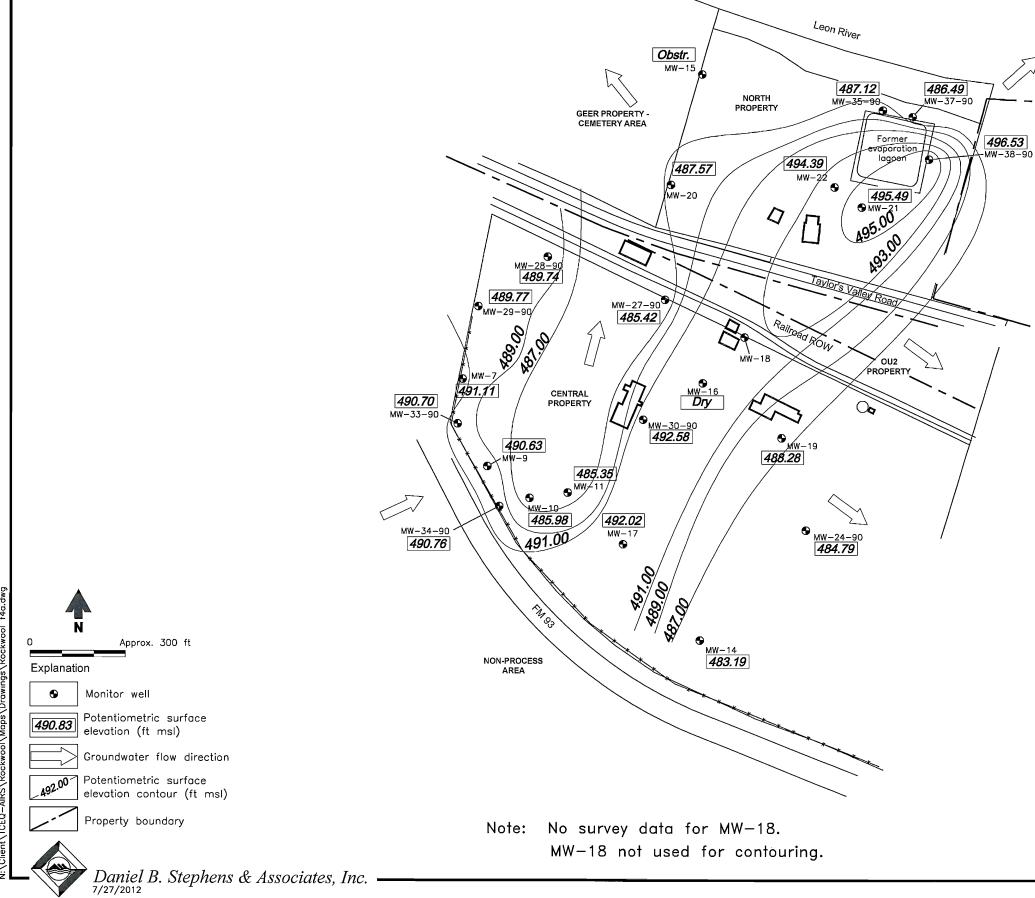


Rockwool Industries Superfund Site 1741 Taylor's Valley Rd Belton, Texas **Potentiometric Surface Elevations December 26, 2012**



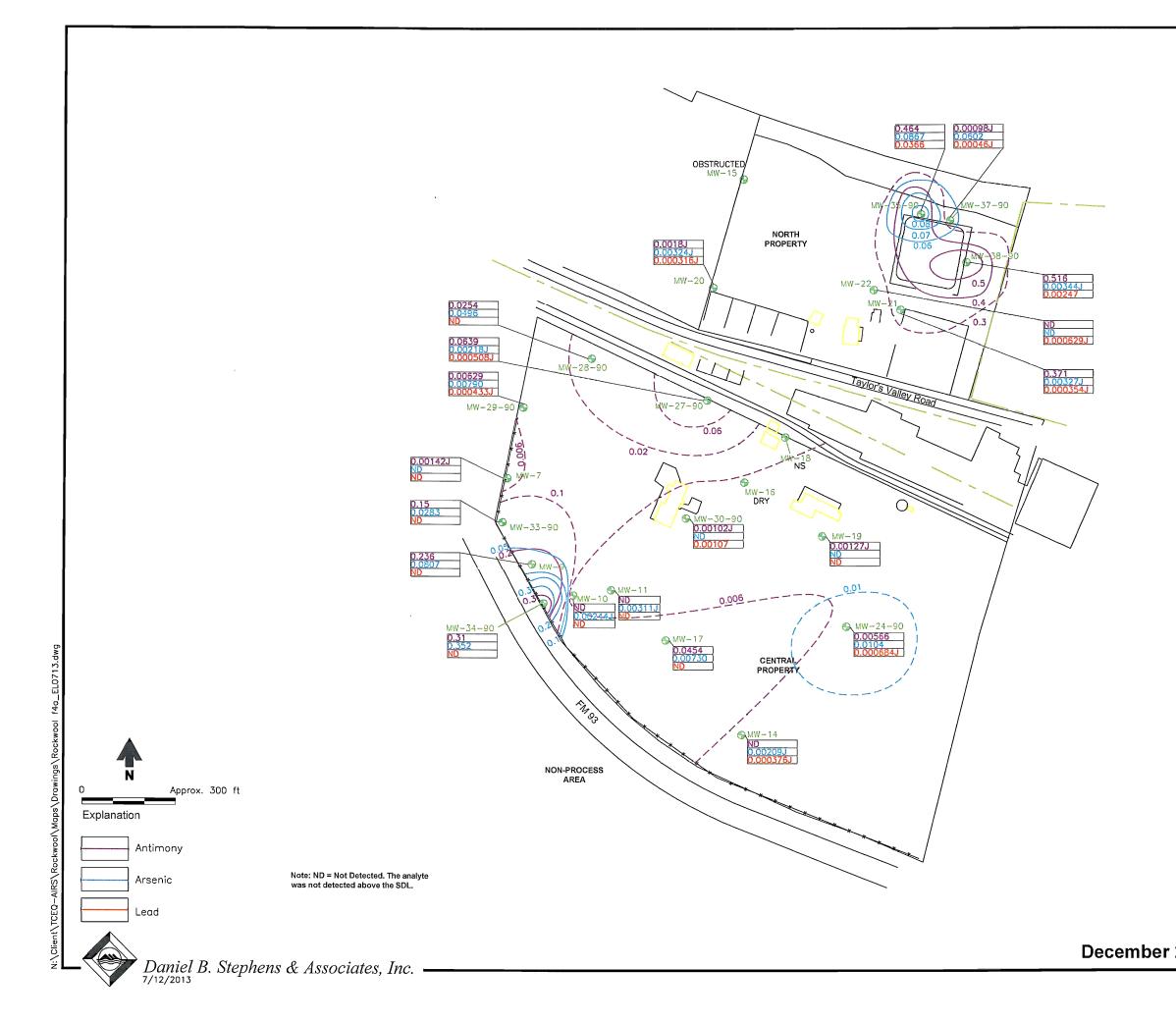


Rockwool Industries Superfund Site 1741 Taylor's Valley Rd Belton, Texas **Potentiometric Surface Elevations** March 4, 2013





Rockwool Industries Superfund Site 1741 Taylor's Valley Rd Belton, Texas **Potentiometric Surface Elevations** June 10-11, 2013





Rockwool Industries Superfund Site 1741 Taylor's Valley Rd Belton, Texas December 2012 Contaminant Isoconcentration Map

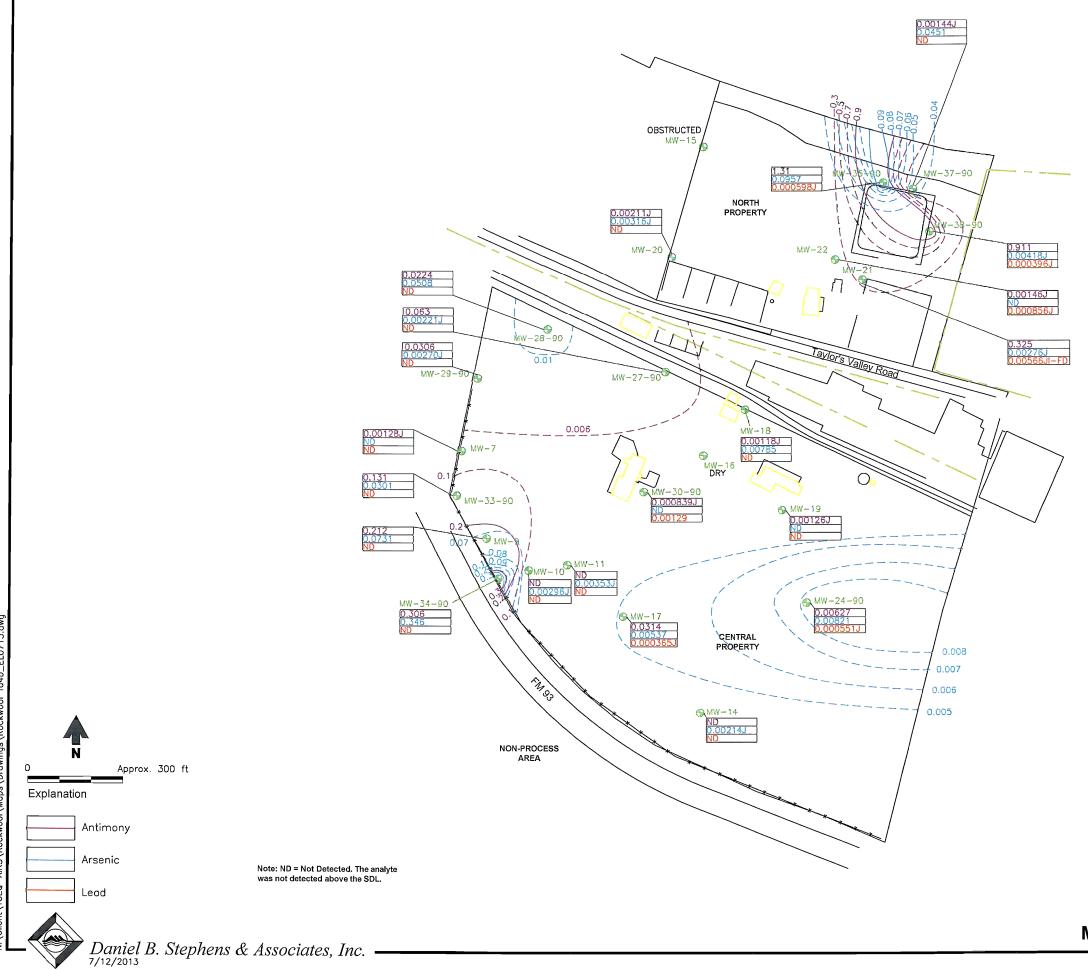
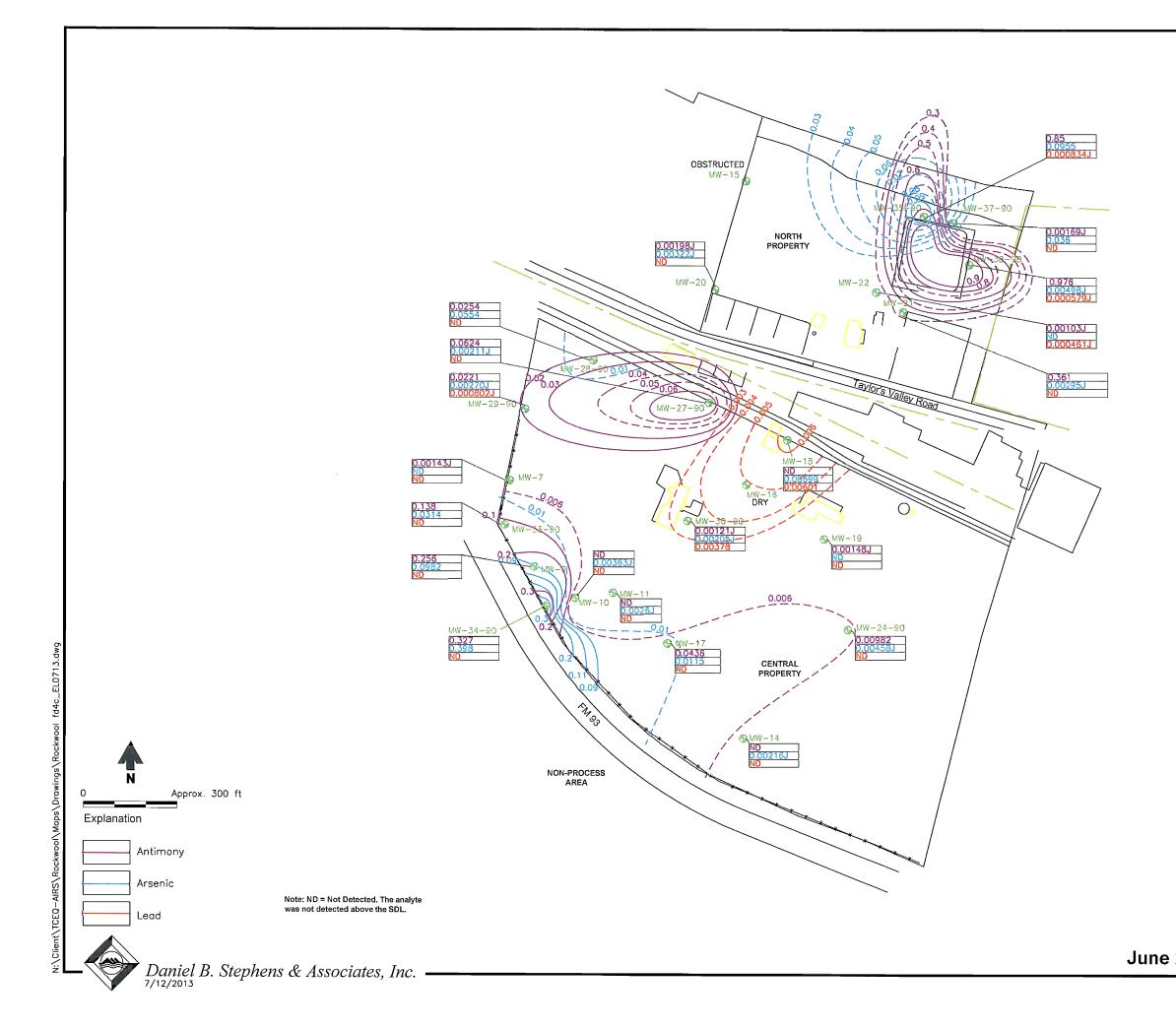
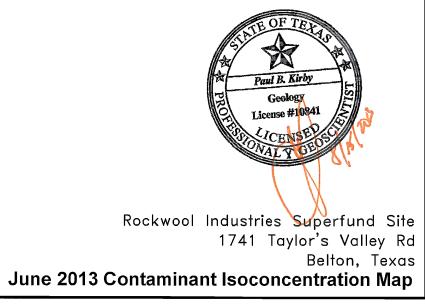




Figure 4b





Appendix 1

Groundwater Monitoring Photographic Documentation



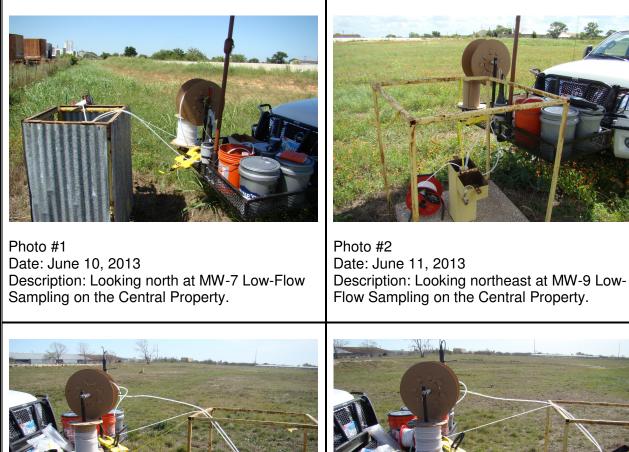




Photo #3 Date: March 5, 2013 Description: Looking east at MW-10 Low-Flow Sampling on the Central Property.



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









Photo #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 lowflow 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

			SIL	& PROGRAM	AKEA IDENT	IFICATION		
	SIT	TE LOCATI	ON		REMEDIAT	TON DIVISIO	DN PROGRAM AND FACII	ITY
· · · · · · · · ·						DENT	IIFICATION	
Site Name:	Rockwool	Industries, In	IC.		Is This Site Beir	ng Managed Und	er A State Lead Contract?	
					F Yes	🔽 No		
Address 1:	1741 Taylo	ors Valley Roa	ad		Program Area:	SUPERFUND		÷
Address 2:					Mail Code:	MC-136		
City: Belton	n		State:	Texas	Is This A New S	lite To This Prog	ram Area?	
					F Yes	🔽 No		
Zip Code:	76513	County:	Bell	*	PROGRAM ID	No.:	SUP033	
ГCEQ Region	: Re	gion 9 - Waco	1977 - 1977 - 1979 1		Leave This Fi	eld Blank	Leave This Field Blank	

	DOCUMENT(S) IDENTIFICATION									
Pl	HASE OF REMEDIATION	DOCUMENT NAME								
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		SIBLE PARTY/A	PPLICANT/CUSTOMER	<u>ک</u>
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
	ENVIRONMENT	AL CONSULTAN	T/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	n
	Win Dri, 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

248-0071

Work Order No.

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 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:

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

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

<u>Data Validation</u> – 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	FIELD SAMPLE ID	DATE COLL.	MATRIX	PARAMETER
1212276	1212276-01	MW-7	12/27/12	Aqueous	MET
	1212276-02	MVV-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 2-2Rockwool IndustriesBelton, Bell County, TexasField 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
<u></u>	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	DUPLICATE	QC RESULT	CRITERIA
			RESULT	RESULT		
1212276	1212276- 15/20	Antimony	0.304	0.371	RPD:20%	<=30%
	1	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%

ECS Environmental Chemistry Services Rockwool Industries Fed. Superfund Site DUS- Groundwater Sampling Event 2012

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 longterm 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.

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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.

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13. CONCLUSIONS

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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-1Data 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.
Х3	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.
Х7	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.
Х9	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
НТ	Holding time requirement was not met
LCS	Laboratory control sample evaluation criteria not met
MB	Method blank or preparation blank contamination
<u>RB</u>	Rinsate blank contamination
MQL	Sample guantitation 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
	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	
Н	Bias in sample result likely to be high
	Bias in sample result is indeterminate
L_	Bias in sample result likely to be low



January 10, 2013

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

Order No.: 1212276

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



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Miscellaneous Documents	
CaseNarrative 1212276	
WorkOrderSampleSummary 1212276	10
PrepDatesReport 1212276	
Analytical Report 1212276	
AnalyticalQCSummaryReport 1212276	
MQLSummaryReport 1212276	
ICP-MS2 Raw Data	
ICP-MS3 Raw Data	

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Checklist completed by:	Carrier name	3	Reviewa	ed by	12/28/2012 Date							
Shipping container/cooler in good condition?		Yes 🗹	No 🗔	Not Present								
Custody seals intact on shippping container/co	ooler?	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	d 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 complia	псе?	Yes 🗹	No 🗌	3.5 °C								
Water - VOA vials have zero headspace?		Yes 🗌	No 🗌	No VOA vials	submitted 🗹							
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R1	0	1) Did samples meet the laboratory's standard conditions of samp		X				R1-01
		2) Were all departures from standard conditions described in an ex	ception report?			Χ		
R2	01	Sample and Quality Control (QC) Identification				_		
		1) Are all field sample ID numbers cross-referenced to the laborat		X				
D 1		2) Are all laboratory ID numbers cross-referenced to the correspon	nding QC data?	X				
<u>R3</u>	OI	Test Reports		v	leatenfaite	50.a	-252	
		1) Were all samples prepared and analyzed within holding times?	katad hu adibatian atandarda?	X				
		2) Other than those results $<$ MQL, were all other raw values brac	keted by calibration standards?	X X				
	Į –	3) Were calculations checked by a peer or supervisor?4) Were all analyte identifications checked by a peer or supervisor	<u>.</u>		$\left \right $			
	1	(4) were all analyte identifications checked by a peer or supervisor(5) Were sample detection limits reported for all analytes not detection		X X	┝─┤			
		6) Were all results for soil and sediment samples reported on a dry		-	┞╍╌╏	x		
		7) Were % moisture (or solids) reported for all soil and sediment s				X		
		8) Were bulk soils/solids samples for volatile analysis extracted w				X		
		9) If required for the project, TICs reported?	nur metnanor per Er remetned 5055.			X		
R4	0	Surrogate Recovery Data	· · · · · · · · · · · · · · · · · · ·	and the second second		2 . 	14 <u>99</u> 241	
<u></u>	†	1) Were surrogates added prior to extraction?		X				
	į.	2) Were surrogate percent recoveries in all samples within the labor	pratory OC limits?	X				
R5	OI	Test Reports/Summary Forms for Blank Samples		2				
	0.	1) Were appropriate type(s) of blanks analyzed?		X			···- †	<u>iii -</u>
		2) Were blanks analyzed at the appropriate frequency?		X				
		3) Where method blanks taken through the entire analytical proces	s, 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?		Х				
		2) Was each LCS taken through the entire analytical procedure, in	cluding prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?		X				
	ļ	4) Were LCS (and LCSD, if applicable) %Rs within the laboratory		Х				
		5) Does the detectability data document the laboratory's capability	to detect the COCs at the MDL used	x				
	1	to calculate the SDLs?						
		6) Was the LCSD RPD within QC limits (if applicable)?		X	SV.			
R 7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data			<u>4</u>	were land		
		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 (¿C limits?	XX				
		4) Were MS/MSD RPDs within laboratory QC limits?		A	and the second	Transfil	thirty and source of	مرتبا و مواد استان کار ا
<u>R8</u>		Analytical Duplicate Data		<u>8</u>		λ	-+	4
		1) Were appropriate analytical duplicates analyzed for each matrix				$\frac{x}{x}$		
		 Were analytical duplicates analyzed at the appropriate frequency Were RPDs or relative standard deviations within the laboratory 				$\frac{\Lambda}{X}$		
DÖ		Method Quantitation Limits (MQLs):		8	and a faith of the			
R9		1) Are the MQLs for each method analyte included in the laborato		<u>ه</u> ک				
		 Are the MQLs for each method analyte included in the laborato Do the MQLs correspond to the concentration of the lowest non 		x		- †		
		 Are unadjusted MQLs and DCSs included in the laboratory data 	package?	x		\rightarrow		
10		Other Problems/Anomalies	P	جەندى		1973-s-p		
		1) Are all known problems/anomalies/special conditions noted in t	his LRC and ER?	λ		+ 	ľ	
		2) Was applicable and available technology used to lower the SDL	to minimize the matrix interference		- 1			
		affects on the sample results?		x				
		3) Is the laboratory NELAC-accredited under the Texas Laborator	y Accreditation Program for the	x			T	
		analytes, matrices and methods associated with this laboratory data	a package?	^				

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

.

NA = Not applicable. NR = Not Reviewed.

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

Proje	ect Na	ame: Rockwool Ind. Belton, TX Date:	1/10/2013					
Revi	ewer	Name: Angie O'Donnell Labor	atory Work Order: 1212276					
#ſ	A ²	Description		Yes	No	NA ³	NR ⁴	ER#
<u></u>		Initial Calibration (ICAL)		I CS	190	- INA	1VIC	E.R.H
				j Bernaide		ashir at a	-	all Michaeler
	1	1) Were response factors and/or relative response factors for each ar	alyte within QC limits?	X				ļ
		2) Were percent RSDs or correlation coefficient criteria met?		X				
		3) Was the number of standards recommended in the method used for		X				
		4) Were all points generated between the lowest and highest standar	d used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?		X				
0.2		6) Has the initial calibration curve been verified using an appropriat		X	a.:			الآلي
S2		Initial and Continuing calibration Verification (ICCV and CCV blank (CCB):) and Continuing Calibration					R. S.
		1) Was the CCV analyzed at the method-required frequency?		X				
		2) Were percent differences for each analyte within the method-requ	ired QC limits?	X				
	1	3) Was the ICAL curve verified for each analyte?		X				
00		4) Was the absolute value of the analyte concentration in the inorgan	ic CCB < MDL?	<u> </u>				
<u>S3</u>	0	Mass Spectral Tuning:		·	. Lohnand	58-10-17-18		
		1) Was the appropriate compound for the method used for tuning?	· · · · · ·	X				
S4	0	2) Were ion abundance data within the method-required QC limits?	· · · · · · · · · · · · · · · · · · ·	X				
54		Internal Standards (IS):	-1 OC limite2	Charles of	an a san a	And the second second	1	And Street
0E		1) Were IS area counts and retention times within the method-requir				5 T.		
<u>\$5</u>	OI	Raw Data (NELAC Section 5.5.10)		a	Ľ,			
		1) Were the raw data (for example, chromatograms, spectral data) re		X				-
S6	0	2) Were data associated with manual integrations flagged on the raw Dual Column Confirmation	data?	X	à.	1. A		
30	0	1) Did dual column confirmation results meet the method-required Q	0.01		8	X		
S 7	0					<u>_</u>		and the
3/	. 0	Tentatively Identified Compounds (TICs): 1) If TICs were requested, were the mass spectra and TIC data subje	at to appropriate obsolve?			1	Contraction of the local distribution of the	
S8	Ĭ	Interference Check Sample (ICS) Results:	et to appropriate checks:	5		`-r		3
30	-	1) Were percent recoveries within method QC limits?		₹ X	<u> </u>			
S 9		Serial Dilutions, Post Digestion Spikes, and Method of Standard	Additions			1		
37		1) Were percent differences, recoveries, and the linearity within method?	the QC limits specified in the	X	<u></u>			,
					and the second second		र दर कार जान्य	WTNING.
<u>810</u>	10	Method Detection Limit (MDL) Studies		à			+	G
		1) Was a MDL study performed for each reported analyte?		X				
011		2) Is the MDL either adjusted or supported by the analysis of DCSs?		X				
<u>S11</u>		Proficiency Test Reports: 1) Was the lab's performance acceptable on the applicable proficience	v tests or evaluation studios?	X		<u>.</u>	_	
S12		Standards Documentation	y tosis of evaluation studies?	л				
512		1) Are all standards used in the analyses NIST-traceable or obtained	from other appropriate sources?	X				
S13		Compound/Analyte Identification Procedures	nom omer appropriate sources?	╞╌┾		p'02.00(2)/83 (2		
313		1) Are the procedures for compound/analyte identification document	ed?	X	<u>_</u>			
S14		Demonstration of Analyst Competency (DOC)		76 1			1	
514		1) Was DOC conducted consistent with NELAC Chapter 5 – Append	lix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on fi		X				
S15		Verification/Validation Documentation for Methods (NELAC Ch				nis.		
	<u> </u>	1) Are all the methods used to generate the data documented,	verified, and validated, where	V 20		l		
		applicable?		x				
516	01	Laboratory Standard Operating Procedures (SOPs):			13 W 0,07			
		1) Are laboratory SOPs current and on file for each method performe				1		

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

What

01/10/13 Date

Signature /

DHL Analytical, Inc.

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

Date: 10-Jan-13

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.

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Date: 10-Jan-13

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CLIENT: Project: Lab Order:	D. B. Stephens & A Rockwool Ind. Belt 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.

PREP DATES REPORT

lton, TX

Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
2/27/12 08:51 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
2/26/12 04:02 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
2/26/12 02:14 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
2/26/12 01:34 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
2/26/12 12:04 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
2/26/12 12:43 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
2/27/12 11:28 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
2/27/12 12:11 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
2/28/12 08:09 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	· 55369
2/28/12 07:55 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
2/27/12 09:39 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
2/28/12 08:16 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
2/26/12 04:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
2/26/12 03:01 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
2/27/12 02:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
2/26/12 03:21 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
2/26/12 05:07 PM	Equip Blank	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
2/27/12 05:10 PM	Equip Blank	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
2/27/12 01:32 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
2/27/12 03:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/02/13 08:54 AM	55369
2/27/12 02:27 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/08/13 09:10 AM	55427
2/28/12 09:05 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/08/13 09:10 AM	55427
2/27/12 04:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/08/13 09:10 AM	55427
2/27/12 03:53 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/08/13 09:10 AM	55427

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DHL Anal	lytical, Inc.			Date: 10-Jan-13							
CLIENT:	D. B. Stephens & As	Client Sample ID: MW-7									
Project:	Lab ID: 1212276-01										
Project No:	Collection Date: 12/27/12 08:51 AM										
Lab Order:	1212276		Matrix: AQUEOUS								
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed			
TRACE METAL	S: ICP-MS - WATER		SW60)20A				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			

MK7 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

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DHL Ana	lytical, Inc.			Date: 10-Jan-13						
CLIENT:	D. B. Stephens & As	Client Sample ID: MW-9								
Project:	Lab ID: 1212276-02									
Project No:	ES13.AIRS.11.001.0		Collection Date: 12/26/12 04:02 PM							
Lab Order:	1212276		Matrix: AQUEOUS							
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed		
TRACE METAL	LS: ICP-MS - WATER		SW60)20A				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	0.0 0100		mg/L	1	01/03/13 12:46 AM		

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ME7, 13

Qualifiers:

ifiers: 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

Page 2 of 24

CLIENT: Project: Project No: Lab Order:	D. B. Stephens & As Rockwool Ind. Belt ES13.AIRS.11.001.0 1212276	Client Sample ID: MW-10 Lab ID: 1212276-03 Collection Date: 12/26/12 02:14 PM Matrix: AQUEOUS							
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed	
TRACE METAL Antimony Arsenic Lead	.S: ICP-MS - WATER	<0.000800 0.00244 <0.000300	SW60 0.000800 0.00200 0.000300	0.00250 0.00500 0.00100	ŀ	mg/L mg/L mg/L	1 1 1	Analyst: SW 01/03/13 12:51 AM 01/03/13 12:51 AM 01/03/13 12:51 AM	
								:	
								1	
								I	
	·							MK7,13	
								13/13/13	

Qualifiers:

ND - Not Detected at the SDL

- ${\bf J}$ 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 Ana	lytical, Inc.			D	ate:	10-Jan-13				
CLIENT:	D. B. Stephens & As		Client Sample ID: MW-11 Lab ID: 1212276-04 Collection Date: 12/26/12 01:34 PM							
Project:	Rockwool Ind. Belt									
Project No:	ES13.AIRS.11.001.0									
Lab Order:	1212276		Matrix: AQUEOUS							
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed		
TRACE METAL	S: ICP-MS - WATER		SW60)20A				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		

MK7 1-13-13

Qualifiers:

ers: 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

- SDL Sample Detection Limit
- E TPH pattern not Gas or Diesel Range Pattern

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RL - Reporting Limit (MQL adjusted for moisture and sample size)

DHL Ana	lytical, Inc.			D	ate:	10-Jai	n-13				
CLIENT:	D. B. Stephens & As	ssoc, Inc.		Client Sample ID: MW-14							
Project:		Lab ID: 1212276-05									
Project No:	ES13.AIRS.11.001.0		Collection Date: 12/26/12 12:04 PM								
Lab Order:	1212276			Matrix: AQUEOUS							
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed			
TRACE METAI	LS: ICP-MS - WATER		SW60	20A				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			

MIL 7 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

Page 5 of 24

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DHL Analy	ytical, Inc.			D	ate:	10-Ja	n-13			
CLIENT:	D. B. Stephens & As	ssoc, Inc.	Client Sample ID: MW-17							
Project:	Lab ID: 1212276-06									
Project No:	Collection Date: 12/26/12 12:43 PM									
Lab Order: '	1212276	Matrix: AQUEOUS								
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed		
TRACE METAL	S: ICP-MS - WATER		SW60)20A				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		

M1-13-13

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

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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 Ana	lytical, Inc.			D	ate:	10-Ja	n-13					
CLIENT:	CLIENT: D. B. Stephens & Assoc, Inc.				Client Sample ID: MW-19							
Project:	Rockwool Ind. Belt			La	b ID: 121	2276 -07						
Project No:	ES13.AIRS.11.001.0		Collection Date: 12/27/12 11:28 AM									
Lab Order:	1212276			Matrix: AQUEOUS								
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed				
	S: ICP-MS - WATER		SW60)20A				Analyst: SW				
Antim ony		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				

NK1 1-13-13

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Qualifiers:

ers: 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 Anal	lytical, Inc.		D	ate:	10-Ja	n-13			
CLIENT:	D. B. Stephens & As:	soc, Inc.	Client Sample ID: MW-24-90						
Project:	Rockwool Ind. Belto	n, TX	Lab ID: 1212276-08						
Project No:	ES13.AIRS.11.001.0	01		Co	lection	Date: 12/2	27/12 12	:11 PM	
Lab Order:	1212276	Matrix: AQUEOUS							
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed	
TRACE METALS: JCP-MS - WATER				20A	20A Analyst: SW				
Antimony	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		0.000300	0.00100	J	mg/L	1	01/03/13 01:19 AM		

NE 7 1-13-13

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 Anal	ytical, Inc.		Date: 10-Jan-13							
CLIENT:	D. B. Stephens & As	soc, Inc.	·	Client Sample ID: MW-27-90						
Project:	Rockwool Ind. Belto	n, TX		Lab ID: 1212276-09						
Project No:	ES13.AIRS.11.001.0	01		Co	llection	Date: 12/2	28/12 08:	:09 AM		
Lab Order:	1212276		Matrix: AQUEOUS							
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed		
TRACE METAL	S: ICP-MS - WATER		SW60)20A			Analyst: SW			
Antimony	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		

NK7 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 Anal	lytical, Inc.			Date: 10-Jan-13					
CLIENT:	D. B. Stephens & As	ssoc, Inc.		Client Sample ID: MW-28-90					
Project:	Rockwool Ind. Belto	on, TX	Lab ID: 1212276-10						
Project No:	ES13.AIRS.11.001.0	001		Co	llection	Date: 12/2	28/12 07:	:55 AM	
Lab Order:	1212276		Matrix: AQUEOUS						
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed	
TRACE METAL	S: ICP-MS - WATER		SW60	20A				Analyst: SW	
Antimony	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	

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MK1 1-13-13

Qualifiers:

fiers: 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

Page 10 of 24

DHL Anal	ytical, Inc.				D	ate:	10-Ja	n-13	
CLIENT:	D. B. Stephens & A	assoc, Inc.	Client Sample ID: MW-29-90						
Project:	Rockwool Ind. Bel	ton, TX		Lab ID: 1212276-11					
Project No:	ES13.AIRS.11.001		Co	llection	Date: 12/2	27/12 09	:39 AM		
Lab Order:	1212276	Matrix: AQUEOUS							
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed	
TRACE METAL	.S: ICP-MS - WATER		SW60)20A				Analyst: SW	
Antimony		0.00629	0.000800	0.00250		mg/L	1	01/03/13 02:42 AM	
		0.00790	0.00200	0.00500		mg/L	1	01/03/13 02:42 AN	
Arsenic		0.00790	0.00200	0.00000		ng/L	1	01/03/13 02.42 A	

MK1,3

Qualifiers: ND - Not Detected at the SDL

J - Analyte detected between SDL and RL B - Analyte detected in the associated Method Blank

- Allaryte detected in the associated meth

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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

Page 11 of 24

DHL Anal	lytical, Inc.		Date: 10-Jan-13							
CLIENT:	D. B. Stephens & As	soc, Inc.		Client Sample ID: MW-30-90						
Project:	Rockwool Ind. Belto	on, TX		Lab ID: 1212276-12						
Project No:	ES13.AIRS.11.001.0	01	Collection Date: 12/28/12 08:16 AM							
Lab Order:	1212276			Matrix: AQUEOUS						
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed		
TRACE METAL	.S: ICP-MS - WATER)20A				Analyst: SW		
Antimony		0.00102	0.000800	0.00250	J	mg/L	1	01/03/13 02:48 AM		
Arsenic		<0.00200	0.0020 0	0.00500		mg/L	1	01/03/13 02:48 AM		
Lead	I	0.00107	0.000300	0.00100		mg/L	1	01/03/13 02:48 AM		

NK7 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 Anal	DHL Analytical, Inc.						10-Ja	n-13	
CLIENT:	D. B. Stephens & As	ssoc, Inc.		Client Sample ID: MW-33-90					
Project:	Rockwool Ind. Belt	on, TX	Lab ID: 1212276-13						
Project No:	ES13.AIRS.11.001.0	001		Collection Date: 12/26/12 04:45 PM					
Lab Order:	1212276		Matrix: AQUEOUS						
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed	
TRACE METAL	S: ICP-MS - WATER		SW60)20A				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	

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 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

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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 Ana	lytical, Inc.		D	ate:	10-Jai	n-13				
CLIENT:	D. B. Stephens & As	ssoc, Inc.		Client Sample ID: MW-34-90						
Project:	Rockwool Ind. Belt	on, TX		Lab ID: 1212276-14						
Project No:	ES13.AIRS.11.001.0	001		Co	llection	Date: 12/2	26/12 03:	01 PM		
Lab Order:	1212276		Matrix: AQUEOUS							
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed		
RACE METAL	LS: ICP-MS - WATER		SW60)20A				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	0.00 100		mg/L	1	01/03/13 02:59 AM		

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ers: ND - Not Detected at the SDL

J - Analyte detected between SDL and RL B - Analyte detected in the associated Method Blank

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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

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CLIENT: Project: Project No: Lab Order:	D. B. Stephens & Ass Rockwool Ind. Belto ES13.AIRS.11.001.0 1212276		Client Sample ID: DUP-1 Lab ID: 1212276-15 Collection Date: 12/27/12 02:45 PM Matrix: AQUEOUS						
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed	
RACE METALS: ICP-MS - WATER			SW60	6020A 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	
		-							

ME7 1-13-17

Qualifiers: ND - Not Detected at the SDL

J - Analyte detected between SDL and RL

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 ${\bf B}$ - 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

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CLIENT: Project: Project No: Lab Order:	D. B. Stephens & As Rockwool Ind. Belt ES13.AIRS.11.001.0 1212276	on, TX	Lab ID: 1212276-16						
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed	
TRACE METAL Antimony Arsenic Lead	LS: IC P-MS - WATER	0.304 0.340 <0.000300	SW60 0.000800 0.00200 0.000300	0.00250 0.00500 0.00100		mg/L mg/L mg/L	1 1 1	Analyst: SW 01/03/13 03:10 AM 01/03/13 03:10 AM 01/03/13 03:10 AM	
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 Qualifiers:
 ND - Not Detected at the SDL
 S - Spike Recovery outside control limits

 J - Analyte detected between SDL and RL
 C - Sample Result or QC discussed in Case Narrative

 B - Analyte detected in the associated Method Blank
 RL - Reporting Limit (MQL adjusted for moisture and sample size)

 DF- Dilution Factor
 SDL - Sample Detection Limit

 N - Parameter not NELAC certified
 E - TPH pattern not Gas or Diesel Range Pattern

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See Final Page of Report for MQLs and MDLs

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27

CLIENT:	D. B. Stephens & As	soc. Inc.	······································	Clien	t Sampl	le ID: ER-	1	
Project:	Rockwool Ind. Belt				-	b ID: 121		
Project No:	ES13.AIRS.11.001.0			Col	lection]	Date: 12/2	26/12 05	:07 PM
Lab Order:	1212276				M	atrix: EQU	JIP BLA	ANK
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed
	S: ICP-MS - WATER		SW60					Analyst: SW
Antimony	I	<0.000800	0.000800	0.00250		mg/L	1	01/03/13 03:15 AM
Arsenic Lead		<0.00200 <0.000300	0.00200 0.000300	0.00500 0.00100		mg/L . mg/L	1 1	01/03/13 03:15 AM 01/03/13 03:15 AM
Lead		~0.000000	0.000300	0.00100		. mg/L	•	01100/10/00:10/10
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ME7 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

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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

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DHL Ana	lytical, Inc.		D	ate:	10-Ja	n-13				
CLIENT:	D. B. Stephens & As	ssoc, Inc.		Client Sample ID: ER-2						
Project:	Rockwool Ind. Belt	on, TX		Lab ID: 1212276-18						
Project No:	ES13.AIRS.11.001.0	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 METAL	S: ICP-MS - WATER		SW60)20A			Analyst: SW			
Antimony		<0.000800	0 .008000. 0	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		

MIC7 1-13-17

ND - Not Detected at the SDL

- J Analyte detected between SDL and RL
- ${\bf B}$ 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

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DHL Anal	lytical, Inc.		D	ate:	10-Ja	n-13				
CLIENT:	D. B. Stephens & As	soc, Inc.		Client Sample ID: MW-20						
Project:	Rockwool Ind. Belto	on, TX		Lab ID: 1212276-19						
Project No:	ES13.AIRS.11.001.0	01		Collection Date: 12/27/12 01:32 PM						
Lab Order:	1212276	Matrix: AQUEOUS								
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed		
TRACE METAL	S: ICP-MS - WATER		SW60)20A			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	1	mg/L	1	01/03/13 03:26 AM		

MK7 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

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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 Ana	lytical, Inc.		Date: 10-Jan-13									
CLIENT:	D. B. Stephens & As	soc, Inc.	Client Sample ID: MW-21									
Project:	Rockwool Ind. Belto	on, TX			La	b ID: 121	2276-20					
Project No:	ES13.AIRS.11.001.0		Col	llection	Date: 12/2	27/12 03	:10 PM					
Lab Order:	1212276 Matrix: AQUEOUS											
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed				
TRACE METAL	S: ICP-MS - WATER		SW60	20A				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	£	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				

MK7 1-13-13

ifiers: 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 Anal	lytical, Inc.		Date: 10-Jan-13								
CLIENT:	D. B. Stephens & As	soc, Inc.		Client Sample ID: MW-22							
Project:	Rockwool Ind. Belto	on, TX			La	b ID: 121	2276-21				
Project No:	ES13.AIRS.11.001.0)01		Co	lection	Date: 12/2	27/12 02	:27 PM			
Lab Order:	1212276 Matrix: AQUEOUS										
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed			
TRACE METAL	S: ICP-MS - WATER		SW60)20A				Analyst: AJR			
Antimony		<0.000800	0.000800	0.00250		mg/L	1	01/09/13 02:08 PM			
Arsenic		<0.00200	0.0020 0	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			

MK-7 1-13-13

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

- SDL Sample Detection Limit
- E TPH pattern not Gas or Diesel Range Pattern

RL - Reporting Limit (MQL adjusted for moisture and sample size)

DHL Anal	lytical, Inc.			D	n-13							
CLIENT:	D. B. Stephens & Asso	oc, Inc.	Inc. Client Sample ID: MW-35-90									
Project:	Rockwool Ind. Belton	, TX			La	b ID: 121	2276-22					
Project No:	ES13.AIRS.11.001.00	1		Collection Date: 12/28/12 09:05 AM								
Lab Order:	1212276		M	atrix: AQ	UEOUS							
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed				
TRACE METAL	S: ICP-MS - WATER		SW60)20A				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				

n 167 1-13-13

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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

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DHL Ana	lytical, Inc.	Date: 10-Jan-13								
CLIENT:	D. B. Stephens & Ass	soc, Inc.	Client Sample ID: MW-37-90							
Project:	Rockwool Ind. Belto	n, TX			La	b ID: 121	2276 -23			
Project No:	ES13.AIRS.11.001.0	Collection Date: 12/27/12 04:25 PM								
Lab Order:	1212276 Matrix: AQUEOUS									
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed		
	LS: ICP-MS - WATER		SW60	20A				Analyst: AJR		
Antimony		0.000980	0.000800	0.00250	1	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		

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m167 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

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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

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DHL Ana	lytical, Inc.		Date: 10-Jan-13							
CLIENT:	D. B. Stephens & Ass	oc, Inc.		Clier	t Sampl	le ID: MW	/-38-90			
Project:	Rockwool Ind. Belton	n, TX			La	b ID: 121	2276-24			
Project No:	ES13.AIRS.11,001.00)1		Col	lection	Date: 12/2	27/12 03	:53 PM		
Lab Order:	1212276			Matrix: AQUEOUS						
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed		
TRACE METAL	S: ICP-MS - WATER		SW60	20A		-		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		

MIL7 13

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

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DHL Analytical, Inc.

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Date: 10-Jan-13

		T	(Inita (
Project:	Rockwool Ind. Belton, TX	RunID:	ICP-MS2	_121204B
Work Order:	1212276	man nent ye	Selvin	
CLIENT:	D. B. Stephens & Assoc, Inc.	ANALYTICAL QC	SUMMA	RY REPOR

Sample ID: DCS-54340-1.1	NUL Batch ID:	54340		TestNo): SW	6020A		Units:	mgi	L	
SampType: DCS	Run ID:	ICP-MS2	2 _12 1204B	Analys	is Date: 12/4	4/2012 3: <mark>32</mark> :	00 PM	Prep Date	: 10/2	23/2012	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD	RPDLimit Q	lual
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:

Analyte detected in the associated Method Blank В

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

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CLIENT:		-	Assoc, Inc.		Δ	NALVT	TCAT		UMMAI	DV D	F PAD'
Work Order:	1212276						ICAL	QC D	UMIMAI		LIUN
Project:		ol Ind. Be	•				RunI		ICP-MS2_	130109	PC
The QC data in bat	tch 55427 ap	plies to the	following sa	amples: 121	2276-21A, 121	2276-22A, 12	212276-23A	, 121227	6-24A		
Sample ID: MB-55	427	Batch ID): 55427		Test	lo: SW	6020A		Units:	mg/L	
SampType: MBLK		Run ID:	ICP-MS	2_130109C	Anaiy	sis Date: 1/9/	2013 1: 33 :	00 PM	Prep Date:	1/8/20	13
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLin	nit HighLimit	%RPD R	PDLimit Qu
Antimony			<0.0008 00	0.00250	_						
Arsenic			<0.00200	0.00500							
Lead			<0.000300	0.00100							
Sample ID: LCS-5	5427	Batch ID	55427		TestN	o: SW	6020A		Units:	mg/L	
SampType: LCS		Run ID:	ICP-MS	2_130109C	Analy	sis Date: 1/9/	2013 1:50:0	0 PM	Prep Date:	1/8/20	13
Analyte			Result	RL É	SPK value	Ref Val	%REC	LowLim	hit HighLimit %	RPD R	PDLimit Qu
Antimony			0.183	0.00250	0.200	0	91.5	80	120		
Arsenic			0.194	0.00500	0.200	0	9 7.0	80	120		
Lead			0.0388	0.00100	0.0400	0	97.0	80	120		
Sample ID: LCSD-	55427	Batch ID	: 55427		TestN	o: SW	6020A		Units:	mg/L	
SampType: LCSD		Run ID:	ICP-MS	2_13 01 09C	Analy	sis Date: 1/9/	2013 1:56:0	0 PM	Prep Date:	1/8/20	13
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	RPD R	PDLimit Qu
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
_ead			0.0398	0.00100	0.0400	0	99.4	80	120	2.44	15
Sample ID: 121227	6-21A SD	Batch ID:	55427		TestN): SW (5020A		Units:	mg/L	
SampType: SD		Run ID:	ICP-MS2	2_130109C	Analys	is Date: 1/9/2	2013 2:1 4:0	0 PM	Prep Date:	1/8/201	3
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	RPD R	DLimit Qu
Antimony			<0.00400	0.0125	0	0				0	10
Arsenic	•		<0.0100	0.0250	0	0				0	10
.ead		(0.000606	0.00500	0	0.000629			·	3.81	10
Sample ID: 121227	6-21A PDS	Batch ID:	55427		TestNo	: SW E	020A		Units:	mg/L	
SampType: PDS		Run ID:	ICP-MS2	_130109C	Analys	is Date: 1/9/2	2013 2:43:0	0 PM	Prep Date:	1/8/201	3
nalyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	RPD RF	DLimit Qu
Intimony			0.192	0.00250	0.200	0	96.1	80	120		
rsenic			0.188	0.00500	0.200	0	94.2	80	120		
ead			0.198	0.00100	0.200	0.000629	98.8	80	120		
ample ID: 121227	6-21A MS	Batch ID:	55427		TestNo	SW6	020A		Units:	mg/L	
ampType: MS		Run ID:	ICP-MS2	_130109C	Analys	is Date: 1/9/2	013 2:49:00	PM	Prep Date:	1/8/201	3
									t HighLimit %		

- В
- Analyte detected in the associated Method Blank
 - Analyte detected between MDL and RL
 - J 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
- RPD outside accepted control limits R
- S Spike Recovery outside control limits
- Ν Parameter not NELAC certified

Page 2 of 9

ANALYTICAL QC SUMMARY REPORT

1212276 **Project:** Rockwool Ind. Belton, TX

-

Work Order:

ICP-MS2_130109C RunID:

Sample ID: 1212276-21A MS	Batch ID:	55427		TestNo	: SW6	020A		Units:	mg/L	
SampType: MS	Run ID:	ICP-MS2	_130109C	Analysi	is Date: 1/9/2	013 2:49:0	0 P M	Prep Date:	1/8/201	13
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD R	PDLimit 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	: SW6	020A		Units:	mg/L	
SampType: MSD	Run ID:	ICP-MS2	_130109C	Analysi	s Date: 1/9/2	013 2:55:0	0 PM	Prep Date:	1/8/201	13
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD RI	PDLimit 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

Qualifiers:

B Analyte detected in the associated Method Blank

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

Page 3 of 9

CLIENT:	D. B. Stephens & Assoc, Inc.
Work Order:	1212276

ANALYTICAL QC SUMMARY REPORT

Project: Rockwool Ind. Belton, TX

RunID: ICP-MS2_130109C

Sample ID: ICV1-130109	Batch ID:	DEADAD		Teethie				Linker	
				TestNo		V6020A		Units:	mg/L
SampType: ICV	Run ID:	ICP-MS2	2_130109C	Analysi	s Date: 1/9	/2013 1:03:0	0 PM	Prep Date):
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it 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	sw	/6020A		Units:	mg/L
SampType: LCVL	Run ID:	ICP-MS2	_130109C	Analysi	s Date: 1/9	/2013 1:21:0	0 PM	Prep Date	:
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD RPDLimit Qual
Antimony	C).00203	0.00250	0.00200	0	102	70	130	
Arsenic ·	C).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:	SW	/6020A ·		Units:	mg/L
SampType: CCV	Run ID:	ICP-MS2	_130109C	Analysis	s Date: 1/9/	/2013 3:07:0	PM	Prep Date	:
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it 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:	sw	6020A		Units:	mg/L.
SampType: LCVL	Run ID:	ICP-MS2	_130109C	Analysis	s Date: 1/9 /	/2013 3:41:00	PM	Prep Date	:
Analyte	i	Result	RL	SPK value	Ref Val	%REC	LowLimi	t 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	

Qua	lifiers	;
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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

- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAC certified

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CLIENT:	D. B. Stephens & Assoc, Inc.
Work Order:	1212276

ANALYTICAL QC SUMMARY REPORT

Project: Rockwool Ind. Belton, TX

RunID: ICP-MS3_130102A

Sample ID: DCS-54340-1.1 SampType: DCS	Batch ID: Run ID:		3_130102A	TestNo		V6020A V2013 12:41:	00 PM	Units: Prep Date:	mg/ : 10/2	L 23/2012
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	 %RPD	RPDLimit Qual
Antimony	C	0.00103	0.00250	0.00100	0	103	60	140	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:

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

В

- 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

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CLIENT:		phens & A	ssoc, Inc.		A	NALYT	ICAL	QC SI	UMMAI	RY RJ	EPORT
Work Order:	1212276							_			
Project:		l Ind. Belt					RunI		CP-MS3_		
The QC data in ba 06A, 1212276-07A 16A, 1212276-17A	, 1212276-08	3A, 12 122 76	-09A, 1212	2276-10A, 12	276-01A, 121 12276-11A, 12	2276-02A, 12 212276-12A,	12276-03A 1212276-13	, 1212276 3A, 12122	5-04A, 121227 76-14A, 1212	'6-05A, 12 276-15A,	212276- 1212276-
Sample ID: MB-55	369	Batch ID:	55369		TestN	o: SW6	5020A		Units:	mg/L	
SampType: MBLK		Run ID:	ICP-MS	3_130102B	Analy	sis Date: 1/3/2	2013 12:07	00 AM	Prep Date:	1/2/201	3
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLin	it HighLimit %	6RPD R	PDLimit Qual
Antimony		<	0.000800	0.00250			·				
Arsenic		<	0.00200	0.00500							,
Lead		<	0.000300	0.00100				-			
Sample ID: LCS-5	5369	Batch ID:	553 69		TestN	o: SW6	020A		Units:	mg/L	
SampType: LCS		Run ID:	ICP-MS	3_130102B	Analys	sis Date: 1/3/2	013 12:13:	00 AM	Prep Date:	1/2/201	3
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD RF	DLimit 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	o: SW6	020A		Units:	mg/L	
SampType: LCSD		Run ID:	ICP-MS:	3_130102B	Analys	is Date: 1/3/2	013 12:18:	00 AM	Prep Date:	1/2/201	3
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	RPD RF	DLimit 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: 121227	6-20A SD	Batch ID:	5536 9		TestNo	: SW 6	020A		Units:	mg/L	
SampType: SD		Run ID:	ICP-MS3	3_130102B	Analys	is Date: 1/3/2	013 12:35:	00 AM	Prep Date:	1/2/201	3
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	t HighLimit %	RPD RP	DLimit 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			<u> </u>	0	10
Sample ID: 121227	6-20A PDS	Batch ID:	5536 9		TestNo): SW6	020A		Units:	mg/L	
SampType: PDS		Run ID:	ICP-MS3	_ 130 102B	Analys	is Date: 1/3/2	013 1:30:0	DAM	Prep Date:	1/2/201	3
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLimi	tHighLimit %	RPD RP	DLimit 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		

s: 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

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CLIENT: Work Order:	D. B. Step 1212276	ohens & A	ssoc, Inc.		Aľ	NALYT	ICAL (QC SI	UMMA	RY F	REPOR	RT
Project:	Rockwool	Ind. Belt	on, TX				RunII):]	CP-MS3	_1301()2B	
Sample ID: 12122	76-20A MS	Batch ID:	55369		TestNo	o: SW6	020A		Units:	mg/L	•	
SampType: MS		Run ID:	ICP-MS:	3_130102B	Analys	is Date: 1/3/2	2013 1:36:0	0 AM	Prep Date	: 1/2/2	013	
Analyte			Result		SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD	RPDLimit C	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: 12122	76-20A MSD	Batch ID:	55369		TestNo): SW6	020A		Units:	mg/L		
SampType: MSD		Run ID:	ICP-MS3	_130102B	Analys	is Date: 1/3/2	013 1:41:0	MA 0	Prep Date:	: 1/2/2	013	
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD	RPDLimit C	lual
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	

- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- Analyte detected between SDL and RL J

Dilution Factor DF

- MDL Method Detection Limit
- RPD outside accepted control limits R
- S Spike Recovery outside control limits
- Ν Parameter not NELAC certified

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CLIENT: D. B. S Work Order: 121227	Stephens & Assoc, Inc. 76		А	NALYI	TCAL	QC SI	UMMA	RY REPORT
Project: Rockw	ool Ind. Belton, TX				RunI	D:	ICP-MS3	_130102B
Sample ID: ICV1-130102	Batch ID: R64168		Test	lo: SW	/6020A		Units:	mg/L
SampType: ICV	Run ID: ICP-MS	3_130102B	Analy	/sis Date: 1/2 /	/2013 12:07	:00 PM	Prep Date	ə:
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD RPDLimit Qu
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		TestN	lo: SW	60 20A		Units:	mg/L
SampType: LCVL	Run ID: ICP-MS	3_130102B	Analy	sis Date: 1/2/	2013 12:24:	00 PM	Prep Date	ə:
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD RPDLimit Qu
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		TestN	o: SW	6020A		Units:	mg/L
SampType: CCV	Run ID: ICP-MS	3_130102B	Analys	sis Date: 1/2/	2013 11:17:	00 PM	Prep Date	:
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD RPDLimit Qua
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		TestN	o: SW	6020A		Units:	mg/L
SampType: LCVL	Run ID: ICP-MS3	3_130102B	Analys	sis Date: 1/2/ 2	2013 11:45:	00 PM	Prep Date	:
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimi	t HighLimit	%RPD RPDLimit Qua
Antimony	0.00216	0.00250	0.00200	0	108	70	130	
Arsenic	0.00527	0.00500	0.00500	0	105	70	130	
_ead	0.00106	0.00100	0.00100	0	106	70	130	
Sample ID: CCV7-130102	Batch ID: R64168		TestNo	D: SW6	50 20A		Units:	mg/L
SampType: CCV	Run ID: ICP-MS3	_130102B	Analys	sis Date: 1/3/2	2013 1:47:00	MA (Prep Date:	:
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimi	t HighLimit	%RPD RPDLimit Qua
Intimony	0.194	0.00250	0.200	0	97.2	90	110	
Arsenic	0.198	0.00500	0.200	0	. 98.9	90	110	
ead	0.198	0.00100	0.200	0	98.8	90	110	
ample ID: LCVL7-130102	Batch ID: R64168		TestNo	o: SW6	020A		Units:	mg/L
SampType: LCVL	Run ID: ICP-MS3	_130102B	Analys	is Date: 1/3/2	2013 2:20:00	MA	Prep Date:	:
nalyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	t HighLimit	%RPD RPDLimit Qua
ntimony	0.00215	0.00250	0.00200	0	108	70	130	
Qualifiers: B Analyte d	etected in the associated Me	thod Blank	DF	Dilution Facto	r			
	etected between MDL and F		MDL	Method Detect	tion Limit			Page 8 of 9
ND Not Detec	ted at the Method Detection	Limit	R	RPD outside a	ccented contr	ol limits		-

ND Not Detected at the Method Detection Limit

RL Reporting Limit

2

J Analyte detected between SDL and RL

R RPD outside accepted control limits

S Spike Recovery outside control limits

N Parameter not NELAC certified

CLIENT: Work Order:	D. B. Ste 1212276	phens & A	ssoc, Inc.		AN	NALYT	ICAL (QC S	UMMA	RY REPORT
Project:	Rockwoo	ol Ind. Bel	ton, TX				RunIl	D:	ICP-MS3	_130102B
Sample ID: LCVL	7-130102	Batch ID			TestNo	: SW(5020A		Units:	mg/L
SampType: LCVL		Run ID:	ICP-MS	3_130102B	Analys	is Date: 1/3 /2	2013 2:20:0	0 AM	Prep Date	:
Analyte		_	Result	RL	SPK value	Ref Val	%REC	LowLin	nit 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	: SWE	5020A		Units:	mg/L
SampType: CCV		Run ID:	ICP-MS	3_130102B	Analys	is Date: 1/3/2	2013 3:32:0	0 AM	Prep Date	:
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it 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	: SW6	020A		Units:	mg/L
SampType: LCVL		Run ID:	ICP-MS	3_130102B	Analysi	s Date: 1/3/2	013 4:00:0	MA 0	Prep Date	:
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it 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		1	0.00102	0.00100	0.00100	0	102	70	130	

Analyte detected in the associated Method Blank

- Analyte detected between MDL and RL J
- Not Detected at the Method Detection Limit ND
- RL Reporting Limit

в

J Analyte detected between SDL and RL DF **Dilution Factor**

- MDL Method Detection Limit
- RPD outside accepted control limits R
- Spike Recovery outside control limits S
- Ν Parameter not NELAC certified

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DHL Analytical, Inc.

Lead

0.000300

0.00100

CLIENT: D. B. Stephens & Assoc, Inc. **MQL SUMMARY REPORT** Work Order: 1212276 **Project:** Rockwool Ind. Belton, TX TestNo: SW6020A MQL MDL Analyte mg/L mg/L Antimony 0.000800 0.00250 0.00200 0.00500 Arsenic

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Qualifiers:

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Date: 10-Jan-13

APPENDIX B

LABORATORY NELAP CERTIFICATE



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.

Executive Director Texas Commission on Environmental Quality

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





NELAP - Recognized Laboratory Fields of Accreditation

	Certificate:	T104704211-12-8
DHL Analytical, Inc.	Expiration Date:	4/30/2013
2300 Double Creek Drive Round Rock, TX 78664-3801	Issue Date:	5/1/2012

Matrix: Non-Potable Water			
Method EPA 1010			
Analyte	AB	Analyte ID	Method ID
Ignitability	ТХ	1780	10116606
Method EPA 120.1			
Analyte	AB	Analyte ID	Method ID
Conductivity	ТХ	1610	10006403
Method EPA 1311			
Analyte	AB	Analyte ID	Method ID
TCLP	ТХ	849	10118806
Method EPA 1312			
Analyte	AB	Analyte ID	Method ID
SPLP	ТХ	850	10119003
Method EPA 150.1			
Analyte	AB	Analyte ID	Method ID
рН	ТХ	1900	10008409
Method EPA 160.1			
Analyte	AB	Analyte ID	Method ID
Residue-filterable (TDS)	ТΧ	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)	ТХ	1803	10127807
Method EPA 180.1			
Analyte	AB	Analyte ID	Method ID
Turbidity	ТХ	2055	10011606
lethod EPA 200.8			
Analyte	AB	Analyte ID	Method ID
Aluminum	ТХ	1000	10014605
Antimony	ТХ	1005	10014605
Arsenic	ТХ	1010	10014605
Page 1	of 38		





NELAP - Recognized Laboratory Fields of Accreditation

	Certificate:	T104704211-12-8
DHL Analytical, Inc.	Expiration Date:	4/30/2013
2300 Double Creek Drive Round Rock, TX 78664-3801	Issue Date:	5/1/2012

Matrix: Non-Potable Water			
Barium	TX	1015	10014605
Beryllium	TX	1020	10014605
Boron	ТХ	1025	10014605
Cadmium	ТΧ	1030	10014605
Calcium	TX	1035	10014605
Chromium	ТХ	1040	10014605
Cobalt	ТХ	1050	10014605
Copper	TX	1055	10014605
Iron	ТХ	1070	10014605
Lead	ТХ	1075	10014605
Magnesium	ТХ	1085	10014605
Manganese	TX	1090	10014605
Molybdenum	TX	1100	10014605
Nickel	TX	1105	10014605
Potassium	TX	1125	10014605
Selenium	ΤХ	1140	10014605
Silver	ТХ	1150	10014605
Sodium	ТХ	1155	10014605
Strontium	TX	1160	10014605
Thallium	TX	1165	10014605
Tin	TX	1175	10014605
Titanium	ТХ	1180	10014605
Vanadium	TX	1185	10014605
Zinc	TX	1190	10014605
lethod EPA 245.1			
Analyte	AB	Analyte ID	Method ID
Mercury	TX	1095	10036609
lethod EPA 300.0			
Analyte	AB	Analyte ID	Method ID
Bromide	TX	1540	10053006
Chloride	ТХ	1575	10053006





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	Certificate:	T104704211-12-8
DHL Analytical, Inc.	Expiration Date:	4/30/2013
2300 Double Creek Drive	Issue Date:	5/1/2012
Round Rock, TX 78664-3801		

Matrix: Non-Potable Water			
Fluoride	TX	1730	10053006
Nitrate as N	TX	1810	10053006
Nitrate-nitrite	ТХ	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	ТХ	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	ТХ	1645	10060205
Method EPA 365.2			
Analyte	AB	Analyte ID	Method ID
Orthophosphate as P	ТХ	1870	10070403
Phosphorus	ТХ	1910	10070403
Method EPA 370.1			
Analyte	AB	Analyte ID	Method ID
Silica as SiO2	ТХ	1990	10072001
Method EPA 376.2			
Analyte	AB	Analyte ID	Method ID
Sulfide	ТХ	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.	Expiration Date:	4/30/2013
2300 Double Creek Drive Round Rock, TX 78664-3801	Issue Date:	5/1/2012

latrix: Non-Potable Water			
Method EPA 602			
Analyte	AB	Analyte ID	Method ID
Benzene	ТХ	4375	10102202
Ethylbenzene	ТХ	4765	10102202
m+p-xylene	ТХ	5240	10102202
Methyl tert-butyl ether (MTBE)	ТХ	5000	10102202
o-Xylene	ТХ	5250	10102202
Toluene	ТХ	5140	10102202
Xylene (total)	ТХ	5260	10102202
Method EPA 6020			
Analyte	AB	Analyte ID	Method ID
Aluminum	ТХ	1000	10156204
Antimony	ТХ	1005	10156204
Arsenic	ТХ	1010	10156204
Barium	ТХ	1015	10156204
Beryllium	ТХ	1020	10156204
Boron	ТХ	1025	10156204
Cadmium	ТХ	1030	10156204
Calcium	ТХ	1035	10156204
Chromium	ТХ	1040	10156204
Cobalt	ТХ	1050	10156204
Copper	ТХ	1055	10156204
Iron	ТХ	1070	10156204
Lead	ТХ	1075	10156204
Lithium	ТХ	1080	10156204
Magnesium	ТХ	1085	10156204
Manganese	ТХ	1090	10156204
Molybdenum	ТХ	1100	10156204
Nickel	ТХ	1105	10156204
Potassium	ТХ	1125	10156204
Selenium	ТХ	1140	10156204





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Matrix: Non-Potable Water			
Silver	ТХ	1150	10156204
Sodium	ТХ	1155	10156204
Strontium	ТХ	1160	10156204
Thallium	ТХ	1165	10156204
Tin	ТХ	1175	10156204
Titanium	тх	1180	10156204
Vanadium	тх	1185	10156204
Zinc	ТХ	1190	10156204
Method EPA 608			
Analyte	AB	Analyte ID	Method ID
Aroclor-1016 (PCB-1016)	ТХ	8880	10103603
Aroclor-1221 (PCB-1221)	ТХ	8885	10103603
Aroclor-1232 (PCB-1232)	ТХ	8890	10103603
Aroclor-1242 (PCB-1242)	ТХ	8895	10103603
Aroclor-1248 (PCB-1248)	ТХ	8900	10103603
Aroclor-1254 (PCB-1254)	ТХ	8905	10103603
Aroclor-1260 (PCB-1260)	ТΧ	8910	10103603
Method EPA 624			
Analyte	AB	Analyte ID	Method ID
1,1,1-Trichloroethane	ТХ	5160	10107207
1,1,2,2-Tetrachloroethane	ТХ	5110	10107207
1,1,2-Trichloroethane	ΤХ	5165	10107207
1,1-Dichloroethane	ТХ	4630	10107207
1,1-Dichloroethylene	ТХ	4640	10107207
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10107207
1,2-Dichlorobenzene	ТΧ	4610	10107207
1,2-Dichloroethane (Ethylene dichloride)	ТХ	4635	10107207
1,2-Dichloropropane	ТХ	4655	10107207
1,3-Dichlorobenzene	ТХ	4615	10107207
1,4-Dichlorobenzene	ΤХ	4620	10107207
2-Butanone (Methyl ethyl ketone, MEK)	тх	4410	10107207
Dage 5	¥ 39		





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atrix: Non-Potable Water			
2-Chloroethyl vinyl ether	TX	4500	10107207
Acetone (2-Propanone)	ТΧ	4315	10107207
Acrolein (Propenal)	ТХ	4325	10107207
Acrylonitrile	TX	4340	10107207
Benzene	TX	4375	10107207
Bromodichloromethane	ТХ	4395	10107207
Bromoform	ΤX	4400	10107207
Carbon tetrachloride	TX	4455	10107207
Chlorobenzene	ТХ	4475	10107207
Chlorodibromomethane	ТХ	4575	10107207
Chloroethane (Ethyl chloride)	ТХ	4485	10107207
Chloroform	ТХ	4505	10107207
cis-1,2-Dichloroethylene	TX	4645	10107207
cis-1,3-Dichloropropene	TX	4680	10107207
Ethylbenzene	ТХ	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)	ТΧ	5000	10107207
Methylene chloride (Dichloromethane)	TX	4975	10107207
Naphthalene	ТΧ	5005	10107207
o-Xylene	ТΧ	5250	10107207
Tetrachloroethylene (Perchloroethylene)	ТΧ	5115	10107207
Toluene	TX	5140	10107207
Total trihalomethanes	ТΧ	5205	10107207
trans-1,2-Dichloroethylene	ТΧ	4700	10107207
trans-1,3-Dichloropropylene	ТΧ	4685	10107207
Trichloroethene (Trichloroethylene)	ТΧ	5170	10107207
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	ТХ	5175	10107207
Vinyl chloride	ТХ	5235	10107207





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DHL Analytical, Inc.	Expiration Date:	4/30/2013
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Matrix: Non-Potable Water			
Xylene (total)	ТХ	5260	10107207
Method EPA 625			
Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	ТХ	6715	10107401
1,2,4-Trichlorobenzene	ТХ	5155	10107401
1,2-Dichlorobenzene	ТХ	4610	10107401
1,2-Diphenylhydrazine	ТХ	6220	10107401
1,3-Dichlorobenzene	ТХ	4615	10107401
1,4-Dichlorobenzene	ТХ	4620	10107401
2,3,4,6-Tetrachlorophenol	ТХ	6735	10107401
2,4,5-Trichlorophenol	ТХ	6835	10107401
2,4,6-Trichlorophenol	ТХ	6840	10107401
2,4-Dichlorophenol	ТХ	6000	10107401
2,4-Dimethylphenol	ТХ	6130	10107401
2,4-Dinitrophenol	ТХ	6175	10107401
2,4-Dinitrotoluene (2,4-DNT)	ТХ	6185	10107401
2,6-Dinitrotoluene (2,6-DNT)	тх	6190	10107401
2-Chloronaphthalene	TX	5795	10107401
2-Chlorophenol	ТХ	5800	10107401
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	ТХ	6360	10107401
2-Methylphenol (o-Cresol)	ТХ	6400	10107401
2-Nitrophenol	ТХ	6490	10107401
3,3'-Dichlorobenzidine	ТХ	5945	10107401
4,4'-DDD	ТХ	7355	10107401
4,4'-DDE	тх	7360	10107401
4,4'-DDT	тх	7365	10107401
4-Bromophenyl phenyl ether (BDE-3)	тх	5660	10107401
4-Chloro-3-methylphenol	ТХ	5700	10107401
4-Chlorophenyl phenylether	ТХ	5825	10107401
4-Methylphenol (p-Cresol)	ТХ	6410	10107401





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Those fields of appreditation supercode all provious fields	The Texes Commission on Environmental Qualit	urges austomore to

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





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





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Matrix: Non-Potable Water			
Phenanthrene	ТХ	6615	10107401
Phenol	ТХ	6625	10107401
Pyrene	ТХ	6665	10107401
Pyridine	ТХ	5095	10107401
Toxaphene (Chlorinated camphene)	ТХ	8250	10107401
Method EPA 7196			
Analyte	AB	Analyte ID	Method ID
Chromium (VI)	ТХ	1045	10162400
Method EPA 7470			
Analyte	AB	Analyte ID	Method ID
Mercury	ТХ	1095	10165807
Method EPA 8011			
Analyte	AB	Analyte ID	Method ID
1,2-Dibromoethane (EDB, Ethylene dibromide)	ТХ	4585	10173009
Method EPA 8015			
Analyte	АВ ТХ	Analyte ID	Method ID
Diesel range organics (DRO)		9369	10173203
Ethylene glycol	TX	4785	10173203
Gasoline range organics (GRO)	TX	9408	10173203
Propylene Glycol	ТХ	6657	10173203
Nethod EPA 8021			
Analyte Benzene	АВ ТХ	Analyte ID	Method ID
Ethylbenzene	ТХ	4375	10174808
m+p-xylene	ТХ	4765	10174808
	TX	5240	10174808
Methyl tert-butyl ether (MTBE) o-Xylene		5000	10174808
Toluene	TX	5250	10174808
	TX	5140	10174808
Xylene (total)	ТХ	5260	10174808
Nethod EPA 8082	. –		
Analyte	AB	Analyte ID	Method ID





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Matrix: Non-Potable Water			
Aroclor-1016 (PCB-1016)	ТХ	8880	10179007
Aroclor-1221 (PCB-1221)	ТХ	8885	10179007
Aroclor-1232 (PCB-1232)	ТХ	8890	10179007
Aroclor-1242 (PCB-1242)	ТХ	8895	10179007
Aroclor-1248 (PCB-1248)	ТХ	8900	10179007
Aroclor-1254 (PCB-1254)	ТХ	8905	10179007
Aroclor-1260 (PCB-1260)	ТХ	8910	10179007
PCBs (total)	ТХ	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)	ТХ	5195	10184802
1,1,2-Trichloroethane	ТХ	5165	10184802
1,1-Dichloroethane	ТХ	4630	10184802
1,1-Dichloroethylene	ТХ	4640	10184802
1,1-Dichloropropene	ТХ	4670	10184802
1,2,3-Trichlorobenzene	TX	5150	10184802
1,2,3-Trichloropropane	ТХ	5180	10184802
1,2,4-Trichlorobenzene	ТХ	5155	10184802
1,2,4-Trimethylbenzene	ТХ	5210	10184802
1,2-Dibromo-3-chloropropane (DBCP)	ТХ	4570	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	ТХ	4585	10184802
1,2-Dichlorobenzene	ТХ	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	ТХ	4635	10184802
1,2-Dichloropropane	ТХ	4655	10184802
1,3,5-Trimethylbenzene	ТХ	5215	10184802
1,3-Dichlorobenzene	ТХ	4615	10184802
1,3-Dichloropropane	ТХ	4660	10184802





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





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





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DHL Analytical, Inc.	Expiration Date:	4/30/2013
2300 Double Creek Drive Round Rock, TX 78664-3801	Issue Date:	5/1/2012

Matrix: Non-Potable Water			
Xylene (total)	ТХ	5260	10184802
Method EPA 8270			
Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	ТХ	6715	10185805
1,2,4-Trichlorobenzene	ТХ	5155	10185805
1,2-Dichlorobenzene	ТХ	4610	10185805
1,2-Diphenylhydrazine	тх	6220	10185805
1,3-Dichlorobenzene	ТХ	4615	10185805
1,4-Dichlorobenzene	тх	4620	10185805
1-Naphthylamine	ТХ	6425	10185805
2,3,4,6-Tetrachlorophenol	ТХ	6735	10185805
2,4,5-Trichlorophenol	тх	6835	10185805
2,4,6-Trichlorophenol	ТХ	6840	10185805
2,4-Dichlorophenol	тх	6000	10185805
2,4-Dimethylphenol	ТХ	6130	10185805
2,4-Dinitrophenol	ТХ	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	ТХ	6185	10185805
2,6-Dichlorophenol	ТХ	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	, TX	6190	10185805
2-Chloronaphthalene	ТХ	5795	10185805
2-Chlorophenol	ТХ	5800	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	тх	6360	10185805
2-Methylnaphthalene	тх	6385	10185805
2-Methylphenol (o-Cresol)	ТХ	6400	10185805
2-Naphthylamine	ΤХ	6430	10185805
2-Nitroaniline	тх	6460	10185805
2-Nitrophenol	тх	6490	10185805
2-Picoline (2-Methylpyridine)	тх	5050	10185805
3,3'-Dichlorobenzidine	тх	5945	10185805
3-Methylcholanthrene	тх	6355	10185805





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





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





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





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





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atrix: Non-Potable Water			
Phenacetin	тх	6610	10185805
Phenanthrene	ТХ	6615	10185805
Phenol	тх	6625	10185805
Phorate	ТХ	7985	10186002
Phosmet (Imidan)	ТХ	8000	10186002
Phosphamidon	ТХ	8005	10185805
Pronamide (Kerb)	ТХ	6650	10185805
Pyrene	ТХ	6665	10185805
Pyridine	ТХ	5095	10185805
Quinoline	тх	6670	10185805
Sulfotepp	ТХ	8155	10186002
Terbufos	ΤХ	8185	10185805
Tetrachlorvinphos (Stirophos, Gardona)	ТХ	8197	10186002
Tetraethyl pyrophosphate (TEPP)	ТХ	8210	10185407
Toxaphene (Chlorinated camphene)	ТХ	8250	10185203
ethod EPA 8321			
Analyte	AB	Analyte ID	Method ID
2,4,5-T	ТХ	8655	10188804
2,4-D	ТХ	8545	10188804
2,4-DB	ТХ	8560	10188804
Dalapon	ТХ	8555	10188804
Dicamba	ТХ	8595	10188804
Dichloroprop (Dichlorprop, Weedone)	ТХ	8605	10188804
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10188804
	ΤХ	7775	10188804
МСРА	14	1115	10100004
МСРА МСРР	ТХ	7780	10188804
МСРР	ТХ	7780	10188804
MCPP Silvex (2,4,5-TP)	тх тх АВ	7780	10188804
MCPP Silvex (2,4,5-TP) ethod EPA 8330	TX TX	7780 8650	10188804 10188804





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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)	ТХ	6185	10189807
2,6-Dinitrotoluene (2,6-DNT)	ТХ	6190	10189807
2-Amino-4,6-dinitrotoluene (2-am-dnt)	ТХ	9303	10189807
2-Nitrotoluene	тх	9507	10189807
3-Nitrotoluene	ТХ	9510	10189807
4-Amino-2,6-dinitrotoluene (4-am-dnt)	ТХ	9306	10189807
4-Nitrotoluene	ТХ	9513	10189807
Methyl-2,4,6-trinitrophenylnitramine (tetryl)	TX	6415	10189807
Nitrobenzene	ТХ	5015	10189807
Nitroglycerin	тх	6485	10189807
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	тх	9522	10189807
Pentaerythritoltetranitrate (PETN)	ТХ	9558	10189807
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	ТХ	9432	10189807
Method EPA 9014			
Analyte	AB	Analyte ID	Method ID
Amenable cyanide	ТХ	1510	10193803
Total Cyanide	ТХ	1635	10193803
Method EPA 9040			
Analyte	AB	Analyte ID	Method ID
pH	ТХ	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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		·	flatrix: Non-Potable Water
-	Analyte ID	AB	Method EPA 9060 Analyte
40 1020020	2040	ТХ	Total Organic Carbon (TOC)
			Method EPA 9070
-	Analyte ID	АВ ТХ	Analyte
03 1020100	1803		n-Hexane Extractable Material (HEM) (O&G)
u - h - 4 - 1D - BR - 4h d	Augusta ID		Method EPA RSK 175
-	Analyte ID 3755	АВ ТХ	Analyte Carbon dioxide
		тх	Ethane
	4747	ТХ	
	4752		Ethene
26 1021290	4926	ТХ	Methane
			Method HACH 8000
	Analyte ID	AB	Analyte
65 6000300	1565	ТХ	Chemical oxygen demand (COD)
			Method SM 2130 B
•	Analyte ID	AB	Analyte
55 2000240	2055	ТХ	Turbidity
			Method SM 2310 B (4a)
•	Analyte ID	AB	Analyte
00 2000280	1500	ТΧ	Acidity, as CaCO3
			Method SM 2320 B
-	Analyte ID	AB	Analyte
05 2000300	1505	ТХ	Alkalinity as CaCO3
			Method SM 2340 B
-	Analyte ID	AB	Analyte
55 2000340	1755	ТХ	Total hardness as CaCO3
			Method SM 2510 B
-	Analyte ID	AB	Analyte
10 2000380	1610	ТХ	Conductivity
			Method SM 2540 C
nalyte ID Method	Analyte ID	AB	Analyte
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Natrix: Non-Potable Water			
Residue-filterable (TDS)	тх	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	ТХ	1040	20009001
Method SM 4500-CN [—] E			
Analyte	AB	Analyte ID	Method ID
Total Cyanide	ТХ	1635	20021209
Method SM 4500-CN ⁻ G			
Analyte	AB	Analyte ID	Method ID
Amenable cyanide	ТХ	1510	20021607
Method SM 4500-H+ B			
Analyte	AB	Analyte ID	Method ID
рН	ТХ	1900	20016404
Method SM 4500-NH3 F			
Analyte	AB	Analyte ID	Method ID
Ammonia as N	ТХ	1515	20023001
Nethod SM 4500-P E			
Analyte	AB	Analyte ID	Method ID
Orthophosphate as P	ТΧ	1870	20025803
Phosphorus	ТХ	1910	20025803
Method SM 4500-S2 D			
Analyte	AB	Analyte ID	Method ID
Sulfide	ТХ	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)	ТХ	1565	20027809





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Matrix: Non-Potable Water			
Method SM 5310 C			
Analyte	AB	Analyte ID	Method ID
Total Organic Carbon (TOC)	ТХ	2040	20028200
Method TCEQ 1005			
Analyte	AB	Analyte ID	Method ID
Total Petroleum Hydrocarbons (TPH)	ТХ	2050	90019208





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Matrix: Solid & Chemical Materials			
Method ASTM D2216			
Analyte	AB	Analyte ID	Method ID
Moisture	ТХ	10337	ASTM D2216-05
Method EPA 1010			
Analyte	AB	Analyte ID	Method ID
Ignitability	ТХ	1780	10116606
Method EPA 1311			
Analyte	АВ ТХ	Analyte ID	Method ID
TCLP	IX	849	10118806
Method EPA 1312			
Analyte SPLP	АВ ТХ	Analyte ID	Method ID
		850	10119003
Method EPA 200.8			M - 411 1D
Analyte Aluminum	АВ ТХ	Analyte ID 1000	Method ID 10014605
Antimony	ТХ	1000	10014605
Antinony Arsenic	ТХ	1005	10014605
Barium	ТХ		
	ТХ	1015	10014605
Beryllium Cadmium	ТХ	1020	10014605
	TX TX	1030	10014605
Calcium		1035	10014605
Chromium	ТХ	1040	10014605
Cobalt	TX	1050	10014605
Copper	TX	1055	10014605
Iron	TX	1070	10014605
Lead	ТХ	1075	10014605
Magnesium	TX	1085	10014605
Manganese	TX	1090	10014605
Molybdenum	ТХ	1100	10014605
Nickel	ТХ	1105	10014605
Potassium	ТХ	1125	10014605





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Matrix: Solid & Chemical Materials

Selenium	ТХ	1140	10014605
Silver	ТХ	1150	10014605
Sodium	ТХ	1155	10014605
Strontium	ТХ	1160	10014605
Thallium	ТХ	1165	10014605
Tin	TX	1175	10014605
Titanium	TX	1180	10014605
Vanadium	TX	1185	10014605
Zinc	ТХ	1190	10014605
lethod EPA 300.0			
Analyte	AB	Analyte ID	Method ID
Bromide	TX	1540	10053006
Chloride	ТХ	1575	10053006
Fluoride	ТХ	1730	10053006
Nitrate as N	ТΧ	1810	10053006
Nitrate-nitrite	ТХ	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	ТХ	1505	10054805
Method EPA 350.3			
Analyte	AB	Analyte ID	Method ID
Ammonia as N	ТХ	1515	10064401
Nethod EPA 365.2			
Analyte	AB	Analyte ID	Method IE
Orthophosphate as P	ТХ	1870	10070403
Phosphorus	ТХ	1910	10070403
Nethod EPA 6020			
Analyte	AB	Analyte ID	Method IC
Aluminum	TX	1000	10156204





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Matrix: Solid & Chemical Materials ТΧ 1005 10156204 Antimony ТΧ Arsenic 1010 10156204 ТΧ Barium 1015 10156204 ΤХ Beryllium 1020 10156204 TΧ Boron 1025 10156204 ТΧ 10156204 Cadmium 1030 ΤХ 1035 10156204 Calcium ТΧ 1040 10156204 Chromium ТΧ Cobalt 1050 10156204 TΧ Copper 1055 10156204 ТΧ 1070 10156204 Iron TΧ 1075 10156204 Lead ТΧ 1080 10156204 Lithium ТΧ Magnesium 1085 10156204 ТΧ 1090 10156204 Manganese ТΧ 1100 10156204 Molybdenum ТΧ Nickel 1105 10156204 TX Potassium 1125 10156204 Selenium ТΧ 1140 10156204 TΧ Silver 1150 10156204 ΤХ Sodium 10156204 1155 ТΧ Strontium 1160 10156204 ΤХ Thallium 10156204 1165 Tin ТΧ 1175 10156204 TΧ Titanium 1180 10156204 ТΧ Vanadium 1185 10156204 TΧ Zinc 1190 10156204 Method EPA 7196 AB Analyte ID Method ID Analyte TΧ Chromium (VI) 1045 10162400





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Method EPA 7470			
Analyte	AB	Analyte ID	Method ID
Mercury	ТХ	1095	10165807
Method EPA 7471			
Analyte	AB	Analyte ID	Method ID
Mercury	ТХ	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)	ТХ	9408	10173203
Propylene Glycol	TX	6657	10173203
Method EPA 8021			
Analyte	AB	Analyte ID	Method IE
Benzene	TX	4375	10174808
Ethylbenzene	ТХ	4765	10174808
m+p-xylene	ТХ	5240	10174808
Methyl tert-butyl ether (MTBE)	ТХ	5000	10174808
o-Xylene	ТХ	5250	10174808
Toluene	ТΧ	5140	10174808
Xylene (total)	ТХ	5260	10174808
Method EPA 8082			
Analyte	AB	Analyte ID	Method IE
Aroclor-1016 (PCB-1016)	ТХ	8880	10179007
Aroclor-1221 (PCB-1221)	ТХ	8885	10179007
Aroclor-1232 (PCB-1232)	ТХ	8890	10179007
Aroclor-1242 (PCB-1242)	ТХ	8895	10179007
Aroclor-1248 (PCB-1248)	ТХ	8900	10179007
Aroclor-1254 (PCB-1254)	TX	8905	10179007
Aroclor-1260 (PCB-1260)	ТΧ	8910	10179007
PCBs (total)	ТХ	8870	10179007





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		 	-		

Analyte	AB	Analyte ID	Method ID
1,1,1,2-Tetrachloroethane	ТХ	5105	10184802
1,1,1-Trichloroethane	ТХ	5160	10184802
1,1,2,2-Tetrachloroethane	ТХ	5110	10184802
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ТХ	5195	10184802
1,1,2-Trichloroethane	тх	5165	10184802
1,1-Dichloroethane	ТХ	4630	10184802
1,1-Dichloroethylene	ТХ	4640	10184802
1,1-Dichloropropene	ТХ	4670	10184802
1,2,3-Trichlorobenzene	ТХ	5150	10184802
1,2,3-Trichloropropane	ТХ	5180	10184802
1,2,4-Trichlorobenzene	ТХ	5155	10184802
1,2,4-Trimethylbenzene	ТХ	5210	10184802
1,2-Dibromo-3-chloropropane (DBCP)	ТХ	4570	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	ТХ	4585	10184802
1,2-Dichlorobenzene	ТХ	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	ТХ	4635	10184802
1,2-Dichloropropane	TX	4655	10184802
1,3,5-Trimethylbenzene	ТX	5215	10184802
1,3-Dichlorobenzene	ТХ	4615	10184802
1,3-Dichloropropane	ТХ	4660	10184802
1,4-Dichlorobenzene	ТХ	4620	10184802
1-Chlorohexane	TX	4510	10184802
2,2-Dichloropropane	ТХ	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	ТХ	4410	10184802
2-Chloroethyl vinyl ether	TX	4500	10184802
2-Chlorotoluene	ТХ	4535	10184802
2-Hexanone (MBK)	ΤХ	4860	10184802
4-Chlorotoluene	ТХ	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)	ТХ	4315	10184802
Acrolein (Propenal)	ТХ	4325	10184802
Acrylonitrile	TX	4340	10184802
Benzene	ТХ	4375	10184802
Bromobenzene	ТХ	4385	10184802
Bromochloromethane	TX	4390	10184802
Bromodichloromethane	ТХ	4395	10184802
Bromoform	TX	4400	10184802
Carbon disulfide	TX	4450	10184802
Carbon tetrachloride	ТХ	4455	10184802
Chlorobenzene	ТХ	4475	10184802
Chlorodibromomethane	TX	4575	10184802
Chloroethane (Ethyl chloride)	TX	4485	10184802
Chloroform	ТХ	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)	ТХ	4625	10184802
Ethylbenzene	ТХ	4765	10184802
Hexachlorobutadiene	ТХ	4835	10184802
lodomethane (Methyl iodide)	ТХ	4870	10184802
Isopropyl alcohol (2-Propanol, Isopropanol)	ТХ	4895	10184802
Isopropylbenzene (Cumene)	ТХ	4900	10184802
m+p-xylene	ТХ	5240	10184802
Methyl acetate	ТХ	4940	10184802
Methyl bromide (Bromomethane)	ТХ	4950	10184802
Methyl chloride (Chloromethane)	ТХ	4960	10184802
Methyl tert-butyl ether (MTBE)	ТХ	5000	10184802





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Matrix: Solid & Chemical Materials			
Methylcyclohexane	TX	4965	10184802
Methylene chloride (Dichloromethane)	ТΧ	4975	10184802
Naphthalene	ТХ	5005	10184802
n-Butylbenzene	ТХ	4435	10184802
n-Propylbenzene	ТХ	5090	10184802
o-Xylene	ТΧ	5250	10184802
sec-Butylbenzene	ТХ	4440	10184802
Styrene	ТХ	5100	10184802
tert-Butylbenzene	ТΧ	4445	10184802
Tetrachloroethylene (Perchloroethylene)	ТΧ	5115	10184802
Toluene	ТХ	5140	10184802
trans-1,2-Dichloroethylene	ТХ	4700	10184802
trans-1,3-Dichloropropylene	ΤX	4685	10184802
trans-1,4-Dichloro-2-butene	ТХ	4605	10184802
Trichloroethene (Trichloroethylene)	ТΧ	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	ТΧ	5175	10184802
Vinyl acetate	ΤX	5225	10184802
Vinyl chloride	ТΧ	5235	10184802
Xylene (total)	ТΧ	5260	10184802
Method EPA 8270			
Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	ТΧ	6715	10185805
1,2,4-Trichlorobenzene	ТХ	5155	10185805
1,2-Dichlorobenzene	TX	4610	10185805
1,2-Diphenylhydrazine	ТΧ	6220	10185805
1,3-Dichlorobenzene	ТХ	4615	10185805
1,4-Dichlorobenzene	ТХ	4620	10185805
1-Naphthylamine	ТΧ	6425	10185805
2,3,4,6-Tetrachlorophenol	ТΧ	6735	10185805
2,4,5-Trichlorophenol	ТΧ	6835	10185805





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





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





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





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





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





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ТХ	8197	10186002
ТХ	8210	10185407
TX	8250	10185203
AB	Analyte ID	Method ID
ТΧ	8655	10188804
TX	8545	10188804
ТΧ	8560	10188804
ТΧ	8555	10188804
TX	8595	10188804
ΤХ	8605	10188804
ΤХ	8620	10188804
ΤХ	7775	10188804
ΤХ	7780	10188804
ТХ	8650	10188804
AB	Analyte ID	Method ID
TX	6885	10189807
ΤХ	6160	10189807
ТΧ	9651	10189807
ΤХ	6185	10189807
ТΧ	6190	10189807
ТХ	9303	10189807
ТХ	9507	10189807
ТХ	9510	10189807
ТΧ	9306	10189807
ТΧ	9513	10189807
ΤХ	6415	10189807
ΤХ	5015	10189807
TX	6485	10189807
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Pentaerythritoltetranitrate (PETN)	TX	9558	10189807
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	ТХ	9432	10189807
Method EPA 9014			
Analyte	AB	Analyte ID	Method ID
Amenable cyanide	ТХ	1510	10193803
Total Cyanide	ТХ	1635	10193803
Method EPA 9040			
Analyte	AB	Analyte ID	Method ID
Corrosivity	ТХ	1615	10197203
рН	ТХ	1900	10197203
Method EPA 9045			
Analyte	AB	Analyte ID	Method ID
pH	ТХ	1900	10198400
Method EPA 9056			
Analyte	AB	Analyte ID	Method ID
Bromide	ТХ	1540	10199209
Chloride	ТХ	1575	10199209
Fluoride	ТХ	1730	10199209
Nitrate as N	ТХ	1810	10199209
Nitrate-nitrite	ТХ	1820	10199209
Nitrite as N	TX	1840	10199209
Sulfate	ТХ	2000	10199209
Nethod SM 2320 B			
Analyte	AB	Analyte ID	Method ID
Alkalinity as CaCO3	ТХ	1505	20003003
lethod SM 2510 B			
Analyte	AB	Analyte ID	Method ID
Conductivity	ТХ	1610	20003809
Nethod SSA/ASA Part 3:14			
Analyte	AB	Analyte ID	Method ID
Conductivity	ТХ	1610	SSA/ASA Pt 3





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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 MaterialsMethod TCEQ 1005AnalyteABAnalyte IDMethod IDTotal Petroleum Hydrocarbons (TPH)TX205090019208

Remediation Division Correspondence Identification Form

			<u>SITE &</u>	: PROGRAM	AREA IDENT	IFICATION	
SITE LOCATION					REMEDIATION DIVISION PROGRAM AND FACILITY IDENTIFICATION		
Site Name: Rockwool Industries, Inc.					Is This Site Beir	ng Managed Und 🔽 No	ler A State Lead Contract?
Address 1: 1741 Taylors Valley Road					Program Area:	SUPERFUND	
Address 2:					Mail Code:	MC-136	
City: Belton State: Texas			Is This A New S	Site To This Prog	gram Area?		
Zip Code:	76513	County:	Bell	<u> </u>	PROGRAM ID) No.:	SUP033
TCEQ Region: Region:9 Waco					Leave This Fi	eld Blank	Leave This Field Blank

		DOCUMENT(S) IDENTIFICATION	
PI	LASE OF REMEDIATION	DOCUMENT NAME	· · ·
1.	POST-CLOSURE CARE 🛨	DATA USABILITY SUMMARY (DUS)	-
2.	_		*
3.	f 🔫		<u></u>
4.	~		~
5.			~

CONTACT	' INF(ORMATION	

Name:	Attn: Marilyn Long				
Company:	TCEQ, Superfund Section Phone Numb		(512) 239-0761	Fax Number:	(512) 239-2346
Address 1:	MC-136	City: Austin	State: T	X Zip Code:	
Address 2:	Box 13087	Email Address:	Marilyn.Long@tceq.tex	as.gov	
	ENVIRONME	NTAL CONSULTAN	NT/REPORT PREPAR		
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: T	X Zip Code:	78759
Address 2:	Suite 325	Email Address:	wgamblin@dbstephens.	com	

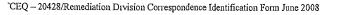
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JUN 07 2013

TCEQ Remediation Division





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.

Dun-Don

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:

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

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

<u>Data Validation</u> – 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	FIELD SAMPLE ID	DATE COLL.	MATRIX	PARAMETER
1303040	1303040-01	MW-7	03/05/2013	Aqueous	MET
	1303040-02	MVV-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
=== 0. =	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 2-2Rockwool IndustriesBelton, Bell County, TexasField 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

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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.

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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	DUPLICATE	QC RESULT	CRITERIA
			RESULT	RESULT		
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.

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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-1Data 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
Х3	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.
Х7	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.
Х9	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-2Data 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 guantitation limit exceeds decision criteria (for nondetected
Inorganic Methods	
ССВ	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
Р	Detected concentration difference between the primary and secondary
Bias Codes	
Н	Bias in sample result likely to be high
]	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 RE: Rockwool Ind. Belton, TX

Order No.: 1303040

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

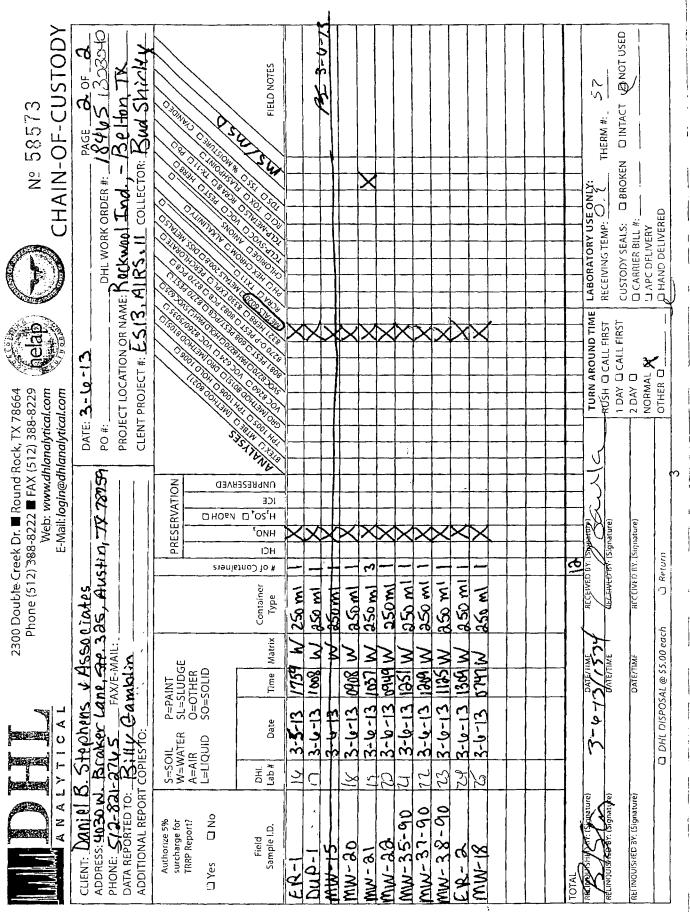
This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-12-9

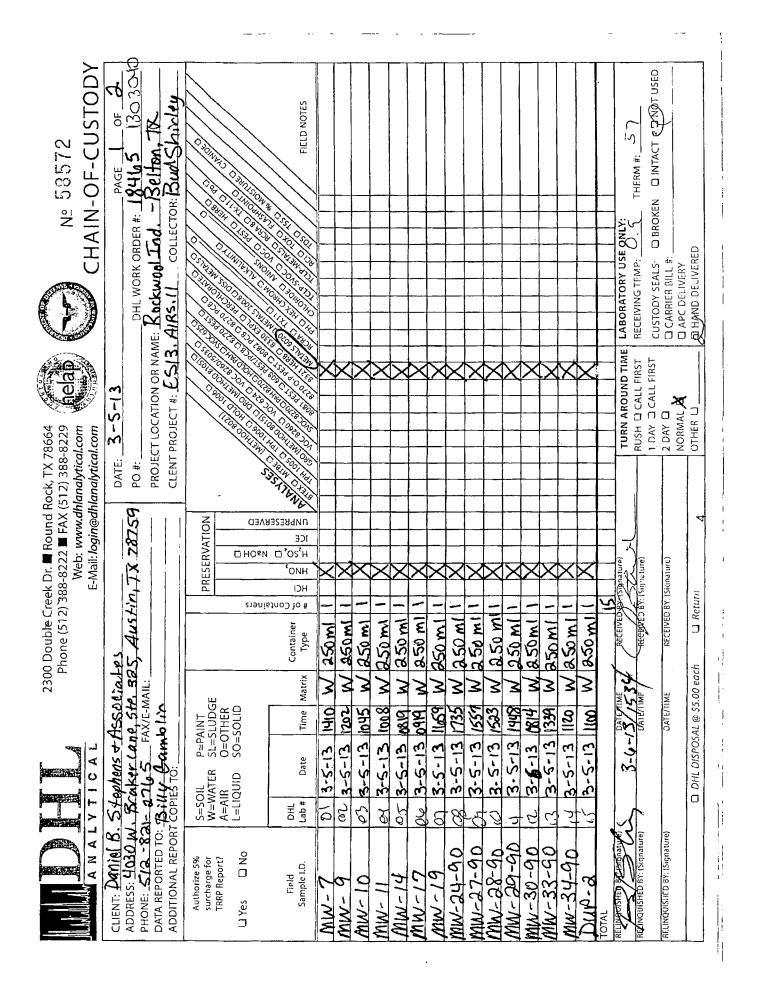


2300 Double Creek Drive • Round Rock, TX 78664 • Phone (512) 388-8222 • FAX (512) 388-8229 www.dhlanalytical.com

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Miscellaneous Documents	
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AnalyticalQCSummaryReport 1303040	
MQLSummaryReport 1303040	
ICP-MS2 Raw Data	
ICP-MS3 Raw Data	





DHL Analytical, Inc.

	Sample	Receip	t Check	dist		
Client Name D. B. Stephens & Assoc, Inc.				Date Re	ceived: 3/6/2013	
Work Order Number 1303040				Received	by JB	
Checklist completed by:	3/6/201 Date Carrier name	<u> </u>	–	Reviewed	d by	3/6/2013 Date
Shipping container/cooler in good condition?		Yes 🔽	٩	No	Not Present	
Custody seals intact on shippping container/co	oler?	Yes [_		Not Present	
Custody seals intact on sample bottles?		Yes 🗹			Not Present	
Chain of custody present?		Yes 🗹	_		Nor resert E	
Chain of custody signed when relinquished and	f received?	Yes 🔽	_			
Chain of custody agrees with sample labels?		Yes 🗹		No 🗋		
Samples in proper container/bottle?		Yes 🔽		No 🗌		
Sample containers intact?		Yes 🗹	2	No 🗔		
Sufficient sample volume for indicated test?		Yes 🖌	<u>.</u>	No[]		
All samples received within holding time?		Yes 🗹	Ĵ	No 🗌		
Container/Temp Blank temperature in compliar	nce?	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?	V?	Chec	ked by	9	
Any No response must be detailed in the comments:	Date contacted:			F	Person contacted	
Corrective Action		·				

Page 1 of 1

DH	LA	nalytical, Inc.						
		tory Review Checklist: Reportable Data me: Rockwool Ind. Belton, TX Da	te: 3/18/13					
	<u> </u>		boratory Work Order: 1303040					
							···	
			n Batch: See Analytical Dates Report					
# ¹⁻	A ²	Description		Yes	No		NR ⁴	ER#
D 1		Chain-of-Custody (C-O-C)			S.		34	de dan ja
RI	OI	1) Did samples meet the laboratory's standard conditions of sam		X	L			RI-01
		2) Were all departures from standard conditions described in ar	exception report?			X	P.113 384	
<u>R2</u>	101	Sample and Quality Control (QC) Identification						
		 Are all field sample ID numbers cross-referenced to the labo Are all laboratory ID numbers cross-referenced to the corres 		$\frac{\mathbf{X}}{\mathbf{X}}$			<u> </u>	
R3	01	Test Reports	ponding QC data?		45.00	70.5	il≁, ∼ Bi	
NJ		1) Were all samples prepared and analyzed within holding time	e9	X	Marin Sal	3	Sainta	THE RESTRO
		2) Other than those results < MQL, were all other raw values by	acketed by calibration standards?	$\frac{\Lambda}{X}$				
		3) Were calculations checked by a peer or supervisor?	acketed by cantifation standards.	$\frac{\Lambda}{X}$	╞───			
	[4) Were all analyte identifications checked by a peer or supervi	sor ⁹	X	<u> </u>			· · · · ·
		5) Were sample detection limits reported for all analytes not de		$\frac{x}{x}$				
		6) Were all results for soil and sediment samples reported on a	dry weight basis?			X		
	1	7) Were % moisture (or solids) reported for all soil and sedimer		ŀ		X		
	i i	8) Were bulk soils/solids samples for volatile analysis extracted		†		X		
		9) If required for the project, TICs reported?				X		
R4	0	Surrogate Recovery Data						
		1) Were surrogates added prior to extraction?		_		X		
	ļ	2) Were surrogate percent recoveries in all samples within the l	aboratory QC limits?			X		
<u>R5</u>	01	Test Reports/Summary Forms for Blank Samples			影	語	影	製品にも
	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 pro	cess, including preparation and, if	x				
		applicable, cleanup procedures?	······					
<u>n</u> /		4) Were blank concentrations < MQL?		X	520 B R	545545	States and	at the second
<u>R6</u>	10	Laboratory Control Samples (LCS):			6.04	编制	1.	and the
		1) Were all COCs included in the LCS?	in al. diamagnetic design of a second s	$\frac{X}{X}$				
		2) Was each LCS taken through the entire analytical procedure.3) Were LCSs analyzed at the required frequency?	menualing prep and cleanup steps?					
		4) Were LCS (and LCSD, if applicable) %Rs within the laborat	on OC limite?	$\frac{\Lambda}{X}$,
		 5) Does the detectability data document the laboratory's capability 						
	i i	to calculate the SDLs?	ing to detect the COCs at the MDE used	X				
	1	6) Was the LCSD RPD within QC limits (if applicable)?		X				
R7		Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data						福田市
		1) Were the project/method specified analytes included in the N		X				
		2) Were MS/MSD analyzed at the appropriate frequency?		X				
		3) Were MS (and MSD, if applicable) %Rs within the laborator	y QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?		X				
<u>R8</u>	IO	Analytical Duplicate Data			Ţ			
		1) Were appropriate analytical duplicates analyzed for each mat				X		
1		2) Were analytical duplicates analyzed at the appropriate freque				X		
		3) Were RPDs or relative standard deviations within the laborat	ory QC limits?	-		X	-	
R9		Method Quantitation Limits (MQLs):						
		1) Are the MQLs for each method analyte included in the labora	itory data package?	<u>X</u>				
		2) Do the MQLs correspond to the concentration of the lowest r	ion-zero calibration standard?	X				
R10	ÖI	3) Are unadjusted MQLs and DCSs included in the laboratory d Other Problems/Anomalies		X	VERS	<u>利息</u> 水	ALC: N	and Marshell
10		1) Are all known problems/anomalies/special conditions noted i	n this I BC and EP?	X		88A		管理法法
		 2) Was applicable and available technology used to lower the S 		<u></u>				
		affects on the sample results?	be to minimize the matrix interference	X				}
i		3) Is the laboratory NELAC-accredited under the Texas Laborat	ory Accreditation Program for the					
		analytes, matrices and methods associated with this laboratory d		X	ł	Í		

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. O = organic analyses, 1 = inorganic analyses (and general chemistry, when applicable). NA = Not applicable. NR = Not Reviewed. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Proje	ct Na	me: Rockwool Ind. Belton, TX Date:	: 3/18/13					
			ratory Work Order: 1303040					
#1	A ²	Description		Yes	No	NA ³	NR ⁴	ER# ⁵
<u></u>	-	Initial Calibration (ICAL)					1/101 (V28)	
	ļ			ch for the second	and all a	e in the	di n denis	1.1.1.1
		 Were response factors and/or relative response factors for each a Were percent RSDs or correlation coefficient criteria met? 	analyte within QC limits?	X 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 standards		$\frac{\Lambda}{X}$				
		5) Are ICAL data available for all instruments used?	nu useu to calculate the entre:	X				
		6) Has the initial calibration curve been verified using an appropria	ite second source standard?	X				
S2	OI	Initial and Continuing calibration Verification (ICCV and CC				<u> </u>		
52	0.	blank (CCB):	, and continuing canor anon					
		1) Was the CCV analyzed at the method-required frequency?		X				<u>v</u>
		2) Were percent differences for each analyte within the method-rec	uired QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	· · · · · · · · · · · · · · · · · · ·	X				
		4) Was the absolute value of the analyte concentration in the inorg	anic CCB < MDL?	X				
S 3	0	Mass Spectral Tuning:						植能祥,
		1) Was the appropriate compound for the method used for tuning?		<u>X</u>				
	ļ	2) Were ion abundance data within the method-required QC limits	?	X	e. 1.2. 27.5		12.9810	
S4	0	Internal Standards (IS):					的编述	
		1) Were IS area counts and retention times within the method-requ	ired QC limits?	a leaded at	X		Line State	S4-0
<u>S5</u>	<u>IO</u>	Raw Data (NELAC Section 5.5.10)						
		1) Were the raw data (for example, chromatograms, spectral data)		X				
0.	-	2) Were data associated with manual integrations flagged on the ra	w data?	X			1000	Sizisi
<u>S6</u>	0	Dual Column Confirmation			1000		Start B	1 473(3)
S7	0	1) Did dual column confirmation results meet the method-required Tentatively Identified Compounds (TICs):	QC :		anne seo c	X	a sa	
5/	<u> </u>	1) If TICs were requested, were the mass spectra and TIC data sub	iect to appropriate checks ⁹	Esterneti	12001	X		
S 8		Interference Check Sample (ICS) Results:	feet to appropriate enceks.	nen prarie	م دوره (معدر مرد در از معدر م			-1-1-1-1
30		1) Were percent recoveries within method QC limits?		X				
S 9		Scrial Dilutions, Post Digestion Spikes, and Method of Standar	d Additions					
	†	1) Were percent differences, recoveries, and the linearity with						
		method?		X				
<u>S10</u>		Mathed Detection Limit (MDL) Studios		en er er			8.29¥	156
510	01	Method Detection Limit (MDL) Studies 1) Was a MDL study performed for each reported analyte?		X	ka di na kina.	التيويد الما	10.220	
		2) Is the MDL either adjusted or supported by the analysis of DCS	e''	$\frac{\Lambda}{X}$				
S11	01	Proficiency Test Reports:					Sec.2	5891
511	- 01	1) Was the lab's performance acceptable on the applicable proficie		X	2012/10/1722	Contraction of	27102007	-H COLOR
S12	01	Standards Documentation	<i>, , , , , , , , , , , , , , , , , , , </i>					
		1) Are all standards used in the analyses NIST-traceable or obtaine		X				
S13	01	Compound/Analyte Identification Procedures						
		1) Are the procedures for compound/analyte identification docume	nted?	X				
S14	OI.	Demonstration of Analyst Competency (DOC)		<u>688</u> 5				
		1) Was DOC conducted consistent with NELAC Chapter 5 - Appe		X				
		2) Is documentation of the analyst's competency up-to-date and on		X	and the second			
<u>815</u>	01	Verification/Validation Documentation for Methods (NELAC C		1-e			1.1.1	
		1) Are all the methods used to generate the data documente	d, verified, and validated, where	x				
		applicable?						
S16	01	Laboratory Standard Operating Procedures (SOPs):						
	1	1) Are laboratory SOPs current and on file for each method perform					ابمصحب	
				Х				

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 O =organic analyses; I =inorganic analyses (and general chemistry, when applicable). NA = Not applicable NR = Not Reviewed VR = Not Reviewed

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
 - c) 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

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03/18/13 Date

RG-366/TRRP-13 May 2010

DHL Analytical, Inc.

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

Date: 18-Mar-13

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: Project:	D. B. Stephens & As Rockwool Ind. Belt		Work Order Sample	Summary
Lab Order:	1303040			
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-H		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

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Lab Order: Client: Project:	1303040 D. B. Stephens & Assoc. Inc. Rockwool Ind. Belton, TX	& Assoc, Inc. Belton, TX			PREP	PREP DATES REPORT	Ц
Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1303040-01A	7-WM	03/05/13 02:10 PM	Vqueous	SW3005A	Aq Prep Metals ICP-MS	03/11/13 09:01 AM	56371
1303040-02A	6-WW	03/05/13-12:02 PM	Vqueous	SW3005A	Aq Prep Metals JCP-MS	03/11/13 09:01 AM	56371
1303040-03A	MW-10	03/05/13 10:45 AM	Vqueous	SW3005A	Aq Prep Metals JCP-MS	03/11/13 09:01 AM	56371
1303040-04A	11-MM	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	Vqueous	SW3005A	Aq Prep Metals 1CP-MS	03/11/13 09:01 AM	56371
1303040-06A	MW-17	03/05/13 09:19 AM	vqueous	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	Md 35:30 £1/30/£0	Aqueous	SW3005A	Aq Prep Metals ICP-MS	03/11/13 09:01 AM	56371
1303040-09A	MW-27-90	Md 25:80 81/80,80	Aqueous	SW3005A	Aq Prep Metals JCP-MS	03/11/13 09:01 AM	56371
I303040-10A	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	Vqucous	SW3005A	Aq Prep Metals ICP-MS	MA 10:90 £1/11/20	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	I-qUCI	03/06/13 10:08 AM	Vqueous	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	MA 10:90 £1/11/£0	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	Vqueous	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	vqueous	SW3005A	Aq Prep Metals , ICP-MS	03/11/13 09:02 AM	56372
1303040-23A	06-8£-MM	03/06/13 11:25 AM	Aqueous	SW3005A	Aq Prep Metals JCP-MS	03/11/13 09:02 AM	56372
	06-88-MM	03/06/13 11:25 AM	vqueous	SW3005A	Aq Prep Metals JCP-MS	03/11/13 09:02 AM	\$6372
1303040-24A	1;R-2	03/06/13/01/20/20	Equip Blank	SW3005A	Aq Prep Metals ICP-MS	03/11/13 09:02 AM	56372
1303040-25A	NUV-11S	MA 71-70 \$1540550	Acheons	AN13005A	Act Pren Metals JC P-MS	1/1/20 20-00 21/11/20	62172

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Client:	D. B. Stephens & Assoc, Inc.	: Assoc, Inc.			AN∕	<b>NLYTIC</b>	ANALYTICAL DATES REPORT	REPORT
Project:	Rockwool Ind. Belton, TX	3elton, 'I'X						
Sample ID	Client Sample ID	Vlatrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1303040-01A	7-WM	Aqueous	SW6020A	Irace Metals ICP-MS - Water	56371	-	03/11/13 05:05 PM	IC'P-MS3_13031118
1303040-02A	0-WM	snoonby	SW6020A	Trace Metals: ICP-MS - Water	56371	-	03/11/13 05:11 PM	ICP-MS3_130311B
1303040-03A	01MM	vqueous	SW6020A	Trace Metals ICP-MS - Water	56371	-	03/11/13 05-17 PM	ICP-MS3_130311B
1303040-04A	II-WM	Vqueous	SW6020A	Trace Metals ICP-MS - Water	56371	-	03/11/13 05:23 PM	ICP-MS3_130311B
1303040-05A	MW-14	Vqueous	SW6020A	Trace Metals: ICP-MS - Water	56371	_	03/11/13 05:29 PM	ICP-MS3_13031113
1303040-06A	MW-17	snoonby	SW6020A	Trace Metals: ICP-MS - Water	56371		03/11/13 05-35 PM	ICP-MS3_130311B
V20-0402021	61-MW	vqueous	SW6020A	Trace Metals: ICP-MS - Water	56371	-	03/11/13 05-42 PM	ICP-MS3_130311B
1303040-08A	MW-24-90	Aqueous	SW6020A	Trace Metals: JCP-MS - Water	56371	_	03/11/13 05:48 PM	ICP-MS3_130311B
1303040-09A	MW-27-90	Vqueous	SW6020A	Trace Metals: ICP-MS + Water	56371	-	03/11/13 05:54 PM	ICP-MS3_130311B
1303040-10A	MW-28-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56371	-	Md 21:10 81/11/120	ICP-MS3_130311B
1303040-11A	MW-29-90	Aqueous	SW6020A	Trace Metals' ICP-MS - Water	56371	1	M4 81:70 £1/11/£0	ICP-MS3_130311B
1303040-12A	00-05-WM	Aqueous	SW6020A	Trace Metals JCP-MS - Water	56371	-	03/11/13 07:24 PM	ICP-MS3_130311B
1303040-13A	MW-33-90	Aqueous	SW6020A	Trace Metals ICP-MS - Water	56371	_	Md 02/11/13 07:30 PM	ICP-MS3_130311B
1303040-14A	MW-34-90	Aqueous	SW6020A	Trace Metals ICP-MS - Water	\$6371	1	03/11/13 07:36 PM	ICP-MS3_130311B
1303040-15A	1)UP-2	γηυουις	SW6020A	Trace Metals ICP-MS - Water	56371		03/11/13 07:42 PM	ICP-MS3_130311B
1303040-16A	ER-1	Equip Blank	SW6020A	I race Metals: ICP-MS - Water	56371	-	Md 84:70 £1/11/20	ICP-MS3_130311B
1303040-17A	1-dOC	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56371	-	03/11/13 07:55 PM	ICP-MS3_130311B
1303040-18A	MW-20	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56371	_	03/11/13 08:01 PM	ICP-MS3_130311B
1303040-19A	MW-21	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56371	_	03/11/13 04:53 PM	ICP-MS3_130311B
1303040-20V	MW-22	Aqueous	SW6020A	I race Metals ICP-MS - Water	56371		03/11/13 08:07 PM	ICP-MS3_130311B
1303040-21A	MW-35-9()	Aqueous	SW6020A	Frace Metals JCP-MS - Water	56372	-	Md 80:90 £1/£1/£0	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	00-72-MM	Aqueous	SW6020A	Trace Metals TCP-MS - Water	56372	_	03/13/13 06:20 PM	ICP-MS2_130313C
1303040-23A	MW-38-90	Aqueous	SW/6020A	I race Metals: R.P-MS - Water	56372	~	03/13/13 06:25 PM	ICP-MS2_130313C
	MVV-38-90	sucoup.	SW6020A	Trace Metals: ICP-MS + Water	56372	01	03/14/13 06:28 PM	ICP-MS2_130314B
1303040-24A	1:R-2	Equip Blank	SW 6020A	Trace Metals: ICP-MS - Water	56372	-	03/13/13 06:31 PM	ICP-MS2_130313C
1303040-25A	MW-18	Aqueous	SN 6020A	Trace Metals: ICP-MS + Water	56372	_	03/13/13 06:37 PM	ICP-MS2_130313C

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DHL Anal	ytical, Inc.				Đ	ate:	18-Mc	ar-13
CLIENT:	D. B. Stephens & As	soc, Inc.		Clien	it Sampl	e ID: MW	/-7	
Project:	Rockwool Ind. Belto	on, TX			La	<b>b ID:</b> 130	3040-01	
Project No:	ES13.AIRS.11			Col	llection	Date: 03/0	)5/13 02:	:10 PM
Lab Order:	1303040				M	atrix: AQ	UEOUS	
Analyses		Result	SÐL	RL	Qual	Units	DF	Date Analyzed
TRACE METAL	S: ICP-MS - WATER		SW60	)20A				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

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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

Page 1 of 25

	ytical, Inc.				Da	te:	18-Ma	ur-13
CLIENT:	D. B. Stephens & As	soc, Inc		Clien	nt Sample	e ID: MW	/-9	
Project:	Rockwool Ind Belt	ən, TX			Lat	<b>ID:</b> 1303	3040-02	•
Project No:	ES13.AIRS.11			Co	ilection <b>E</b>	Date: 03/0	)5/13 12	:02 PM
Lab Order:	1303040				Ma	trix: AQU	UEOUS	
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METAL	S: ICP-MS - WATER	<u> </u>	SW60	)20A				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

ик 6-6-13

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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

Page 2 of 25

DHL Anal	ytical, Inc.				D	ate:	18-Ma	ur-13
CLIENT:	D. B. Stephens & As	soc, Inc.		Clier	nt Samp	le ID: MW	/-10	. <u></u>
Project:	Rockwool Ind. Belto	on, TX			La	<b>b ID:</b> 130	3040-03	
Project No:	ES13.AIRS.11			Co	llection	Date: 03/0	05/13-10	:45 AM
Lab Order:	1303040				Μ	atrix: AQ	UEOUS	
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METAL	S: ICP-MS - WATER		SW60	20A				Analyst SW
Antimony		<0.008000	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

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Qualifiers: ND - Not Detected at the SDL

J - Analyte detected between SDL and RL

 ${\bf B}$  - 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

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DHL Anal	ytical, Inc.				Đ	ate:	18-M	ar-13
CLIENT:	D. B. Stephens & As	soc, Inc.		Clien	t Sampl	e ID: MW	/-11	
Project:	Rockwool Ind Belto	on, TX			La	<b>b ID:</b> 130	3040-04	
Project No:	ES13.AIRS.11			Co	llection	Date: 03/0	)5/13-10	:08 AM
Lab Order:	1303040				Ma	atrix: AQ	UEOUS	
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METAL	S: ICP-MS - WATER		SW60	)20A				Analyst: SW
Antimony		<0.008000	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

MU 3

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

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DHL Anal	ytical, Inc.				D	ate:	18-Ma	ur-13
CLIENT:	D. B. Stephens & As	soc, Inc		Clier	ıt Sampl	le ID: MW	/-14	
Project:	Rockwool Ind. Belto	on, TX			La	<b>b ID:</b> 130	3040-05	
Project No:	ES13.AIRS.11			Co	llection	Date: 03/0	05/13 08	:19 AM
Lab Order:	1303040				M	atrix: AQ	UEOUS	
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METAL	S: ICP-MS - WATER		SW60	)20A				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	L	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

N11 3

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

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DHL Anal	ytical, Inc.	_			D	ate:	18-Ma	ar-13
CLIENT:	D. B. Stephens & Ass	soc, Inc.		Clier	t Samp	le ID: MW	/-17	
Project:	Rockwool Ind. Belto	n, TX			La	<b>b ID:</b> 130	3040-06	
Project No:	ES13.AIRS.11			Co	llection	Date: 03/0	)5/13 09	:19 AM
Lab Order:	1303040				Μ	atrix: AQ	UEOUS	
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METAL	S: ICP-MS - WATER		SW60	)20A				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

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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

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DHL Anal	ytical, Inc.				Da	ate:	18-Ma	ar-13
CLIENT:	D. B. Stephens & As	ssoc, Inc.		Clien	it Sampl	e ID: MW	/-19	
Project:	Rockwool Ind. Belt	on, TX			La	<b>b ID:</b> 130	3040-07	
Project No:	ES13.AIRS.11			Co	llection	Date: 03/0	05/13 04	:59 PM
Lab Order:	1303040				Ma	atrix: AQ	UEOUS	
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METAL	S: ICP-MS - WATER		SW60	)20A				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

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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

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DHL Anal	ytical, Inc.				D	ate:	18-Mc	ur-13
CLIENT:	D. B. Stephens & Ass	soc, Inc.		Clien	ıt Samp	le ID: MW	/-24-90	
Project:	Rockwool Ind Belto	n, TX			La	b ID: 130	3040-08	
Project No:	ES13.AIRS.11			Co	llection	Date: 03/0	5/13 05	:35 PM
Lab Order:	1303040				М	atrix: AQ	UEOUS	
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METAL	.S: ICP-MS - WATER		SW60	20A				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	L	mg/L	1	03/11/13 05:48 PM

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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

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DHL Ana	lytical, Inc.				D	ate:	18-Me	ur-13
CLIENT:	D. B. Stephens & As	ssoc, lnc.		Clier	it Sampl	le ID: MW	/-27-90	
Project:	Rockwool Ind. Belt	on, TX			La	<b>b ID:</b> 130	3040-09	
Project No:	ES13.AIRS.11			Co	llection	Date: 03/0	05/13 03	57 PM
Lab Order:	1303040				Ma	atrix: AQ	UEOUS	
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METAI	LS: ICP-MS - WATER		SW60	20A				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

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S - Spike Recovery outside control limits

 ${\mathbb C}$  - 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

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DHL Anal	ytical, Inc.			D	ate:	18-Ma	<i>ur-13</i>					
CLIENT:	CLIENT: D. B. Stephens & Assoc, Inc.				Client Sample ID: MW-28-90							
Project:	Rockwool Ind. Belte	on, 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 METAL	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	0.00100		mg/L	1	03/11/13 07:12 PM						

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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

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DHL Anal	ytical, Inc.			Da	ate:	18-Mc	ur-13			
CLIENT:	D. B. Stephens & As	soc, Inc.		Client Sample ID: MW-29-90						
Project:	Rockwool Ind Belt	on, TX		Lab 1D: 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 METAL	S: ICP-MS - WATER		SW60	)20A				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		

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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

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DHL Anal	ytical, Inc.			D	ate:	18-Ma	ur-13					
CLIENT:	D. B. Stephens & Ass	soc, Inc		Client Sample ID: MW-30-90								
Project:	Rockwool Ind. Belto	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 METAL	S: ICP-MS - WATER		 SW60	)20A				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				

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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

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DHL Anal	ytical, Inc.				Da	ur-13				
CLIENT:	D B. Stephens & A	ssoe, Inc	Client Sample ID: MW-33-90							
Project:	Rockwool Ind. Belt	on, 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 METAL	S: ICP-MS - WATER		SW60	)20A				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			

MV 3

 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

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DHL Anal	ytical, Inc.			D	ate:	18-Ma	ur-13			
CLIENT:	D. B Stephens & As	ssoc, Inc.	Client Sample ID: MW-34-90							
Project:	Rockwool Ind Belt	on, 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 METAL	S: ICP-MS - WATER	SW60	)20A		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		

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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

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DHL Anal	lytical, Inc.		Date: 18-Mar-13							
CLIENT:	D. B. Stephens & As	ssoc, Inc.	Client Sample ID: DUP-2							
Project:	Rockwool Ind Belt	on, 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 METAL	S: ICP-MS - WATER		SW60	20A				Analyst: <b>SW</b>		
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		

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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

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DHL Anal	ytical, Inc.		<b>Date:</b> 18-Mar-13							
CLIENT:	D. B. Stephens & As	ssoc, Inc.		Client Sample ID: ER-1						
Project:	Rockwool Ind. Belte	on, TX		Lab ID: 1303040-16						
Project No:		Collection Date: 03/05/13 05:59 PM								
Lab Order:	1303040 Matrix: EQUIP BLANK									
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed		
TRACE METAL	RACE 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		

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 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

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DHL Anal	ytical, Inc.			Date: 18-Mar-13							
CLIENT:	D. B. Stephens & Ass	oc, Inc.		Client Sample ID: DUP-1							
Project:	Rockwool Ind. Belto		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			
RACE METAL	S: 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	JI-FU	0.0112	0.000300	0.00100		mg/L	1	03/11/13 07:55 PM	٤c		

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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

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DHL Anal	ytical, Inc.			D	ate:	18-M	ar-13						
CLIENT:	D. B. Stephens & As	D. B. Stephens & Assoc, Inc.				Client Sample ID: MW-20							
Project:	Rockwool Ind Belt	on, 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 METAL	S: ICP-MS - WATER		SW60	)20A				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	L	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					

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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

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DHL Anal	ytical, Inc.			D	ate:	18-Ma	ur-13				
CLIENT:	D. B. Stephens & Ass	soc, Inc	· •· • • • • • • • • • • • • • • • • •	Client Sample ID: MW-21							
Project:	Rockwool Ind. Belto	n, 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 METAL	S: ICP-MS - WATER		SW60	)20A				Analyst SW			
Antimony		0.325	0.000800	0.00250		mg/L	1	03/11/13 04:53 PM			
Arsenic	<i></i>	0.00276	0.00200	0.00500	J	mg/L	1	03/11/13 04:53 PM			
Lead	JI-FD	0.00566	0.000300	0.00100		mg/L	1	03/11/13 04:53 PM	E C 9		

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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

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DHL Anal	ytical, Inc.			D	ate:	18-Mar-13				
CLIENT:	D. B. Stephens & As	soc, Inc.	Client Sample ID: MW-22							
Project:	Rockwool Ind. Belto	on, TX	Lab ID: 1303040-20							
Project No:	ES13.AIRS.11		Collection Date: 03/06/13 09:49 AM							
Lab Order:	1303040				M	atrix: AQ	UEOUS			
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed		
TRACE METAL	RACE METALS: ICP-MS - WATER			)20A				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			0.000300	0.00100	L	mg/L	1	03/11/13 08:07 PM		

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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

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DHL Ana	Date:				18-Mar-13					
CLIENT:	D B Stephens & Ass	soc, Inc.	Client Sample ID: MW-35-90							
Project:	Rockwool Ind Belto	on, TX	Lab ID: 1303040-21							
Project No:	ES13.AIRS.11			Collection Date: 03/06/13 12:51 PM						
Lab Order:	1303040 Matrix: AG									
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed		
TRACE METAL	S: ICP-MS - WATER		SW60	)20A				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	L	mg/L	1	03/13/13 06:08 PM		

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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

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DHL Anal	ytical, Inc.				D	ate:	18-Ma	11-13		
CLIENT:	D. B. Stephens & As	soc, Inc.		Clien	t Sampl	eID: MW	/-37-90			
Project:	Rockwool Ind Belto	on, TX			La	<b>b ID:</b> 130	3040-22			
Project No:	ES13.AIRS.11			Co	llection	Date: 03/0	06/13 12:	09 PM		
Lab Order:	1303040 Matrix: AQUEOUS									
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed		
TRACE METAL	S: ICP-MS - WATER		SW60	20A				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		

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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

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DHL Anal	ytical, Inc.				D	ate:	18-Ma	nr-13			
CLIENT:	D. B. Stephens & As	soc, Inc.		Clien	it Sampl	le ID: MW	/-38-90				
Project:	Rockwool Ind. Belto	on, TX			La	<b>b ID:</b> 130	3040-23				
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 METAL	S: ICP-MS - WATER		SW60	20A				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			

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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

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DHL Anal	ytical, Inc.		Date: 18-Mar-13							
CLIENT:	D. B. Stephens & As	soc, Inc.		Clier	it Samp	le ID: ER-	2			
Project:	Rockwool Ind. Belto	on, TX			La	<b>b ID:</b> 130	3040-24			
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		
FRACE METAL	S: ICP-MS - WATER		SW60	)20A				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		

7. V , 3

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

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DHL Anal	ytical, Inc.			D	ate:	18-Ma	ur-13				
CLIENT:	D. B. Stephens & As	ssoc, Inc.		Client Sample ID: MW-18							
Project:	Rockwool Ind. Belt	on, TX			La	<b>b ID:</b> 130	3040-25				
Project No:	ES13.AIRS.11		Col	llection	Date: 03/0	06/13 07	:47 AM				
Lab Order:	1303040			Matrix: AQUEOUS							
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed			
TRACE METAL	S: ICP-MS - WATER		SW60	)20A				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			

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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

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## DHL Analytical, Inc.

**CLIENT:** 

Date: 18-Mar-13

## ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130201B

Work Order:1303040Project:Rockwool Ind. Belton, TX

D. B. Stephens & Assoc, Inc.

Sample ID [.] DCS-55786-1	Batch ID [.]	55786		TestNo	: S	W6020A		Units	mg/l	L
SampType: <b>DCS</b>	Run ID: ICP-MS2_130201B		Analysis Date: 2/1/2013 3:07:00 PN			РМ	Prep Date:		/2013	
Analyte		Result	RL	SPK value	Ref Va	I %REC	LowLimit	HighLimit		RPDLimit Qua
Antimony	C	.00106	0.00250	0.00100	0	106	60	140	0	0
Arsenic	C	0.00114	0.00500	0.00100	0	114	60	140	0	0
Lead	C	0.00103	0.00100	0.00100	0	103	60	140	0	0

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Qualifiers:	В	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

Analyte detected between SDL and RL

J

N Parameter not NELAC certified

Page 1 of 12

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CLIENT: Work Order:	D. B. Stephens & 1303040	Assoc, Inc.		Aľ	NALYT	ICAL	QC SI	UMMAI	₹Y R	EPOR
	Rockwool Ind. B	elton, TX				RunI	<b>D:</b>	ICP-MS2_	13031	3C
The QC data in batcl			amples. 1303	040-21A, 1303	3040-22A, 13					
Sample ID: MB-563	72 Batch	ID: 56372		TestN	b: SW(	5020A		Units:	mg/L	
SampType [.] MBLK	Run IC	ICP-MS	62_130313C	Analys	sis Date: 3/13	/2013 5:44	:00 PM	Prep Date	3/11/2	2013
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLin	hit HighLimit	%RPD F	RPDLimit Q
Antimony		<0.000800	0.00250							
Arsenic		<0.00200	0.00500							
Lead		< 0.000300	0.00100							
Sample ID: LCS-563	B72 Batch	D: 56372		TestNo	> <b>SW</b> 6	6020A		Units:	mg/L	
SampType [.] LCS	Run ID	ICP-MS	2_130313C	Analys	is Date: <b>3/13</b>	/2013 5:50	:0 <b>0 PM</b>	Prep Date:	3/11/2	2013
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit S	%RPD F	RPDLimit Q
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-5	B372 Batch I	D 56372		TestNo	: SWE	020A		Units	mg/L	
SampType [.] LCSD	Run ID	ICP-MS	2_130313C	Analys	is Date: 3/13,	2013 5:56	00 PM	Prep Date.	3/11/2	2013
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	6RPD F	RPDLimit Q
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
_ead		0.186	0.00100	0.200	0	93.1	80	120	1.39	15
Sample ID: 1303040	-21A SD Batch I	D: 56372		TestNo	): SW6	020A		Units	mg/L	
SampType <b>SD</b>	Run ID	ICP-MS	2_130313C	Analys	is Date: 3/13/	2013 6:14:	00 PM	Prep Date	3/11/2	013
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD R	PDLimit Qi
Arsenic		0.102	0.0250	0	0.0957				6.5 <b>3</b>	10
.ead		<0.00150	0.00500	0	0.000598				0	10
Sample ID: 1303040	-21A PDS Batch I	D [.] 56372		TestNo	SW6	020A		Units	mg/L	
SampType PDS	Run ID	ICP-MS	2_130313C	Analys	is Date: <b>3/13/</b>	2013 6:43:	00 PM	Prep Date	3/11/2	013
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD R	PDLimit Qu
Arsenic		0.277	0.00500	0.200	0.0957	90.8	80	120		
.ead		0.204	0.00100	0.200	0.000598	102	80	120		
Sample ID: 1303040	21A MS Batch I	D [.] 56372		TestNo	SW6	020A		Units	mg/L	·
SampType' <b>MS</b>	Run ID [.]	ICP-MS	2_130313C	Analysi	s Date: 3/13/	2013 6:49:	00 PM	Prep Date	3/11/2	013
nalyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	RPD R	PDLimit Qu
vrsenic		0.272	0.00500	0.200	0.0957	88.1	80	120		
ead		0.195	0.00100	0.200	0.000598	97.1	80	120		

J Analyte detected between MDL and RL

MDL Method Detection Limit

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- ND Not Detected at the Method Detection Limit
- RL Reporting Limit

- Analyte detected between SDL and RL J
- S Spike Recovery outside control limits

Ν Parameter not NELAC certified

R RPD outside accepted control limits

Work Order:	1303040				ANALY HUAL QU SUMMART REFOR								
Project:	Rockwool	Ind. Belt	on, TX				RunID:			_13031	3C		
Sample ID [.] <b>13030</b> SampType: <b>MSD</b>	40-21A MSD	Batch ID: Run ID:		2_130313C	TestNo	o: SW( is Date: 3/13	5020A /2013 6:55:	00 PM	Units Prep Date	mg/L 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		

0.200

0.000598

102

0.00100

## ANALYTICAL OC SUMMARY REPORT

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120

4.56

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Qualifiers:

CLIENT:

Lead

D. B. Stephens & Assoc, Inc.

0.204

В Analyte detected in the associated Method Blank

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

Project:	ler: 130304( Rockwo	ol Ind. Belt	on, TX				RunII	<b>):</b> 1	CP-MS2	_130313C
Sample ID:	ICV1-130313	Batch ID [.]	R65306		TestNo	: SW6	020A		Units	mg/L
SampType	ICV	Run ID [.]	ICP-MS	2_130313C	Analys	is Date: <b>3/13</b> /	2013 2:16:	00 PM	Prep Date	d.
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLin	iit HighLimit	%RPD_RPDLimit Qua
Antimony			0.0988	0.00250	0.100	0	98.8	90	110	
Arsenic Lead			0.101 0.0983	0.00500 0.00100	0.100 0.100	0 0	101 98.3	90 90	110 110	
	U CVI 120212				······		······		Units:	
Sample ID. SampType	ILCVL-130313 LCVL	Run ID	R65306 ICP-MS	2_130313C	TestNo Analys	is Date: 3/13	020A /2013 2:34:	00 PM	Prep Date	mg/L
Analyte			Result	 	SPK value	Ref Val				%RPD_RPDLimit Qua
Antimony			0.00201	0.00250	0.00200	0	100	70	130	
Arsenic			0.00201	0.00200	0.00200	0	115	70	130	
Lead	<u> </u>		0.00105	0.00100	0.00100	0	105	70	130	
Sample ID [.]	CCV1-130313	Batch ID	R65306		TestNo	: SW6	020A		Units:	mg/L
SampType	CCV	Run ID [.]	ICP-MS	2_130313C	Analys	is Date: <b>3/13</b>	/2013 4:50:	00 PM	Prep Date	:
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD RPDLimit Qua
Antimony			0.199	0.00250	0.200	0	99.4	90	110	
Arsenic Lead			0.201 0.196	0.00500 0.00100	0.200 0.200	0 0	101 98.2	90 90	110 110	
	LCVL1-130313	Batch ID.			TestNo	-	020A		Units	mg/L
Sample 1D.		Run ID [.]		2_130313C		is Date: 3/13/		00 PM	Prep Date	-
			Result	RL	SPK value	Ref Val				%RPD_RPDLimit Qua
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	
Sampte ID [.]	CCV2-130313	Batch ID:	R65306		TestNo	SW6	020A		Units	mg/L
SampType:	ccv	Run ID:	ICP-MS	2_130313C	Analys	is Date: <b>3/13</b> /	2013 7:01:	00 PM	Prep Date	
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD RPDLimit Qua
Antimony			0.206	0.00250	0.200	0	103	90	110	
Arsenic			0.212	0.00500	0.200	0	106	90	110	
Lead		<u></u>	0.206	0.00100	0.200	0	103	90	110	
	LCVL2-130313	Batch ID:	R65306		TestNo	SW6	020A		Units	mg/L
SampType [.]	LCVL	Run ID:	ICP-MS	2_130313C	Analys	is Date: 3/13/	2013 7:37:	00 PM	Prep Date	
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD RPDLimit Qua
Antimony		(	0.00253	0.00250	0.00200	0	126	70	130	
Qualifiers:	B Analyte d	etected in the a	ssociated N	1ethod Blank	DF	Dilution Facto	r			······································
	J Analyte d	etected betwee	n MDL and	RI	MDL I	Method Detect	uon Limut			Page 4 of 12

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RL Reporting Limit

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J Analyte detected between SDL and RL

S Spike Recovery outside control limits

N Parameter not NELAC certified

Work Order: Project:	1303040 Rockwo	) ol Ind. Bel	ton, TX		RunID: ICP-MS2_130313C						
Sample ID [.] LCVL	2-130313	Batch ID:	R65306	<u></u>	TestNo	swe	6020A		Units	mg/L	
SampType: LCVL	Run ID [.]	ICP-MS	2_130313C	Analysis Date: 3/13/2013 7:37:00 P			00 PM	Prep Date	9,		
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it 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		

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Qualifiers:

B Analyte detected in the associated Method Blank

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J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

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D. B. Stephens & Assoc, Inc.

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CLIENT:

- Analyte detected between SDL and RL J
- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAC certified

## ANALYTICAL QC SUMMARY REPORT

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CLIENT:	D. B. Step	hens & As	ssoc, Inc.		ΔN	ALYT	ICAL	DC SU	IMMAI	RY REPO	RT
Work Order:	1303040				2 81 9			2000			
Project:	Rockwool	Ind. Belt	on, TX				RunII	); I(	CP-MS2_	130314B	
The QC data in ba	tch 56372 app	lies to the fo	ollowing sa	mples: 1303	040-21A, 13030	040-22A, 13	03040-23A,	1303040-	24A, 13030-	40-25A	
Sample ID: 13030	40-21A SD	Batch ID:	56372		TestNo	SW	6020A		Units:	mg/L	
SampType: <b>SD</b>		Run ID [.]	ICP-MS	2_130314B	Analysi	s Date: <b>3/14</b>	/2013 6:22:	00 PM	Prep Date	3/11/2013	
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLimi	t HighLimit	%RPD RPDLimit	Qual
Antimony	····		1.32	0.125	0	1.31				1.07 10	
Sample ID: 13030	40-21A PDS	Batch ID:	56372		TestNo	SW	6020A		Units:	mg/L	
SampType [.] <b>PDS</b>		Run ID [,]	ICP-MS	2_130314B	Analysi	s Date: <b>3/14</b>	/2013 6:34:	00 PM	Prep Date:	3/11/2013	
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLimi	t HighLimit	%RPD RPDLimit	Qual
Antimony			3.02	0.0250	2.00	1.31	85.6	80	120		
Sample ID: 13030	40-21A MS	Batch ID:	56372		TestNo	sw	6020A		Units.	mg/L	
SampType <b>MS</b>		Run ID [.]	ICP-MS	2_130314B	Analysi	s Date: <b>3/14</b>	/2013 6:40:	00 PM	Prep Date:	3/11/2013	
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLimi	t HighLimit	%RPD RPDLimit	Qual
Antimony			1.46	0.0250	0.200	1.31	79.0	80	120		S

Qualifiers:	В	Analyte detected in the associated Method Blank	DF	Dilution Factor	
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit	Page 6 of 12
	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	Ν	Parameter not NELAC certified	

CLIENT: Work Order:	1303040	ohens & As	·		AN	ALYT		-		RY REPORT
Project:	Rockwool	Ind. Belto	on, TX			<u></u>	RunI	D:	ICP-MS2	_130314B
Sample ID: ICV1-1	30314	Batch ID:	R65325		TestNo	SW	6020A		Units	mg/L
SampType [,] ICV		Run ID:	ICP-MS	2_130314B	Analysi	s Date: <b>3/14</b>	/2013 1:15	00 PM	Prep Date	9:
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLin	nit HighLimit	%RPD RPDLimit Qua
Antimony			0.0957	0.00250	0.100	0	95.7	90	110	
Sample ID: CCV2-	130314	Batch ID.	R65325		TestNo	sw	6020A		Units	mg/L
SampType: CCV		Run ID:	ICP-MS	2_130314B	Analysi	s Date: <b>3/14</b>	/2013 5:23:	:00 PM	Prep Date	e
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLin	nit HighLimit	%RPD_RPDLimit Qua
Antimony		-	0.196	0.00250	0.200	0	97.9	90	110	
Sample ID [.] LCVL2	-130314	Batch ID:	R65325		TestNo	swe	6020A		Units	mg/L
SampType: LCVL		Run ID:	ICP-MS	2_130314B	Analysi	s Date: 3/14	/2013 5:59:	00 PM	Prep Date	9.
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLin	nit HighLimit	%RPD RPDLimit Qua
Antimony		C	.00206	0.00250	0.00200	0	103	70	130	
Sample ID [,] CCV3-	130314	Batch ID:	R65325		TestNo	swe	6020A		Units.	mg/L
SampType: CCV		Run ID:	ICP-MS2	2_130314B	Analysi	s Date: 3/14	/2013 6:46:	00 PM	Prep Date	9.
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLin	nit HighLimit	%RPD RPDLimit Qua
Antimony			0.202	0.00250	0.200	0	101	90	110	
Sample ID: LCVL3	-130314	Batch ID:	R65325		TestNo	swe	6020A		Units.	mg/L
SampType: LCVL		Run ID:	ICP-MS2	2_130314B	Analysis	s Date: 3/14	/2013 7:22:	00 PM	Prep Date	2
Analyte	········		Result	RL	SPK value	Ref Val	%REC	LowLin	nit HighLimit	%RPD_RPDLimit Qua
Antimony	· · · ·		.00219	0.00250	0.00200	0	109	70	130	

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Qualifiers:	В	Analyte detected in the associated Method Blank	DF	Dilution Factor	
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit	Page 7 of 12
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits	Q
	RL	Reporting Limit	S	Spike Recovery outside control limits	
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified	

Work Order:	1303040				Ar	RunID: ICP-MS3 130102A						
Project:	Rockwo	ol Ind. Belt	on, TX				RunI	D: 10	CP-M83	_1301	02A	
Sample ID: DCS-	Batch ID: 54340		TestNo: SW6020A			Units		mg/L				
SampType: DCS		Run 1D [.] ICP-MS3_130102A		Analysis Date: 1/2/2013 12:41:00 PN			00 PM	Prep Date		3/2012		
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLimi	t 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	

ANALYTICAL QC SUMMARY REPORT

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D. B. Stephens & Assoc, Inc.

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Qualifiers:

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**CLIENT:** 

B Analyte detected in the associated Method BlankJ Analyte detected between MDL and RL

- 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

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CLIENT:		D. B. Step	hens & A	Assoc, Inc.		AN	ALYT	ICAL O	DC SI	IMMAI	RYR	EPORT
Work Ore	ler:	1303040				1 1 1			-			
Project:		Rockwool		,				RunII		CP-MS3_	-	
06A, 13030	40-07A,	1303040-08/	A, 130304	following sa 0-09A, 1303( 0-19A, 1303)	040-10A, 130	040-01A, 13030 03040-11A, 130	040-02A, 13 03040-12A,	303040-03A, 1303040-13,	1303040 A 13030	-04A, 130304 40-14A, 1303	40-05A, 8040-15A	1303040- A, 1303040-
Sample ID:	MB-563	171	Batch IE	) [.] 56371		TestNo	sw	6020A		Units:	mg/L	
Samp⊤ype	MBLK		Run ID [.]	ICP-MS3	3_130311B	Analysi	s Date: 3/11	1/2013 4:29:	00 PM	Prep Date:	3/11/2	2013
Analyte				Result	RL	SPK value	Ref Val	%REC	LowLin	it HighLimit	%RPD F	RPDLimit Qual
Antimony Arsenic Lead				<0.000800 <0.00200 <0.000300	0.00250 0.00500 0.00100							
Sample ID [.]	LCS-56	371	Batch ID	56371		TestNo	sw	6020A		Units	mg/L	
SampType:	LCS		Run ID:	ICP-MS	3_130311B	Analysi	s Date: <b>3/1</b> 1	1/2013 4:35:	00 PM	Prep Date:	3/11/2	2013
Analyte				Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD F	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			<u></u>	0.183	0.00100	0.200	0	91.4	80	120		
Sample ID:	LCSD-5	56371	Batch ID	56371		TestNo	SW	6020A		Units:	mg/L	
SampType	LCSD		Run ID [.]	ICP-MS3	3_130311B	Analysi	s Date: 3/11	1/2013 4:41:	00 PM	Prep Date	3/11/2	2013
Analyte				Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD F	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 [.]	130304	0-19A SD	Batch ID	56371		TestNo	: SW	6020A		Units:	mg/L	
SampType	SD		Run ID [.]	ICP-MS3	3_130311B	Analysi	s Date: <b>3/11</b>	1/2013 4:59:	00 PM	Prep Date:	3/11/2	2013
Analyte				Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD F	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:	130304	0-19A PDS	Batch ID	56371		TestNo	SW	6020A		Units	mg/L	
SampType [.]	PDS		Run ID [.]	ICP-MS3	3_130311B	Analysi	s Date: <b>3/11</b>	1/2013 6:00:	00 PM	Prep Date:	3/11/2	2013
Analyte				Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD F	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:	в	Analyte detected in the associated Method Blank	DF	Dilution Factor	
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit	Page 9 of 12
	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: Work Order: Project:	D. B. Step 1303040 Rockwool		,		AN	ALYT	ICAL ( RunII	_	JMMA CP-MS3		REPORT
Sample ID: 130304	0-19A MS	Batch ID	56371		TestNo	sw	6020A		Units	mg/l	
SampType: <b>MS</b>		Run ID [.]	ICP-MS3	5_130311B	Analysi	s Date: 3/1*	1/2013 6:06:	00 PM	Prep Date	3/11	/2013
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD	RPDLimit Qual
Antimony		<u> </u>	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: 130304	D-19A MSD	Batch ID.	56371		TestNo	sw	6020A		Units	mg/ <b>l</b>	-
SampType MSD		Run ID [.]	ICP-MS3	5_130311B	Analysi	s Date: <b>3/1</b> 1	1/2013 6:12:	00 PM	Prep Date	3/11	/2013
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it 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:	в	Analyte detected in the associated Method Blank	DF	Dilution Factor	
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit	Page 10 of 12
	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	

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# ANALYTICAL QC SUMMARY REPORT

Work Order: 1303040 Rockwool Ind. Belton, TX Project:

D. B. Stephens & Assoc, Inc.

CLIENT:

#### ICP-MS3_130311B RunID:

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Sample ID [.]	ICV1-130311	Batch ID	: R65273		TestNo	D: SW6	6020A		Units	mg/L
SampType:	ICV	Run ID:	ICP-MS	3_130311B	Analys	is Date: 3/11	/2013 2:08:	00 PM	Prep Date	
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD_RPDLimit Qua
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	s swe	602 <b>0A</b>		Units	mg/L
SampType	LCVL	Run ID	ICP-MS	3_130311B	Analys	as Date: 3/11	/2013 2:26:	00 PM	Prep Date	
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD RPDLimit Qua
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	b: SW6	6020A		Units	mg/L
SampType [.]	CCV	Run ID [.]	ICP-MS	3_130311B	Analys	is Date: <b>3/11</b>	/2013 3:46:	00 PM	Prep Date	
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD_RPDLimit Qua
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	. <b>SW</b>	5020A		Units:	mg/L
SampType	LCVL	Run ID [.]	ICP-MS	3_130311B	Analys	is Date: <b>3/11</b>	/2013 4:11:	00 PM	Prep Date:	
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HıghLımit	%RPD_RPDLimit Qua
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	SW6	6020A		Units	mg/L
SampType:	CCV	Run ID:	ICP-MS	3_130311B	Analys	is Date. 3/11	/2013 6:18:	00 PM	Prep Date	
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD_RPDLimit Qua
Antimony			0.196	0.00250	0.200	0	98.0	90	<b>1</b> 10	
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	swe	5020A		Units	mg/L
SampType [.]	LCVL	Run ID [.]	ICP-MS	3_130311B	Analys	is Date: <b>3/11</b>	/2013 6:54:	00 PM	Prep Date	
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD_RPDLimit Qua
			0.00207	0.00250	0.00200	0	104	70	130	
Antimony			0.00207	0.00200						
	D August	ataatad th							·	
Antimony Qualifiers:		etected in the a	associated N	fethod Blank	DF	Dilution Facto				Page 11 of 12

ND Not Detected at the Method Detection Limit

Analyte detected between SDL and RL

RL Reporting Limit

J

R RPD outside accepted control limits Spike Recovery outside control limits S

Ν Parameter not NELAC certified

#### **CLIENT:** D. B. Stephens & Assoc, Inc.

#### ANALYTICAL QC SUMMARY REPORT

Work Order: 1303040 Project: Rockwool Ind. Belton, TX

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#### ICP-MS3_130311B **RunID:**

Sample ID: LCVL2-130311	Batch ID:	R65273		TestNo.	sw	6020A		Units:	mg/L
SampType LCVL	Run ID [.]	ICP-MS3	_130311B	Analysis	5 Date: 3/1	1/2013 6:54:	00 PM	Prep Date	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it 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	SW	6020A		Units	mg/L
SampType. CCV	Run ID:	ICP-MS3	_130311B	Analysis	s Date: <b>3/1</b>	1/2013 8:13:	00 PM	Prep Date	2
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it 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	<u></u>
Sample ID: LCVL3-130311	Batch ID:	R65273		TestNo:	SW	6020A		Units	mg/L
SampType [,] LCVL	Run ID:	ICP-MS3	_130311B	Analysis	5 Date: <b>3/1</b>	1/2013 8:49:	00 PM	Prep Date	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it 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:

J

RL

J

B Analyte detected in the associated Method Blank Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

Analyte detected between SDL and RL

Reporting Limit

- DF Dilution Factor
  - MDL Method Detection Limit R
    - RPD outside accepted control limits
  - S Spike Recovery outside control limits
  - Ν Parameter not NELAC certified

#### DHL Analytical, Inc.

CLIENT:	D. B. Stephens & Assoc, Inc.	MQL SUM
Work Order:	1303040	MQL SOM
Project:	Rockwool Ind. Belton, TX	
TestNo: SW6020	A MDL MQL	

Analyte	mg/L	mg/L
Antimony	0.000800	0.00250
Arsenic	0.00200	0.00500
Lead	0.000300	0.00100

Date: 18-Mar-13

#### MQL SUMMARY REPORT

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

#### APPENDIX B

#### LABORATORY NELAP CERTIFICATE



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.

Executive Director Texas Commission on Environmental Quality

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





**NELAP - Recognized Laboratory Fields of Accreditation** 

	Certificate:	T104704211-12-8
DHL Analytical, Inc.	Expiration Date:	4/30/2013
2300 Double Creek Drive Round Rock, TX  78664-3801	Issue Date:	5/1/2012

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





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DHL Analytical, Inc.	Expiration Date:	4/30/2013
2300 Double Creek Drive Round Rock, TX 78664-3801	Issue Date:	5/1/2012

Matrix: Non-Potable Water			
Barium	TX	1015	10014605
Beryllium	ТХ	1020	10014605
Boron	ТХ	1025	10014605
Cadmium	ТХ	1030	10014605
Calcium	ТХ	1035	10014605
Chromium	ТХ	1040	10014605
Cobalt	TX	1050	10014605
Copper	ТХ	1055	10014605
Iron	ТХ	1070	10014605
Lead	ТХ	1075	10014605
Magnesium	ТХ	1085	10014605
Manganese	ТХ	1090	10014605
Molybdenum	ТХ	1100	10014605
Nickel	ТХ	1105	10014605
Potassium	ТХ	1125	10014605
Selenium	ТХ	1140	10014605
Silver	ТХ	1150	10014605
Sodium	ТХ	1155	10014605
Strontium	ТХ	1160	10014605
Thallium	TX	1165	10014605
Tin	ТХ	1175	10014605
Titanium	ТХ	1180	10014605
Vanadium	ТХ	1185	10014605
Zinc	ТХ	1190	10014605
Method EPA 245.1			
Analyte	AB	Analyte ID	Method ID
Mercury	ТХ	1095	10036609
Method EPA 300.0			
Analyte	AB	Analyte ID	Method ID
Bromide	TX	1540	10053006
Chloride	ТХ	1575	10053006





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DHL Analytical, Inc.	Expiration Date:	4/30/2013
2300 Double Creek Drive Round Rock, TX_78664-3801	Issue Date:	5/1/2012

Matrix: Non-Potable Water			
Fluoride	TX	1730	10053006
Nitrate as N	ТХ	1810	10053006
Nitrate-nitrite	ТХ	1820	10053006
Nitrite as N	ТХ	1840	10053006
Sulfate	ТХ	2000	10053006
Method EPA 305.1			
Analyte	AB	Analyte ID	Method ID
Acidity, as CaCO3	ТХ	1500	10054203
Method EPA 310.1			
Analyte	AB	Analyte ID	Method ID
Alkalinity as CaCO3	ТХ	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	ТХ	1910	10070403
Method EPA 370.1			
Analyte	AB	Analyte ID	Method ID
Silica as SiO2	ТХ	1990	10072001
Method EPA 376.2			
Analyte Sulfide	<b>АВ</b> ТХ	Analyte ID	Method ID
	IA	2005	10074609
Method EPA 415.1			March and ID
Analyte	<b>АВ</b> ТХ	Analyte ID	Method ID
Total Organic Carbon (TOC)	IA	2040	10078407





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latrix: Non-Potable Water			
Method EPA 602			
Analyte	AB	Analyte ID	Method ID
Benzene	ТХ	4375	10102202
Ethylbenzene	ТХ	4765	10102202
m+p-xylene	ТХ	5240	10102202
Methyl tert-butyl ether (MTBE)	ТХ	5000	10102202
o-Xylene	ТХ	5250	10102202
Toluene	ТХ	5140	10102202
Xylene (total)	ТХ	5260	10102202
Method EPA 6020			
Analyte	AB	Analyte ID	Method ID
Aluminum	ТХ	1000	10156204
Antimony	ТХ	1005	10156204
Arsenic	ТХ	1010	10156204
Barium	ТХ	1015	10156204
Beryllium	ТХ	1020	10156204
Boron	ТХ	1025	10156204
Cadmium	ТХ	1030	10156204
Calcium	ТХ	1035	10156204
Chromium	ТХ	1040	10156204
Cobalt	ТХ	1050	10156204
Copper	ТХ	1055	10156204
Iron	ТХ	1070	10156204
Lead	ТХ	1075	10156204
Lithium	ТХ	1080	10156204
Magnesium	ТХ	1085	10156204
Manganese	ТХ	1090	10156204
Molybdenum	ТХ	1100	10156204
Nickel	ТХ	1105	10156204
Potassium	ТХ	1125	10156204
Selenium	ТΧ	1140	10156204





**NELAP - Recognized Laboratory Fields of Accreditation** 

	Certificate:	T104704211-12-8
DHL Analytical, Inc.	Expiration Date:	4/30/2013
2300 Double Creek Drive Round Rock, TX_78664-3801	Issue Date:	5/1/2012

atrix: Non-Potable Water		· .	
Silver	ТХ	1150	10156204
Sodium	тх	1155	10156204
Strontium	тх	1160	10156204
Thallium	тх	1165	10156204
Tin	тх	1175	10156204
Titanium	тх	1180	10156204
Vanadium	тх	1185	10156204
Zinc	тх	1190	10156204
lethod EPA 608			
Analyte	AB	Analyte ID	Method ID
Aroclor-1016 (PCB-1016)	ТХ	8880	10103603
Aroclor-1221 (PCB-1221)	ТХ	8885	10103603
Aroclor-1232 (PCB-1232)	ТХ	8890	10103603
Aroclor-1242 (PCB-1242)	ТХ	8895	10103603
Aroclor-1248 (PCB-1248)	тх	8900	10103603
Aroclor-1254 (PCB-1254)	тх	8905	10103603
Aroclor-1260 (PCB-1260)	ТХ	8910	10103603
lethod EPA 624			
Analyte	AB	Analyte ID	Method ID
1,1,1-Trichloroethane	ТХ	5160	10107207
1,1,2,2-Tetrachloroethane	ТХ	5110	10107207
1,1,2-Trichloroethane	ТХ	5165	10107207
1 1 Diablereathana	ТХ	4630	10107207
1,1-Dichloroethane			
1,1-Dichloroethylene	TX	4640	10107207
			10107207 10107207
1,1-Dichloroethylene	ТХ	4640	
1,1-Dichloroethylene 1,2-Dibromoethane (EDB, Ethylene dibromide)	TX TX	4640 4585	10107207
1,1-Dichloroethylene 1,2-Dibromoethane (EDB, Ethylene dibromide) 1,2-Dichlorobenzene	ТХ ТХ ТХ	4640 4585 4610	10107207 10107207
1,1-Dichloroethylene 1,2-Dibromoethane (EDB, Ethylene dibromide) 1,2-Dichlorobenzene 1,2-Dichloroethane (Ethylene dichloride)	тх тх тх тх	4640 4585 4610 4635	10107207 10107207 10107207
1,1-Dichloroethylene 1,2-Dibromoethane (EDB, Ethylene dibromide) 1,2-Dichlorobenzene 1,2-Dichloroethane (Ethylene dichloride) 1,2-Dichloropropane	ТХ ТХ ТХ ТХ ТХ	4640 4585 4610 4635 4655	10107207 10107207 10107207 10107207





**NELAP - Recognized Laboratory Fields of Accreditation** 

	Certificate:	T104704211-12-8
DHL Analytical, Inc.	Expiration Date:	4/30/2013
2300 Double Creek Drive Round Rock, TX 78664-3801	Issue Date:	5/1/2012

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





**NELAP - Recognized Laboratory Fields of Accreditation** 

	Certificate:	T104704211-12-8
DHL Analytical, Inc.	Expiration Date:	4/30/2013
2300 Double Creek Drive Round Rock, TX 78664-3801	Issue Date:	5/1/2012

Matrix: Non-Potable Water			
Xylene (total)	ТХ	5260	10107207
Method EPA 625			
Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	ТХ	6715	10107401
1,2,4-Trichlorobenzene	ТХ	5155	10107401
1,2-Dichlorobenzene	ТХ	4610	10107401
1,2-Diphenylhydrazine	ТХ	6220	10107401
1,3-Dichlorobenzene	ТХ	4615	10107401
1,4-Dichlorobenzene	ТХ	4620	10107401
2,3,4,6-Tetrachlorophenol	ТХ	6735	10107401
2,4,5-Trichlorophenol	ТХ	6835	10107401
2,4,6-Trichlorophenol	ТХ	6840	10107401
2,4-Dichlorophenol	ТХ	6000	10107401
2,4-Dimethylphenol	ТХ	6130	10107401
2,4-Dinitrophenol	ТХ	6175	10107401
2,4-Dinitrotoluene (2,4-DNT)	ТХ	6185	10107401
2,6-Dinitrotoluene (2,6-DNT)	ТХ	6190	10107401
2-Chloronaphthalene	ТХ	5795	10107401
2-Chlorophenol	тх	5800	10107401
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	ТΧ	6360	10107401
2-Methylphenol (o-Cresol)	ТХ	6400	10107401
2-Nitrophenol	ТХ	6490	10107401
3,3'-Dichlorobenzidine	ТХ	5945	10107401
4,4'-DDD	ТХ	7355	10107401
4,4'-DDE	ТХ	7360	10107401
4,4'-DDT	ТХ	7365	10107401
4-Bromophenyl phenyl ether (BDE-3)	ТХ	5660	10107401
4-Chloro-3-methylphenol	ТХ	5700	10107401
4-Chiorophenyl phenylether	ТХ	5825	10107401
4-Methylphenol (p-Cresol)	ТХ	6410	10107401





**NELAP - Recognized Laboratory Fields of Accreditation** 

	Certificate:	T104704211-12-8
DHL Analytical, Inc.	Expiration Date:	4/30/2013
2300 Double Creek Drive Round Rock, TX 78664-3801	Issue Date:	5/1/2012

4-Nitrophenol         TX         6500         10107401           Acenaphthene         TX         5500         10107401           Acenaphthylene         TX         5505         10107401           Aldrin         TX         5505         10107401           Aldrin         TX         7025         10107401           alpha-BHC (alpha-Hexachlorocyclohexane)         TX         7110         10107401           alpha-Chlordane         TX         7240         10107401           Anthracene         TX         7240         10107401           Aroclor-1216 (PCB-1016)         TX         8880         10107401           Aroclor-1224 (PCB-1221)         TX         8885         10107401           Aroclor-1232 (PCB-1232)         TX         8890         10107401           Aroclor-1248 (PCB-1248)         TX         8900         10107401           Aroclor-1254 (PCB-1248)         TX         8905         10107401           Aroclor-1260 (PCB-1260)         TX         8905         10107401           Benzo(a)anthracene         TX         5595         10107401           Benzo(a)anthracene         TX         5585         10107401           Benzo(a)fluoranthene         TX				
Accenaphthene         TX         5500         10107401           Accenaphthylene         TX         5505         10107401           Aldrin         TX         7025         10107401           Aldrin         TX         7025         10107401           alpha-BHC (alpha-Hexachlorocyclohexane)         TX         7110         10107401           alpha-Chlordane         TX         7240         10107401           Anthracene         TX         5555         10107401           Arcolor-1216 (PCB-1016)         TX         8880         10107401           Arcolor-1221 (PCB-1221)         TX         8880         10107401           Arcolor-1232 (PCB-1232)         TX         8890         10107401           Arcolor-1242 (PCB-1242)         TX         8900         10107401           Arcolor-1246 (PCB-1248)         TX         8900         10107401           Arcolor-1260 (PCB-1260)         TX         8900         10107401           Benzo(a) anthracene         TX         5595         10107401           Benzo(b) fluoranthene         TX         5595         10107401           Benzo(b) fluoranthene         TX         5580         10107401           Benzo(b) fluoranthene         T	trix: Non-Potable Water			
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-1248 (PCB-1242)       TX       8895       10107401         Aroclor-1254 (PCB-1242)       TX       8900       10107401         Aroclor-1260 (PCB-1260)       TX       8900       10107401         Aroclor-1260 (PCB-1260)       TX       8910       10107401         Benzo(a)anthracene       TX       5575       10107401         Benzo(a)anthracene       TX       5580       10107401         Benzo(a)(pyrene       TX       5580       10107401         Benzo(k)fluoranthene       TX       5580       10107401         Benzo(k)fluoranthene       TX       5580       10107401         bis(2-Chloroeixpropyl) ether </th <th>4-Nitrophenol</th> <th>ТХ</th> <th>6500</th> <th>10107401</th>	4-Nitrophenol	ТХ	6500	10107401
Addin       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-1246 (PCB-1248)       TX       8905       10107401         Aroclor-1254 (PCB-1242)       TX       8905       10107401         Aroclor-1264 (PCB-1248)       TX       8905       10107401         Aroclor-1260 (PCB-1260)       TX       8910       10107401         Benzo(a)anthracene       TX       5575       10107401         Benzo(a)anthracene       TX       5585       10107401         Benzo(a)pyrene       TX       5585       10107401         Benzo(k)fluoranthene       TX       5585       10107401         Benzo(k)fluoranthene       TX       5580       10107401         Benzo(k)fluoranthene       TX       5760       10107401         bis(2-Chloroethoxy)methane	Acenaphthene	ТХ	5500	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-1248 (PCB-1242)       TX       8905       10107401         Aroclor-1254 (PCB-1248)       TX       8905       10107401         Aroclor-1260 (PCB-1260)       TX       8910       10107401         Benzidine       TX       5575       10107401         Benzidine       TX       5580       10107401         Benzidine       TX       5585       10107401      <	Acenaphthylene	ТХ	5505	10107401
apha-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-1254 (PCB-1248)       TX       8900       10107401         Aroclor-1250 (PCB-1260)       TX       8910       10107401         Benzo(a)anthracene       TX       5595       10107401         Benzo(a)anthracene       TX       5595       10107401         Benzo(a)pyrene       TX       5595       10107401         Benzo(a)pyrene       TX       5585       10107401         Benzo(a)pyrene       TX       5590       10107401         Benzo(a)pyrene       TX       5590       10107401         Benzo(a)pyrene       TX       5590       10107401         Benzo(k)fluoranthene       TX       5590       10107401         bis(2-Chloroethoxy)methane       TX       5760       10107401         bis(2-Chloroethyl) ether       TX	Aldrin	ТХ	7025	10107401
Athracene       TX       5555       10107401         Arthracene       TX       5555       10107401         Aroclor-1016 (PCB-1016)       TX       8880       10107401         Aroclor-1221 (PCB-1221)       TX       8885       10107401         Aroclor-1222 (PCB-1232)       TX       8890       10107401         Aroclor-1224 (PCB-1242)       TX       8895       10107401         Aroclor-1254 (PCB-1254)       TX       8905       10107401         Aroclor-1260 (PCB-1260)       TX       8910       10107401         Benzo(a)anthracene       TX       5555       10107401         Benzo(a)anthracene       TX       5585       10107401         Benzo(a)anthracene       TX       5585       10107401         Benzo(a)anthracene       TX       5585       10107401         Benzo(a)anthracene       TX       5585       10107401         Benzo(a)pyrene       TX       5585       10107401         Benzo(k)fluoranthene       TX       5585       10107401         bis(2-Chloroethoxy)methane       TX       5760       10107401         bis(2-Chloroethoxy)methane       TX       5776       10107401         bis(2-Chloroethyl) ether	alpha-BHC (alpha-Hexachlorocyclohexane)	ТХ	7110	10107401
Aroclor-1016 (PCB-1016)       TX       8880       10107401         Aroclor-1016 (PCB-1221)       TX       8885       10107401         Aroclor-1221 (PCB-1221)       TX       8890       10107401         Aroclor-1232 (PCB-1232)       TX       8895       10107401         Aroclor-1242 (PCB-1242)       TX       8995       10107401         Aroclor-1248 (PCB-1248)       TX       8905       10107401         Aroclor-1250 (PCB-1260)       TX       8910       10107401         Benzidine       TX       5575       10107401         Benzo(a)anthracene       TX       5575       10107401         Benzo(a)anthracene       TX       5580       10107401         Benzo(a)pyrene       TX       5580       10107401         Benzo(b)fluoranthene       TX       5580       10107401         Benzo(k)fluoranthene       TX       5580       10107401         bis(2-Chloroethoxy)methane       TX       5560       10107401         bis(2-Chloroethoxy)methane       TX       5760       10107401         bis(2-Chloroethoxy)methane       TX       5760       10107401         bis(2-Chloroethoxy)methane       TX       5760       10107401         bi	alpha-Chlordane	ТХ	7240	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-1256 (PCB-1254)       TX       8905       10107401         Aroclor-1260 (PCB-1260)       TX       8910       10107401         Benzidine       TX       5595       10107401         Benzo(a)anthracene       TX       5575       10107401         Benzo(a)anthracene       TX       5580       10107401         Benzo(a)prene       TX       5585       10107401         Benzo(k)fluoranthene       TX       5590       10107401         Benzo(k)fluoranthene       TX       5590       10107401         Benzo(k)fluoranthene       TX       5590       10107401         bis(2-Chloroethoxy)methane       TX       5760       10107401         bis(2-Chloroethoxy)methane       TX       5765       10107401         bis(2-Chloroethyl) ether       TX       5760       10107401         bis(2-Chloroethyl) pthalate (DEHP)       TX       6255       10107401	Anthracene	ТХ	5555	10107401
Aroclor-1232 (PCB-1232)       TX       8890       10107401         Aroclor-1232 (PCB-1242)       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)anthracene       TX       5580       10107401         Benzo(a)pyrene       TX       5585       10107401         Benzo(g,h,i)perylene       TX       5580       10107401         Benzo(k)fluoranthene       TX       5590       10107401         Benzo(k)fluoranthene       TX       5590       10107401         bis(2-Chlorocthoxy)methane       TX       5760       10107401         bis(2-Chlorocthoxy)methane       TX       5780       10107401         bis(2-Chlorocthyl) ether       TX       5765       10107401         bis(2-Chlorocthyl) pthalate (DEHP)       TX       6255       10107401 <td< td=""><td>Aroclor-1016 (PCB-1016)</td><td>ТХ</td><td>8880</td><td>10107401</td></td<>	Aroclor-1016 (PCB-1016)	ТХ	8880	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)anthracene       TX       5585       10107401         Benzo(a)pyrene       TX       5585       10107401         Benzo(a)pyrene       TX       5585       10107401         Benzo(a)pyrene       TX       5585       10107401         Benzo(p,i)perylene       TX       5585       10107401         Benzo(p,i)perylene       TX       5590       10107401         Benzo(k)fluoranthene       TX       5500       10107401         bis(2-Chloroethoxy)methane       TX       5760       10107401         bis(2-Chloroethoxy)methane       TX       5780       10107401         bis(2-Chloroisopropyl) ether       TX       5765       10107401         bis(2-Chloroisopropyl) ether       TX       5760       10107401         bis(2-Ethylhexyl) phtha	Aroclor-1221 (PCB-1221)	ТХ	8885	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)anthracene       TX       5580       10107401         Benzo(a)pyrene       TX       5580       10107401         Benzo(a)pyrene       TX       5580       10107401         Benzo(a)pyrene       TX       5580       10107401         Benzo(p),hiperylene       TX       5590       10107401         Benzo(k)fluoranthene       TX       5590       10107401         beta-BHC (beta-Hexachlorocyclohexane)       TX       5760       10107401         bis(2-Chloroethoxy)methane       TX       5760       10107401         bis(2-Chloroethyl) ether       TX       5780       10107401         bis(2-Chloroisopropyl) ether       TX       5780       10107401         bis(2-Chloroisopropyl) ether       TX       5780       10107401         bis(2-Chloroisopropyl) phthalate (DEHP)       TX       6255       10107401	Aroclor-1232 (PCB-1232)	ТХ	8890	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)anthracene       TX       5580       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       5590       10107401         Benzo(k)fluoranthene       TX       5590       10107401         beta-BHC (beta-Hexachlorocyclohexane)       TX       7115       10107401         bis(2-Chloroethoxy)methane       TX       5760       10107401         bis(2-Chloroisopropyl) ether       TX       5780       10107401         bis(2-Chloroisopropyl) ether       TX       5765       10107401         bis(2-Ethylhexyl) phthalate (DEHP)       TX       6255       10107401         Butyl benzyl phthalate       DEHP)       TX       5855       10107401         Chrysene       TX       5855       10107401	Aroclor-1242 (PCB-1242)	TX	8895	10107401
Aroclor-1260 (PCB-1260)       TX       8910       10107401         Benzidine       TX       5595       10107401         Benzo(a)anthracene       TX       5575       10107401         Benzo(a)anthracene       TX       5580       10107401         Benzo(a)pyrene       TX       5585       10107401         Benzo(a)pyrene       TX       5585       10107401         Benzo(b)fluoranthene       TX       5585       10107401         Benzo(g,h,i)perylene       TX       5590       10107401         Benzo(k)fluoranthene       TX       5600       10107401         Benzo(k)fluoranthene       TX       5600       10107401         beta-BHC (beta-Hexachlorocyclohexane)       TX       5760       10107401         bis(2-Chloroethxy)methane       TX       5765       10107401         bis(2-Chloroisopropyl) ether       TX       5780       10107401         bis(2-Ethylhexyl) phthalate (DEHP)       TX       5670       10107401         Butyl benzyl phthalate       TX       5855       10107401         Chrysene       TX       5855       10107401         Dibenz(a,h) anthracene       TX       5895       10107401	Aroclor-1248 (PCB-1248)	ТХ	8900	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       5590       10107401         Benzo(k)fluoranthene       TX       5590       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       5765       10107401         bis(2-Chloroisopropyl) ether       TX       5765       10107401         bis(2-Chloroisopropyl) ether       TX       5765       10107401         bis(2-Ethylhexyl) phthalate (DEHP)       TX       6255       10107401         Butyl benzyl phthalate       TX       5670       10107401         Chrysene       TX       5855       10107401         Dibenz(a,h) anthracene       TX       5895       10107401 <td>Aroclor-1254 (PCB-1254)</td> <td>ТХ</td> <td>8905</td> <td>10107401</td>	Aroclor-1254 (PCB-1254)	ТХ	8905	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(g,h,i)perylene         TX         5590         10107401           Benzo(k)fluoranthene         TX         5590         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         5765         10107401           bis(2-Chloroisopropyl) ether         TX         5765         10107401           bis(2-Chloroisopropyl) ether         TX         5780         10107401           bis(2-Ethylhexyl) phthalate (DEHP)         TX         6255         10107401           Chrysene         TX         5855         10107401           Chrysene         TX         5855         10107401           Dibenz(a,h) anthracene         TX         5895         10107401	Aroclor-1260 (PCB-1260)	ТХ	8910	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       5590       10107401         Benzo(k)fluoranthene       TX       5590       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-Chloroisopropyl) ether       TX       5780       10107401         bis(2-Ethylhexyl) phthalate (DEHP)       TX       6255       10107401         Butyl benzyl phthalate       TX       5670       10107401         Chrysene       TX       5855       10107401         Dibenz(a,h) anthracene       TX       5895       10107401	Benzidine	ТХ	5595	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-Chloroethyl) ether       TX       5765       10107401         bis(2-Chloroethyl) ether       TX       5765       10107401         bis(2-Chloroisopropyl) 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	Benzo(a)anthracene	ТХ	5575	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-Chloroisopropyl) ether       TX       5780       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	Benzo(a)pyrene	ТХ	5580	10107401
Benzo(k)fluoranthene       TX       5600       10107401         beta-BHC (beta-Hexachlorocyclohexane)       TX       7115       10107401         bis(2-Chloroethoxy)methane       TX       5760       10107401         bis(2-Chloroethoxy)methane       TX       5765       10107401         bis(2-Chloroethyl) ether       TX       5765       10107401         bis(2-Chloroisopropyl) ether       TX       5780       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         Dibenz(a,h) anthracene       TX       5895       10107401	Benzo(b)fluoranthene	ТΧ	5585	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-Chloroisopropyl) ether       TX       5780       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	Benzo(g,h,i)perylene	ТХ	5590	10107401
bis(2-Chloroethoxy)methane       TX       5760       10107401         bis(2-Chloroethyl) ether       TX       5765       10107401         bis(2-Chloroisopropyl) ether       TX       5780       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	Benzo(k)fluoranthene	ТХ	5600	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	beta-BHC (beta-Hexachlorocyclohexane)	ТХ	7115	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	bis(2-Chloroethoxy)methane	ТХ	5760	10107401
bis(2-Ethylhexyl) phthalate (DEHP)TX625510107401Butyl benzyl phthalateTX567010107401ChryseneTX585510107401delta-BHC (delta-Hexachlorocyclohexane)TX710510107401Dibenz(a,h) anthraceneTX589510107401	bis(2-Chloroethyl) ether	ТХ	5765	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	bis(2-Chloroisopropyl) ether	ТХ	5780	10107401
Chrysene         TX         5855         10107401           delta-BHC (delta-Hexachlorocyclohexane)         TX         7105         10107401           Dibenz(a,h) anthracene         TX         5895         10107401	bis(2-Ethylhexyl) phthalate (DEHP)	ТХ	6255	10107401
delta-BHC (delta-Hexachlorocyclohexane)TX710510107401Dibenz(a,h) anthraceneTX589510107401	Butyl benzyl phthalate	ТХ	5670	10107401
Dibenz(a,h) anthracene         TX         5895         10107401	Chrysene	ТХ	5855	10107401
	delta-BHC (delta-Hexachlorocyclohexane)	ТХ	7105	10107401
Dieldrin TX 7470 10107401	Dibenz(a,h) anthracene	ТХ	5895	10107401
	Dieldrin	ТХ	7470	10107401





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





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Matrix: Non-Potable Water		<u>-</u>	
Phenanthrene	ТХ	6615	10107401
Phenol	ТХ	6625	10107401
Pyrene	ТХ	6665	10107401
Pyridine	TX	5095	10107401
Toxaphene (Chlorinated camphene)	ТХ	8250	10107401
Method EPA 7196			
Analyte	ÁB	Analyte ID	Method ID
Chromium (VI)	TX	1045	10162400
Method EPA 7470			
Analyte	AB	Analyte ID	Method ID
Mercury	ТХ	1095	10165807
Method EPA 8011			
Analyte	AB	Analyte ID	Method ID
1,2-Dibromoethane (EDB, Ethylene dibromide)	ТХ	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	ТХ	6657	10173203
Method EPA 8021			
Analyte	AB	Analyte ID	Method ID
Benzene	ТХ	4375	10174808
Ethylbenzene	ТХ	4765	10174808
m+p-xylene	TX	5240	10174808
Methyl tert-butyl ether (MTBE)	ТХ	5000	10174808
o-Xylene	ТХ	5250	10174808
Toluene	ТХ	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)	ТХ	8885	10179007
Aroclor-1232 (PCB-1232)	ТХ	8890	10179007
Aroclor-1242 (PCB-1242)	тх	8895	10179007
Aroclor-1248 (PCB-1248)	ТХ	8900	10179007
Aroclor-1254 (PCB-1254)	ТХ	8905	10179007
Aroclor-1260 (PCB-1260)	ТХ	8910	10179007
PCBs (total)	ТХ	8870	10179007
Method EPA 8260			
Analyte	AB	Analyte ID	Method ID
1,1,1,2-Tetrachloroethane	ТХ	5105	10184802
1,1,1-Trichloroethane	ТХ	5160	10184802
1,1,2,2-Tetrachloroethane	ТХ	5110	10184802
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ТХ	5195	10184802
1,1,2-Trichloroethane	ТХ	5165	10184802
1,1-Dichloroethane	TX	4630	10184802
1,1-Dichloroethylene	ТХ	4640	10184802
1,1-Dichloropropene	ТΧ	4670	10184802
1,2,3-Trichlorobenzene	ТХ	5150	10184802
1,2,3-Trichloropropane	ΤХ	5180	10184802
1,2,4-Trichlorobenzene	ΤХ	5155	10184802
1,2,4-Trimethylbenzene	ТХ	5210	10184802
1,2-Dibromo-3-chloropropane (DBCP)	ΤХ	4570	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	ТХ	4585	10184802
1,2-Dichlorobenzene	ТХ	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	ТХ	4635	10184802
1,2-Dichloropropane	тх	4655	10184802
1,3,5-Trimethylbenzene	ТХ	5215	10184802
1,3-Dichlorobenzene	ТХ	4615	10184802
1,3-Dichloropropane	ТХ	4660	10184802





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





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





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Matrix: Non-Potable Water			
Xylene (total)	ΤХ	5260	10184802
Method EPA 8270			
Analyte	AB	Analyte ID	Method IE
1,2,4,5-Tetrachlorobenzene	ТХ	6715	10185805
1,2,4-Trichlorobenzene	ТХ	5155	10185805
1,2-Dichlorobenzene	ТХ	4610	10185805
1,2-Diphenylhydrazine	ТХ	6220	10185805
1,3-Dichlorobenzene	ТХ	4615	10185805
1,4-Dichlorobenzene	ТХ	4620	10185805
1-Naphthylamine	ТХ	6425	10185805
2,3,4,6-Tetrachlorophenol	ТХ	6735	10185805
2,4,5-Trichlorophenol	тх	6835	10185805
2,4,6-Trichlorophenol	ТХ	6840	10185805
2,4-Dichlorophenol	ТХ	6000	10185805
2,4-Dimethylphenol	ТХ	6130	10185805
2,4-Dinitrophenol	ТХ	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	ТХ	6185	10185805
2,6-Dichlorophenol	ТХ	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	ТХ	6190	10185805
2-Chloronaphthalene	ТХ	5795	10185805
2-Chlorophenol	ТХ	5800	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	ТХ	6360	10185805
2-Methylnaphthalene	ТХ	6385	10185805
2-Methylphenol (o-Cresol)	ТХ	6400	10185805
2-Naphthylamine	ТХ	6430	10185805
2-Nitroaniline	тх	6460	10185805
2-Nitrophenol	ТХ	6490	10185805
2-Picoline (2-Methylpyridine)	тх	5050	10185805
3,3'-Dichlorobenzidine	ТХ	5945	10185805
3-Methylcholanthrene	ТХ	6355	10185805



#### **Texas Commission on Environmental Quality**



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ix: Non-Potable Water			1010-00-5
3-Nitroaniline	ТХ	6465	10185805
4,4'-DDD	ТХ	7355	10185805
4,4'-DDE	ТХ	7360	10186002
4,4'-DDT	ТХ	7365	10185805
4-Aminobiphenyl	ТХ	5540	10185805
4-Bromophenyl phenyl ether (BDE-3)	ТХ	5660	10185805
4-Chloro-3-methylphenol	TX	5700	10185805
4-Chloroaniline	ТХ	5745	10185805
4-Chlorophenyl phenylether	ТХ	5825	10185805
4-Dimethyl aminoazobenzene	ТХ	6105	10185805
4-Methylphenol (p-Cresol)	ТХ	6410	10185805
4-Nitroaniline	ТХ	6470	10185805
4-Nitrophenol	ТХ	6500	10185805
7,12-Dimethylbenz(a) anthracene	TX	6115	10185805
a-a-Dimethylphenethylamine	ТХ	6125	10185805
Acenaphthene	ТХ	5500	10185805
Acenaphthylene	TX	5505	10185805
Acetophenone	TX	5510	10185805
Aldrin	TX	7025	10186002
alpha-BHC (alpha-Hexachlorocyclohexane)	ТХ	7110	10186002
alpha-Chlordane	TX	7240	10185601
Aniline	ТХ	5545	10185805
Anthracene	TX	5555	10185805
Aroclor-1016 (PCB-1016)	ТХ	8880	10186002
Aroclor-1221 (PCB-1221)	ТХ	8885	10185203
Aroclor-1232 (PCB-1232)	ТХ	8890	10185407
Aroclor-1242 (PCB-1242)	ТХ	8895	10185203
Aroclor-1248 (PCB-1248)	ТХ	8900	10186002
Aroclor-1254 (PCB-1254)	ТХ	8905	10185601
Aroclor-1260 (PCB-1260)	ТХ	8910	10185203





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





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





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





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latrix: Non-Potable Water			
Phenacetin	ТХ	6610	10185805
Phenanthrene	ΤХ	6615	10185805
Phenol	тх	6625	10185805
Phorate	ТХ	7985	10186002
Phosmet (Imidan)	ТХ	8000	10186002
Phosphamidon	ТХ	8005	10185805
Pronamide (Kerb)	ТХ	6650	10185805
Pyrene	ТХ	6665	10185805
Pyridine	ТХ	5095	10185805
Quinoline	ТХ	6670	10185805
Sulfotepp	ТХ	8155	10186002
Terbufos	ТХ	8185	10185805
Tetrachlorvinphos (Stirophos, Gardona)	тх	8197	10186002
Tetraethyl pyrophosphate (TEPP)	ТХ	8210	10185407
Toxaphene (Chlorinated camphene)	ТХ	8250	10185203
Method EPA 8321			
Analyte	AB	Analyte ID	Method ID
2,4,5-T	ТХ	8655	10188804
2,4-D	ТХ	8545	10188804
2,4-DB	ТХ	8560	10188804
Dalapon	ТХ	8555	10188804
Dicamba	ТХ	8595	10188804
Dichloroprop (Dichlorprop, Weedone)	ТХ	8605	10188804
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	тх	8620	10188804
MCPA	ТХ	7775	10188804
MCPP	ТХ	7780	10188804
Silvex (2,4,5-TP)	ТХ	8650	10188804
Method EPA 8330			
Analyte	AB	Analyte ID	Method ID
Analyte		(005	10189807
1,3,5-Trinitrobenzene (1,3,5-TNB)	ТХ	6885 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)	ТΧ	6185	10189807
2,6-Dinitrotoluene (2,6-DNT)	ТХ	6190	10189807
2-Amino-4,6-dinitrotoluene (2-am-dnt)	ТΧ	9303	10189807
2-Nitrotoluene	TX	9507	10189807
3-Nitrotoluene	TX	9510	10189807
4-Amino-2,6-dinitrotoluene (4-am-dnt)	ТΧ	9306	10189807
4-Nitrotoluene	ТΧ	9513	10189807
Methyl-2,4,6-trinitrophenylnitramine (tetryl)	ТХ	6415	10189807
Nitrobenzene	ТΧ	5015	10189807
Nitroglycerin	ТΧ	6485	10189807
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	TX	9522	10189807
Pentaerythritoltetranitrate (PETN)	ТХ	9558	10189807
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	ТΧ	9432	10189807
Method EPA 9014			
Analyte	AB	Analyte ID	Method ID
Amenable cyanide	ΤX	1510	10193803
Total Cyanide	ТΧ	1635	10193803
Method EPA 9040			
Analyte	AB	Analyte ID	Method ID
pH	ТХ	1900	10197203
Method EPA 9056			
Analyte	AB	Analyte ID	Method ID
Bromide	TX	1540	10199209
Chloride	TX	1575	10199209
Fluoride	ТХ	1730	10199209
Nitrate as N	TX	1810	10199209
Nitrate-nitrite	TX	1820	10199209
Nitrite as N	ТХ	1840	10199209
Sulfate	ТХ	2000	10199209





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Matrix: Non-Potable Water			
Method EPA 9060			
Analyte	AB	Analyte ID	Method ID
Total Organic Carbon (TOC)	ТХ	2040	10200201
Method EPA 9070			
Analyte	AB	Analyte ID	Method ID
n-Hexane Extractable Material (HEM) (O&G)	ТХ	1803	10201000
Method EPA RSK 175			
Analyte	AB	Analyte ID	Method ID
Carbon dioxide	ТХ	3755	10212905
Ethane	ТХ	4747	10212905
Ethene	ТХ	4752	10212905
Methane	ТХ	4926	10212905
Method HACH 8000			
Analyte	AB	Analyte ID	Method ID
Chemical oxygen demand (COD)	ТХ	1565	60003001
Method SM 2130 B			
Analyte	AB	Analyte ID	Method ID
Turbidity	ТХ	2055	20002408
Method SM 2310 B (4a)			
Analyte	AB	Analyte ID	Method ID
Acidity, as CaCO3	ТХ	1500	20002806
Method SM 2320 B			
Analyte	AB	Analyte ID	Method ID
Alkalinity as CaCO3	ТХ	1505	20003003
Method SM 2340 B			
Analyte	AB	Analyte ID	Method ID
Total hardness as CaCO3	ТХ	1755	20003401
Method SM 2510 B			
Analyte	AB	Analyte ID	Method ID
Conductivity	ТХ	1610	20003809
Method SM 2540 C			
Analyte	AB	Analyte ID	Method ID
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Matrix: Non-Potable Water			
Residue-filterable (TDS)	ТХ	1955	20004404
Method SM 2540 D			
Analyte	AB	Analyte ID	Method ID
Residue-nonfilterable (TSS)	ТХ	1960	20004802
Method SM 3500-Cr D			
Analyte	AB	Analyte ID	Method ID
Chromium	ТХ	1040	20009001
Method SM 4500-CN E			
Analyte	AB	Analyte ID	Method ID
Total Cyanide	ТХ	1635	20021209
Method SM 4500-CN G			
Analyte	AB	Analyte ID	Method ID
Amenable cyanide	ТХ	1510	20021607
Method SM 4500-H+ B			
Analyte	AB	Analyte ID	Method ID
pH	ТХ	1900	20016404
Method SM 4500-NH3 F			
Analyte	AB	Analyte ID	Method ID
Ammonia as N	ТХ	1515	20023001
Method SM 4500-P E			
Analyte	AB	Analyte ID	Method ID
Orthophosphate as P	ТХ	1870	20025803
Phosphorus	ТХ	1910	20025803
Method SM 4500-S2 D			
Analyte	AB	Analyte ID	Method ID
Sulfide	ТХ	2005	20125400
Method SM 4500-SiO2 D			
Analyte	AB	Analyte ID	Method ID
Silica as SiO2	ТХ	1990	20018206
Method SM 5220 D			
Analyte	AB	Analyte ID	Method ID
Chemical oxygen demand (COD)	ТХ	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)	ТХ	2050	90019208





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Matrix: Solid & Chemical Materials			
Method ASTM D2216			
Analyte	AB	Analyte ID	Method ID
Moisture	ТХ	10337	ASTM D2216-05
Method EPA 1010			
Analyte	AB	Analyte ID	Method ID
Ignitability	ТХ	1780	10116606
Method EPA 1311			
Analyte	AB	Analyte ID	Method ID
TCLP	ТХ	849	10118806
Method EPA 1312		=	
Analyte	<b>АВ</b> ТХ	Analyte ID	Method ID
SPLP		850	10119003
Method EPA 200.8			
Analyte Aluminum	<b>АВ</b> ТХ	Analyte ID 1000	Method ID 10014605
	TX TX		
Antimony	TX	1005	10014605
Arsenic	TX	1010	10014605
Barium		1015	10014605
Beryllium	TX	1020	10014605
Cadmium	TX	1030	10014605
Calcium	TX	1035	10014605
Chromium	TX	1040	10014605
Cobalt	ТХ	1050	10014605
Copper	ТХ	1055	10014605
Iron	ТХ	1070	10014605
Lead	ТХ	1075	10014605
Magnesium	ТХ	1085	10014605
Manganese	ТХ	1090	10014605
Molybdenum	ТХ	1100	10014605
Nickel	ТХ	1105	10014605
Potassium	ТХ	1125	10014605





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Matrix: Solid & Chemical Materials			
Selenium	ТХ	1140	10014605
Silver	ТХ	1150	10014605
Sodium	ТХ	1155	10014605
Strontium	TX	1160	10014605
Thallium	TX	1165	10014605
Tin	ТХ	1175	10014605
Titanium	ТХ	1180	10014605
Vanadium	ТХ	1185	10014605
Zinc	TX	1190	10014605
Method EPA 300.0			
Analyte	AB	Analyte ID	Method ID
Bromide	TX	1540	10053006
Chloride	ТХ	1575	10053006
Fluoride	ТХ	1730	10053006
Nitrate as N	ТΧ	1810	10053006
Nitrate-nitrite	ТХ	1820	10053006
Nitrite as N	ТΧ	1840	10053006
Sulfate	ТХ	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	ТХ	1515	10064401
Method EPA 365.2			
Analyte	AB	Analyte ID	Method ID
Orthophosphate as P	TX	1870	10070403
Phosphorus	ТХ	1910	10070403
Method EPA 6020		<b>.</b>	
Analyte	<b>АВ</b> ТХ	Analyte ID	Method ID
Aluminum	18	1000	10156204





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rix: Solid & Chemical Materials			
Antimony	TX	1005	10156204
Arsenic	TX	1010	10156204
Barium	TX	1015	10156204
Beryllium	ТХ	1020	10156204
Boron	TX	1025	10156204
Cadmium	ТХ	1030	10156204
Calcium	ТХ	1035	10156204
Chromium	TX	1040	10156204
Cobalt	TX	1050	10156204
Copper	TX	1055	10156204
Iron	TX	1070	10156204
Lead	ТХ	1075	10156204
Lithium	ТХ	1080	10156204
Magnesium	TX	1085	10156204
Manganese	TX	1090	10156204
Molybdenum	ТХ	1100	10156204
Nickel	TX	1105	10156204
Potassium	TX	1125	10156204
Selenium	TX	1140	10156204
Silver	ТХ	1150	10156204
Sodium	ΤX	1155	10156204
Strontium	TX	1160	10156204
Thallium	ТХ	1165	10156204
Tin	ТХ	1175	10156204
Titanium	ТХ	1180	10156204
Vanadium	TX	1185	10156204
Zinc	ТХ	1190	10156204
thod EPA 7196			
Analyte	AB	Analyte ID	Method ID
Chromium (VI)	ТХ	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	ТХ	1095	10166208
Method EPA 8015			
Analyte	AB	Analyte ID	Method ID
Diesel range organics (DRO)	ТХ	9369	10173203
Ethylene glycol	ТХ	4785	10173203
Gasoline range organics (GRO)	ТХ	9408	10173203
Propylene Glycol	ТХ	6657	10173203
Method EPA 8021			
Analyte	AB	Analyte ID	Method ID
Benzene	TX	4375	10174808
Ethylbenzene	ТХ	4765	10174808
m+p-xylene	ТХ	5240	10174808
Methyl tert-butyl ether (MTBE)	ŤΧ	5000	10174808
o-Xylene	ТХ	5250	10174808
Toluene	ТХ	5140	10174808
Xylene (total)	ТХ	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)	ТХ	8890	10179007
Aroclor-1242 (PCB-1242)	ТХ	8895	10179007
Aroclor-1248 (PCB-1248)	TX	8900	10179007
Aroclor-1254 (PCB-1254)	ТХ	8905	10179007
Aroclor-1260 (PCB-1260)	ТХ	8910	10179007
PCBs (total)	тх	8870	10179007





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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

Method EPA 8260		······	
Analyte	AB	Analyte ID	Method ID
1,1,1,2-Tetrachloroethane	тх	5105	10184802
1,1,1-Trichloroethane	ТХ	5160	10184802
1,1,2,2-Tetrachloroethane	ТХ	5110	10184802
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ТХ	5195	10184802
1,1,2-Trichloroethane	ТХ	5165	10184802
1,1-Dichloroethane	тх	4630	10184802
1,1-Dichloroethylene	тх	4640	10184802
1,1-Dichloropropene	тх	4670	10184802
1,2,3-Trichlorobenzene	тх	5150	10184802
1,2,3-Trichloropropane	ТХ	5180	10184802
1,2,4-Trichlorobenzene	ТХ	5155	10184802
1,2,4-Trimethylbenzene	ТХ	5210	10184802
1,2-Dibromo-3-chloropropane (DBCP)	ТХ	4570	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	ТХ	4585	10184802
1,2-Dichlorobenzene	ТХ	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	ТХ	4635	10184802
1,2-Dichloropropane	ТХ	4655	10184802
1,3,5-Trimethylbenzene	ТХ	5215	10184802
1,3-Dichlorobenzene	ТХ	4615	10184802
1,3-Dichloropropane	ТХ	4660	10184802
1,4-Dichlorobenzene	ТХ	4620	10184802
1-Chlorohexane	ТХ	4510	10184802
2,2-Dichloropropane	ТХ	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	ТХ	4410	10184802
2-Chloroethyl vinyl ether	ТХ	4500	10184802
2-Chlorotoluene	ТХ	4535	10184802
2-Hexanone (MBK)	ТХ	4860	10184802
4-Chlorotoluene	тх	4540	10184802





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4-Methyl-2-pentanone (MIBK) Acetone (2-Propanone)		4915	10184802
Acetone (2-Propanone)	ТХ	4995	10184802
terterre (= r repairerre)	ТХ	4315	10184802
Acrolein (Propenal)	ТХ	4325	10184802
Acrylonitrile	ТХ	4340	10184802
Benzene	TX	4375	10184802
Bromobenzene	ТХ	4385	10184802
Bromochloromethane	ТΧ	4390	10184802
Bromodichloromethane	ТХ	4395	10184802
Bromoform	ТХ	4400	10184802
Carbon disulfide	TX	4450	10184802
Carbon tetrachloride	ТХ	4455	10184802
Chlorobenzene	ТХ	4475	10184802
Chlorodibromomethane	ТХ	4575	10184802
Chloroethane (Ethyl chloride)	TX	4485	10184802
Chloroform	ТХ	4505	10184802
cis-1,2-Dichloroethylene	ТХ	4645	10184802
cis-1,3-Dichloropropene	ТХ	4680	10184802
Dibromomethane (Methylene bromide)	ТХ	4595	10184802
Dichlorodifluoromethane (Freon-12)	ТХ	4625	10184802
Ethylbenzene	ТХ	4765	10184802
Hexachlorobutadiene	ТХ	4835	10184802
odomethane (Methyl iodide)	ТХ	4870	10184802
sopropyl alcohol (2-Propanol, Isopropanol)	ТХ	4895	10184802
sopropylbenzene (Cumene)	ТΧ	4900	10184802
n+p-xylene	TX	5240	10184802
Methyl acetate	TX	4940	10184802
Methyl bromide (Bromomethane)	ТХ	4950	10184802
Methyl chloride (Chloromethane)	ТХ	4960	10184802





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Methylcyclohexane	ТХ	4965	10184802
Methylene chloride (Dichloromethane)	тх	4975	10184802
Naphthalene	тх	5005	10184802
n-Butylbenzene	тх	4435	10184802
n-Propylbenzene	ТХ	5090	10184802
o-Xylene	ТХ	5250	10184802
sec-Butylbenzene	тх	4440	10184802
Styrene	тх	5100	10184802
tert-Butylbenzene	тх	4445	10184802
Tetrachloroethylene (Perchloroethylene)	тх	5115	10184802
Toluene	тх	5140	10184802
trans-1,2-Dichloroethylene	тх	4700	10184802
trans-1,3-Dichloropropylene	тх	4685	10184802
trans-1,4-Dichloro-2-butene	тх	4605	10184802
Trichloroethene (Trichloroethylene)	ТХ	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	ТХ	5175	10184802
Vinyl acetate	ТХ	5225	10184802
Vinyl chloride	ТХ	5235	10184802
Xylene (total)	ТХ	5260	10184802
hod EPA 8270			
Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	ТХ	6715	10185805
1,2,4-Trichlorobenzene	ТХ	5155	10185805
1,2-Dichlorobenzene	тх	4610	10185805
1,2-Diphenylhydrazine	ТХ	6220	10185805
1,3-Dichlorobenzene	ТХ	4615	10185805
1,4-Dichlorobenzene	ТХ	4620	10185805
1-Naphthylamine	ТХ	6425	10185805
2,3,4,6-Tetrachlorophenol	тх	6735	10185805





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





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





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





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



## **Texas Commission on Environmental Quality**



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





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These fields of conreditation supercade all provious fields	The Texas Commission on Environmental Quali	ty urgas customors to

atrix: Solid & Chemical Materials	TX		1010/000
Tetrachlorvinphos (Stirophos, Gardona)		8197	10186002
Tetraethyl pyrophosphate (TEPP)	TX	8210	10185407
Toxaphene (Chlorinated camphene)	TX	8250	10185203
lethod EPA 8321			
Analyte	AB	Analyte ID	Method IC
2,4,5-T	TX	8655	10188804
2,4-D	TX	8545	10188804
2,4-DB	ТХ	8560	10188804
Dalapon	TX	8555	10188804
Dicamba	TX	8595	10188804
Dichloroprop (Dichlorprop, Weedone)	ТХ	8605	10188804
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10188804
МСРА	TX	7775	10188804
MCPP	ТХ	7780	10188804
Silvex (2,4,5-TP)	TX	8650	10188804
lethod EPA 8330			
Analyte	AB	Analyte ID	Method IC
1,3,5-Trinitrobenzene (1,3,5-TNB)	ТХ	6885	10189807
1,3-Dinitrobenzene (1,3-DNB)	ТХ	6160	10189807
2,4,6-Trinitrotoluene (2,4,6-TNT)	ТХ	9651	10189807
2,4-Dinitrotoluene (2,4-DNT)	ТХ	6185	10189807
2,6-Dinitrotoluene (2,6-DNT)	ТХ	6190	10189807
2-Amino-4,6-dinitrotoluene (2-am-dnt)	ТХ	9303	10189807
2-Nitrotoluene	ТХ	9507	10189807
3-Nitrotoluene	ТХ	9510	10189807
4-Amino-2,6-dinitrotoluene (4-am-dnt)	ТХ	9306	10189807
4-Nitrotoluene	тх	9513	10189807
Methyl-2,4,6-trinitrophenylnitramine (tetryl)	тх	6415	10189807
Nitrobenzene	ТΧ	5015	10189807
Nitroglycerin	ΤХ	6485	10189807
Nillogiyeenii			





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Matrix: Solid & Chemical Materials			
Pentaerythritoltetranitrate (PETN)	ТХ	9558	10189807
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	ТХ	9432 -	10189807
Method EPA 9014			
Analyte	AB	Analyte ID	Method ID
Amenable cyanide	TX	1510	10193803
Total Cyanide	ТХ	1635	10193803
Method EPA 9040			
Analyte	AB	Analyte ID	Method ID
Corrosivity	ТХ	1615	10197203
рН	ТХ	1900	10197203
Method EPA 9045			
Analyte	AB	Analyte ID	Method ID
рН	ТХ	1900	10198400
Method EPA 9056			
Analyte	AB	Analyte ID	Method ID
Bromide	ТХ	1540	10199209
Chloride	ТХ	1575	10199209
Fluoride	ТХ	1730	10199209
Nitrate as N	ТХ	1810	10199209
Nitrate-nitrite	ТХ	1820	10199209
Nitrite as N	ТХ	1840	10199209
Sulfate	ТХ	2000	10199209
Method SM 2320 B			
Analyte	AB	Analyte ID	Method ID
Alkalinity as CaCO3	ТХ	1505	20003003
Method SM 2510 B			
Analyte	AB	Analyte ID	Method ID
Conductivity	ТХ	1610	20003809
Method SSA/ASA Part 3:14			
Analyte	AB	Analyte ID	Method ID
Conductivity	TX	1610	SSA/ASA Pt 3:14



**NELAP - Recognized Laboratory Fields of Accreditation** 



Certificate:T104704211-12-8DHL Analytical, Inc.Expiration Date:4/30/20132300 Double Creek DriveIssue Date:5/1/2012Round Rock, TX 78664-38015/1/20125/1/2012

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

Method TCEQ 1005 Analyte Total Petroleum Hydrocarbons (TPH)

ABAnalyte IDTX2050

Method ID 90019208

## **Remediation Division Correspondence Identification Form**

			SITE 8	2 PROGRAM	AREA IDENT	IFICATION	
	SIT	E LOCATI	ON		REMEDIAT	TION DIVISIO	ON PROGRAM AND FACILITY
						IDENT	<b>TIFICATION</b>
Site Name:	Rockwool	Industries, In	с.		Is This Site Beir	ng Managed Und	er A State Lead Contract?
					∫ Yes	🔽 No	
Address 1:	1741 Taylo	rs Valley Roa	ıđ		Program Area:	SUPERFUND	<b>•</b>
Address 2:					Mail Code:	MC-136	· · · · · · · · · · · · · · · · · · ·
City: Belto	) <b>n</b>		State:	Texas	Is This A New S	ite To This Prog	ram Area?
					∫ Yes	🔽 No	
Zip Code:	76513	County:	Bell	¥	PROGRAM ID	No.:	SUP033
TCEQ Regio	n: Re	gion 9 - Waco			Leave This Fi	eld Blank	Leave This Field Blank

		DOCUMENT(S) IDENTIFICATION	
PF	<b>HASE OF REMEDIATION</b>	DOCUMENT NAME	
1.	POST-CLOSURE CARE	DATA USABILITY SUMMARY (DUS)	-
2.	<b>_</b>		~
3.	<b>.</b>		v
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5.	<b></b>		~

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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

248-0071

Work Order No.

Submitted By:

William Gamblin, P.E. Project Manager



Daniel B. Stephens & Associates, Inc.

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

ECS Environmental Chemistry Services Rockwool Industries Fed. Superfund Site DUS- Groundwater Sampling Event June 2013

## 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

#### ECS Environmental Chemistry Services Rockwool Industries Fed. Superfund Site DUS- Groundwater Sampling Event June 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:

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

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

<u>Data Validation</u> – 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 2-2Rockwool IndustriesBelton, Bell County, TexasField 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.

1

#### 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	DUPLICATE	QC RESULT	CRITERIA
			RESULT	RESULT		
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.

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#### 12. REJECTED DATA AND PROJECT CONSEQUENCES

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

#### **13. CONCLUSIONS**

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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
Х3	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.
Χ4	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
Х5	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.
Х7	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.
Х9	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-2Data 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					
ССВ	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				
Р	Detected concentration difference between the primary and secondary				
Bias Codes					
Н	Bias in sample result likely to be high				
<u> </u>	Bias in sample result is indeterminate				
L	Bias in sample result likely to be low				

.



June 20, 2013

William Gamblin
D. B. Stephens & Assoc, Inc.
4030 W Braker #325
Austin, Texas 78759
TEL: (512) 821-2765
FAX
RE: Rockwool TCEQ

Order No.: 1306108

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,

For Service for

John DuPont General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-13-11



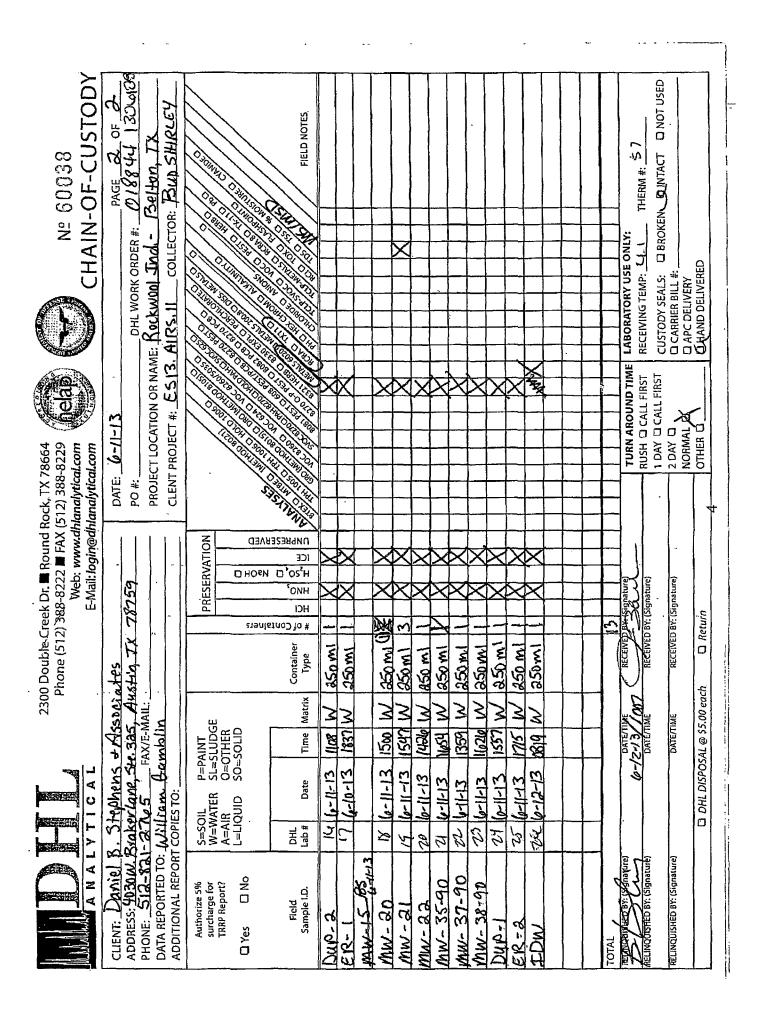
2300 Double Creek Drive • Round Rock, TX 78664 • Phone (512) 388-8222 • FAX (512) 388-8229 www.dhlanalytical.com

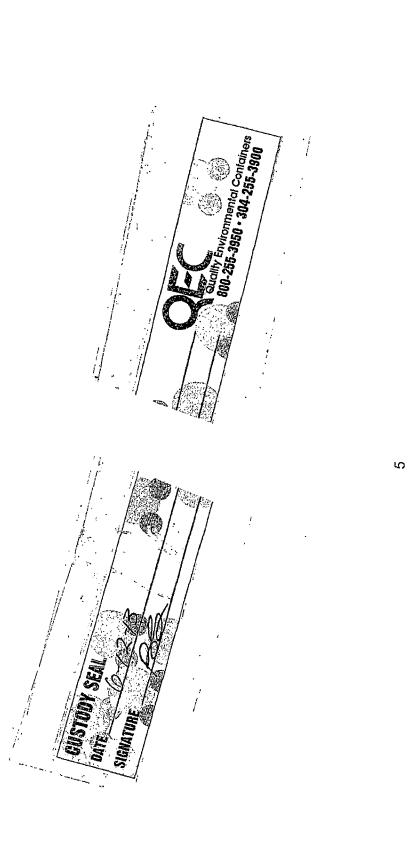
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Miscellaneous Documents	
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WorkOrderSampleSummary 1306108	
PrepDatesReport 1306108	
AnalyticalDatesReport 1306108	
Analytical Report 1306108	
AnalyticalQCSummaryReport 1306108	
MQLSummaryReport 1306108	60
CETAC_HG Raw Data	
ICP-MS2 Raw Data	
ICP-MS3 Raw Data	236

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## DHL Analytical, Inc.

	Sample	<b>Receipt Check</b>	klist			
Client Name D. B. Stephens & Assoc, Inc.			Date Receiv	/ed:	6/12/20	)13
Work Order Number 1306108			Received by	JB		
Checklist completed by Starla Signature	6/12/201 Dele Carrier name	3 Hand Delivered	Reviewed by		)	6/12/2013 Date
Shipping container/cooler in good condition?		Yes 🔽	Νο	Not Pres	sent 🗆	
Custody seals intact on shippping container/coo	ler?	Yes 🗹	No 🗆	Not Pres	sent 🗋	
Custody seals intact on sample bottles?		Yes 🗹	No 🗆	Not Pres	sent 🗌	
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 complian	ce?	Yes 🔽	No 🗌	4.1 °C		
Water - VOA vials have zero headspace?		Yes 🗌	No 🗌	No VOA v	ials submit	ted 🔽
Water - pH<2 acceptable upon receipt?		Yes 🗹	No 🗌 🕠		LOT #	7179
		Adjusted?	<del>د</del> ر	Check	ed by	>
Water - ph>9 (S) or ph>12 (CN) acceptable upo	in receipt?	Yes 🗀	No 🗌	NA 🗹	LOT#	
		Adjusted?		Check	ed by	
Any No response must be detailed in the comm	ents section below.					
Client contacted	Date contacted:		Per	son contac		· · · · · · · · · · · · · · · · · · ·
Contacted by:	Regarding					
Comments:						
	·····					
Corrective Action	·····					
<u> </u>						<u></u>
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Proie		ory Review Checklist: Reportable Data me: Rockwool TCEQ Date:	6/20/2013				
			ratory Work Order: 1306108			. <u>.</u>	
						··	
-			Batch: See Analytical Dates Report				
# <b>'</b>	A ²	Description		Yes	No N	NA ³ NI	₹ ⁴ ER#
		Chain-of-Custody (C-O-C)		·			
R1	OI	1) Did samples meet the laboratory's standard conditions of samp		X			
		2) Were all departures from standard conditions described in an es	cception report?			x	
<u>R2</u>	OI	Sample and Quality Control (QC) Identification					
		1) Are all field sample ID numbers cross-referenced to the laborat		X			_
		2) Are all laboratory ID numbers cross-referenced to the correspon	nding 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 brac	keted 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	г?	X			
		5) Were sample detection limits reported for all analytes not detec		Χ			
		6) Were all results for soil and sediment samples reported on a dry				X	
		7) Were % moisture (or solids) reported for all soit and sediment :	samples?			X	
		8) Were bulk soils/solids samples for volatile analysis extracted w	ith methanol per EPA Method 5035?			X	
		9) If required for the project, TICs reported?				<u>x  </u>	
R4	0	Surrogate Recovery Data					1997 A. 1997
		1) Were surrogates added prior to extraction?				X	
		2) Were surrogate percent recoveries in all samples within the lab	oratory QC limits?			X	
R5	IO	Test Reports/Summary Forms for Blank Samples				<u> </u>	
		1) Were appropriate type(s) of blanks analyzed?		X			
		2) Were blanks analyzed at the appropriate frequency?		X			
ļ		3) Where method blanks taken through the entire analytical proce	ss, including preparation and, if	x			
		applicable, cleanup procedures?					
		4) Were blank concentrations < MQL?		X			
R6	OI	Laboratory Control Samples (LCS):			<u>i</u>		
		1) Were all COCs included in the LCS?		X			
		2) Was each LCS taken through the entire analytical procedure, in	ncluding prep and cleanup steps?	X			
		3) Were LCSs analyzed at the required frequency?		X			
		4) Were LCS (and LCSD, if applicable) %Rs within the laborator	y QC limits?	X			
		5) Does the detectability data document the laboratory's capabilit	y to detect the COCs at the MDL used	x			
		to calculate the SDLs?					
		6) Was the LCSD RPD within QC limits (if applicable)?		X			
R7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data			E j		
		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			<u> </u>
R8	01	Analytical Duplicate Data					
		1) Were appropriate analytical duplicates analyzed for each matri				x	
		2) Were analytical duplicates analyzed at the appropriate frequent				X	_
		3) Were RPDs or relative standard deviations within the laborator	ry QC limits?			X	
R9	OI	Method Quantitation Limits (MQLs):					
		1) Are the MQLs for each method analyte included in the laborate		X			
		2) Do the MQLs correspond to the concentration of the lowest no		X			
		3) Are unadjusted MQLs and DCSs included in the laboratory da	ta package?	X			
R10	OI	Other Problems/Anomalies			-	<u></u> ;	
		1) Are all known problems/anomalies/special conditions noted in		X			
		2) Was applicable and available technology used to lower the SD	L to minimize the matrix interference	x	I T		
		affects on the sample results?					
		3) Is the laboratory NELAC-accredited under the Texas Laborato		x			1
		analytes, matrices and methods associated with this laboratory da	ta package?		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.
O = organic analyses; 1 = inorganic analyses (and general chemistry, when applicable).
NA = Not applicable.
NR = Not Reviewed. 

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

D	orat	Dete	6/20/2013					
						<del></del>		
Revie	wer l	Name: Angie O'Donnell Labo	ratory Work Order: 1306108					
# ^I	A ²	Description		Yes	No	NA ³	NR ⁴	ER#
S1	10	Initial Calibration (ICAL)						
		1) Were response factors and/or relative response factors for each	analyte within OC 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 stand		X				
		5) Are ICAL data available for all instruments used?		X				
		6) Has the initial calibration curve been verified using an appropria		X				
S2	10	Initial and Continuing calibration Verification (ICCV and CC blank (CCB):	V) and Continuing Calibration					
		1) Was the CCV analyzed at the method-required frequency?		x		ļ		-
		<ol> <li>Were percent differences for each analyte within the method-real</li> </ol>	auired OC limits?	x		1		
		3) Was the ICAL curve verified for each analyte?		X		1		
		4) Was the absolute value of the analyte concentration in the inorg	anic CCB < MDL?	X				
<b>S</b> 3	0	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				
<u>S4</u>	0	Internal Standards (IS):						
		1) Were IS area counts and retention times within the method-requ	uired QC limits?	X				
<u>S5</u>	10	Raw Data (NELAC Section 5.5.10)				1		
	1	1) Were the raw data (for example, chromatograms, spectral data)		X		<u> </u>	ļ	
		2) Were data associated with manual integrations flagged on the ra	aw data?	X		ł		
<u>S6</u>	0	Dual Column Confirmation	000			X	1	
87		1) Did dual column confirmation results meet the method-required					-	2
<b>S</b> 7	0	Tentatively Identified Compounds (TICs): 1) If TICs were requested, were the mass spectra and TIC data sub	ject to appropriate checks?			X		
<b>S</b> 8	T	Interference Check Sample (ICS) Results:	Jeet to appropriate enceks:					
30	<u> </u>	1) Were percent recoveries within method QC limits?		X		1		
<b>S9</b>	I	Serial Dilutions, Post Digestion Spikes, and Method of Standar	d Additions			1 .		
	<u> </u>	1) Were percent differences, recoveries, and the linearity with	in the QC limits specified in the				T	
		method?	· ·		х	Į		S9-0
<b>S10</b>		Method Detection Limit (MDL) Studics				<b>}</b>		
510		1) Was a MDL study performed for each reported analyte?		X				
		<ol> <li>Is the MDL either adjusted or supported by the analysis of DCS</li> </ol>	s?	x				
<b>S11</b>	10	Proficiency Test Reports:						
		1) Was the lab's performance acceptable on the applicable proficie	ency tests or evaluation studies?	X				
S12	10	Standards Documentation			· ··			
		1) Are all standards used in the analyses NIST-traceable or obtain	ed from other appropriate sources?	X		]		
<b>S13</b>	OI	Compound/Analyte Identification Procedures						
		1) Are the procedures for compound/analyte identification document	ented?	X				
<u>S14</u>	OI	Demonstration of Analyst Competency (DOC)				•		
		1) Was DOC conducted consistent with NELAC Chapter 5 - App		X		<u> </u>	ļ	
		2) Is documentation of the analyst's competency up-to-date and on		X				
<u>S15</u>	01	Verification/Validation Documentation for Methods (NELAC				1		s. 1
		1) Are all the methods used to generate the data documente applicable?	ed, verified, and validated, where	x				
		Laboratory Standard Operating Procedures (SOPs):						
S16	I OI							

- 3 4

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. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable). NA = Not applicable. NR = Not Reviewed. 

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
  - 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

RG-366/TRRP-13 May 2010

Date: 20-Jun-13

#### DHL Analytical, Inc.

CLIENT:D. B. Stephens & Assoc, Inc.Project:Rockwool TCEQLab 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: Project: Lab Order:	D. B. Stephens & A Rockwool TCEQ 1306108	ssoc, Inc.	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
	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

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20-Jun-13

Lab Order:	1306108						
Client:	D. B. Stephens & Assoc, Inc.	z Assoc, Inc.			PREP	<b>PREP DATES REPORT</b>	<b>[</b>
Project:	Rockwool TCEQ	2					
Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1306108-01A	<i>L-WM</i>	06/10/13 04:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:42 AM	57936
1306108-02A	6-WM	06/11/13 11:28 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	06/14/13 08:42 AM	57936
1306108-03A	01-WM	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-I4	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	61-WM	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 Prcp 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 : JCP-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 Metais : 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 Mctals : 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 Mctals : 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 Mctals : 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
Page 1 of 2	of 2						

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	DILL Analytical, Inc.						
Lab Order:	1306108						1
Client:	D. B. Stephens & Assoc, Inc.	k Assoc, Inc.			PREP	PREP DATES REPORT	
Project:	Rockwool TCEQ	2					
Sample ID	Client Sample ID	Collection Date	Matrix	Matrix Test Number Test Name	T'est Name	Prep Date	Bạtch ID
1306108-26A	IDW	06/12/13 08:19 AM	Aqueous	SW7470A	SW7470A Mercury Aq Prep, Total	06/14/13 08:49 AM	57938

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20-Jun-13

Chent:	D. B. Stephens & Assoc, Inc.	Assoc, Inc.			ANA	NLYTIC	ANALYTICAL DATES REPORT	REPORT
Project:	Rockwool TCEQ							
Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
A10-801601A	<i>L-WM</i>	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	-	06/15/13 01:11 AM	ICP-MS2_130614D
1306108-02A	6-MM	Vqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	-	06/15/13 01:16 AM	ICP-MS2_130614D
1306108-03A	01-WW	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	-	06/15/13 01:22 AM	ICP-MS2_130614D
1306108-04A	11-WM	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936		06/15/13 01:28 AM	ICP-MS2_130614D
I306108-05A	MW-14	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	-	06/15/13 01:34 AM	ICP-MS2_130614D
1306108-06A	MW-17	Aqueous	SW6020A	Trace Melals: 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	-	06/15/13 01:46 AM	ICP-MS2_130614D
1306108-08A	MW-19	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	-	06/15/13 01:51 AM	ICP-MS2_130614D
1306108-09A	MW'-24-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	-	06/15/13 01:57 AM	ICP-MS2_130614D
I306108-10A	MW-27-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936		06/15/13 03:18 AM	ICP-MS2_130614D
A11-80190E1	MW-28-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	-	06/15/13 03:24 AM	ICP-MS2_130614D
1306108-12A	MW-29-90	Aqueous	SW6020A	Trace Metals. ICP-MS - Water	57936		06/15/13 03:30 AM	ICP-MS2_130614D
1306108-13A	MW-30-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	-	06/15/13 03:36 AM	ICP-MS2_130614D
1306108-14A	MW-33-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	-	06/15/13 03:42 AM	ICP-MS2_130614D
1306108-15A	MW-34-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936		06/15/13 03:47 AM	ICP-MS2_130614D
1306108-16A	DUP-2	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57936	-	06/15/13 03:53 AM	ICP-MS2_130614D
1306108-17A	ER-I	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-2I	Aqueous	SW6020A	Trace Metais. 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	Ţ	06/15/13 04:11 AM	ICP-MS2_130614D
1306108-21A	MW-35-90	Vqueous	SW6020A	Trace Metals: ICP-MS - Water	57939	г	06/14/13 09:30 PM	ICP-MS2_130614D
	MW-35-90	Aqueous	SW6020A	Trace Metals: JCP-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		06/14/13 09:36 PM	ICP-MS2_130614D
1306108-23A	MW-38-90	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57939	-	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	Vqueous	SW6020A	Trace Metals: ICP-MS - Water	57939	-	06/14/13 11:03 PM	ICP-MS2_130614D
1306108-25A	ER-2	Equip Blank	SW6020A	Trace Metals: ICP-MS - Water	57939	-	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

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Lab Order:	1306108							
<b>Client:</b>	D. B. Stephens & Assoc, Inc.	Assoc, Inc.			AN	ALYTIC	ANALYTICAL DATES REPORT	REPORT
Project:	Rockwool TCEQ							
Sample ID	Clicut Sample ID	Matrix	Test Number Test Name	Test Name	Batch ID	Dilution	Analysis Date	Ruo ID
1306108-26A	WCI	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57939	-	06/14/13 08:43 PM	ICP-MS2_130614D
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DHL Anal			D	ate:	20-Jun-13				
CLIENT:	D. B. Stephens & As	soc, Inc.		Clien	it Sampl	e ID: MW	-7		
Project:	Rockwool TCEQ		Lab ID: 1306108-01						
Project No:	ES13.AIRS.11			Col	llection	Date: 06/10	0/13 04:20 PN	M	
Lab Order:	1306108				M	atrix: AQU	JEOUS		
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed	
	S: ICP-MS - WATER		SW6020A				Analyst: SW		
Antimony		0.00143	0.000800	0.00250	J	mg/Ł	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: Germaniu	m	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	

NK7 6.26-13

Qualifiers:

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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

Page 1 of 26

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DHL Ana	lytical, Inc.				Date:	20-Jun-13				
CLIENT:	D. B. Stephens & As	ssoc, Inc.		Clien	t 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 Uni	its DF	Date Analyzed			
TRACE METALS: ICP-MS - WATER			SW60	20A			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 AN			
Lead		<0.000300	0.000300	0.00100	mg/L	. 1	06/15/13 01:16 AN			
IS: Bismuth		111	0	70-200	%RE	C 1	06/15/13 01:16 AM			
IS: Germaniu	im	108	0	70-200	%RE	C 1	06/15/13 01:16 AM			
IS: Indium		103	0	70-200	%RE	C 1	06/15/13 01:16 AM			
IS: Scandium	h(1)	107	0	70-200	%RE	C 1	06/15/13 01:16 AM			

MK7 13 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

N - Parameter not NELAC certified

See Final Page of Report for MQLs and MDLs

**DF-Dilution Factor** 

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

Page 2 of 26

DHL Anal		Da	ate:	20-Jun-13					
CLIENT:	D. B. Stephens & As	soc, Inc.		Clien	t Sampl	e ID: MW-1	0	<u> </u>	
Project:	Rockwool TCEQ				La	<b>b ID:</b> 13061	08-03		
Project No:	ES13.AIRS.11		Collection Date: 06/10/13 12:31 PM						
Lab Order:	1306108				Ma	atrix: AQUE	EOUS		
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed	
TRACE METAL	S: ICP-MS - WATER		SW60					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	ſ	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: Germaniu	m	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	

MIC7 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

Page 3 of 26

DHL Anal			Da	ite:	20-Jun-13				
CLIENT:	D. B. Stephens & As	ssoc, Inc.	Client Sample ID: MW-11						
Project:	Rockwool TCEQ				La	<b>b ID:</b> 1306	108-04		
Project No:	ES13.AIRS.11			Col	lection l	Date: 06/10	V13 01:13 PN	М	
Lab Order:	1306108		Matrix: AQUEOUS						
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed	
TRACE METAL	S: ICP-MS - WATER		SW60	20A				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: Germaniu	m	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		

NK7 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)

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SDL - Sample Detection Limit

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E - TPH pattern not Gas or Diesel Range Pattern

Page 4 of 26

DHL Anal			D	ate:	20-Jun-13					
CLIENT:	D. B. Stephens & As	ssoc, Inc.		Clien	t Sampl	e ID: MW-	14			
Project:	Rockwool TCEQ				La	<b>b ID:</b> 1306	108-05			
Project No:	ES13.AIRS.11		Collection Date: 06/10/13 01:53 PM							
Lab Order:	1306108				Ma	atrix: AQU	EOUS			
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed		
TRACE METAI	LS: ICP-MS - WATER		SW60	)20A				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: Germaniu	m	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	u(1)	80.0	0	70-200		%REC	1	06/15/13 01:34 AM		
IS: Scandium	u(2)	73.2	0	70-200		%REC	1	06/15/13 01:34 AM		

MK1 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)

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SDL - Sample Detection Limit

E - TPH pattern not Gas or Diesel Range Pattern

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DHL Anal	ytical, Inc.				Date:	20-Jun-13	
CLIENT:	D. B. Stephens & As	soc, Inc.		Clien	t Sample ID: N	AW-17	
Project:	Rockwool TCEQ				Lab ID: 1	306108-06	
Project No:	ES13.AIRS.11			Col	lection Date: (	)6/11/13 09:06 A	M
Lab Order:	1306108				Matrix: A	AQUEOUS	
Analyses		Result	SDL	RL	Qual Units	s DF	Date Analyzed
TRACE METAL	S: ICP-MS - WATER		SW60	20A			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: Germaniu	m	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

MK7 6.26-13

-Qualifiers:

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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

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DHL Analytical, Inc.					Da	ite:	20-Jun-13	
CLIENT:	NT: D. B. Stephens & Assoc, Inc.				t Sample	e ID: MW-1	8	
Project:	Rockwool TCEQ				Lal	DID: 13061	08-07	
Project No:	ES13.AIRS.11			Col	llection [	Date: 06/10/	13 02:46 PN	А
Lab Order:	1306108				Ma	trix: AQUE	OUS	
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER				20A			<u></u>	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: Germaniu	m	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

MK1 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

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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

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DHL Ana			D	ate:	20-Jun-13					
CLIENT:	D. B. Stephens & As	ssoc, Inc.		Client Sample ID: MW-19						
Project:	Rockwool TCEQ				La	b ID: 13061	08-08			
Project No:	ES13.AIRS.11			Col	lection	Date: 06/10/	13 03:34 PN	M		
Lab Order:	1306108				M	atrix: AQUE	OUS			
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed		
TRACE METAL	S: ICP-MS - WATER		SW60	20A				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: Germaniu	m	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 Page 8 of 26

DHL Anal	lytical, Inc.			D	ate:	20-Jun-13			
CLIENT:	CLIENT: D. B. Stephens & Assoc, Inc.				ıt Sampl	le ID: MW-2	4-90		
Project:	Rockwool TCEQ				La	<b>b ID:</b> 13061	08-09		
Project No:	ES13.AIRS.11		Collection Date: 06/10/13 05:05 PM						
Lab Order:	1306108				Ma	atrix: AQUE	EOUS		
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed	
TRACE METAL	LS: ICP-MS - WATER		SW60	20A				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: Germaniu	m	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 MQL's and MDLs

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----S - Spike Recovery outside control limits

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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

NVA 6.76-13

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DHL Anal	ytical, Inc.			Da	ate:	20-Jun-13				
CLIENT:	CLIENT: D. B. Stephens & Assoc, Inc.				ıt Sampl	e ID: MW-2	27-90			
Project:	Rockwool TCEQ				La	<b>b ID:</b> 13061	08-10			
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 METAL	S: ICP-MS - WATER			20A				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	L	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: Germaniu	m	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		

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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

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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 Anal	ytical, Inc.			Da	ate:	20-Jun-13			
CLIENT:	D. B. Stephens & As	soc, Inc.		Clien	t Sampl	e ID: MW-2	8-90		
Project:	Rockwool TCEQ				La	b ID: 13061	08-11		
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 METAL	LS: ICP-MS - WATER		SW60	20A				Analyst: SW	
Antimony		0.0254	0.000800	0.00250		mg/L	1	06/15/13 03:24 AN	
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 AN	
IS: Bismuth		101	0	70-200		%REC	1	06/15/13 03:24 AM	
IS: Germaniu	m	87.2	0	70-200		%REC	1	06/15/13 03:24 AN	
IS: Indium		97.0	0	70-200		%REC	1	06/15/13 03:24 AN	
IS: Scandium	u(1)	86.8	0	70-200		%REC	1	06/15/13 03:24 AN	
IS: Scandium	n(2)	85.0	0	70-200		%REC	1	06/15/13 03:24 AM	

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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

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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 Page 11 of 26

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DHL Anal	ytical, Inc.		D	ate:	20-Jun-13					
CLIENT:	LIENT: D. B. Stephens & Assoc, Inc.					e 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 METAL	.S: ICP-MS - WATER		SW60	20A				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	L	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: Germaniu	m	0	70-200		%REC	1	06/15/13 03:30 AM			
IS: Indium		0	70-200		%REC	1	06/15/13 03:30 AM			
IS: Scandium	(1)	102	0	70-200		%REC	t	06/15/13 03:30 AM		
IS: Scandium	(2)	IS: Scandium(2) 86.7					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

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DHL Anal	ytical, Inc.			Da	ite:	20-Jun-13				
CLIENT:	CLIENT: D. B. Stephens & Assoc, Inc.				it Sampl	e ID: MW-3	0-90			
Project:	Rockwool TCEQ			08-13						
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 METAL	_S: ICP-MS - WATER		SW60	20A		· ·		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: Germaniu	m	0	70-200		%REC	1	06/15/13 03:36 AM			
IS: Indium		0	70-200		%REC	1	06/15/13 03:36 AM			
IS: Scandium	IS: Scandium(1) 92.4			70-200		%REC	1	06/15/13 03:36 AM		
IS: Scandium	0	70-200		%REC		06/15/13 03:36 AM				

-- ----Qualifiers:

ND - Not Detected at the SDL

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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

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.... 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

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E - TPH pattern not Gas or Diesel Range Pattern

NK7 6.26.13

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DHL Anal	ytical, Inc.			Da	ite:	20-Jun-13				
CLIENT:	D. B. Stephens & As	soc, Inc.		Clier	at Sampl	e ID: MW-3	33-90	· · · · · · · · · · · · · · · · · · ·		
Project:	Rockwool TCEQ	Lab ID: 1306108-14								
Project No:	ESI3.AIRS.11			Co	lection l	Date: 06/11/	/13 10:22 Al	M		
Lab Order:	1306108		Matrix: AQUEOUS							
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed		
TRACE METAL	S: ICP-MS - WATER		SW60	20A				Analyst: SW		
Antimony		0.138	0.0008000.0	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: Germaniu	m	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)	0	70-200		%REC	1	06/15/13 03:42 AM			
IS: Scandium	(0)	0	70-200		%REC		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

 Sce 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)

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SDL - Sample Detection Limit

E - TPH pattern not Gas or Diesel Range Pattern

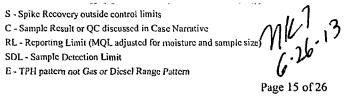
MKA 626-13

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DHL Anal	ytical, Inc.		Da	te:	20-Jun-13			
CLIENT:	D. B. Stephens & As	Clier	t Sample	ID: MW-3	4-90			
Project:	Rockwool TCEQ				Lab	ID: 13061	08-15	
Project No:	ES13.AIRS.11			Co	llection D	ate: 06/11/	13 10:53 AI	I.
Lab Order:	1306108				Ma	trix: AQUE	OUS	
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METAL	S: ICP-MS - WATER		SW60	20A				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: Germaniu	m	90.1	90.1 0 70-200 %REC 1 06/15/13 03:47					
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		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

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DHL Anal	ytical, Inc.			Da	ite:	20-Jun-13			
CLIENT:	D. B. Stephens & As		Clien	it Sample	e ID: DUP-2	2			
Project:	Rockwool TCEQ		Lab ID: 1306108-16						
Project No:	ES13.AIRS.11	J	Collection Date: 06/11/13 11:08 AM						
Lab Order:	1306108		Matrix: AQUEOUS						
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed	
TRACE METAL	S: ICP-MS - WATER		SW60	20A				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: Germaniu	m	93.7	93.7 0 70-200 %REC 1 06/15/13 03:53 AM						
IS: Indium		94.3	94.3 0 70-200 %REC 1 06/15/13 03:53						
IS: Scandium	(1)	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

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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

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DHL Ana	lytical, Inc.		Da	ate:	20-Jun-13					
CLIENT:	LIENT: D. B. Stephens & Assoc, Inc.					e ID: ER-1				
Project:	Rockwool TCEQ				La	b ID: 13061	08-17			
Project No:	ES13.AIRS.11			Col	lection I	Date: 06/10/	'13 06:37 PN	Л		
Lab Order:	1306108		Matrix: EQUIP BLANK							
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed		
TRACE METAI	LS: ICP-MS - WATER		SW60	20A				Analyst: SW		
Antimony		<0.000800	0.000800.0	0.00250		mg/ኒ	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: Germaniu	m	83.1	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							06/15/13 03:59 AM		
IS: Scandium	(1)	0	70-200		%REC	1	06/15/13 03:59 AM			
	Scandium(1)         81.9         0         70-200         %REC         1         06/15/13 03:59           Scandium(2)         89.8         0         70-200         %REC         1         06/15/13 03:59									

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

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C - Sample Result or QC discussed in Case Narrative

RL - Reporting Limit (MQL adjusted for moisture and sample size)

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SDL - Sample Detection Limit

E - TPH pattern not Gas or Diesel Range Pattern

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DHL Anal	lytical, Inc.		Da	ate:	20-Jun-13					
CLIENT:	CLIENT: D. B. Stephens & Assoc, Inc.					e 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 METAL	LS: ICP-MS - WATER		SW60					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							06/15/13 04:05 AM			
IS: Indium		0	70-200		%REC	1	06/15/13 04:05 AM			
IS: Scandium	(1)	0	70-200		%REC	1	06/15/13 04:05 AM			
IS: Scandium	(2)	79.2	0	70-200		%REC	4	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

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 Ana	lytical, Inc.		Da	ate:	20-Jun-13					
CLIENT:	CLIENT: D. B. Stephens & Assoc, Inc.					e ID: MW-	21			
Project:	Rockwool TCEQ		108-19							
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 METAL	LS: ICP-MS - WATER		SW60	20A				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: Germaniu	m	0	70-200		%REC	1	06/15/13 12:59 AM			
IS: Indium		0	70-200		%REC	1	06/15/13 12:59 AM			
IS: Scandium	(1)	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

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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 Page 19 of 26

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DHL Anal	lytical, Inc.		Da	ite:	20-Jun-13					
CLIENT:	D. B. Stephens & As		Client Sample ID: MW-22							
Project:	Rockwool TCEQ				08-20					
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 METAI				20A				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: Germaniu	m	0	70-200		%REC	1	06/15/13 04:11 AM			
IS: Indium		0	70-200		%REC	1	06/15/13 04:11 AM			
IS: Scandium	IS: Scandium(1) 83.7			70-200		%REC	1	06/15/13 04:11 AM		
IS: Scandium		76.8	0	70-200		%REC	1	06/15/13 04:11 AM		

Qualifiers:

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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

MK7 13 6.26-13

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DHL Analytical, Inc.					Da	ite:	20-Jun-13	
CLIENT:	LIENT: D. B. Stephens & Assoc, Inc.					e ID: MW	/-35-90	
Project:	Rockwool TCEQ				La	b ID: 130	6108-21	
Project No:	ES13.AIRS.11	Collection Date: 06/11/13 04:54 PM						
Lab Order:	1306108				Ma	atrix: AQ	UEOUS	
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METAL	S: ICP-MS - WATER		SW60	20A				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: Germaniu	m	101	0	70-200		%REC	5	06/17/13 12:21 PM
IS: Germaniu	m	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

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L - 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 Anal	DHL Analytical, Inc.					ate:	20-Jun-13		
CLIENT:	LIENT: D. B. Stephens & Assoc, Inc.				t Sampl	e ID: MW-3	7-90		
Project:		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 METAL	S: ICP-MS - WATER		SW60	20A				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: Germaniu	m	97.8	0	70-200		%REC	1	06/14/13 09:36 PM	
IS: Indium	IS: Indium 105			70-200		%REC	1	06/14/13 09:36 PM	
IS: Scandium	IS: Scandium(1) 96.7		0	70-200		%REC	1	06/14/13 09:36 PM	
IS: Scandium	(2)	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

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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 Anal	ytical, Inc.				Da	ate:	20-Jun-13	
CLIENT:	D. B. Stephens & As	soc, Inc.		Clier	ıt Sampl	e ID: MW-	38-90	
Project:	Rockwool TCEQ				La	<b>b ID:</b> 1306	108-23	
Project No:	ES13.AIRS.11			Co	llection	Date: 06/11	/13 04:26 PN	М
Lab Order:	1306108					atrix: AQU		
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER			SW60	20A	_			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	<b>70</b> -200		%REC	1	06/14/13 09:42 PM
IS: Germaniu	m	102	0	70-200		%REC	5	06/17/13 12:26 PM
IS: Germaniur	n	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:

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ND - Not Detected at the SDL

**DF-** Dilution Factor

J - Analyte detected between SDL and RL B - Analyte detected in the associated Method Blank

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 Page 23 of 26

DHL Anal	ytical, Inc.				Da	ate:	20-Jun-13				
CLIENT:	D. B. Stephens & As	ssoc, Inc.	<u> </u>	Clien	ıt Sampl	e ID: DUP-	-1				
Project:	Rockwool TCEQ				La	<b>b ID:</b> 1306	108-24				
Project No:	ES13.AIRS.11		Collection Date: 06/11/13 03:57 PM								
Lab Order:	1306108	08 Matrix: AQUEOUS									
Analyses	······································	Result	SDL	RL	Qual	Units	DF	Date Analyzed			
TRACE METAL	S: ICP-MS - WATER		SW60	20A				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: Germaniu	m	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

. . ....

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 Dicsel Range Pattern

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ytical, Inc.				Date:	20-Jun-13	_ , ,, <u></u>	
D. B. Stephens & As	isoc, Inc.		Clien	t Sample ID: E	R-2		
Rockwool TCEQ				Lab ID: 13	306108-25		
ES13.AIRS.11			Co	llection Date: 00	5/11/13 05:15 PI	M	
Lab Order: 1306108 Matrix: EQU							
	Result	SDL	RL	Qual Units	DF	Date Analyzed	
S: ICP-MS - WATER			20A			Analyst: SW	
	<0.000800	0.000800	0.00250	mg/L	1	06/14/13 11:09 PM	
	<0.00200	0.00200	0.00500	mg/L	1	06/14/13 11:09 PM	
	<0.000300	0.000300	0.00100	mg/L	1	06/14/13 11:09 PM	
	113	0	70-200	%REC	1	06/14/13 11:09 PM	
m	101	0	70-200	%REC	1	06/14/13 11:09 PM	
	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			70-200	%REC	1	06/14/13 11:09 PM	
	D. B. Stephens & As Rockwool TCEQ ES13.AIRS.11 1306108 S: ICP-MS - WATER	D. B. Stephens & Assoc, Inc. Rockwool TCEQ ES13.AIRS.11 1306108 Result S: ICP-MS - WATER <0.000800 <0.00200 <0.000300 113 m 101 105 (1) 100	D. B. Stephens & Assoc, Inc. Rockwool TCEQ ES13.AIRS.11 1306108 Result SDL S: ICP-MS - WATER SW60 <0.000800 0.000800 <0.00200 0.00200 <0.000300 0.000300 113 0 m 101 0 105 0 (1) 100 0	D. B. Stephens & Assoc, Inc.         Client           Rockwool TCEQ         ES13.AIRS.11         Col           1306108         Result         SDL         RL           S: ICP-MS - WATER         SW6020A             <0.000800	D. B. Stephens & Assoc, Inc.       Client Sample ID: E         Rockwool TCEQ       Lab ID: 12         ES13.AIRS.11       Collection Date: 04         1306108       Matrix: E         Result SDL         SW6020A         <0.000800	yitcal, Inc.       Client Sample ID: ER-2         D. B. Stephens & Assoc, Inc.       Client Sample ID: ER-2         Rockwool TCEQ       Lab ID: 1306108-25         ES13.AIRS.11       Collection Date: 06/11/13 05:15 Pl         1306108       Matrix: EQUIP BLANK         Result       SDL       RL       Qual       Units       DF         S: ICP-MS - WATER       SW6020A $<0.000800$ $0.000800$ $0.00250$ mg/L       1         <0.000300	

Qualifiers:

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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 Scc Final Page of Report for MQLs and MDLs

**.**....

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 Anal	ytical, Inc.				Đ	ate:	20-Jun-13			
CLIENT:	D. B. Stephens & A	ssoc, Inc.		Clien	it Sampl	e ID: ID\	N	······································		
Project:	Rockwool TCEQ			Lab ID: 1306108-26						
Project No:	ES13.AIRS,11			Col	lection	Date: 06/	12/13 08:19 AI	M		
Lab Order:	1306108		Matrix: AQUEOUS							
Analyses		Result	SDL	RL	Qual	Units	DF	Date Analyzed		
TRACE METAL	S: ICP-MS - WATER		SW6	020A				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: Germaniu	m	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 MERCU	DTAL MERCURY: AQUEOUS			470A				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

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DHL Analy	tical, In	IC.							Date	: 20-Jı	ın-13
CLIENT: Work Order: Project:	1306108	ephens & A 3 ol TCEQ	ssoc, Inc.	Inc. ANALYTICAL QC SUMMARY RI RunID: CETAC_HG_130							
Sample ID: DCS- SampType: DCS	57545	Batch ID: Run ID:			TestNo Analysi		7470A 2/2013 3:16:	16 PM	Units [.] Prep Date:	mg/L 5/21/	
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLin	nit HighLimit	%RPD	RPDLimit Qual
Mercury		0	.0000734	0.000200	0.000100	0	73.4	60	140	0	0

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Qualifiers:	в	Analyte detected in the associated Method Blank	DF	Dilution Factor	
	1	Analyte detected between MDL and RL	MDL	Method Detection Limit	Page 1 of 18
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits	<b>Q</b>
	RL,	Reporting Limit	S	Spike Recovery outside control limits	
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified	

CLIENT:	D. B. Step	hens & As	ssoc, Inc.		AN	ALYT	ICAL (	QC SU	JMMAR	YR	PORT
Work Order:	1306108	TOFO					RunII	- 	CETAC_H	C 120	617D
Project: The QC data in batc	Rockwool			mplas: 12061	00.064		KullIL		LETAC_H	G_150	
									11-22		
Sample ID: MB-579	38	Batch ID:		10 4000475	TestNo:		17470A		Units:	mg/L	
SampType: MBLK		Run ID:	CETAC_	_HG_130617E	Analysis	S Date: 6/1	7/2013 12:30		Prep Date:	6/14/20	
Anaiyte			Result	RL	SPK value	Ref Val	%REC	LowLimi	it HighLimit %	RPD RE	PDLimit Qual
Mercury		<0	.0000800	0.000200							
Sample ID: LCS-57	938	Batch ID:	57938		TestNo:	sw	7470A		Units:	mg/L	
SampType: LCS		Run ID:	CETAC	_HG_130617E	Analysis	5 Date: 6/1	7/2013 12:34	:49 PM	Prep Date:	6/14/20	13
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLimi	it HighLimit %	RPD RE	PDLimit Qual
Mercury		(	0.00202	0.000200	0.00200	0	101	85	115		
Sample ID: LCSD-5	7938	Batch ID:	57938		TestNo:	sw	7470A		Units:	mg/L	
SampType: LCSD		Run ID:	CETAC	_HG_130617E	Analysis	s Date: 6/1	7/2013 12:36	:51 PM	Prep Date:	6/14/20	13
Analyte	<u> </u>		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	RPD R	PDLimit Qual
Mercury		(	0.00204	0.000200	0.00200	0	102	85	115	0.985	15
Sample ID: 130609	1-02C SD	Batch ID:	57938		TestNo:	SW	17470A		Units:	mg/L	
SampType: <b>SD</b>		Run ID:	CETAC	_HG_130617E	Analysis	5 Date: 6/1	7/2013 12:40	:56 PM	Prep Date:	6/14/20	13
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	RPD R	PDLimit Qual
Mercury		<	0.000400	0.00100	0	0				0	10
Sample ID: 130609	1-02C PDS	Batch ID:	57938		TestNo:	SW	7470A		Units:	mg/L	
SampType: PDS		Run ID:	CETAC	_HG_130617E	Analysis	3 Date: 6/1	7/2013 12:42	:58 PM	Prep Date:	6/14/20	13
Analyte		<u> </u>	Result	RL	SPK value	Ref Val	%REC	LowLimi	it HighLimit %	RPD R	PDLimit Qual
Mercury			0.00255	0.000200	0.00250	0	102	85	115		
Sample ID: 130609	1-02C MS	Batch ID:	57938		TestNo:	SW	17470A		Units:	mg/L	
SampType: MS		Run ID:	CETAC_	_HG_130617E	Analysis	a Date: 6/1	7/2013 12:45	:0 <b>0 PM</b>	Prep Date:	6/14/20	13
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLimi	it HighLimit %	RPD R	PDLimit Qual
Mercury		(	0.00206	0.000200	0.00200	0	103	80	120		
Sample ID: 130609	1-02C MSD	Batch ID:	57938		TestNo:	SW	7470A		Units:	mg/L	
SampType: MSD		Run ID:	CETAC_	_HG_130617E	Analysis	s Date: 6/1	7/2013 12:47	:03 PM	Prep Date:	6/14/20	13
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLimi	it HighLimit %	RPD RF	PDLimit Qual
Mercury		(	).00213	0.000200	0.00200	0	106	80	120	3.34	15

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Qualifiers:	В	Analyte detected in the associated Method Blank	DF	Dilution Factor	
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit	Page 2 of 18
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits	2
	RL	Reporting Limit	S	Spike Recovery outside control limits	
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified	

CLIENT: Work Order: Project:	D. B. Stepl 1306108 Rockwool		ssoc, Inc.		AN	ALYTI	CAL ( RunII	-		RY REPORT HG_130617B
Sample ID: ICV-13 SampType: ICV	0617	Batch ID: Run ID:	R66967 CETAC	HG_130617E	TestNo: Analysis	SW7	470A 2013 12:26	:39 PM	Units: Prep Date	mg/L
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD RPDLimit Qual
Mercury			0.00430	0.000200	0.00400	0	108	90	110	
Sample ID: CCV1-1	30617	Batch ID:	R66967		TestNo:	SW7	470A		Units:	mg/L,
SampType: CCV		Run IÐ:	CETAC_	HG_1306178	8 Analysis	a Date: 6/17/	2013 12:51	:10 PM	Prep Date	:
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD RPDLimit Qual
Mercury			0.00211	0.000200	0.00200	0	106	90	110	
Sample ID: CCV2-1	30617	Batch ID:	R66967		TestNo:	SW7	470A		Units:	mg/L
SampType: CCV		Run ID:	CETAC_	HG_130617E	B Analysis	a Date: 6/17/	2013 1:05:	33 PM	Prep Date	:
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HìghLimit	%RPD RPDLimit Qual
Mercury	······································		0.00213	0.000200	0.00200	0	106	90	110	

Qualifiers:	В	Analyte detected in the associated Method Blank	DF	Dilution Factor	
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit	Page 3 of 18
	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	

#### D. B. Stephens & Assoc, Inc. CLIENT: 1306108 Work Order:

Project:

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## ANALYTICAL QC SUMMARY REPORT

Rockwool TCEQ

### RunID: ICP-MS2_130410A

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Sample ID: DCS-56857-1	Batch ID:	56857		TestNo	: <b>SW</b> (	6020A		Units:	mg/	L
SampType: DCS	Run ID:	ICP-MS2	2_130410A	Analysi	is 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:	В	Analyte detected in the associated Method Blank	DF	Dilution Factor	
	1	Analyte detected between MDL and RL	MDL	Method Detection Limit	Page 4 of 18
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits	U
	RL	Reporting Limit	S	Spike Recovery outside control limits	
	J	Analyte detected between SDL and RL	Ν	Parameter not NELAC certified	

CLIENT: Work Order:	D. B. Stej 1306108	phens & As	ssoc, Inc.		A	NALYT	ICAL O	QC SU	JMMA	R R	EPORT
Project:	Rockwoo	I TCEO					RunII	D: I	CP-MS2	13061	4D
The QC data in ba 06A, 1306108-07A 16A, 1306108-17A	tch 57936 ap	plies to the fe	09A, 1306	108-10A, 130							
Sample ID: MB-5	7936	Batch ID:	57936		TestN	lo: SW	5020A		Units:	mg/L	
SampType: MBLH	K	Run ID:	ICP-MS2	2_130614D	Analy	sis Date: 6/15	/2013 12:1:	3:00 AM	Prep Date:	6/14/2	2013
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD /	RPDLimit Qu
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		TestN	lo: SW	6020A		Units:	mg/L	
SampType: LCS		Run ID:	ICP-MS2	2_130614D	Analy	sis Date: 6/15	/2013 12:1	9:00 AM	Prep Date:	6/14/2	2013
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD F	RPDLimit Qu
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		TestN	io: SW	5020A		Units:	mg/L	
SampType: LCSD	I	Run ID:	ICP-MS2	_130614D	Analy	sis Date: 6/15	/2013 12:24	4:00 AM	Prep Date:	6/14/2	2013
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD F	RPDLimit Qu
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: 13061	08-19A SD	Batch ID:	57936		TestN	lo: SW(	5020A		Units:	mg/L	
SampType: <b>SD</b>		Run ID:	ICP-MS2	_130614D	Analy	sis Date: 6/15	/2013 1:05:	00 AM	Prep Date:	6/14/2	2013
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD F	RPDLimit Qu
Qualifiers: B	Analyte dei	tected in the a	ssociated M	ethod Blank	DF	Dilution Facto	or				
1	•	lected between			MDL					p	age 5 of 18
N	•	ed at the Meth			R	RPD outside a		trol limits		1	150 5 01 10
				-		Cailes Deseus	-	- 4			

- RL Reporting Limit
- J Analyte detected between SDL and RL
- S Spike Recovery outside control limits

N Parameter not NELAC certified

	B. Stephens & A 06108	ssoc, Inc.		AN	IALYTI	CAL C	-	JMMAF			RT
Project: Ro	ckwool TCEQ		·			RunIl	D: I	CP-MS2_	13061	14D	
Sample ID: 1306108-19	ASD Batch ID	57936		TestNo	: SW6	020A		Units:	mg/L	-	
SampType: <b>SD</b>	Run ID;	ICP-MS2	_130614D	Analys	is Date: 6/15/	2013 1:05:	00 AM	Prep Date:	6/14	/2013	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD	RPDLimit	Quai
Antimony	<u> </u>	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: 1306108-19	A PDS Batch ID	57936		TestNo	: SW6	020A		Units:	mg/l	•	
SampType: PDS	Run ID;	ICP-MS2	_130614D	Analys	is Date: 6/15/	/2013 2:03:	00 AM	Prep Date:	6/14	/2013	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD	RPDLimit	Qual
Antimony	<u></u>	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: 1306108-19	A MS Batch ID			TestNo	CINC	020A		Units:	mg/l		
Sample 12: 1900108-19 SampType: MS	Run ID:		_130614D		is Date: 6/15/		00 AM	Prep Date:	-	- /2013	
i								·			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD	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: 1306108-19	A MSD Batch ID	57936		TestNo	SW6	020A		Units:	mg/L	•	
SampType: MSD	Run ID:	ICP-MS2	_130614D	Analys	is Date: 6/15/	2013 2:15:	00 AM	Prep Date:	6/14	2013	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD	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 An	alyte detected in the	associated Me	thod Blank	DF	Dilution Factor	r					
-	alyte detected betwee				Method Detect				I	Page 6 of	18
	t Detected at the Me				RPD outside a		rol limite				

### ND Not Detected at the Method Detection Limit

RL Reporting Limit

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R RPD outside accepted control limits

S Spike Recovery outside control limits

Ν Parameter not NELAC certified ____

Analyte detected between SDL and RL J

Project:	Rockwool	TCEQ					RunII	): I(	ICP-MS2_130614D			
Sample ID: 1306108	3-19A MSD	Batch ID:	57936	<u> </u>	TestNo	: SW	6020A	·	Units:	mg/l	-	
SampType: MSD		Run ID:	ICP-MS	2_130614D	Analys	is Date: 6/15	/2013 2:15:	00 AM	Prep Date	: 6/14	/2013	
Analyte		<u> </u>	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	o	0	

ANALYTICAL QC SUMMARY REPORT

D. B. Stephens & Assoc, Inc.

1306108

CLIENT:

Work Order:

Qualifiers:	В	Analyte detected in the associated Method Blank	DF	Dilution Factor	
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit	Page 7 of 18
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits	Ū
	RL	Reporting Limit	S	Spike Recovery outside control limits	
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified	

CLIENT: Work Order:	D. B. Step 1306108	hens & A	ssoc, Inc.		AN	ALYT	ICAL (	QC SI	UMMAR	Y REPORT
Project:	Rockwool	TCEO					RunII	): ]	CP-MS2_	130614D
			ollowing sa	mples: 1306	108-21A, 13061	08-22A, 13			_	8-25A, 1306108-26A
Sample ID: MB-579	39	Batch ID:	57939		TestNo	SWE	5020A		Units:	mg/L
SampType: MBLK		Run ID:	ICP-MS	2_130614D	Analysi	s Date: 6/14	/2013 8:09:	00 PM	Prep Date:	6/14/2013
Analyte	······		Result	RL	SPK value	Ref Val	%REC	LowLin	nit HighLimit %	RPD RPDLimit Qua
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-57	939	Batch ID:	57939		TestNo	swe	5020A		Units:	mg/L
SampType: LCS		Run ID:	ICP-MS2	2_130614D	Analysis	s Date: 6/14	/2013 8:20:	00 PM	Prep Date:	6/14/2013
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	iit HighLimit %	RPD RPDLimit Qua
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	
.ead			0.180	0.00100	0.200	0	90.2	80	120	
Vickel			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-5	7939	Batch ID:	57939		TestNo:	SW6	020A		Units:	mg/L
SampType: LCSD		Run ID:	ICP-MS2	_130614D	Analysis	5 Date: 6/14/	2013 8:26:	00 PM	Prep Date:	6/14/2013
Analyte			Result	RL.	SPK value	Ref Val	%REC		······	RPD RPDLimit Qual

### В Analyte detected in the associated Method Blank J

- DF Dilution Factor
- Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit

Qualifiers:

- Analyte detected between SDL and RL J
- MDL Method Detection Limit R
- RPD outside accepted control limits s Spike Recovery outside control limits
- Ν

Page 8 of 18

- Parameter not NELAC certified

#### Sample ID: LCSD-57939 Batch ID: TestNo: SW6020A 57939 Units: mg/L SampType: LCSD Run ID: ICP-MS2_130614D Analysis Date: 6/14/2013 8:26:00 PM Prep Date: 6/14/2013 LowLimit HighLimit %RPD RPDLimit Qual Analyte Result SPK value Ref Val RI %REC Antimony 0.176 0 80 120 2.24 15 0.00250 0.200 88.2 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 80 120 0.883 0.200 0 91.0 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 n 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 0.200 0 IS: Scandium(1) 0.200 102 70 200 0 IS: Scandium(2) 0.200 95.4 0 0.200 70 200 n 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 ЧX Antimony 0.0705 0.0125 0 0.0704 0.099 10 NK 0.00897 10 R Arsenic 0.0106 0.0250 0 16.7 Barium 0.0490 0.0500 0.0485 1.11 10 0 NA Beryllium 0.00184 0.00500 0.000703 89.3 10 R 0 NK Cadmium 0.00500 0.000933 76.5 10 R 0.00209 0 Chromium 0.0250 0.00233 Ð 10 < 0.0100 0 WX Lead 0.00500 39.5 0.00387 0 0.00260 10 R N.A Nickel < 0.0150 0.0500 0 0.00555 0 10 NΛ Selenium 0.0196 0.0250 0 0.0163 18.8 10 R NK 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 0 200 0 IS: Indium 1.00 0.200 0 100 70 200 Ð 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: SW6020A 57939 TestNo: 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: В Analyte detected in the associated Method Blank DF **Dilution Factor** J Analyte detected between MDL and RL

### **Project:**

CLIENT:

Work Order:

Rockwool TCEQ

1306108

D. B. Stephens & Assoc, Inc.

ICP-MS2_130614D **RunID:** 

ANALYTICAL QC SUMMARY REPORT

- Not Detected at the Method Detection Limit
- RL Reporting Limit

ND

- Analyte detected between SDL and RL 3
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits

Ν Parameter not NELAC certified

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#### CLIENT: D. B. Stephens & Assoc, Inc. Work Order: 1306108

**Project:** 

Rockwool TCEO

## ANALYTICAL QC SUMMARY REPORT

### **RunID**: ICP-MS2 130614D

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Project:	Rockwool	TCEQ					RunIl	D: I	CP-MS2_	130614	D
Sample ID: 1306	108-26A PDS	Batch ID:	57939		TestN	o: <b>SW6</b>	020A		Units:	mg/L	
SampType: PDS		Run ID:	ICP-MS	2_130614D	Analy	sis Date: 6/14/	2013 9:48:	00 PM	Prep Date:	6/14/20	)13
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	RPD R	PDLimit Qu
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: 1306	108-26A MS	Batch ID [.]	57939		TestN	o: SWE	020A		Units:	mg/L	
SampType: MS		Run ID;	ICP-MS	2_130614D	Analy	sis Date: 6/14	2013 9:54:	00 PM	Prep Date:	6/14/20	)13
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	RPD R	PDLimit Qu
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: 1306	108-26A MSD	Batch ID:	57939		TestN	o: SW6	020A		Units:	mg/L	
SampType: MSD	l .	Run ID:	ICP-MS	2_130614D	Analy	sis Date: 6/14/	2013 9:59:	:00 PM	Prep Date:	6/14/2(	)13
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	KPD R	PDLimit Qu
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 det	ected in the a	issociated N	Acthod Blank	DF	Dilution Facto	r				
	J Analyte det	ected betwee	n MDL and	I R L	MDL	Method Detect	tion Limit			Pag	e 10 of 18
۲	D Not Detecto	ed at the Med	hod Detecti	on Limit	R	RPD outside a	ccepted con	trol limits			
		· ·.				<b>A T A</b>					

RL Reporting Limit

J Analyte detected between SDL and RL

S Spike Recovery outside control limits

N Parameter not NELAC certified

# CLIENT:D. B. Stephens & Assoc, Inc.Work Order:1306108

## ANALYTICAL QC SUMMARY REPORT

Project: Rockwool TCEQ

RunID: ICP-MS2_130614D

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Sample ID: 1306108-26A MSD	Batch ID:	57939		TestNo	: <b>SW6</b>	020A		Units:	mg/L	-
SampType: MSD	Run ID:	ICP-MS2	_130614D	Analys	is 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	9 <b>7</b> .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:	в	Analyte detected in the associated Method Blank	DF	Dilution Factor	
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit	Page 11 of 18
	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

## ANALYTICAL QC SUMMARY REPORT

**Project:** 

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Rockwool TCEQ

### ICP-MS2_130614D **RunID**:

Sample ID: ICV1-130614	Batch ID: R66954		TestN	lo: SW6	5020A		Units:	mg/L
SampType: ICV	Run ID: ICP-MS	2_130614D	Analy	sis Date: 6/14	/2013 1:00:	00 PM	Prep Date:	:
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimi	it HighLimit	%RPD RPDLimit Qua
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	O	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-13061			TestN		6020A		Units:	
SampType: LCVL		2 130614D		vsis Date: 6/14		00 PM	Prep Date	-
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLim	It HighLimit	%RPD RPDLimit Qua
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. <b>7</b>	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		TestN	lo: SW	6020A		Units:	mg/L
SampType: CCV	Run ID: ICP-MS	2_130614D	Analy	sis Date: 6/14	/2013 7:22:	00 PM	Prep Date	:
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD_RPDLimit Qua
Antimony	0.204	0.00250	0.200	0	102	90	110	<del></del>
Qualifiers: B Anab	yte detected in the associated M	Icthod Blank	DF	Dilution Facto	)r	· ·		
-	yte detected between MDL and		MDL					Page 12 of 18
	Detected at the Method Detection		R	RPD outside		rol limits		1 450 12 01 10
	rting Limit		S	Spike Recove	•			
•	yte detected between SDL and	RT	S N	Parameter not			,	
J AIRI	Je deletter between obe and							

### CLIENT: D. B. Stephens & Assoc, Inc. 1306108 Work Order:

## ANALYTICAL QC SUMMARY REPORT

**RunID**:

ICP-MS2_130614D

Project:

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Rockwool TCEQ

Sample ID: CCV3-130614	Batch ID: R66954		TestN	lo: SWI	6 <b>020A</b>		Units:	mg/L
SampType: CCV	Run ID: ICP-MS2	2_130614D	Analy	sis Date: <b>6/14</b>	/2013 7:22:	:00 PM	Prep Date	2:
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD RPDLimit Qua
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		Test	lo: SW	6020A	··	Units:	mg/L
SampType: LCVL	Run ID: ICP-MS2	2_130614D	Analy	sis Date: 6/14	/2013 7:51	:00 PM	Prep Date	<b>;</b> ;
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD RPDLimit Qua
Antimony	0.00203	0.00250	0.00200	0	102	70	130	
Arsenic	0.00472	0.00500	0.00500	0	94. <b>3</b>	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. <b>3</b>	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		TestN	lo: SW(	6020A		Units:	mg/L
SampType: CCV	Run ID; ICP-MS2	2_130614D	Analy	sis Date: 6/14	/2013 10:0	5:00 PM	Prep Date	<b>3</b> :
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD RPDLimit Qua
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 d	ctected in the associated M	cthod Blank	DF	Dilution Facto	)r			
J Analyte d	etected between MDL and	RL	MDL	Method Detec	tion Limit			Page 13 of 18
ND Not Detec	ted at the Method Detectio	n Limit	R	RPD outside a	accepted cont	trol limits		<b>V</b>
RL Reporting	g Limit		S	Spike Recover	ry outside co	ntrol limits	3	
	- Internal hoters on CDL and D		17	<b>.</b>	NEL LO			

- J Analyte detected between SDL and RL
- N Parameter not NELAC certified
- 54

					RunII	)• T	CP_MS7	130614D
Poteb ID	DCEDEA			SIMO				_130014D mg/L
								-
Run ID:	ICP-MS2	_130614D	Analysis	s Date: 6/14	/2013 10:05	:00 PM	Prep Date	
	Result	RL	SPK value	Ref Val	%REC	LowLimi	it HighLimit	%RPD RPDLimit Qua
	0.204	0.0100	0.200	0	102	90	110	
	0.188	0.00100	0.200	0	94.0	90	110	
	0.204	0.00100	0.200	0	102	90	110	
	0.216	0.00500	0.200	0	108	90	110	
	0.206	0.00100	0.200	0	103	90	110	
	0.215	0.0100	0.200	0	107	90	110	
	0.209	0.00500	0.200	0	104	90	110	
	0.209	0.00200	0.200	0	104	90	110	
	0.200		0.200		105	70	200	
	0.200		0.200		97.5	70	200	
	0.200		0.200		96.8	70	20 <b>0</b>	
	0.200		0.200		97.1	70	200	
	0.200		0.200		86.2	70	200	
Batch ID:	R66954		TestNo	SW	6020A		Units:	mg/L
Run ID:	ICP-MS2	_130614D	Analysi	s Date: 6/14	/2013 10:40	6:0 <b>0 PM</b>	Prep Date	:
	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD RPDLimit Qua
	0.00207	0.00250	0.00200	0	104	70	130	
	0.00465	0.00500	0.00500	0	93.0	70	130	
	0.00482	0.0100	0.00500	0	96.5	70	130	
	0.000779	0.00100	0.00100	0	77.9	70	130	
	0.000997	0.00100	0.00100	0	<b>99.7</b>	70	130	
		0.00500	0.00500	0	100	70	130	
					99.2	70	130	
				0	98.9	70	130	
				0		70	130	
		0.00200		~				
					93.2	70	200	
Batch (D)	<u> </u>			· SW	6020A		Units:	mg/L
		4206440				5.00 DM		-
Run ID:	ICP-M52		Analysi	s Date: 0/14	4/2013 11:1:			
	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD RPDLimit Qua
<u></u>	Result							
<u> </u>	0.209	0.00250	0.200	0	104	90	110	
	<u> </u>		0.200 0.200	0 0	104 106	90 90	110 110	
	Batch ID: Run ID: Batch ID: Run ID:	Batch ID:         R66954           Run ID:         ICP-MS2           Result         0.204           0.188         0.204           0.216         0.206           0.215         0.209           0.200         0.209           0.200         0.200           0.200         0.200           0.200         0.200           0.200         0.200           0.200         0.200           0.200         0.200           0.200         0.200           0.200         0.200           0.200         0.200           0.200         0.200           0.200         0.200           0.200         0.200           0.00207         0.00465           0.004482         0.000997           0.00502         0.000993           0.00494         0.00502           0.00194         0.200           0.200         0.200           0.200         0.200           0.200         0.200           0.200         0.200           0.200         0.200           0.200         0.200           0.200         0.200 <td>Batch ID:       R66954         Run ID:       ICP-MS2_130614D         Result       RL         0.204       0.0100         0.188       0.00100         0.204       0.00100         0.204       0.00100         0.216       0.00500         0.206       0.00100         0.215       0.0100         0.209       0.00500         0.209       0.00200         0.200       0.200         0.200       0.200         0.200       0.200         0.200       0.200         0.200       0.200         0.200       0.200         0.200       0.200         0.200       0.200         0.200       0.200         0.200       0.200         0.200       0.200         0.00207       0.00250         0.00465       0.00500         0.00207       0.00250         0.00207       0.00100         0.00207       0.00502         0.00502       0.00500         0.00194       0.0100         0.00502       0.00500         0.00194       0.00200         &lt;</td> <td>Batch ID:         R66954         TestNo:           Run ID:         ICP-MS2_130614D         Analysis           0.204         0.0100         0.200           0.188         0.00100         0.200           0.204         0.0100         0.200           0.204         0.00100         0.200           0.204         0.00100         0.200           0.206         0.00100         0.200           0.216         0.00500         0.200           0.209         0.00500         0.200           0.209         0.00200         0.200           0.209         0.00200         0.200           0.200         0.200         0.200           0.200         0.200         0.200           0.200         0.200         0.200           0.200         0.200         0.200           0.200         0.200         0.200           0.200         0.200         0.200           0.200         0.200         0.200           0.200         0.200         0.200           0.200         0.200         0.200           0.200         0.200         0.200           0.200         0.00200         <td< td=""><td>Batch ID:         R66954         TestNo:         SWA           Run ID:         ICP-MS2_130614D         Analysis Date: 6/14           0.204         0.0100         0.200         0           0.204         0.0100         0.200         0           0.204         0.0100         0.200         0           0.204         0.00100         0.200         0           0.204         0.00100         0.200         0           0.204         0.00100         0.200         0           0.206         0.00100         0.200         0           0.206         0.00100         0.200         0           0.209         0.00500         0.200         0           0.209         0.00200         0.200         0           0.200         0.200         0.200         0           0.200         0.200         0.200         0           0.200         0.200         0.200         0           0.200         0.200         0.200         0           0.200         0.200         0.200         0           0.200         0.200         0.200         0           0.200         0.200         0.200</td><td>Batch ID:         R66954         TestNo:         SW6020A           Run ID:         ICP-MS2_130614D         Analysis Date: 6/14/2013 10:05           Result         RL         SPK value         Ref Val         %REC           0.204         0.0100         0.200         0         102           0.188         0.00100         0.200         0         102           0.204         0.00100         0.200         0         102           0.216         0.00500         0.200         0         103           0.215         0.0100         0.200         0         104           0.209         0.00500         0.200         0         104           0.209         0.00200         0.200         0         104           0.200         0.200         0.200         97.5         0.200           0.200         0.200         0.200         97.5         0.200         96.8           0.200         0.200         0.200         93.0         0.00207           0.200         0.200         0         104         0.00465         0.00200         0         104           0.200         0.00207         0.00250         0.00200         99.7</td><td>Batch ID:         R66954         TestNo:         SW6020A           Run ID:         ICP-MS2_130614D         Analysis Date: 6/14/2013 10:05:00 PM           Result         RL         SPK value         Ref Val         %REC         LowLim           0.204         0.0100         0.200         0         102         90           0.204         0.0100         0.200         0         102         90           0.204         0.00100         0.200         0         102         90           0.206         0.00100         0.200         0         103         90           0.215         0.0100         0.200         0         104         90           0.209         0.00500         0.200         0         104         90           0.209         0.00200         0.200         0         104         90           0.200         0.200         0.200         97.5         70           0.200         0.200         97.5         70           0.200         0.200         97.5         70           0.200         0.200         0         96.8         70           0.200         0.2000         0         90         93.0</td></td<><td>Batch ID:         R6954         TestNo:         SW6020A         Units:           Run ID:         ICP-MS2_130614D         Analysis Date: 6/14/2013 10:05:00 PM         Prep Date           Result         RL         SPK value         Ref Val         %REC         LowLimit HighLimit           0.204         0.0100         0.200         0         102         90         110           0.204         0.00100         0.200         0         102         90         110           0.204         0.00100         0.200         0         102         90         110           0.206         0.00100         0.200         0         103         90         110           0.206         0.00100         0.200         0         104         90         110           0.209         0.00500         0.200         0         104         90         110           0.209 0.00500         0.200         0         104         90         110           0.200 0.200 0.200 97.5 70         200           0.200 0.200 0.200 97.5 70         200           0.200 0.200 0.200 0 104 90 110           0.200&lt;</td></td>	Batch ID:       R66954         Run ID:       ICP-MS2_130614D         Result       RL         0.204       0.0100         0.188       0.00100         0.204       0.00100         0.204       0.00100         0.216       0.00500         0.206       0.00100         0.215       0.0100         0.209       0.00500         0.209       0.00200         0.200       0.200         0.200       0.200         0.200       0.200         0.200       0.200         0.200       0.200         0.200       0.200         0.200       0.200         0.200       0.200         0.200       0.200         0.200       0.200         0.200       0.200         0.00207       0.00250         0.00465       0.00500         0.00207       0.00250         0.00207       0.00100         0.00207       0.00502         0.00502       0.00500         0.00194       0.0100         0.00502       0.00500         0.00194       0.00200         <	Batch ID:         R66954         TestNo:           Run ID:         ICP-MS2_130614D         Analysis           0.204         0.0100         0.200           0.188         0.00100         0.200           0.204         0.0100         0.200           0.204         0.00100         0.200           0.204         0.00100         0.200           0.206         0.00100         0.200           0.216         0.00500         0.200           0.209         0.00500         0.200           0.209         0.00200         0.200           0.209         0.00200         0.200           0.200         0.200         0.200           0.200         0.200         0.200           0.200         0.200         0.200           0.200         0.200         0.200           0.200         0.200         0.200           0.200         0.200         0.200           0.200         0.200         0.200           0.200         0.200         0.200           0.200         0.200         0.200           0.200         0.200         0.200           0.200         0.00200 <td< td=""><td>Batch ID:         R66954         TestNo:         SWA           Run ID:         ICP-MS2_130614D         Analysis Date: 6/14           0.204         0.0100         0.200         0           0.204         0.0100         0.200         0           0.204         0.0100         0.200         0           0.204         0.00100         0.200         0           0.204         0.00100         0.200         0           0.204         0.00100         0.200         0           0.206         0.00100         0.200         0           0.206         0.00100         0.200         0           0.209         0.00500         0.200         0           0.209         0.00200         0.200         0           0.200         0.200         0.200         0           0.200         0.200         0.200         0           0.200         0.200         0.200         0           0.200         0.200         0.200         0           0.200         0.200         0.200         0           0.200         0.200         0.200         0           0.200         0.200         0.200</td><td>Batch ID:         R66954         TestNo:         SW6020A           Run ID:         ICP-MS2_130614D         Analysis Date: 6/14/2013 10:05           Result         RL         SPK value         Ref Val         %REC           0.204         0.0100         0.200         0         102           0.188         0.00100         0.200         0         102           0.204         0.00100         0.200         0         102           0.216         0.00500         0.200         0         103           0.215         0.0100         0.200         0         104           0.209         0.00500         0.200         0         104           0.209         0.00200         0.200         0         104           0.200         0.200         0.200         97.5         0.200           0.200         0.200         0.200         97.5         0.200         96.8           0.200         0.200         0.200         93.0         0.00207           0.200         0.200         0         104         0.00465         0.00200         0         104           0.200         0.00207         0.00250         0.00200         99.7</td><td>Batch ID:         R66954         TestNo:         SW6020A           Run ID:         ICP-MS2_130614D         Analysis Date: 6/14/2013 10:05:00 PM           Result         RL         SPK value         Ref Val         %REC         LowLim           0.204         0.0100         0.200         0         102         90           0.204         0.0100         0.200         0         102         90           0.204         0.00100         0.200         0         102         90           0.206         0.00100         0.200         0         103         90           0.215         0.0100         0.200         0         104         90           0.209         0.00500         0.200         0         104         90           0.209         0.00200         0.200         0         104         90           0.200         0.200         0.200         97.5         70           0.200         0.200         97.5         70           0.200         0.200         97.5         70           0.200         0.200         0         96.8         70           0.200         0.2000         0         90         93.0</td></td<> <td>Batch ID:         R6954         TestNo:         SW6020A         Units:           Run ID:         ICP-MS2_130614D         Analysis Date: 6/14/2013 10:05:00 PM         Prep Date           Result         RL         SPK value         Ref Val         %REC         LowLimit HighLimit           0.204         0.0100         0.200         0         102         90         110           0.204         0.00100         0.200         0         102         90         110           0.204         0.00100         0.200         0         102         90         110           0.206         0.00100         0.200         0         103         90         110           0.206         0.00100         0.200         0         104         90         110           0.209         0.00500         0.200         0         104         90         110           0.209 0.00500         0.200         0         104         90         110           0.200 0.200 0.200 97.5 70         200           0.200 0.200 0.200 97.5 70         200           0.200 0.200 0.200 0 104 90 110           0.200&lt;</td>	Batch ID:         R66954         TestNo:         SWA           Run ID:         ICP-MS2_130614D         Analysis Date: 6/14           0.204         0.0100         0.200         0           0.204         0.0100         0.200         0           0.204         0.0100         0.200         0           0.204         0.00100         0.200         0           0.204         0.00100         0.200         0           0.204         0.00100         0.200         0           0.206         0.00100         0.200         0           0.206         0.00100         0.200         0           0.209         0.00500         0.200         0           0.209         0.00200         0.200         0           0.200         0.200         0.200         0           0.200         0.200         0.200         0           0.200         0.200         0.200         0           0.200         0.200         0.200         0           0.200         0.200         0.200         0           0.200         0.200         0.200         0           0.200         0.200         0.200	Batch ID:         R66954         TestNo:         SW6020A           Run ID:         ICP-MS2_130614D         Analysis Date: 6/14/2013 10:05           Result         RL         SPK value         Ref Val         %REC           0.204         0.0100         0.200         0         102           0.188         0.00100         0.200         0         102           0.204         0.00100         0.200         0         102           0.216         0.00500         0.200         0         103           0.215         0.0100         0.200         0         104           0.209         0.00500         0.200         0         104           0.209         0.00200         0.200         0         104           0.200         0.200         0.200         97.5         0.200           0.200         0.200         0.200         97.5         0.200         96.8           0.200         0.200         0.200         93.0         0.00207           0.200         0.200         0         104         0.00465         0.00200         0         104           0.200         0.00207         0.00250         0.00200         99.7	Batch ID:         R66954         TestNo:         SW6020A           Run ID:         ICP-MS2_130614D         Analysis Date: 6/14/2013 10:05:00 PM           Result         RL         SPK value         Ref Val         %REC         LowLim           0.204         0.0100         0.200         0         102         90           0.204         0.0100         0.200         0         102         90           0.204         0.00100         0.200         0         102         90           0.206         0.00100         0.200         0         103         90           0.215         0.0100         0.200         0         104         90           0.209         0.00500         0.200         0         104         90           0.209         0.00200         0.200         0         104         90           0.200         0.200         0.200         97.5         70           0.200         0.200         97.5         70           0.200         0.200         97.5         70           0.200         0.200         0         96.8         70           0.200         0.2000         0         90         93.0	Batch ID:         R6954         TestNo:         SW6020A         Units:           Run ID:         ICP-MS2_130614D         Analysis Date: 6/14/2013 10:05:00 PM         Prep Date           Result         RL         SPK value         Ref Val         %REC         LowLimit HighLimit           0.204         0.0100         0.200         0         102         90         110           0.204         0.00100         0.200         0         102         90         110           0.204         0.00100         0.200         0         102         90         110           0.206         0.00100         0.200         0         103         90         110           0.206         0.00100         0.200         0         104         90         110           0.209         0.00500         0.200         0         104         90         110           0.209 0.00500         0.200         0         104         90         110           0.200 0.200 0.200 97.5 70         200           0.200 0.200 0.200 97.5 70         200           0.200 0.200 0.200 0 104 90 110           0.200<

## ANALYTICAL OC SUMMARY REPORT

J Analyte detected between MDL and RL

- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- Analyte detected between SDL and RL J

D. B. Stephens & Assoc, Inc.

CLIENT:

- MDL Method Detection Limit R RPD outside accepted control limits
- Spike Recovery outside control limits S
- Parameter not NELAC certified Ν

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Prenjeci:         Ruckwool TCEQ         Rub (CE)         CP-MS2_1306120         Rub (CE)         CP-MS2_1306120           Sampi D:         CCV5130614         Batch ID:         R69554         TestNo:         SW6020         Units:         mg/L           Analysis         Date:         Gr120         TestNo:         SW6020         Units:         Mg/L           Singermanum         0.200         0.200         101         70         200         Implementation (CE)         State:         Gr120         Total (CE)         Gr1	CLIENT: Work Order:	D. B. Ster 1306108	ohens & As	soc, Inc.		ANALYTICAL QC SUMMARY REPOR						
SampType: CCV         Run ID:         ICP-MS2_130614D         Analysic Date: 8/14/2013 11:15:00 PM         Prep Date:           Analysic Date: 8/14/2013 11:15:00 PM         Result         RL         SPK value         Ref Val         %REC         LowLimit HighLimit %RPD RPDLimit G           IS: Bismuth         0.200         0.200         113         70         200           IS: Germanium         0.200         0.200         100         70         200           IS: Sendium(2)         0.200         0.200         100         70         200           Sis Sendium(2)         0.200         0.200         100         70         200           SampType: LCVL         Run ID:         ICP-MS2_130614D         Analysis Date: 6/14/2013 11:55:00 PM         Prep Date:           Analysis         Analysis Date: 6/14/2013 11:55:00 PM         Prep Date:         MREC         LowLimit HighLimit %RPD RPDLimit G           Analysis         Result         RL         SPK value         Ref Val         %REC         LowLimit HighLimit %RPD RPDLimit G           Analysis         Date:         G0.00204         0.00200         0         102         70         130           Analysis         Result         RL         SPK value         Ref Val         %REC         LowLimi			I TCEQ	_	_			RunII	): I	CP-MS2	_130614D	
Analyle         Result         RL         SPK value         Ref Val         %REC         LowLimit HighLimit %RPD RPDLimit of 300           18: Germanum         0.200         0.200         1113         70         200           18: Germanum         0.200         0.200         101         70         200           18: Germanum         0.200         0.200         100         70         200           18: Stanuth         0.200         0.200         100         70         200           18: Stanuth         0.200         0.200         100         70         200           18: Stanuth         0.200         0.200         100         70         200           SampType: LCVL         Rui ID:         ICPMS2_130614D         Analysia Date: 614/2013 11:55:00 PM         Prep Date:           Analysia         Result         RL         SPK value         Ref Val         %REC         LowLimit HighLimit %RPD RPDLimit G           Antimory         0.0024         0.00250         0.00200         0         102         70         130           Arterinic         0.00499         0.00500         0.00500         0.057         70         130           IS: Banduh         0.200         0.200         1	Sample ID: CCV51	30614	Batch ID:	R66954		TestNo	: SW	5020A		Units:	 mg/L	
IS: Bismuth       0.200       113       70       200         IS: Germanium       0.200       0.200       101       70       200         IS: Germanium       0.200       0.200       105       70       200         IS: Scandburn(1)       0.200       0.200       100       70       200         IS: Scandburn(2)       0.200       0.200       100       70       200         Samplo ID: LCVL5-130614       Batch ID:       R66954       TestNo:       SW6020A       Units:       mg/L         Analysis Date: 6f4/2D13 11:55:00 PM       Prep Date:       Analysis Date: 6f4/2D13 11:55:00 PM       Prep Date:         Analysis Date: 6f4/2D1       Result       RL       SPK value       Ref Val       %REC       LowLimit HighLimit %RPD RPDLimit for Analysis Date: 6f4/2D13 11:55:00 PM       Prep Date:         Anseria       0.00049       0.00200       0       0.12       70       130         IS: Bernatium       0.200       0.00100       93.9       70       130         IS: Bernatium       0.200       0.200       104       70       200         IS: Bernatium       0.200       0.200       103       70       200         IS: Scandium(1)       0.200       0.	SampType: CCV		Run ID:	ICP-MS2	_130614D	Analysi	s Date: 6/14	/2013 11:15	:00 PM	Prep Date	:	
IS: Germanium       0.200       0.200       101       70       200         IS: Indium       0.200       0.200       105       70       200         IS: Scandium(2)       0.200       0.200       92.5       70       200         IS: Scandium(2)       0.200       0.200       92.5       70       200         Sampion:       LCVL5-130614       Batch ID:       R6984       TestNo:       SW6020A       Unlits:       mg/L         Analyte       Result       RL       SPK value       Ref Val       %REC       LowLimit HighLimit %RPD RPDLimit G         Analyte       Result       RL       SPK value       Ref Val       %REC       LowLimit HighLimit %RPD RPDLimit G         Antimony       0.00469       0.00500       0.00500       0       93.9       70       130         Lead       0.00469       0.00500       0.0200       112       70       200         IS: Bennuth       0.200       0.200       102       70       130         Lead       0.200       0.200       103       70       200         IS: Seandium(1)       0.200       0.200       104       70       200         IS: Seandium(1)       0.200	Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD RPDLimit Qua	
IS: Standum(1)         0.200         0.200         105         70         200           IS: Scandum(2)         0.200         0.200         92.5         70         200           Sample ID: LCVLS-130614         Batch ID:         R66954         TestNo:         SW6020A         Unlis:         mg/L           Analyte         Run ID:         ICP-M52_1306140         Analysis Date: 6/14/2013 11:55:50 PM         Prep Date:           Analyte         Result         RL         SPK value         Rel Val         %REC         LowLmit HighLimit %RPD RPDLimit 0           Ansenic         0.00257         0.00250         0.0100         0         95.7         70         130           Sis Germanium         0.200         0.200         0         12         70         200           Sis Seandium(1)         0.200         0.200         112         70         200         130           Sis Germanium         0.200         0.200         104         70         200         155           Sis Germanium         0.200         0.200         0.200         104         70         200           Sis Seandium(2)         0.200         0.200         104         70         200         155           Si	IS: Bismuth			0.200		0.200		113	70	200		
IS: Scandium(1)       0.200       0.200       92.0       70       200         Sample ID: LCVLS-130614       Batch ID:       R69954       TestNo:       SW6020A       Units:       mg/L         Samply ID: LCVL       Run ID:       ICP4852_1306140       Analysis Date: 6/14/2013 11:55: 00 PM       Units:       mg/L         Analyte       Run ID:       ICP4852_1306140       Analysis Date: 6/14/2013 11:55: 00 PM       Units:       mg/L         Analyte       Run ID:       ICP4852_1306140       0.00200       0       102       70       130         Analyte       0.00204       0.00200       0       0.02       70       130         Lead       0.000957       0.00100       0.00100       95.7       70       200         IS: Bernuth       0.200       0.200       102       70       200       102       70       200         IS: Isstimit       0.200       0.200       0.200       102       70       200       102       70       200       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110 <td< td=""><td>IS: Germanium</td><td></td><td></td><td>0.200</td><td></td><td>0.200</td><td></td><td>101</td><td>70</td><td>200</td><td></td></td<>	IS: Germanium			0.200		0.200		101	70	200		
IS: Scandium(2)         0.20         92.5         70         200           Sample ID: LCVL5-130614         Batch ID:         R66954         TestNo:         SW6020A         Units:         mg/L           SampType: LCVL         Run ID:         ICP-M52_1306140         Analysis Date: 6/14/2013 11:55:00 PM         Prep Date:           Analyste         Result         RL         SPK value         Ref Val         %REC         LowLimit HighLimit %RPD RPDLimit O           Ansenic         0.002074         0.00220         0.00200         0         102         70         130           Lead         0.000957         0.00100         0.09102         70         200         130           IS: Bismuth         0.200         0.200         1102         70         200         130           IS: Scandium(1)         0.200         0.200         1032         70         200         130           Sis Scandium(2)         0.200         0.200         1032         70         200         130           Sis Scandium(1)         0.200         0.200         103         70         200         130           Sis Scandium(2)         0.205         0.00250         0.200         1010         1011         101	IS: Indium			0.200		0.200		105	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 Origination           Antimony         0.00204         0.00250         0.00200         0         93.9         70         130           Arsenic         0.00469         0.00100         0.90100         95.7         70         130           Lead         0.000957         0.00100         0.200         112         70         200           IS: Bernuth         0.200         0.200         102         70         200         151           IS: Indium         0.200         0.200         103         70         200         151           St Proper CCV         Run ID:         ICP-MS2_130614D         Analysis Date: 6/15/2013 2:20:00 AM         Prep Date:           SampType:         CCV         Run ID:         ICP-MS2_130614D         Analysis Date: 6/15/2013 2:20:00 AM         Prep Date:           Analyte         Resuit         RL	IS: Scandium(1)			0.200		0.200		100	70	20 <b>0</b>		
SampType:         LVL         Run ID:         ICP-MS2_1306140         Analysis Date:         6/14/2013 11:55:00 PM         Prep Date:           Analyte         Result         RL         SPK value         Ref Val         %REC         LowLimit HighLimit %RPD RPDLimit Of Ansenic         0.00206         0.00200         0         130           Artsenic         0.00468         0.00500         0.00100         0         93.8         70         130           Lead         0.000957         0.00100         0.00100         0         95.7         70         130           IS: Bernuth         0.200         0.200         112         70         200         15: 100           IS: Gernanium         0.200         0.200         103         70         200           IS: Scandium(1)         0.200         0.200         103         70         200           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 Of Ansenic           Analyte         Result         RL         SPK value         Ref Val         %REC         LowLimit HighL	IS: Scandium(2)			0.200		0.200		92.5	70	200		
Analyte         Result         RL         SPK value         Ref Val         %REC         LowLimit HighLimit %RPD RPDLimit Of Antimony           Analyte         0.00204         0.00250         0.00200         0         102         70         130           Anternic         0.00469         0.00500         0         93.9         70         130           Arcenic         0.00469         0.00500         0         95.7         70         130           Is: Bismuth         0.200         0.200         112         70         200           Is: Germanium         0.200         0.200         102         70         200           Is: Scandium(2)         0.200         0.200         103         70         200           Is: Scandium(2)         0.200         0.200         103         70         200           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 G           Ansenic         0.205         0.0200         0         106         90         110           Lead         0.202	Sample ID: LCVL5	-130614	Batch ID:	R66954		TestNo	: SW	6020A		Units:	mg/L	
Antimony Arsenic         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         0.01100         0         95.7         70         130           IS: Bismuth         0.200         0.200         112         70         200           IS: Germanium         0.200         0.200         103         70         200           IS: Scandium(1)         0.200         0.200         103         70         200           IS: Scandium(2)         0.200         0.200         92.4         70         200           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 (           Arsenic         0.212         0.00500         0.200         0         101         90         110           Is: Bernuth         0.200         0.200         0         106         90         110           Is: Scandium(1)         <	SampType: LCVL		Run ID:	ICP-MS2	130614D	Analysi	is Date: 6/14	/2013 11:55	5:00 PM	Prep Date	:	
Arsenic       0.00469       0.00500       0.00500       0       93.9       70       130         Lead       0.000957       0.01100       0.01100       0       95.7       70       130         IS: Bismuth       0.200       0.200       112       70       200         IS: Germanium       0.200       0.200       104       70       200         IS: Israndium(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       Wolks       Prep Date:         Analyte       Result       RL       SPK value       Ref Val       %REC       LowLimit HighLimit %RPD RPDLimit         Analyte       Result       RL       SPK value       Ref Val       %REC       LowLimit HighLimit %RPD RPDLimit         Sis Germanium       0.205       0.00200       0       101       90       110         Lead       0.202       0.00100       0.200       0       101       90       110         Lead       0.202       0.00200       92.5       70       200 <td>Analyte</td> <td></td> <td></td> <td>Result</td> <td>RL.</td> <td>SPK value</td> <td>Ref Val</td> <td>%REC</td> <td>LowLim</td> <td>it HighLimit</td> <td>%RPD RPDLimit Qua</td>	Analyte			Result	RL.	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD RPDLimit Qua	
Lead         0.000957         0.00100         0.0100         0         95.7         70         130           IS: Bismuth         0.200         0.200         112         70         200           IS: Germanium         0.200         0.200         102         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:         CCV-6130614         Batch ID:         R66954         TestNo:         SW6020A         Unlls:         mg/L           Analysis Date:         6/15/2013 2:0:00 AM         Prep Date:         Analysis Date:         6/15/2013 2:0:00 AM         Prep Date:           Analysis         Result         RL         SPK value         Ref Val         %REC         LowLimit HighLimit %RPD RPDLimit G           Ansenic         0.202         0.00100         0.200         0         100         100         100           IS: Bismuth         0.202         0.00100         0.200         0         101         90         110           Lead         0.202         0.00100         0.200         200         200         101 <td>Antimony</td> <td></td> <td>(</td> <td>0.00204</td> <td>0.00250</td> <td>0.00200</td> <td>0</td> <td>102</td> <td>70</td> <td>130</td> <td></td>	Antimony		(	0.00204	0.00250	0.00200	0	102	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       103       70       200         IS: Scandium(1)       0.200       0.200       103       70       200         Sample ID:       CCV6-130614       Batch ID:       R66954       TestNo:       SW6020A       Unlts:       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 O         Antimony       0.205       0.00250       0.200       0       106       90       110         Lead       0.202       0.00100       0.200       0       101       90       110         IS: Bismuth       0.200       0.200       0       107       70       200         IS: Scandium(2)       0.200       0.200       97.6       70       200         IS: Scandium(2)       0.200       0.200       91.9       70       200         IS: Scandium(2)<	Arsenic		(	0.00469	0.00500	0.00500	0	93.9	70	130		
IS: Germanium       0.200       0.200       102       70       200         IS: Indium       0.200       0.200       103       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         Analyte       Result       RL       SPK value       Ref Val       %REC       LowLimit HighLimit %RPD RPDLimit G         Analyte       Result       RL       SPK value       Ref Val       %REC       LowLimit HighLimit %RPD RPDLimit G         Ansenic       0.212       0.00500       0.200       0       101       90       110         IS: Bismuth       0.200       0.200       0       101       90       110         IS: Scandium(1)       0.200       0.200       92.5       70       200         IS: Scandium(1)       0.200       0.200       91.9       70       200         IS: Scandium(2)       0.200       0.200       91.9       70       200         IS: Scandium(1)       0.200	Lead		0	.000957	0.00100	0.00100	0	<b>95.7</b>	70	130		
IS: Indium       0.200       0.200       104       70       200         IS: Scandium(1)       0.200       0.200       103       70       200         Sample ID:       CCV6-130614       Batch ID:       R6954       TestNo:       SW6020A       Units:       mg/L         Sample ID:       CCV6-130614       Batch ID:       R6954       TestNo:       SW6020A       Units:       mg/L         Analyte       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 0         Antimony '       0.205       0.00250       0.200       0       102       90       110         Lead       0.202       0.00100       0.200       0       107       70       200         IS: Scandium(1)       0.200       0.200       0.200       97.6       70       200         Sis Scandium(2)       0.200       0.200       97.6       70       200       105         Sis Scandium(1)       0.200       0.200       97.6       70       200       105         Sis Scandium(2)       0.200       0.200	IS: Bismuth			0.200		0.200		112	70	200		
IS: Scandium(1)       0.200       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 0         Antimony       0.205       0.00250       0.200       0       102       90       110         Lead       0.202       0.00100       0.200       0       101       90       110         IS: Bismuth       0.200       0.200       0.200       90       110       101         IS: Isdium       0.200       0.200       0.200       90       110       101         IS: Isdium(1)       0.200       0.200       92.5       70       200       102       101       101       101       101       101       101       101       101       101       102       101       101       101       102       101       101       101       101       101       101       101	IS: Germanium			0.200		0.200		102	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 0         Analyte       0.205       0.00250       0.200       0       100       90       110         Ansenic       0.202       0.00100       0.200       0       101       90       110         Lead       0.202       0.00100       0.200       0       101       90       110         Sis Indium       0.200       0.200       0.200       97.6       70       200         IS: Scandium(1)       0.200       0.200       97.6       70       200       15: Scandium(2)       200       200         SampType:       LCVL6-130614       Batch ID:       R66954       TestNo:       SW6020A       Units:       mg/L         SampType:       LCVL       Run ID:       ICP-MS2_130614D       Analysis Date: 6/15/2013	iS: Indium			0.200		0.200		104	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 (Antimony *           Analyte         Result         RL         SPK value         Ref Val         %REC         LowLImit HighLimit %RPD RPDLimit (Antimony *           Ansenic         0.205         0.00250         0.200         0         102         90         110           Lead         0.202         0.00100         0.200         0         107         70         200           IS: Bismuth         0.200         0.200         0.200         91.0         70         200           IS: Scandium(1)         0.200         0.200         92.5         70         200         105           Scandium(2)         0.200         0.200         0.200         93.3         70         200           Scandium(2)         0.200         0.200         83.3         70         200         105           Scandium(2)         0.00203<	IS: Scandium(1)			0.200		0.200		103	70	200		
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 ( %RPD RPDLimit ( 40,212         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         0         101         90         110           IS: Germanium         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         93.3         70         200           SampType: LCVL6-130614         Batch ID:         R66954         TestNo:         SW6020A         Units:         mg/L           Analyte         Result         RL         SPK value         Ref Val         %REC         LowLimit HighLimit %RPD RPDLimit Ø           Ana	IS: Scandium(2)	<u> </u>	. <u> </u>	0.200		0.200		92.4	70	200		
Analyte         Result         RL         SPK value         Ref Val         %REC         LowLimit HighLimit         %RPD RPDLimit           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         0,200         101         90         110           IS: Cermanium         0,200         0,200         0,200         92.5         70         200           IS: Scandium(1)         0,200         0,200         97.6         70         200         15           Scandium(2)         0,200         0,200         92.05         70         200         15           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 O           Analyte         Result         RL         SPK value	Sample ID: CCV6-	130614	Batch ID:	R66954		TestNo	: SW	6020A		Units:	mg/L	
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       97.6       70       200         IS: Indium       0.200       0.200       97.6       70       200         IS: Scandium(1)       0.200       0.200       93.3       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<="" td="">         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 G         Antimony       0.00203       0.00250       0.00200       0       102       70       130</mg>	SampType: CCV		Run ID:	ICP-MS2	2_130614D	Analys	is Date: 6/15	5/2013 2:20:	00 AM	Prep Date	:	
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       0.0107       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       93.3       70       200         IS: Scandium(2)       0.200       0.200       83.3       70       200         Samptle ID:       LCVL6-130614       Batch ID:       R66954       TestNo:       SW6020A       Units: <mg td="">       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 O         Antimony       0.00203       0.00250       0.00200       0       102       70       130         Lead       0.000952       0.00100       0.00500       0.95.2       70       1</mg>	Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD RPDLimit Qua	
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: Germanium         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:         LCVL5-130614         Batch ID:         R66954         TestNo:         SW6020A         Units: <mg></mg> rep         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 G           Anstenic         0.00203         0.00250         0.00200         0         102         70         130           Lead         0.000952         0.00100         0         95.2         70         130	Antimony			0.205	0.00250	0.200	0	102	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 G         Antimony       0.00203       0.00250       0.00200       0       102       70       130         Lead       0.00480       0.00500       0.00500       0       95.2       70       130         IS: Bismuth       0.200       0.200       106       70       200       105       70       200         IS: Germanium       0.200       0.200       106       70       200<	Arsenic			0.212	0.00500	0.200	0	106	90	110		
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 O         Antimony       0.00203       0.00250       0.00200       0       102       70       130         Arsenic       0.00480       0.00500       0       95.2       70       130         Lead       0.200       0.200       89.9       70       200         IS: Bismuth       0.200       0.200       89.9       70       200         IS: Germanium       0.200       0.200       89.9       70       200         IS: Germanium       0.	Lead			0.202	0.00100	0.200	0	101	90	110		
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 O         Antimony       0.00203       0.00250       0.00200       0       102       70       130         Arsenic       0.00480       0.00500       0.00500       0       95.2       70       130         Lead       0.200       0.200       0200       106       70       200         IS: Bismuth       0.200       0.200       0.200       89.9       70       200         Qualifiers:       B       Analyte detected in the associated Method Blank       DF       Dilution Factor       Page 15 of         ND       Not Detected at the Method Detection Limit<	IS: Bismuth			0.200		0.200		107	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 O         Antimony       0.00203       0.00250       0.00200       0       102       70       130         Arsenic       0.00480       0.00500       0.00500       0       96.0       70       130         Lead       0.200       0.200       0.200       106       70       200       130         IS: Bismuth       0.200       0.200       0.200       106       70       200       200         Qualifiers:       B       Analyte detected in the associated Method Blank       DF       Dilution Factor       Page 15 of         ND       Not Detected at the Method Detection Limit       R       RPD outside accepted control limits	IS: Germanium			0.200		0.200		92.5	70	200		
IS: Scandium(2)0.2000.20083.370200Sample ID: LCVL6-130614Batch ID:R66954TestNo:SW6020AUnits:mg/LSampType: LCVLRun ID:ICP-MS2_130614DAnalysis Date: 6/15/2013 3:01:00 AMPrep Date:AnalyteResultRLSPK valueRef Val%RECLowLimit HighLimit %RPD RPDLimit OAnalyteResultRLSPK valueRef Val%RECLowLimit HighLimit %RPD RPDLimit OAntimony0.002030.002500.00200010270130Arsenic0.004800.005000.00500096.070130Lead0.0009520.00100095.270130IS: Bismuth0.2000.20010670200IS: Germanium0.2000.20089.970200Qualifiers:BAnalyte detected in the associated Method BlankDFDilution FactorPage 15 ofND< Not Detected at the Method Detection Limit	IS: Indium			0.200		0.200		97.6	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 0         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       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       Page 15 of         ND       Not Detected at the Method Detection Limit       R       RPD outside accepted control limits       Page 15 of	IS: Scandium(1)			0.200		0.200		91.9	70	200		
SampType: LCVLRun ID:ICP-MS2_130614DAnalysis Date: 6/15/2013 3:01:00 AMPrep Date:AnalyteResultRLSPK valueRef Val%RECLowLimit HighLimit %RPD RPDLimit 0Antimony0.002030.002500.00200010270130Arsenic0.004800.005000.00500096.070130Lead0.0009520.001000.00100095.270130IS: Bismuth0.2000.20010670200IS: Germanium0.2000.20089.970200Qualifiers:BAnalyte detected in the associated Method BlankDFDilution FactorPage 15 ofND< Not Detected at the Method Detection Limit	IS: Scandium(2)			0.200		0.200		83.3	70	200		
AnalyteResultRLSPK valueRef Val%RECLowLimit HighLimit%RPD RPDLimit OAntimony0.002030.002500.00200010270130Arsenic0.004800.005000.00500096.070130Lead0.0009520.001000.00100095.270130IS: Bismuth0.2000.20010670200IS: Germanium0.2000.20089.970200Qualifiers:BAnalyte detected in the associated Method Blank JDFDilution Factor MDLPage 15 of RNDNot Detected at the Method Detection LimitRRPD outside accepted control limitsPage 15 of	Sample ID: LCVL6	-130614	Batch ID:	R66954	<u> </u>	TestNo	: SW	6020A		Units:	mg/L	
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         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         Page 15 of           ND         Not Detected at the Method Detection Limit         R         RPD outside accepted control limits         Page 15 of	SampType: LCVL		Run ID:	ICP-MS2	2_130614D	Analysi	is Date: 6/15	5/2013 3:01:	00 AM	Prep Date	:	
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       Page 15 of         ND       Not Detected at the Method Detection Limit       R       RPD outside accepted control limits       Page 15 of	Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD RPDLimit Qua	
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 J         DF         Dilution Factor         Page 15 of           ND         Not Detected at the Method Detection Limit         R         RPD outside accepted control limits         Page 15 of												
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 J     DF     Dilution Factor     200       ND     Not Detected at the Method Detection Limit     MDL     MDL     Method Detection Limit     Page 15 of	-											
IS: Germanium     0.200     0.200     89.9     70     200       Qualifiers:     B     Analyte detected in the associated Method Blank J     DF     Dilution Factor     Page 15 of       ND     Not Detected at the Method Detection Limit     R     RPD outside accepted control limits     Page 15 of			0		0.00100		0					
Qualifiers:       B       Analyte detected in the associated Method Blank       DF       Dilution Factor         j       Analyte detected between MDL and RL       MDL       Method Detection Limit       Page 15 of         ND       Not Detected at the Method Detection Limit       R       RPD outside accepted control limits												
J     Analyte detected between MDL and RL     MDL     Method Detection Limit     Page 15 of       ND     Not Detected at the Method Detection Limit     R     RPD outside accepted control limits	IS: Germanium			0.200		0.200		89.9	70	200		
ND Not Detected at the Method Detection Limit R RPD outside accepted control limits	Qualifiers: B	Analyte det	lected in the a	ssociated M	ethod Blank	DF	Dilution Facto					
ND Not Detected at the Method Detection Limit R RPD outside accepted control limits	i	Analyte de	tected betweer	n MDL and	RL	MDL 1	Method Detec	ction Limit			Page 15 of 18	
RL Reporting Limit S Spike Recovery outside control limits	ND	Not Detect	ed at the Meth	nod Detectio	n Limit	R	RPD outside	accepted cont	rol limits		~	
	RL	Reporting I	Limit			S S	Spike Recove	ry outside co	ntrol limit	S		
J Analyte detected between SDL and RL N Parameter not NELAC certified	ţ	Analyte de	tected between	n SDL and F	RL.	Ň	Parameter not	t NELAC cort	tified			

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CLIENT: Work Order:	D, B, Ste 1306108	phens & A	ssoc, Inc.		AN	ALYT	ICAL (	-		RY REPORT
Project:	Rockwoo	I TCEQ					RunII	): I	CP-MS2	_130614D
Sample ID: LCVL6	-130614	Batch ID:	R66954		TestNo	SW6	020A		Units:	mg/L
SampType: LCVL		Run ID:	ICP-MS2	_130614D	Analysi	is Date: 6/15	/2013 3:01:	00 AM	Prep Date	:
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it 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)	<u> </u>		0.200		0.200		83.3	70	200	
Sample ID: CCV7-	130614	Batch ID:	R66954		TestNo	: SWE	5020A		Units:	mg/L
SampType: CCV		Run ID:	ICP-MS2	_130614D	Analys	is Date: 6/15	/2013 4:28:	00 AM	Prep Date	:
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it 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: LCVL	-130614	Batch ID:	R66954		TestNo	: SW6	5020A		Units:	mg/L
SampType: LCVL		Run ID:	ICP-MS2	2_130614D	Analys	is Date: 6/15	/2013 4:57:	00 AM	Prep Date	:
Analyte			Result	RĻ	SPK value	Ref Val	%REC	LowLim	iit 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		1	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. <b>7</b>	70	200	
IS: Scandium(2)			0.200		0.200		74.4	70	200	

 $\simeq$ 

Qualifiers:	В	Analyte detected in the associated Method Blank	DF	Dilution Factor	
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit	Page 16 of 18
	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: Work Order: Project:	130610	ephens & A 8 ool TCEQ	.ssoc, Inc.		AN	NALYT	ICAL ( RunII	•	MMA CP-MS3		REPORT 11A
Sample ID: DCS- SampType: DCS	56857-1	Batch ID Run ID:		3_130411A	TestNo Analys		6020A 1/2013 1:50;	00 PM	Units: Prep Date	mg/ e: 4/10	L )/2013
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLimi	t HighLimit	%RPD	RPDLimit Qual
Antimony		<u></u>	0.000828	0.00250	0.00100	0	82.8	60	140	0	0

Qualifiers:	в	Analyte detected in the associated Method Blank	DF	Dilution Factor	
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit	Page 17 of 18
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits	0
	RL	Reporting Limit	S	Spike Recovery outside control limits	
	J	Analyte detected between SDL and RL	N	Parameter not NELAC certified	

R66977 ICP-MS3_13/ Result 0.0961 0. 0.200 0.200 0.200 0.200 0.200 0.200 0.200 R66977 ICP-MS3_13	RL         SPK value           0.00250         0.100           0.200         0.200           0.200         0.200           0.200         0.200           0.200         0.200           TestN	vsis Date: 6/17/2013 11 Ref Val %RE 0 96. 100 100 100 100 96.	C LowLin C LowLin 1 90 3 70 3 70 2 70 2 70 2 70	ICP-MS3_ Units: Prep Date: nit HighLimit 110 200 200 200 200 200 200	mg/L
ICP-MS3_13/ Result 0.0961 0. 0.200 0.200 0.200 0.200 0.200 0.200 R66977	B0617A         Analy           RL         SPK value           0.00250         0.100           0.200         0.200           0.200         0.200           0.200         0.200           0.200         0.200           0.200         0.200           0.200         TestM	vsis Date: 6/17/2013 11 Ref Val %RE 0 96. 103 103 103 104 105 105 105 105 105 105 105 105	C LowLin 1 90 3 70 3 70 2 70 2 70 2 70	Prep Date: nit HighLimit 110 200 200 200 200 200	:
Result 0.0961 0. 0.200 0.200 0.200 0.200 0.200 0.200 R66977	RL         SPK value           0.00250         0.100           0.200         0.200           0.200         0.200           0.200         0.200           0.200         0.200           TestN	Ref Val         %RE           0         96.           100         100           100         100           100         100           100         96.           100         96.           100         96.           100         96.	C LowLin 1 90 3 70 3 70 2 70 2 70 2 70	nit HighLimit 110 200 200 200 200	
0.0961 0. 0.200 0.200 0.200 0.200 0.200 0.200 <b>R66977</b>	0.00250 0.100 0.200 0.200 0.200 0.200 0.200 0.200 TestN	0 96. 10: 10: 10: 10: 96.	1         90           3         70           3         70           2         70           2         70	110 200 200 200 200	%RPD RPDLimit Qua
0.200 0.200 0.200 0.200 0.200 0.200 <b>R66977</b>	0.200 0.200 0.200 0.200 0.200 TestN	10: 10: 10: 10: 96. 40: <b>SW6020A</b>	3 70 3 70 2 70 2 70	200 200 200 200	
0.200 0.200 0.200 0.200 0.200 <b>R66977</b>	0.200 0.200 0.200 0.200 TestN	103 103 103 103 96. 40: <b>SW6020A</b>	3 70 2 70 2 70	200 200 200	
0.200 0.200 0.200 <b>R66977</b>	0.200 0.200 0.200 TestN	10: 10: 96. Io: <b>SW6020A</b>	2 70 2 70	200 200	
0.200 0.200 R66977	0.200 0.200 TestN	10: 96. Io: <b>SW6020A</b>	2 70	200	
0.200 R66977	0.200 TestN	96. No: <b>SW6020A</b>			
R66977	TestN	lo: <b>SW6020A</b>	7 70	200	
ICP-MS3_13	30617A Analy	sis Date: 6/17/2013 12		Units:	mg/L
			::09:00 PM	Prep Date:	:
Result	RL SPK value	Ref Val %RE	C LowLin	nit HighLimit	%RPD RPDLimit Qua
.00187 0.	0.00250 0.00200	0 93.	.6 70	130	
0.200	0.200	10	5 70	200	
0.200	0.200	10	4 70	200	
0.200	0.200	10	3 70	200	
0.200	0.200	10	2 70	200	
0.200	0.200	95.	.6 70	200	·
R66977	Test	io: SW602DA		Units:	mg/L
ICP-MS3_13	30617A Analy	/sis Date: 6/17/2013 12	1:33:00 PM	Prep Date:	:
Result	RL SPK value	Ref Val %RE	C LowLin	nit HighLimit	%RPD RPDLimit Qua
0.196 0.	0.00250 0.200	0 97.	.9 90	110	
0.200	0.200	10	0 70	200	
0.200	0.200	96.	.5 70	200	
0.200	0.200	96.	.5 70	200	
0.200	0.200	94.	.4 70	200	
0.200	0.200	89.	.6 70	200	<u></u>
	Test	No: SW6020A		Units:	mg/L
R66977	30617A Analy	vsis Date: 6/17/2013 1:	02:00 PM	Prep Date	:
R66977 ICP-MS3_13	RL SPK value	Ref Val %RE	C LowLin	nit HighLimit	%RPD RPDLimit Qua
		0 10	0 70	130	
ICP-MS3_13 Result	0.00250 0.00200	10	1 70	200	
ICP-MS3_13 Result	0.00250 0.00200 0.200	10	.0 70	200	
ICP-MS3_13 Result .00200 0.			.9 70	200	
ICP-MS3_13 Result .00200 0. 0.200	0.200	99.		200	
ICP-MS3_13 Result .00200 0. 0.200 0.200	0.200 0.200	99. 97.	.4 70		
-			0.200         0.200         10           0.200         0.200         99.           0.200         0.200         97.	0.200         0.200         101         70           0.200         0.200         99.0         70           0.200         0.200         97.9         70           0.200         0.200         95.4         70	0.200         0.200         101         70         200           0.200         0.200         99.0         70         200           0.200         0.200         97.9         70         200

Qualifiers:	В	Analyte detected in the associated Method Blank	DF	Dilution Factor	
	1	Analyte detected between MDL and RL	MDL	Method Detection Limit	Page 18 of 18
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits	0
	RL	Reporting Limit	S	Spike Recovery outside control limits	
	1	Analyte detected between SDL and RL	N	Parameter not NELAC certified	

## DHL Analytical, Inc.

Date: 20-Jun-13 . ..

CLIENT: Work Order: Project:	D. B. Stephens & Assoc, 1306108 Rockwool TCEQ	Inc.	MQL SUMMARY REP
TestNo: SW6020	A MDL	MQL	
Analyte	mg/L	mg/L	
Antimony	0.000800	0.00250	
Arsenic	0.00200	0.00500	
Barlum	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: SW7470	A MDL	MQL	
Analyte	mg/L	mg/L	
Mercury	0.0000800	0.000200	

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## APPENDIX B

## LABORATORY NELAP CERTIFICATE





**NELAP - Recognized Laboratory Fields of Accreditation** 

	Certificate:	T104704211-13-10
DHL Analytical, Inc.	Expiration Date:	4/30/2014
2300 Double Creek Drive	Issue Date:	5/1/2013

lethod EPA 200.8			
Analyte	<b>АВ</b> ТХ	Analyte ID	Method ID
Aluminum		1000	10014605
Antimony	TX	1005	10014605
Arsenic	TX	1010	10014605
Barium	TX	1015	10014605
Beryllium	ТХ	1020	10014605
Cadmium	TX	1030	10014605
Chromium	TX	1040	10014605
Copper	ТΧ	1055	10014605
Lead	ТХ	1075	10014605
Manganese	ТХ	1090	10014605
Nickel	ТХ	1105	10014605
Selenium	ТХ	1140	10014605
Silver	ТХ	1150	10014605
Thallium	ТХ	1165	10014605
Uranium	ТХ	3035	10014605
Zinc	ТХ	1190	10014605
Method EPA 245.1			
Analyte	AB	Analyte ID	Method ID
Mercury	ТХ	1095	10036609
Method EPA 300.0			
Analyte	AB	Analyte ID	Method ID
Fluoride	TX	1730	10053006
Nitrate as N	ТХ	1810	10053006
Nitrite as N	ТХ	1840	10053006
Method EPA 335.2			
Analyte	AB	Analyte ID	Method ID
Total Cyanide	ТХ	1635	10060409
Method EPA 524.2			
Analyte	AB	Analyte ID	Method ID





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DHL Analytical, Inc.	Expiration Date:	4/30/2014
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atrix: Drinking Water			
1,1,1-Trichloroethane	TX	5160	10089006
1,1,2-Trichloroethane	ТΧ	5165	10089006
1,1-Dichloroethylene	TX	4640	10089006
1,2,4-Trichlorobenzene	ТХ	5155	10089006
1,2-Dichlorobenzene	ТΧ	4610	10089006
1,2-Dichloroethane (Ethylene dichloride)	ТΧ	4635	10089006
1,2-Dichloropropane	TX	4655	10089006
1,4-Dichlorobenzene	ТХ	4620	10089006
Benzene	ТХ	4375	10089006
Carbon tetrachloride	ТХ	4455	10089006
Chlorobenzene	ТХ	4475	10089006
cis-1,2-Dichloroethylene	TX	4645	10089006
Ethylbenzene	TX	4765	10089006
m+p-xylene	ТΧ	5240	10089006
Methylene chloride (Dichloromethane)	ТХ	4975	10089006
o-Xylene	ТΧ	5250	10089006
Styrene	TX	5100	10089006
Tetrachloroethylene (Perchloroethylene)	TX	5115	10089006
Toluene	ТΧ	5140	10089006
Total trihalomethanes	ТΧ	5205	10089006
trans-1,2-Dichloroethylene	ТΧ	4700	10089006
Trichloroethene (Trichloroethylene)	ТΧ	5170	10089006
Vinyl chloride	ТΧ	5235	10089006
Xylene (total)	ТХ	5260	10089006
ethod EPA 525.2			
Analyte	AB	Analyte ID	Method ID
Alachlor	ТΧ	7005	10090003
Atrazine	ТΧ	7065	10090003
Benzo(a)pyrene	ТΧ	5580	10090003
bis(2-Ethylhexyl) adipate (Di(2-Ethylhexyl) adipate, DEHA)	тх	6062	10090003





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bis(2-Ethylhexyl) phthalate (Di(2-Ethylhexyl) phthalate, DEHP)	TX	6065	10090003
Chlordane (tech.)	ТΧ	7250	10090003
Endrin	ТΧ	7540	10090003
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	ΤX	7120	10090003
Heptachlor	ΤX	7685	10090003
Heptachlor epoxide	ТΧ	7690	10090003
Hexachlorobenzene	ΤX	6275	10090003
Hexachlorocyclopentadiene	TX	6285	10090003
Methoxychlor	ΤХ	7810	10090003
PCB Aroclor Identification	TX	8872	10090003
Pentachlorophenol	ТΧ	6605	10090003
Simazine	ТΧ	8125	10090003
Toxaphene (Chlorinated camphene)	ΤХ	8250	10090003
thod SM 4500-CN E			
Analyte	AB	Analyte ID	Method ID
Total Cyanide	ТΧ	1635	20021209





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	Certificate:	T104704211-13-10
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Round Rock, TX 78664-3801

Matrix: Non-Potable Water		··	
Method EPA 1010	AB	A polyto ID	Method ID
Analyte Ignitability	АВ TX	Analyte ID 1780	10116606
Method EPA 120.1		1/00	10110000
Analyte	AB	Analyte ID	Method ID
Conductivity	ТХ	1610	10006403
Method EPA 1311		1010	10000105
Analyte	AB	Analyte ID	Method ID
TCLP	ТХ	849	10118806
Method EPA 1312			
Analyte	AB	Analyte ID	Method ID
SPLP	ТΧ	850	10119003
Method EPA 150.1			
Analyte	AB	Analyte ID	Method ID
рН	ТХ	1900	10008409
Method EPA 160.1			
Analyte	AB	Analyte ID	Method ID
Residue-filterable (TDS)	TX	1955	10009208
lethod EPA 160.2			
Analyte	AB	Analyte ID	Method ID
Residue-nonfilterable (TSS)	ТХ	1960	10009606
lethod 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
lethod EPA 200.8			
Analyte	AB	Analyte ID	Method ID
Aluminum	ТХ	1000	10014605
Antimony	ТХ	1005	10014605
Arsenic	ТХ	1010	10014605
Page	4 of 41		





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	Certificate:	T104704211-13-10
DHL Analytical, Inc.	Expiration Date:	4/30/2014
2300 Double Creek Drive Round Rock, TX 78664-3801	Issue Date:	5/1/2013

atrix: Non-Potable Water			
Barium	TX	1015	10014605
Beryllium	ТХ	1020	10014605
Boron	тх	1025	10014605
Cadmium	ТХ	1030	10014605
Calcium	ТХ	1035	10014605
Chromium	ТΧ	1040	10014605
Cobalt	ТΧ	1050	10014605
Copper	ТХ	1055	10014605
iron	ТХ	1070	10014605
Lead	ТΧ	1075	10014605
Magnesium	ТХ	1085	10014605
Manganese	ТΧ	1090	10014605
Molybdenum	ТΧ	1100	10014605
Nickel	ТХ	1105	10014605
Potassium	ТХ	1125	10014605
Selenium	ТХ	1140	10014605
Silver	ТΧ	1150	10014605
Sodium	ТΧ	1155	10014605
Strontium	ТХ	1160	10014605
Thallium	ТХ	1165	10014605
Tin	ТХ	1175	10014605
Titanium	ТΧ	1180	10014605
Vanadium	ТΧ	1185	10014605
Zinc	ТХ	1190	10014605
ethod EPA 245.1			
Analyte	AB	Analyte ID	Method ID
Mercury	ТХ	1095	10036609
ethod EPA 300.0			
Analyte	AB	Analyte ID	Method ID
Bromide	ТХ	1540	10053006
Chloride	ТХ	1575	10053006





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2300 Double Creek Drive	Issue Date:	5/1/2013

Round Rock, TX 78664-3801

Fluoride	ТХ	1720	
		1730	10053006
Nitrate as N	ТΧ	1810	10053006
Nitrate-nitrite	ТΧ	1820	10053006
Nitrite as N	ТΧ	1840	10053006
Sulfate	ТΧ	2000	10053006
Method EPA 305.1			
Analyte	AB	Analyte ID	Method ID
Acidity, as CaCO3	ТΧ	1500	10054203
Method EPA 310.1			
Analyte	AB	Analyte ID	Method ID
Alkalinity as CaCO3	ТΧ	1505	10054805
Method EPA 335.1			
Analyte	AB	Analyte ID	Method ID
Amenable cyanide	ТΧ	1510	10060001
Method EPA 335.2			
Analyte	AB	Analyte ID	Method ID
Total cyanide	ТХ	1645	10060205
Method EPA 365.2			
Analyte	AB	Analyte ID	Method ID
Orthophosphate as P	ТХ	1870	10070403
Phosphorus	ТХ	1910	10070403
Method EPA 370.1			
Analyte	AB	Analyte ID	Method ID
Silica as SiO2	тх	1990	10072001
Method EPA 376.2			
Analyte	AB	Analyte ID	Method ID
Sulfide	ТХ	2005	10074609
Method EPA 415.1			
Analyte	AB	Analyte ID	Method ID
Total Organic Carbon (TOC)	ТХ	2040	10078407





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lethod EPA 602			
Analyte	AB	Analyte ID	Method ID
Benzene	ТХ	4375	10102202
Ethylbenzene	ТХ	4765	10102202
m+p-xylene	ТХ	5240	10102202
Methyl tert-butyl ether (MTBE)	ТХ	5000	10102202
o-Xylene	ТХ	5250	10102202
Toluene	ТХ	5140	10102202
Xylene (total)	ТΧ	5260	10102202
lethod EPA 6020			
Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10156204
Antimony	ТХ	1005	10156204
Arsenic	ТХ	1010	10156204
Barium	ТХ	1015	10156204
Beryllium	ТХ	1020	10156204
Boron	ТХ	1025	10156204
Cadmium	TX	1030	10156204
Calcium	ТХ	1035	10156204
Chromium	ТХ	1040	10156204
Cobalt	ТХ	1050	10156204
Соррег	ТХ	1055	10156204
Iron	ТΧ	1070	10156204
Lead	ТХ	1075	10156204
Lithium	ТХ	1080	10156204
Magnesium	TX	1085	10156204
Manganese	ТХ	1090	10156204
Molybdenum	ТХ	1100	10156204
Nickel	TX	1105	10156204
Potassium	ТΧ	1125	10156204
Selenium	ТΧ	1140	10156204





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DHL Analytical, Inc.	Expiration Date:	4/30/2014
2300 Double Creek Drive Round Rock, TX 78664-3801	Issue Date:	5/1/2013

atrix: Non-Potable Water			
Silver	ТХ	1150	10156204
Sodium	ТХ	1155	10156204
Strontium	ТХ	1160	10156204
Thallium	ТХ	1165	10156204
Tin	TX	1175	10156204
Titanium	ТХ	1180	10156204
Vanadium	ТХ	1185	10156204
Zinc	ТХ	1190	10156204
ethod EPA 608			
Analyte	AB	Analyte ID	Method ID
Aroclor-1016 (PCB-1016)	ТХ	8880	10103603
Aroclor-1221 (PCB-1221)	ТХ	8885	10103603
Aroclor-1232 (PCB-1232)	ТХ	8890	10103603
Aroclor-1242 (PCB-1242)	ТХ	8895	10103603
Aroclor-1248 (PCB-1248)	ТХ	8900	10103603
Aroclor-1254 (PCB-1254)	ТХ	8905	10103603
Aroclor-1260 (PCB-1260)	ТХ	8910	10103603
ethod EPA 624			
Analyte	AB	Analyte ID	Method ID
1,1,1-Trichloroethane	ТХ	5160	10107207
1,1,2,2-Tetrachloroethane	ТХ	5110	10107207
1 1 0 Trichlers others	ТХ	5165	10107207
1,1,2-Trichloroethane		5105	10107207
1,1-Dichloroethane	TX TX	4630	10107207
1,1-Dichloroethane	ТХ	4630	10107207
1,1-Dichloroethane 1,1-Dichloroethylene	тх тх	4630 4640	10107207 10107207
1,1-Dichloroethane 1,1-Dichloroethylene 1,2-Dibromoethane (EDB, Ethylene dibromide)	тх тх тх	4630 4640 4585	10107207 10107207 10107207
1,1-Dichloroethane 1,1-Dichloroethylene 1,2-Dibromoethane (EDB, Ethylene dibromide) 1,2-Dichlorobenzene	ТХ ТХ ТХ ТХ	4630 4640 4585 4610	10107207 10107207 10107207 10107207
1,1-Dichloroethane 1,1-Dichloroethylene 1,2-Dibromoethane (EDB, Ethylene dibromide) 1,2-Dichlorobenzene 1,2-Dichloroethane (Ethylene dichloride)	ТХ ТХ ТХ ТХ ТХ	4630 4640 4585 4610 4635	10107207 10107207 10107207 10107207 10107207
1,1-Dichloroethane 1,1-Dichloroethylene 1,2-Dibromoethane (EDB, Ethylene dibromide) 1,2-Dichlorobenzene 1,2-Dichloroethane (Ethylene dichloride) 1,2-Dichloropropane	ТХ ТХ ТХ ТХ ТХ ТХ	4630 4640 4585 4610 4635 4655	10107207 10107207 10107207 10107207 10107207 10107207



# Texas Commission on Environmental Quality



**NELAP - Recognized Laboratory Fields of Accreditation** 

	Certificate:	T104704211-13-10
DHL Analytical, Inc.	Expiration Date:	4/30/2014
2300 Double Creek Drive Round Rock, TX 78664-3801	Issue Date:	5/1/2013

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





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Matrix: Non-Potable Water			
Xylene (total)	ТХ	5260	10107207
Method EPA 625			
Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	ТХ	6715	10107401
1,2,4-Trichlorobenzene	ТХ	5155	10107401
1,2-Dichlorobenzene	тх	4610	10107401
1,2-Diphenylhydrazine	ТХ	6220	10107401
1,3-Dichlorobenzene	ТХ	4615	10107401
1,4-Dichlorobenzene	ТХ	4620	10107401
2,3,4,6-Tetrachlorophenol	ТХ	6735	10107401
2,4,5-Trichlorophenol	ТХ	6835	10107401
2,4,6-Trichlorophenol	ТХ	6840	10107401
2,4-Dichlorophenol	ТХ	6000	10107401
2,4-Dimethylphenol	ТХ	6130	10107401
2,4-Dinitrophenol	ТХ	6175	10107401
2,4-Dinitrotoluene (2,4-DNT)	ТХ	6185	10107401
2,6-Dinitrotoluene (2,6-DNT)	тх	6190	10107401
2-Chloronaphthalene	ТХ	5795	10107401
2-Chlorophenol	ТХ	5800	10107401
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	ТХ	6360	10107401
2-Methylphenol (o-Cresol)	тх	6400	10107401
2-Nitrophenol	ТХ	6490	10107401
3,3'-Dichlorobenzidine	тх	5945	10107401
4,4'-DDD	тх	7355	10107401
4,4'-DDE	ТХ	7360	10107401
4,4'-DDT	тх	7365	10107401
4-Bromophenyl phenyl ether (BDE-3)	ТХ	5660	10107401
4-Chloro-3-methylphenol	тх	5700	10107401
4-Chlorophenyl phenylether	тх	5825	10107401
4-Methylphenol (p-Cresol)	ΤХ	6410	10107401





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ix: Non-Potable Water			
4-Nitrophenol	TX	6500	10107401
Acenaphthene	TX	5500	10107401
Acenaphthylene	TX	5505	10107401
Aldrin	ТХ	7025	10107401
alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10107401
alpha-Chlordane	TX	7240	10107401
Anthracene	TX	5555	10107401
Aroclor-1016 (PCB-1016)	ТΧ	8880	10107401
Aroclor-1221 (PCB-1221)	TX	8885	10107401
Aroclor-1232 (PCB-1232)	ТХ	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	ТΧ	5590	10107401
Benzo(k)fluoranthene	TX	5600	10107401
beta-BHC (beta-Hexachlorocyclohexane)	ТХ	7115	10107401
bis(2-Chloroethoxy)methane	TX	5760	10107401
bis(2-Chloroethyl) ether	ТХ	5765	10107401
bis(2-Chloroisopropyl) ether	ТΧ	5780	10107401
bis(2-Ethylhexyl) phthalate (DEHP)	ТХ	6255	10107401
Butyl benzyl phthalate	ТΧ	5670	10107401
Chrysene	ТХ	5855	10107401
delta-BHC (delta-Hexachlorocyclohexane)	ТΧ	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	тх	6135	10107401
Di-n-butyl phthalate	ΤХ	5925	10107401
Di-n-octyl phthalate	ТХ	6200	10107401
Endosulfan I	ТХ	7510	10107401
Endosulfan II	ТХ	7515	10107401
Endosulfan sulfate	ТΧ	7520	10107401
Endrin	ТΧ	7540	10107401
Endrin aldehyde	тх	7530	10107401
Fluoranthene	TX	6265	10107401
Fluorene	TX	6270	10107401
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	ТХ	7120	10107401
gamma-Chlordane	TX	7245	10107401
Heptachlor	ТХ	7685	10107401
Heptachlor epoxide	TX	7690	10107401
Hexachlorobenzene	тх	6275	10107401
Hexachlorobutadiene	тх	4835	10107401
Hexachlorocyclopentadiene	ТХ	6285	10107401
Hexachloroethane	ТХ	4840	10107401
Indeno(1,2,3-cd) pyrene	ТХ	6315	10107401
Isophorone	ТХ	6320	10107401
Naphthalene	тх	5005	10107401
Nitrobenzene	тх	5015	10107401
n-Nitrosodiethylamine	ТХ	6525	10107401
n-Nitrosodimethylamine	тх	6530	10107401
n-Nitrosodi-n-butylamine	ТХ	5025	10107401
n-Nitrosodi-n-propylamine	ТХ	6545	10107401
n-Nitrosodiphenylamine	ТХ	6535	10107401
Pentachlorobenzene	ТХ	6590	10107401
Pentachlorophenol	ТХ	6605	10107401





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atrix: Non-Potable Water			
Phenanthrene	ТХ	6615	10107401
Phenol	ТХ	6625	10107401
Pyrene	TX	6665	10107401
Pyridine	ТХ	5095	10107401
Toxaphene (Chlorinated camphene)	ТХ	8250	10107401
lethod EPA 7196			
Analyte	AB	Analyte ID	Method ID
Chromium (VI)	ТХ	1045	10162400
lethod EPA 7470			
Analyte	AB	Analyte ID	Method ID
Mercury	ТХ	1095	10165807
lethod EPA 8011			
Analyte	AB	Analyte ID	Method ID
1,2-Dibromoethane (EDB, Ethylene dibromide)	ТХ	4585	10173009
lethod EPA 8015			
Analyte	AB	Analyte ID	Method ID
Diesel range organics (DRO)	TX	9369	10173203
Ethylene glycol	TX	4785	10173203
Gasoline range organics (GRO)	ТХ	9408	10173203
Propylene Glycol	ТХ	6657	10173203
Nethod 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)	ТХ	5000	10174808
o-Xylene	ТХ	5250	10174808
Toluene	TX	5140	10174808
Xylene (total)	ТХ	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)	ТХ	8885	10179007
Aroclor-1232 (PCB-1232)	ТХ	8890	10179007
Aroclor-1242 (PCB-1242)	ТХ	8895	10179007
Aroclor-1248 (PCB-1248)	ТХ	8900	10179007
Aroclor-1254 (PCB-1254)	ТХ	8905	10179007
Aroclor-1260 (PCB-1260)	ТХ	8910	10179007
PCBs (total)	ТХ	8870	10179007
Method EPA 8260			
Analyte	AB	Analyte ID	Method ID
1,1,1,2-Tetrachloroethane	TX	5105	10184802
1,1,1-Trichloroethane	ΤX	5160	10184802
1,1,2,2-Tetrachloroethane	TX	5110	10184802
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ТХ	5195	10184802
1,1,2-Trichloroethane	ТХ	5165	10184802
1,1-Dichloroethane	ТХ	4630	10184802
1,1-Dichloroethylene	ТХ	4640	10184802
1,1-Dichloropropene	ТХ	4670	10184802
1,2,3-Trichlorobenzene	ТХ	5150	10184802
1,2,3-Trichloropropane	ТХ	5180	10184802
1,2,4-Trichlorobenzene	ТХ	5155	10184802
1,2,4-Trimethylbenzene	ТХ	5210	10184802
1,2-Dibromo-3-chloropropane (DBCP)	ТХ	4570	10184802
1,2-Dibromoethane (EDB, Ethylene dibromide)	ТХ	4585	10184802
1,2-Dichlorobenzene	ТХ	4610	10184802
1,2-Dichloroethane (Ethylene dichloride)	ТХ	4635	10184802
1,2-Dichloropropane	ТХ	4655	10184802
1,3,5-Trimethylbenzene	ТХ	5215	10184802
1,3-Dichlorobenzene	ТХ	4615	10184802
1,3-Dichloropropane	ΤХ	4660	10184802





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trix: Non-Potable Water			
1,4-Dichlorobenzene	TX	4620	10184802
1-Chlorohexane	ТХ	4510	10184802
2,2-Dichloropropane	ТХ	4665	10184802
2-Butanone (Methyl ethyl ketone, MEK)	ТХ	4410	10184802
2-Chloroethyl vinyl ether	ТХ	4500	10184802
2-Chlorotoluene	ТХ	4535	10184802
2-Hexanone (MBK)	ТХ	4860	10184802
4-Chlorotoluene	ТХ	4540	10184802
4-IsopropyItoluene (p-Cymene)	ТХ	<b>49</b> 15	10184802
4-Methyl-2-pentanone (MIBK)	тх	4995	10184802
Acetone (2-Propanone)	ТХ	4315	10184802
Acrolein (Propenal)	ТХ	4325	10184802
Acrylonitrile	ТХ	4340	10184802
Benzene	ТХ	4375	10184802
Bromobenzene	TX	4385	10184802
Bromochloromethane	ТΧ	4390	10184802
Bromodichloromethane	ТХ	4395	10184802
Bromoform	ТХ	4400	10184802
Carbon disulfide	ТХ	4450	10184802
Carbon tetrachloride	ТХ	4455	10184802
Chlorobenzene	ТХ	4475	10184802
Chlorodibromomethane	ТХ	4575	10184802
Chloroethane (Ethyl chloride)	ТХ	4485	10184802
Chloroform	ТХ	4505	10184802
cis-1,2-Dichloroethylene	ТХ	4645	10184802
cis-1,3-Dichloropropene	TX	4680	10184802
Dibromomethane (Methylene bromide)	ТХ	4595	10184802
Dichlorodifluoromethane (Freon-12)	ТХ	4625	10184802
Ethylbenzene	ТХ	4765	10184802
Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)	ТΧ	4770	10184802





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rix: Non-Potable Water			
Hexachlorobutadiene	ТХ	4835	10184802
lodomethane (Methyl iodide)	ТХ	4870	10184802
Isopropyl ether	ТΧ	4905	10184802
Isopropylbenzene (Cumene)	ТХ	4900	10184802
m+p-xylene	TX	5240	10184802
Methyl acetate	ТΧ	4940	10184802
Methyl bromide (Bromomethane)	TX	4950	10184802
Methyl chloride (Chloromethane)	ТΧ	4960	10184802
Methyl tert-butyl ether (MTBE)	TX	5000	10184802
Methylcyclohexane	ТХ	4965	10184802
Methylene chloride (Dichloromethane)	ТΧ	4975	10184802
Naphthalene	ТХ	5005	10184802
n-Butylbenzene	TX	4435	10184802
n-Propylbenzene	ТΧ	5090	10184802
o-Xylene	TX	5250	10184802
sec-Butylbenzene	ТΧ	4440	10184802
Styrene	ТΧ	5100	10184802
T-amylmethylether (TAME)	ТХ	4370	10184802
tert-Butyl alcohol	TX	4420	10184802
tert-Butylbenzene	TX	4445	10184802
Tetrachloroethylene (Perchloroethylene)	TX	5115	10184802
Toluene	TX	5140	10184802
Total trihalomethanes	ТХ	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)	ТХ	5170	10184802
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10184802
Vinyl acetate	ТХ	5225	10184802
Vinyl chloride	ТΧ	5235	10184802





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Matrix: Non-Potable Water			
Xylene (total)	ТХ	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	ТХ	4610	10185805
1,2-Diphenylhydrazine	ТХ	6220	10185805
1,3-Dichlorobenzene	TX	4615	10185805
1,4-Dichlorobenzene	ТХ	4620	10185805
1-Naphthylamine	ТХ	6425	10185805
2,3,4,6-Tetrachlorophenol	ТХ	6735	10185805
2,4,5-Trichlorophenol	ТХ	6835	10185805
2,4,6-Trichlorophenol	ТΧ	6840	10185805
2,4-Dichlorophenol	TX	6000	10185805
2,4-Dimethylphenol	ТХ	6130	10185805
2,4-Dinitrophenol	ТΧ	6175	10185805
2,4-Dinitrotoluene (2,4-DNT)	ТХ	6185	10185805
2,6-Dichlorophenol	ТХ	6005	10185805
2,6-Dinitrotoluene (2,6-DNT)	ТΧ	6190	10185805
2-Chloronaphthalene	ТХ	5795	10185805
2-Chlorophenol	ТΧ	5800	10185805
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10185805
2-Methylnaphthalene	ТХ	6385	10185805
2-Methylphenol (o-Cresol)	ТХ	6400	10185805
2-Naphthylamine	ТХ	6430	10185805
2-Nitroaniline	тх	6460	10185805
2-Nitrophenol	ТХ	6490	10185805
2-Picoline (2-Methylpyridine)	тх	5050	10185805
3,3'-Dichlorobenzidine	ТХ	5945	10185805
3-Methylcholanthrene	тх	6355	10185805





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





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





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





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2300 Double Creek Drive Round Rock, TX 78664-3801	Issue Date:	- 5/1/2013

Heptachlor         TX         7685         10185601           Heptachlor epoxide         TX         7690         10185805           Hexachloroberzene         TX         6275         10185805           Hexachlorobutadiene         TX         6285         10185805           Hexachlorocyclopentadiene         TX         6285         10185805           Hexachlorocyclopentadiene         TX         4840         10185805           Hexachlorophene         TX         6290         10185805           Indeno(1,2,3-cd) pyrene         TX         6315         10185805           Isophorone         TX         6320         10185805           Leptophos         TX         7775         10186002           Malathion         TX         7810         10185805           Methyl methanesulfonate         TX         6375         10185805           Methyl parathion (Parathion, methyl)         TX         7850         10185805           Mevinphos         TX         7805         10185805           Naled         TX         7805         10185805           Naled         TX         5015         10185805           n-Nitrosodientylamine         TX         6530         1018	atrix: Non-Potable Water		- <u> </u>	
Hexachlorobenzene         TX         6275         10185805           Hexachlorobutadiene         TX         4835         10185805           Hexachlorocyclopentadiene         TX         4835         10185805           Hexachlorophene         TX         6285         10185805           Indeno(1,2,3-cd) pyrene         TX         6290         10185805           Indeno(1,2,3-cd) pyrene         TX         6315         10185805           Isophorone         TX         6320         10185805           Leptophos         TX         7755         10186002           Malathion         TX         7770         10186002           Methoxychlor         TX         6375         10185805           Methoychlor         TX         7810         10185601           Methyl parathion (Parathion, methyl)         TX         7825         1018502           Monocrotophos         TX         7800         10185203           Naled         TX         5005         10185805           n-Nitrosodiethylamine         TX         5005         10185805           n-Nitrosodi-n-butylamine         TX         5025         10185805           n-Nitrosodi-n-propylamine         TX         6530	Heptachlor	TX	7685	10185601
Hexachlorobutadiene         TX         4835         10185805           Hexachlorocyclopentadiene         TX         6285         10185805           Hexachlorocyclopentadiene         TX         6285         10185805           Hexachlorochane         TX         6280         10185805           Hexachlorophene         TX         6290         10185805           Indeno(1,2,3-cd) pyrene         TX         6315         10185805           Isophorone         TX         6320         10185805           Leptophos         TX         7725         10186002           Malathion         TX         7770         10186002           Methoxychlor         TX         7810         10185601           Methyl parathion (Parathion, methyl)         TX         7825         10185203           Mevinphos         TX         7850         1018505           Monocrotophos         TX         7850         1018505           Nitrobenzene         TX         5005         10185805           n-Nitrosodiethylamine         TX         5025         10185805           n-Nitrosodiphenylamine         TX         5025         10185805           n-Nitrosodiphenylamine         TX         6535	Heptachlor epoxide	тх	7690	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         775         10186002           Malathion         TX         7770         10186002           Methoxychlor         TX         7810         10185203           Methyl parathion (Parathion, methyl)         TX         7825         10185203           Monocrotophos         TX         7800         10185203           Naled         TX         7800         10185203           Naphthalene         TX         5005         10185805           n-Nitrosodiethylamine         TX         6525         10185805           n-Nitrosodiethylamine         TX         6535         10185805           n-Nitrosodiphenylamine         TX         6535         10185805           n-Nitrosodiphenylamine         TX         6545         1018580	Hexachlorobenzene	ТХ	6275	10185805
Hexachlorophanalmine         TX         4840         10185805           Hexachlorophene         TX         6290         10185805           Indeno(1,2,3-cd) pyrene         TX         6215         10185805           Isophorone         TX         6315         10185805           Leptophos         TX         7725         10185805           Leptophos         TX         7770         10186002           Malathion         TX         7770         10186002           Methoxychlor         TX         7810         10185805           Methyl parathion (Parathion, methyl)         TX         7825         10185002           Monocrotophos         TX         7850         10185002           Monocrotophos         TX         7850         10185002           Naled         TX         7850         10185002           Naled         TX         7850         10185002           Naled         TX         7805         1018505           N-Nitrosodienthylamine         TX         5005         10185805           n-Nitrosodi-n-butylamine         TX         6530         10185805           n-Nitrosodiphenylamine         TX         6545         10185805	Hexachlorobutadiene	TX	4835	10185805
Hexachlorophene         TX         6290         10185805           Indeno(1,2,3-cd) pyrene         TX         6315         10185805           Isodrin         TX         7725         10185805           Isophorone         TX         6320         10185805           Leptophos         TX         7755         10185002           Malathion         TX         7770         10186002           Methoxychlor         TX         7810         10185601           Methyl methanesulfonate         TX         6375         1018505           Methyl parathion (Parathion, methyl)         TX         7850         1018502           Monocrotophos         TX         7850         1018503           Naled         TX         7850         1018503           Naled         TX         7905         1018505           Nitrobenzene         TX         5005         10185805           n-Nitrosodiethylamine         TX         6530         10185805           n-Nitrosodi-n-butylamine         TX         6535         10185805           n-Nitrosodi-n-popylamine         TX         6545         10185805           n-Nitrosodiphenylamine         TX         6530         10185805	Hexachlorocyclopentadiene	ТХ	6285	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           Methoy methanesulfonate         TX         6375         1018503           Methyl parathion (Parathion, methyl)         TX         7850         1018503           Morocrotophos         TX         7850         1018503           Naled         TX         7905         1018503           Naled         TX         7905         1018503           Nitrobenzene         TX         5015         1018505           n-Nitrosodiethylamine         TX         5025         1018505           n-Nitrosodi-n-butylamine         TX         6530         1018505           n-Nitrosodi-n-propylamine         TX         6545         1018505           n-Nitrosodi-n-propylamine         TX         6545         1018505           n-Nitrosodiphenylamine         TX         6560         10185805 <td>Hexachloroethane</td> <td>TX</td> <td>4840</td> <td>10185805</td>	Hexachloroethane	TX	4840	10185805
Isodrin         TX         7725         10185407           Isophorone         TX         6320         10185805           Leptophos         TX         7755         10186002           Malathion         TX         7770         10186002           Methoxychlor         TX         7770         10186002           Methoxychlor         TX         7770         10185001           Methyl methanesulfonate         TX         6375         10185003           Methyl parathion (Parathion, methyl)         TX         7825         10185003           Monocrotophos         TX         7880         10185003           Naled         TX         7905         10185003           Naled         TX         7905         10185003           Naled         TX         5005         1018503           Nitrobenzene         TX         5015         1018505           n-Nitrosodiethylamine         TX         6525         1018505           n-Nitrosodi-n-butylamine         TX         6533         1018505           n-Nitrosodiphenylamine         TX         6545         1018505           n-Nitrosodiphenylamine         TX         6560         1018505           <	Hexachlorophene	ТХ	6290	10185805
Isophorone         TX         6320         10185805           Leptophos         TX         7755         10186002           Malathion         TX         7770         10186002           Methoxychlor         TX         7770         10186002           Methoxychlor         TX         77810         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           n-Nitrosodiethylamine         TX         5015         10185805           n-Nitrosodi-n-butylamine         TX         6530         10185805           n-Nitrosodi-n-propylamine         TX         6545         10185805           n-Nitrosodiphenylamine         TX         6560         10185805           n-Nitrosopiperidine         TX         6560         10185805           n-Nitrosopiperidine         TX         6560         101	Indeno(1,2,3-cd) pyrene	ТХ	6315	10185805
Leptophos         TX         7755         10186002           Malathion         TX         7770         10186002           Methoxychlor         TX         7770         10185001           Methoxychlor         TX         7810         10185601           Methyl methanesulfonate         TX         6375         10185005           Methyl parathion (Parathion, methyl)         TX         7825         10185002           Movinphos         TX         7850         10186002           Monocrotophos         TX         7850         10186002           Monocrotophos         TX         7850         1018503           Naled         TX         7905         10185203           Naled         TX         7905         10185805           n-Nitrosodiethylamine         TX         5005         10185805           n-Nitrosodi-n-butylamine         TX         6530         10185805           n-Nitrosodi-n-propylamine         TX         6535         10185805           n-Nitrosodiphenylamine         TX         6535         10185805           n-Nitrosodiphenylamine         TX         6535         10185805           n-Nitrosodiphenylamine         TX         6535         10	Isodrin	ТХ	7725	10185407
Malathion         TX         7770         10186002           Methoxychlor         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           Naled         TX         7905         10185805           Nitrobenzene         TX         5005         10185805           n-Nitrosodiethylamine         TX         6525         10185805           n-Nitrosodi-n-butylamine         TX         6530         10185805           n-Nitrosodi-n-propylamine         TX         6535         10185805           n-Nitrosodiphenylamine         TX         6535         10185805           n-Nitrosodiphenylamine         TX         6560         10185805           n-Nitrosopiperidine         TX         6560         10185805           Parathion, ethyl         TX         7955 <t< td=""><td>Isophorone</td><td>ТХ</td><td>6320</td><td>10185805</td></t<>	Isophorone	ТХ	6320	10185805
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-Nitrosodinethylamine         TX         6525         10185805           n-Nitrosodinethylamine         TX         6530         10185805           n-Nitrosodinethylamine         TX         6535         10185805           n-Nitrosodiphenylamine         TX         6545         10185805           n-Nitrosodiphenylamine         TX         6560         10185805           n-Nitrosodiphenylamine         TX         6560         10185805           n-Nitrosopiperidine         TX         6560         10185805           Parathion, ethyl         TX         6560         10185805           Pentachlorobenzene         TX <td< td=""><td>Leptophos</td><td>ТХ</td><td>7755</td><td>10186002</td></td<>	Leptophos	ТХ	7755	10186002
Methyl methanesulfonate         TX         6375         10185805           Methyl parathion (Parathion, methyl)         TX         7825         10185203           Mevinphos         TX         7850         10186002           Monocrotophos         TX         7880         10185203           Naled         TX         7800         10185203           Naled         TX         7905         10185203           Naphthalene         TX         5005         10185805           Nitrobenzene         TX         5015         10185805           n-Nitrosodiethylamine         TX         6525         10185805           n-Nitrosodinethylamine         TX         6530         10185805           n-Nitrosodi-n-butylamine         TX         6535         10185805           n-Nitrosodi-n-propylamine         TX         6535         10185805           n-Nitrosodiphenylamine         TX         6535         10185805           n-Nitrosodiphenylamine         TX         6560         10185805           n-Nitrosopiperidine         TX         6560         10185805           Parathion, ethyl         TX         7955         10185805           Pentachlorobenzene         TX         65	Malathion	ТХ	7770	10186002
Methyl parathion (Parathion, methyl)       TX       7825       10185203         Mevinphos       TX       7850       10186002         Monocrotophos       TX       7880       10185203         Naled       TX       7905       10185203         Naphthalene       TX       7905       10185203         Nitrobenzene       TX       5005       10185805         n-Nitrosodiethylamine       TX       5015       10185805         n-Nitrosodinethylamine       TX       6525       10185805         n-Nitrosodi-n-butylamine       TX       5025       10185805         n-Nitrosodi-n-propylamine       TX       5025       10185805         n-Nitrosodiphenylamine       TX       6545       10185805         n-Nitrosodiphenylamine       TX       6535       10185805         n-Nitrosodiphenylamine       TX       6545       10185805         n-Nitrosopiperidine       TX       6560       10185805         Parathion, ethyl       TX       7955       10185805         Pentachlorobenzene       TX       6590       10185805         Pentachlorobenzene (PCNB)       TX       6600       10185805	Methoxychlor	ТХ	7810	10185601
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-Nitrosodinethylamine         TX         6530         10185805           n-Nitrosodinethylamine         TX         5025         10185805           n-Nitrosodinethylamine         TX         6530         10185805           n-Nitrosodinethylamine         TX         5025         10185805           n-Nitrosodin-n-butylamine         TX         6535         10185805           n-Nitrosodiphenylamine         TX         6545         10185805           n-Nitrosodiphenylamine         TX         6553         10185805           n-Nitrosopiperidine         TX         6560         10185805           Parathion, ethyl         TX         7955         10185805           Pentachlorobenzene         TX         6590         10185805           Pentachloronitrobenzene (PCNB)         TX	Methyl methanesulfonate	ТХ	6375	10185805
Monocrotophos         TX         7880         10185203           Naled         TX         7905         10185203           Naphthalene         TX         5005         10185805           Nitrobenzene         TX         5015         10185805           n-Nitrosodiethylamine         TX         6525         10185805           n-Nitrosodinethylamine         TX         6525         10185805           n-Nitrosodinethylamine         TX         6530         10185805           n-Nitrosodi-n-butylamine         TX         5025         10185805           n-Nitrosodi-n-propylamine         TX         6545         10185805           n-Nitrosodiphenylamine         TX         6535         10185805           n-Nitrosodiphenylamine         TX         6545         10185805           n-Nitrosopiperidine         TX         6560         10185805           Parathion, ethyl         TX         7955         10185805           Pentachlorobenzene         TX         6590         10185805           Pentachloronitrobenzene (PCNB)         TX         6600         10185805	Methyl parathion (Parathion, methyl)	ТХ	7825	10185203
Naled         TX         7905         10185203           Naphthalene         TX         5005         10185203           Nitrobenzene         TX         5015         10185805           n-Nitrosodiethylamine         TX         6525         10185805           n-Nitrosodimethylamine         TX         6530         10185805           n-Nitrosodi-n-butylamine         TX         6530         10185805           n-Nitrosodi-n-propylamine         TX         6545         10185805           n-Nitrosodiphenylamine         TX         6535         10185805           n-Nitrosodiphenylamine         TX         6545         10185805           n-Nitrosodiphenylamine         TX         6535         10185805           Pentachlorobenzene         TX         6560         10185805           Pentachlorobenzene         TX         6590         10185805           Pentachlorobenzene (PCNB)         TX         6600         10185805	Mevinphos	ТХ	7850	10186002
Naphthalene         TX         5005         10185805           Nitrobenzene         TX         5015         10185805           n-Nitrosodiethylamine         TX         6525         10185805           n-Nitrosodimethylamine         TX         6530         10185805           n-Nitrosodinethylamine         TX         6530         10185805           n-Nitrosodi-n-butylamine         TX         5025         10185805           n-Nitrosodi-n-propylamine         TX         5025         10185805           n-Nitrosodiphenylamine         TX         6535         10185805           n-Nitrosodiphenylamine         TX         6545         10185805           n-Nitrosopiperidine         TX         6560         10185805           Parathion, ethyl         TX         7955         10185805           Pentachlorobenzene         TX         6590         10185805           Pentachlorobenzene         TX         6590         10185805	Monocrotophos	ТХ	7880	10185203
Nitrobenzene         TX         5015         10185805           n-Nitrosodiethylamine         TX         6525         10185805           n-Nitrosodimethylamine         TX         6530         10185805           n-Nitrosodinethylamine         TX         6530         10185805           n-Nitrosodi-n-butylamine         TX         6530         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           Pentachlorobenzene (PCNB)         TX         6600         10185805	Naled	ТΧ	7905	10185203
n-Nitrosodiethylamine       TX       6525       10185805         n-Nitrosodimethylamine       TX       6530       10185805         n-Nitrosodi-n-butylamine       TX       5025       10185805         n-Nitrosodi-n-propylamine       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	Naphthalene	ТХ	5005	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-Nitrosodiphenylamine       TX       6535       10185805         n-Nitrosopiperidine       TX       6560       10185805         Parathion, ethyl       TX       7955       10185805         Pentachlorobenzene       TX       6590       10185805         Pentachloronitrobenzene (PCNB)       TX       6600       10185805	Nitrobenzene	ТХ	5015	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	n-Nitrosodiethylamine	ТХ	6525	10185805
n-Nitrosodi-n-propylamine       TX       6545       10185805         n-Nitrosodiphenylamine       TX       6535       10185805         n-Nitrosopiperidine       TX       6560       10185805         Parathion, ethyl       TX       6560       10185805         Pentachlorobenzene       TX       6590       10185805         Pentachloronitrobenzene (PCNB)       TX       6600       10185805	n-Nitrosodimethylamine	ТХ	6530	10185805
n-Nitrosodiphenylamine       TX       6535       10185805         n-Nitrosopiperidine       TX       6560       10185805         Parathion, ethyl       TX       7955       10185805         Pentachlorobenzene       TX       6590       10185805         Pentachlorobenzene (PCNB)       TX       6600       10185805	n-Nitrosodì-n-butylamine	ТХ	5025	10185805
n-Nitrosopiperidine       TX       6560       10185805         Parathion, ethyl       TX       7955       10185805         Pentachlorobenzene       TX       6590       10185805         Pentachloronitrobenzene (PCNB)       TX       6600       10185805	n-Nitrosodì-n-propylamine	ТХ	6545	10185805
Parathion, ethyl         TX         7955         10185805           Pentachlorobenzene         TX         6590         10185805           Pentachloronitrobenzene (PCNB)         TX         6600         10185805	n-Nitrosodiphenylamine	ТХ	6535	10185805
PentachlorobenzeneTX659010185805Pentachloronitrobenzene (PCNB)TX660010185805	n-Nitrosopìperidine	TX	6560	10185805
Pentachloronitrobenzene (PCNB)TX660010185805	Parathion, ethyl	ТХ	7955	10185805
	Pentachlorobenzene	ТХ	6590	10185805
	Pentachloronitrobenzene (PCNB)	ТХ	6600	10185805
Pentachlorophenol TX 6605 10185805	Pentachlorophenol	ТХ	6605	10185805





**NELAP - Recognized Laboratory Fields of Accreditation** 

	Certificate:	T104704211-13-10
DHL Analytical, Inc.	Expiration Date:	4/30/2014
2300 Double Creek Drive	Issue Date:	5/1/2013

Round Rock, TX 78664-3801

Phenacetin	TX	6610	10185805
Phenanthrene	тх	6615	10185805
Phenol	тх	6625	10185805
Phorate	тх	7985	10186002
Phosmet (Imidan)	ТХ	8000	10186002
Phosphamidon	ТХ	8005	10185805
Pronamide (Kerb)	ТХ	6650	10185805
Pyrene	ТХ	6665	10185805
Pyridine	ТХ	5095	10185805
Quinoline	ТХ	6670	10185805
Sulfotepp	ТХ	8155	10186002
Terbufos	ТХ	8185	10185805
Tetrachlorvinphos (Stirophos, Gardona)	ТХ	8197	10186002
Tetraethyl pyrophosphate (TEPP)	TX	8210	10185407
Toxaphene (Chlorinated camphene)	ТХ	8250	10185203
ethod EPA 8321			
Analyte	AB	Analyte ID	Method ID
2,4,5-T	TX	8655	10188804
2,4-D	ΤX	8545	10188804
2,4-DB	ТХ	8560	10188804
Dalapon	ТХ	8555	10188804
Dicamba	ТХ	8595	10188804
Dicampa		8605	10188804
Dichloroprop (Dichlorprop, Weedone)	TX	0005	
	тх тх	8620	10188804
Dichloroprop (Dichlorprop, Weedone)			10188804 10188804
Dichloroprop (Dichlorprop, Weedone) Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	ТХ	8620	
Dichloroprop (Dichlorprop, Weedone) Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP) MCPA	тх тх	8620 7775	10188804
Dichloroprop (Dichlorprop, Weedone) Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP) MCPA MCPP	ТХ ТХ ТХ	8620 7775 7780	10188804 10188804
Dichloroprop (Dichlorprop, Weedone) Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP) MCPA MCPP Silvex (2,4,5-TP)	тх тх тх тх <b>АВ</b>	8620 7775 7780	10188804 10188804 10188804
Dichloroprop (Dichlorprop, Weedone) Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP) MCPA MCPP Silvex (2,4,5-TP) ethod EPA 8330	TX TX TX TX	8620 7775 7780 8650	10188804 10188804





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Matrix: Non-Potable Water			
2,4,6-Trinitrotoluene (2,4,6-TNT)	тх	9651	10189807
2,4-Dinitrotoluene (2,4-DNT)	ТХ	6185	10189807
2,6-Dinitrotoluene (2,6-DNT)	тх	6190	10189807
2-Amino-4,6-dinitrotoluene (2-am-dnt)	ТХ	9303	10189807
2-Nitrotoluene	ТХ	9507	10189807
3-Nitrotoluene	ТХ	9510	10189807
4-Amino-2,6-dinitrotoluene (4-am-dnt)	ТХ	9306	10189807
4-Nitrotoluene	ТХ	9513	10189807
Methyl-2,4,6-trinitrophenylnitramine (tetryl)	ТХ	6415	10189807
Nitrobenzene	ТΧ	5015	10189807
Nitroglycerin	ТХ	6485	10189807
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	ТХ	9522	10189807
Pentaerythritoltetranitrate (PETN)	ТХ	9558	10189807
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	ТΧ	9432	10189807
Method EPA 9014			
Analyte	AB	Analyte ID	Method ID
Amenable cyanide	ТХ	1510	10193803
Total Cyanide	ТХ	1635	10193803
Method EPA 9040			
Analyte	AB	Analyte ID	Method ID
pH	ТХ	1900	10197203
Method EPA 9056			
Analyte	<b>АВ</b> ТХ	Analyte ID	Method ID
Bromide	ТХ	1540	10199209
Chloride		1575	10199209
Fluoride	ТХ	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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Analyte ID	Method ID
2040	10200201
Analyte ID	Method ID
1803	10201000
Analyte ID	Method ID
3755	10212905
4747	10212905
4752	10212905
4926	10212905
Analyte ID	Method ID
1565	60003001
Analyte ID	Method ID
2055	20002408
Analyte ID	Method ID
1500	20002806
Analyte ID	Method ID
1505	20003003
Analyte ID	Method ID
1755	20003401
Analyte ID	Method ID
1610	20003809
Analyte ID	Method ID
	Analyte 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)	ТΧ	1960	20004802
Method SM 3500-Cr D			
Analyte	AB	Analyte ID	Method ID
Chromium	тх	1040	20009001
Method SM 4500-CN E			
Analyte	AB	Analyte ID	Method ID
Total Cyanide	ТХ	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
рН	ТХ	1900	20016404
Method SM 4500-NH3 F			
Analyte	AB	Analyte ID	Method ID
Ammonia as N	ТХ	1515	20023001
Method SM 4500-P E			
Analyte	AB	Analyte ID	Method ID
Orthophosphate as P	TX	1870	20025803
Phosphorus	ТΧ	1910	20025803
Method SM 4500-S2  D			
Analyte	AB	Analyte ID	Method ID
Sulfide	ТХ	2005	20125400
Method SM 4500-SiO2 D			
Analyte	AB	Analyte ID	Method ID
Silica as SiO2	ТХ	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)	ТХ	2040	20028200
Method TCEQ 1005			
Analyte	AB	Analyte ID	Method ID
Total Petroleum Hydrocarbons (TPH)	ТΧ	2050	90019208





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Method ASTM D2216			
Analyte	AB	Analyte ID	Method ID
Moisture	ТХ	10337	ASTM D2216-05
Method EPA 1010			
Analyte Ignitability	<b>АВ</b> ТХ	Analyte iD 1780	Method ID
		1780	10116606
Method EPA 1311	40	Amelute ID	Mathed (D
Analyte TCLP	<b>АВ</b> ТХ	Analyte ID 849	Method ID 10118806
		049	10118800
Method EPA 1312 Analyte	AB	Analyte ID	Method ID
SPLP	TX	850	10119003
Method EPA 200.8			10119000
Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10014605
Antimony	ТХ	1005	10014605
Arsenic	ТХ	1010	10014605
Barium	ТХ	1015	10014605
Beryllium	ТХ	1020	10014605
Cadmium	ТХ	1030	10014605
Calcium	ТХ	1035	10014605
Chromium	тх	1040	10014605
Cobalt	ТХ	1050	10014605
Copper	ТХ	1055	10014605
Iron	ТХ	1070	10014605
Lead	тх	1075	10014605
Magnesium	ТХ	1085	10014605
Manganese	ТХ	1090	10014605
Molybdenum	ТХ	1100	10014605
Nickel	ТХ	1105	10014605
Potassium	тх	1125	10014605





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Natrix: Solid & Chemical Materials			
Selenium	ТХ	1140	10014605
Silver	ТХ	1150	10014605
Sodium	ТХ	1155	10014605
Strontium	ТХ	1160	10014605
Thallium	ТХ	1165	10014605
Tin	ТХ	1175	10014605
Titanium	ТХ	1180	10014605
Vanadium	ТХ	1185	10014605
Zinc	ТХ	1190	10014605
Method EPA 300.0			
Analyte	AB	Analyte ID	Method iD
Bromide	ТХ	1540	10053006
Chloride	ТХ	1575	10053006
Fluoride	ТХ	1730	10053006
Nitrate as N	ТХ	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	ТХ	1505	10054805
Method EPA 350.3			
Analyte	AB	Analyte ID	Method ID
Ammonia as N	ΤX	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	ΤX	1000	10156204





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#### Matrix: Solid & Chemical Materials

Antimony	TX	1005	10156204
Arsenic	ТХ	1010	10156204
Barium	тх	1015	10156204
Beryllium	ТХ	1020	10156204
Boron	ТХ	1025	10156204
Cadmium	ТХ	1030	10156204
Calcium	тх	1035	10156204
Chromium	тх	1040	10156204
Cobalt	тх	1050	10156204
Copper	ТХ	1055	10156204
Iron	ТХ	1070	10156204
Lead	тх	1075	10156204
Lithium	ТХ	1080	10156204
Magnesium	ТХ	1085	10156204
Manganese	тх	1090	10156204
Molybdenum	ТХ	1100	10156204
Nickel	ТХ	1105	10156204
Potassium	ТХ	1125	10156204
Selenium	ТХ	1140	10156204
Silver	ТХ	1150	10156204
Sodium	ТХ	1155	10156204
Strontium	тх	1160	10156204
Thallium	TX	1165	10156204
Tin	ТХ	1175	10156204
Titanium	ТХ	1180	10156204
Vanadium	TX	1185	10156204
Zinc	ТХ	1190	10156204
thod EPA 7196			
Analyte	AB	Analyte ID	Method ID
Chromium (VI)	ТХ	1045	10162400





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Matrix: Solid & Chemical Materials			
Method EPA 7470			
Analyte	AB	Analyte ID	Method IE
Mercury	ТХ	1095	10165807
Method EPA 7471			
Analyte Mercury	<b>АВ</b> ТХ	Analyte ID	Method IE
•		1095	10166208
Method EPA 8015			
Analyte Diesel range organics (DRO)	<b>АВ</b> ТХ	Analyte ID	Method IE
	ТХ	9369 4785	10173203
Ethylene glycol	TX	4785	10173203
Gasoline range organics (GRO)		9408	10173203
Propylene Glycol	TX	6657	10173203
Method EPA 8021			
Analyte	AB	Analyte ID	Method IE
Benzene	TX	4375	10174808
Ethylbenzene	TX	4765	10174808
m+p-xylene	TX	5240	10174808
Methyl tert-butyl ether (MTBE)	TΧ	5000	10174808
o-Xylene	ТХ	5250	10174808
Toluene	ТХ	5140	10174808
Xylene (total)	ТХ	5260	10174808
Method EPA 8082			
Analyte	AB	Analyte ID	Method IC
Aroclor-1016 (PCB-1016)	ТХ	8880	10179007
Aroclor-1221 (PCB-1221)	TX	8885	10179007
Aroclor-1232 (PCB-1232)	TX	8890	10179007
Aroclor-1242 (PCB-1242)	ТХ	8895	10179007
Aroclor-1248 (PCB-1248)	ТΧ	8900	10179007
Aroclor-1254 (PCB-1254)	тх	8905	10179007
Aroclor-1260 (PCB-1260)	ТХ	8910	10179007
PCBs (total)	ТХ	8870	10179007





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#### Matrix: Solid & Chemical Materials Method EPA 8260 Analyte ID Method ID Analyte AB ТΧ 1,1,1,2-Tetrachloroethane 5105 10184802 1,1,1-Trichloroethane ТΧ 5160 10184802 1,1,2,2-Tetrachloroethane ТΧ 5110 10184802 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) ТΧ 5195 10184802 ТΧ 1,1,2-Trichloroethane 5165 10184802 ТΧ 1,1-Dichloroethane 4630 10184802 ΤХ 1,1-Dichloroethylene 4640 10184802 1,1-Dichloropropene ТΧ 4670 10184802 ТΧ 1,2,3-Trichlorobenzene 5150 10184802 ТΧ 1,2,3-Trichloropropane 10184802 5180 1,2,4-Trichlorobenzene ТΧ 5155 10184802 1,2,4-Trimethylbenzene ТΧ 5210 10184802 1,2-Dibromo-3-chloropropane (DBCP) ТΧ 4570 10184802 ΤХ 1,2-Dibromoethane (EDB, Ethylene dibromide) 4585 10184802 TΧ 1,2-Dichlorobenzene 4610 10184802 ТΧ 1,2-Dichloroethane (Ethylene dichloride) 4635 10184802 ТΧ 1,2-Dichloropropane 4655 10184802 1,3,5-Trimethylbenzene ТΧ 5215 10184802 1,3-Dichlorobenzene ТΧ 4615 10184802 ТΧ 1,3-Dichloropropane 4660 10184802 ТΧ 1.4-Dichlorobenzene 4620 10184802 ТΧ 1-Chlorohexane 4510 10184802 ТΧ 2,2-Dichloropropane 4665 10184802 TΧ 2-Butanone (Methyl ethyl ketone, MEK) 4410 10184802 ТΧ 2-Chloroethyl vinyl ether 4500 10184802 2-Chlorotoluene TΧ 4535 10184802 2-Hexanone (MBK) ТΧ 4860 10184802 4-Chlorotoluene ТΧ 4540 10184802





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





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Natrix: Solid & Chemical Materials		_	
Methylcyclohexane	TX	4965	10184802
Methylene chloride (Dichloromethane)	TX	4975	10184802
Naphthalene	TX	5005	10184802
n-Butylbenzene	TX	4435	10184802
n-Propylbenzene	ТХ	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	ТХ	5140	10184802
trans-1,2-Dichloroethylene	TX	4700	10184802
trans-1,3-Dichloropropylene	ТΧ	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	ТХ	5225	10184802
Vinyl chloride	TX	5235	10184802
Xylene (total)	ТХ	5260	10184802
lethod EPA 8270			
Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	ТХ	6715	10185805
1,2,4-Trichlorobenzene	TX	5155	10185805
1,2-Dichlorobenzene	ТΧ	4610	10185805
1,2-Diphenylhydrazine	ТХ	6220	10185805
1,3-Dichlorobenzene	ТΧ	4615	10185805
1,4-Dichlorobenzene	ТХ	4620	10185805
1-Naphthylamine	ТΧ	6425	10185805
2,3,4,6-Tetrachlorophenol	ТХ	6735	10185805
2,4,5-Trichlorophenol	ТХ	6835	10185805





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





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4-Nitrophenol	TX	6500	10185805
7,12-Dimethylbenz(a) anthracene	ТΧ	6115	10185805
a-a-Dimethylphenethylamine	ТХ	6125	10185805
Acenaphthene	TX	5500	10185805
Acenaphthylene	TX	5505	10185805
Acetophenone	ТХ	5510	10185805
Aldrin	TX	7025	10186002
alpha-BHC (alpha-Hexachlorocyclohexane)	тх	7110	10185407
alpha-Chlordane	ТХ	7240	10185805
Aniline	ТХ	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	ТΧ	7065	10185805
Azinphos-methyl (Guthion)	ТХ	7075	10185203
Benzidine	ТХ	5595	10185805
Benzo(a)anthracene	ТХ	5575	10185805
Benzo(a)pyrene	TX	5580	10185805
Benzo(b)fluoranthene	ТХ	5585	10185805
Benzo(e)pyrene	ТХ	5605	10185805
Benzo(g,h,i)perylene	ТХ	5590	10185805
Benzo(k)fluoranthene	ТХ	5600	10185805
Benzoic acid	ТХ	5610	10185805
Benzyl alcohol	ТХ	5630	10185805
beta-BHC (beta-Hexachlorocyclohexane)	ТХ	7115	10185601





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





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



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





#### **NELAP - Recognized Laboratory Fields of Accreditation**

	Certificate:	T104704211-13-10
DHL Analytical, Inc.	Expiration Date:	4/30/2014
2300 Double Creek Drive Round Rock, TX, 78664-3801	Issue Date:	5/1/2013

latrix: Solid & Chemical Materials			1010 5000
Tetrachlorvinphos (Stirophos, Gardona)	TX	8197	10186002
Tetraethyl pyrophosphate (TEPP)	TX	8210	10185407
Toxaphene (Chlorinated camphene)	ТХ	8250	10185203
Nethod EPA 8321			
Analyte	AB	Analyte ID	Method ID
2,4,5-T	TX	8655	10188804
2,4-D	TX	8545	10188804
2,4-DB	ТХ	8560	10188804
Dalapon	ΤX	8555	10188804
Dicamba	ТХ	8595	10188804
Dichloroprop (Dichlorprop, Weedone)	ТХ	8605	10188804
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10188804
MCPA	ТΧ	7775	10188804
MCPP	ΤX	7780	10188804
Silvex (2,4,5-TP)	ΤX	8650	10188804
lethod 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)	ТХ	6160	10189807
2,4,6-Trinitrotoluene (2,4,6-TNT)	ТХ	9651	10189807
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10189807
2,6-Dinitrotoluene (2,6-DNT)	ΤX	6190	10189807
2-Amino-4,6-dinitrotoluene (2-am-dnt)	ТΧ	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	ΤX	9513	10189807
Methyl-2,4,6-trinitrophenylnitramine (tetryl)	TX	6415	10189807
Nitrobenzene	ТΧ	5015	10189807
Nitroglycerin	ТХ	6485	10189807





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Matrix: Solid & Chemical Materials			
Pentaerythritoltetranitrate (PETN)	ТХ	9558	10189807
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	ТХ	9432	10189807
Method EPA 9014			
Analyte	AB	Analyte ID	Method ID
Amenable cyanide	ТХ	1510	10193803
Total Cyanide	ТХ	1635	10193803
Method EPA 9040			
Analyte	AB	Analyte ID	Method ID
Corrosivity	ТХ	1615	10197203
pH	ТХ	1900	10197203
Method EPA 9045			
Analyte	AB	Analyte ID	Method ID
pH	ТХ	1900	10198400
Method EPA 9056			
Analyte	AB	Analyte ID	Method ID
Bromide	ТХ	1540	10199209
Chloride	TX	1575	10199209
Fluoride	TX	1730	10199209
Nitrate as N	ТХ	1810	10199209
Nitrate-nitrite	ТХ	1820	10199209
Nitrite as N	ТХ	1840	10199209
Sulfate	ТХ	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	ТХ	1610	SSA/ASA Pt 3:14





**NELAP - Recognized Laboratory Fields of Accreditation** 

Certificate: Expiration Date: Issue Date:

T104704211-13-10 4/30/2014 5/1/2013

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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 MaterialsMethod TCEQ 1005AnalyteABAnalyte IDMethod IDTotal Petroleum Hydrocarbons (TPH)TX205090019208

Appendix 3

**Field Notes** 

(80) D 12-26-12	ROCKWOOL IND BELTON, TY (D)
Bockwood IND BELTON, TK	ESIJ. AIRS. 11 - BELTON, TY (8)
ESI3. AIRS. 11 - B. SHIRLEY	
0945 - Arrive on Site. Wrather Conditions:	Well IS DTM (RD TD (Ft) DAVE Frank - Frank) Conf.:
31° F, Partly Sanny, Winds Nova e	MW-30-90 27.69 28.4 12-28-12/08/6
15-20 mph.	MW-33-90 30,29 330 12-26-12/1645
0950 - Set ap SAMPOING EQUIPMENT. 1039 - CALIBRATE GARIAR	MW-34290 29.05 32.5 12-24-12 1561
$\frac{1031}{241072442} = \frac{1031}{782182}$	Day - 2 (mar-34-90) 12-24-12/1521
	Dap-1 (mw-21) 12-27-12/4145
	ER-1 /2-20-12 / 7077
$\frac{\tau_{\text{URB}}}{D_0} = \frac{3}{4} \frac{N \tau_{\text{U}}}{2}$	ER-2 12-27-12/1710
TEMP- 13.22 °C	Gauging DATA (NORTH Property):
CAUDING DATA: (CENTRAL PROP.)	WOULD DTWIFE) TOCER DATE /TIME SAMPLE ALGADON
WELL ID DYWGAL) TD(FE) SAMPLE W. TIME	MW-15 DRY 19.1 (?) MA
MW-7 30,34 35.1 12-27.12/0851	MW-20 32.15 39.2 12-27-12/1332
MW-9 28.94 35.1 12-20.12 /1602	MW22 10.08 155 12-27-12/1510
MW-10 29.84 85.0 12-26-12/1414	Man 22 22 11.57 14.56 12 27-12 1427
MW- 1 32.98 35.65 12-26-12 / 1334	MW-35-90 1672 173 12-28-12 0905
MW-14 32.45 41.0 12-26-12/1204	Mun-26+90 Carin Frequel Colleged N/Ft
MW-14 DRY 31.5 MA	MNN 27-50 19.08 26.3 12-27-12 1625
1MW-17 26.25 31.5 12-26-1 1243	Mur-38-90 10,19 12.23 12-27-12 1553
MW-19 32.16 34.3 12-27-12/1128	
MW-24-90 33.53 40.63 12-27-12/121	Drawing Older 14, 12, 11, 10, 34, 90, 91, 33.90, 7, 39-90
MN-27.90 34.38 35.4 12-28-12 /08091	26-90, 27 90, 30, 16, 19, 24, 90, 20, 45, 22, 21,
MW-28.90 30,46 31.94 12-20-12/0755	35-90, 37-90, 35-90, 36-90, 36-95 12-20.12
MW-29.90 27.90 24.92 12-27-12/0939	
R1 Stin 2-26-12-	BiStm 12-26-12

R7 P 12-26-12	12-26-12	<b>F</b> 3
E Bockwool IND - BELTON, TX	ROCKWOOL IND. BECTON TX ESIB-AIRS 11 - B.SHIRCEU	
ESIB. AIRS. 11 - B. SHIRLEY	ESIB-AIRS 11 - B.SHIRLEY	
1130-MOB-to-MW-14	Thota Log:	
(MW-14) DTW= 32.40 Ft	D MW-14 - CEENE	
Set pump @ 40 ft.	D MM-14 Purse - UKB NE	
- FLOW RATE = 250 ml/min	@ MW-17- flurge - 4kg SW'	
TIME PH CONDISIM) TURN (ARD) DO(GK) TEMP (M) ORP (MV)	@ MW-11- Rurge - CKC South	
/ DTWGH)	\$ MW-10 - Punge + C/S 5047 H	
1147 560 0.280 5.0 0.68 19.76 53/ 32.70	@ nmv - 39-90 - Kuve C46 n/ w	
1150 5.73 0.228 F74 1.75 17.39 50/32.70	$(\mathcal{D}MW-g-Ukg-AW)$	
1153 5.81 0.172 336 2.73 16.85 43/32.80	@ Mul-33-90 - Pauge - UKE SU	
456 J.87 U.171 265 3.14 16.22 JA / 32.82	A 12-27-12	
1159 5.88 0.167 (32 3.33 16.22 35/ 32.78	DBS D MW-7 - 1-4-92 - UKg War	
1204 - Collect SAMPLE (250ml - HWO3) Metals 6070A	D mw 29-90 - Ruge - Ckg Ma	
	· @ MARTER- PURGE- CKS South	
1203 - Decon Pump J. plug & in want took	(2) MW-24-90-Hurge-LKGWE	
prosent - concrete and is home la pre	(B) MW-24-90- Sump after Runging mel	
1220 - Mob to [MW-17] DTW= 26.25 Ft.	1 MW-24-90- Dirt / Debris on Pump.	
DTP= 31 Flow Rate= 220 mc/min	DMW-20- Aurole - UK9 NW	-
Time Att COND TURB DO TEMP ORP DIN	10 mar 22 - Purge - Ung South	
1234 6.48 0.783 31.7 0.09 16.10 -29 26.68	(DMW-21- Pumpe-LKS South	
1237 6.45 C.32 38.3 G. 16.84 -24 24,92	DMW-38-90 - Pump Decon CIG North	
1240 643 6.61 18.8 0 17.20 -23 27.19	@ MW-37-90- Auge- Ukig East.	
1243 - Collect SAMPLE - 250 ml - Metals - 41103	20 MW-28 90-CKG NW	
PV = 1 gallon	2 MW-27-90 - UKG ANN 51- 2012 2 MW-30-90 - UKG Eng WEST	
1247 - Decon Pump. J-Ohn of lock in place	22 MW-30-90-649 Engl arost	
1305 - MOD to MW-11 well condition - 2000	23 MW- 35-90 - CKg 50474	
	ED Onsite waste Drum	

B Rickinsol FUD - REITON TO	12-26-12
	KUCKWOOL IND BELTON, TX
ESI3. AIRS. 11 - B SHIRLEY	ES13. AURS. 11 - B. SHIRLEY
-(MW-11) $DTW = 32.98$ ft.	1437-1000 to MW-34-90 DTW= 29:05F2.
DTP: B2. 5 A FLOW RATE = 200 ML/MIN	DTP = 32 FE FCOW RATE: 260 me/min
Time plt Cond TURIS DO TEMPORP DIW	TIME OF POUD TUKB DO TEMP ORP DIW
1317 (1.89 0122 107 1.81 15.32 65 ×	449 6,03 0.107 402 0.92 12.28 19 29.11
1320 7.07 0.31 38.3 0.83 15.23 83 *	1452 6.13 0.106 268 1.84 17,40 11 29,14
1323 707 0, 97 27.2 0,19 14,98 84 ×	1455 616 8.100 173 2.89 17.43 10 29.10
1326 7.06 0.126 38,1 0.62 14.79 -80 ×	1458 618 0101 125 382 1743 11 29.10
1329, 7.00 8.122 748 1.17 14.06 -76 ×	1501- Collect SHMPLE- 250 MI HAVOS- METALS 6020 H
1334 - Collect SAMPLE - 250 ml - METALS 6020.9 - HW03	1521- Collect Dar - 2 - 250 mil ting - METALS 4020A
Pargs Volume = 1/2 gallon	1507 DEEAN PUMP Bolland & Stickup en road
1339 - Decon Pump, were pod, stick up +	nondition well had to book J-plug & lack present.
loollards in good andition. J. Plug & lock	Rivge Voltame - 1 gallon
preserve. X- WL above top of puny.	1534-Mob to (Mu-9) Dra = 28.94 FE.
1348 - Mos to AW-10.	DTP= 34 9 Ft FLOW RATE = 290 mc/min
(MW-10) DTW= 29.84 Ft.	Time put Down Trunch pp TEMP prov
DTP: 34.5 FL - FLOW RATE = 200 m/min	1548 6,60 0,09 192 0,16 39 41 28 94
Time pet cond Turks Do TEMP our DTW	$\frac{1548}{1551} (0.00 0.09 192 0.16 19.39 - 41 28.94 1551 (0.00 0.100 801 0.27 17.81 - 48 28.94 1551 (0.00 0.00 801 0.27 17.81 - 48 28.94 1551 (0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.$
1403 669 0.090 57.4 0.25 16.84 -47 30.61	1554 6.61 0.101 43 8 0.70 17.38 -41 28.94
1406 675 0.995 33.7 0-0 16.85 -61 30.80	1557 4.52 0.090 30.4 1.77 16.89 40 28.94
1409 4.78 7.94 17.3 6.0 6.55 -43 31.28	1600 10 \$4 0.090 23.9 2.45 16 27 -29 28 94
1912 676 4.14 16,4 0.0 16.55 -60 31.61	1000 - Collect SAMPLE - 250 ml 14nvo, - Metals 6020A
1414 - Collect SAMPLE. 250 ml - HNUZ - Motals 6020 A	Purge Volume = 1.25. Bollards + 5ticling
1416 - Paon Rump. Well Rad, Hollards + Strakup	in sood and in some med pad is long / paring
tagood Andiron J- Dug + Lock present.	J-Plang & lock present.
Parge volume = 19 allon	1006- Decon Auno-
Ful S ling 12-20-12	

anan an ar ta cuar

12-26-12 12-27-12 Rockwool IND - BELTON, TK Kockwool Ind - Belton Tx ES13. AIRS. 11 - PB. SHIRLEY SIJ.AIRS. 11 - B. SHIRLEY 0730 - Arrive on sife. weather Mob to [MW-33-90] DEW= 30.29 Ft 0.46 29° F. Rt. Sunny minds STP = 30.29 Ft FLOW RATE = \$ 290 ML/min Set up sampling pauisment Calibrate Hariba water Quality TIME AH COND TURIS DO TEMP ORA DIW 602 0.090 347 3.19 14,89 39 30.36 1631 0807-Mater. 1634 601 0.090 239 3.43 16.31 32 30.34 14 = (4 solution) = 3.99 TUR13 = 0.0 1637 6.05 0.090 177 3.40 15.95 15 30.35 Bovo = 0. 463 5/m 1640 6.20 0.090 128 3.63 16,25 28 30.32 10 - 6.70 9/2 Temp= 10 94 °C 0RP = 122 16.43 6.21 0.090 100 8.41 16.31 27 30.33 1645 - Collect SAMPLE - 250 ml - KW03 - Metals 6020A 0821 Mob to mu 7 DTP= 34 546. Flow Rote = 280 Purge Volume = 1 gallon. Bollards + Sticum Pt COMP TUKA DO TEMP 5.44 0.115 31.10 1.91 18.93 are in good Condition. Well had is lowse reasing ORP Tine J-phat lock project. 1650 - Decon Pump. 0837 125 5.71 0.117 34.7 3.06 0840 18.74 112 3010 1707 - COLLECT ER-1 SAMPLE. 5.86 0843 0.117 29.6 2.03 18.39 101 30.0 250 ml - Marals 6020 A 0846 5.98 01122 274 1,73 17.97 90 31.12 1715 - Put up sampling equipment. 08 49 6 02 0.16 38.6 142 17.78 80 31.14 . 0851 - Collect Small - 250 ml 4200 - Metals 60200 Fillout Coc's. 1. D gallons rad in Eniver Purce Volume = 1800 - Depart Site Bochros & preu pad in J. Plug + lock present 0855 - Decon Aump godb.) 0910 + Mole to mar 29-90 Zu / Stry 12-27-12 

12-27-12 12-27-12 39) Rockwool Ind. - Belton, TX Rockwool Ind - Belton, TX ESIB AIRS. 11 - B. SHIRLEY 4513.141R5.11 - 13. 5HIR CEY (MW-29-90) DTW= 27.90 FZ. MW-27-90 DTW= 34.38 Ft DTP = 29.50 Ft. FLOW RATE = 250 m Umin Water Column = 1.02 Ft. Inraderer water comments use bladder pano A band men. Pange volume = 1. a goa Time pH COND. TARP DO TEMPORP DIN 0930 7.40 0.090 252 0.43 14.48 -92 × 0933 7.42 0.479 222 0.22 16.79 -111 X Collect sample after meet bas redbers ve 0936 7.42 2.32 89.7 0.0 16.58 -107 × 25 95 - Collect 50 mi - 10003 - Metals 6020 A 0939 - Collect SAMPLE - 250M1 HANDS - METALS GOZOA 1038 - mob 10 mw 30 401 PTWE FE. B=2. 12 mar-27-90 - wen parte, stoke up a ladance Purge Volume = 1/2 collon 0944 - Decon Pump. Well pad, bollards + are the good Rendition J-plug + lock in place. Stick up in good condition. J-plug + 103R-MOB to (MIN-30-90) DTW = 27.69 A lock present. 1007 - Mob to MW-28-90 DTW= 30,46 Ft. water column = 0.71 Ft. tosupre and to use panp / fand boul e DTP= BS Worter Column = 1.48 Ft. inenticipat Collect sample of after well he water column tor pump. Adout boild well Funge volume = bailed day @ 125 allong recharged went pord, ballards & spick up Pa.95 - Collect 50 mple - 250 mi - Hoves - Metals 4020A ave in good condition. J. Plug + lock present purse to huma = | | | | pallon Let well recharge, Collected Sample g. 55 - allert sample - 250 m - 4003 - metals 6020 later in the day. well sad, bollards, stick up in good condition. J-plug 1950 - Mob to MW-16 - DTW= DRY TD = 31.45 ft + lock present. 1102- Mob to MW-1018 - Mob to MW-22-90 2-27-12

(go) 12 12-27-12	Rul 11 1 Bally The (9)
Kockwool Ind Belton, TR	OCKWOOL FAR - JEITON X
ES13. AIRS. 11 - B. SHURLEY	ES13. AIRS. 11 + 13. SHIRLEY
MW-19 DTW = 32.16 Ft.	1254 - Mob to MW-20 DTW= 32.15 Ft.
DTP = 34 Ft. FLOW Rate = 225 ml/min	DTP = 37.0 FE. FLOW RATE = 250 mc/min
Time pH COND DO TEMP ORP DOW	TIME AH COWIN TURB DO TEMP ORT DIW
-1118-6.53 6.121 67. B5 12-22-12	1317 632 0,138 205 0.79 20.20 21 32.50
Time At COND TURD DO TEMP ORA DIW	1320 6.63 0.441 165 0.36 18.48 -6 32.58
1119 6.56 0.121 63.7 3.20 16.32 7 +	1323 6.69 0.350 111 0.0 18.21 -11 32.61
1122 6.60 0.121 \$7.0 3.30 17.06 3 X	1326 6.72 6.900 83.2 5.0 18.18 -13 32.65
1125 6162 0.122 53.7 3.20 16.95 -1 ×	1329 4.73 1.050 613 8.0 17.55 -13 32.68
128 - Billert Sample - 250 mi - Hrubz - Metalls-6020A	1332 - Collect Sample - 250 ml - Hovor - Metals 6020 0
Purge Volume - 12 gallon well paid,	Punge Volume = 1.0 gallons. Well pod,
- bollards & stick up are in good andition	Vollards + 51.16 up are in good lund its on.
Jiplug & Lock present	J-plug & lock present.
133 - Decon Parys. X - Water level was below the	335 - Decon Pund
1144 - Mob to MW-24-90 MW= 33.53 F	1350 - Mob to [MW-15] porw = DRY(P)Ft.
DTP= 37.5 Ft. FLOW RATE = 250 mc min	Appears to be some sort of postruction
TIME PH COND TURB DO TEMP ORP DTW	at the 19.10 ft depth. Possilly
1200 6.29 01131 228 2.45 16.10 26 33.76	free roots inside the Pasing.
1203 6.40 0.129 206 3.03 6.76 9 33.80	well pad, pollards and
1206 6.43 0.129 497 3.17 17.06 16 33.85	Stick up are in good
1209 4.44 0,126 470 3.23 17.17 13 33.89	Condition. J- plus and
all - Collect SAMPLE - 250 ml- HAVUS-Metals-GODOA	Cock are present.
Parge Volume = 3/4 gollon. Bovards + Stick	
- up are in sold condition. oreal pad is proke.	NOS-MOB to MW-20 22
J- Alug & Cock and Present 1215 - Deron Anno	
J- plug & Cock and Present 1215- Decon Prop. Caping downhole is nort likely proke see protos 1349.	12-27-12
prous (2-27-12	

	AZ D 12-27-12	Rockwool Ind Belton, TX
	Rockwool Ind Belton, TX	ROCKWOOL Ind Belton TX FB13 AIRS. 11 - B. SHIRLEY
	ES13-AIRS. 11 - B. SHIRLEY	MW - 38 - 90 $DTW = 10.19$ Fe.
	MW + 22 $DTW = 11.57$ Ft.	DTP = 12.00 Ft. FLOW RATE = 300 mc/min
	DTP: 14.00 A. Flow Rate = 300 mL/min Time AH COND TURB DO TEMP ORP DIM	Time of COND TURB DO TEMP ORP DITY
	Time pH COND TURB DO TEMP ORP DIW 14/10 6.32 0.120 /58 8.48 21.23 4/6 ×	1542 6.40 0.154 84.6 224 16.93 32 X
	1419 6.54 0.130 101 3.07 18.13 26 ×	1545 6.54 0.159 78.6 1.77 17.61 .22
caracteristics of the second	1422 6,56 0,141 35.7 1,29 17,93 19 X	1548 6.62 0.181 73.8 0.76 17.57 15 ×
	1425 6.60 1.143 33.0 6.93 17.57 13 +	1551 6.68 0.175 69.8 0597 17.33 7 K
	1427 - Collect SAMPLE - 250 ml - Anoz - Metals-6020A	1553 - Collect Sample - 250 ml- Hrivos - Metals - 60 2014
	Purge Jolynne = 3/4 gollons. Well pad +	Purpe Volume = 3/4 gallon aver par
	stick up (well protected) in good Conditions	, + 5Fidking one in good condition. No hollards
	No bollards prosent. J plug & lock present.	J-Ding + lock are present - poor
	1431 - Devon Prinne. Known Collected	1556 - Decon Phane + - 4x / 100 low Mining
	1457 - Mob to 11/11/2/1 DTW= 10.08 tt.	1607 T 1100 to VNW - 31-901 DIW - 19.00 FF
	DTP = 15.0 Ft. Flow Rate = 300 mi/min	DTP = 23.0 ft. Flow Route - 300 mc/min
	Time pet COND TURB DO TENNO ORP DIN	Time et cord TURB DO TEMP ORP Draw
	1500 6.55 0.090 53.7 171 17.47 29 (051	1617 1.61 0.142 38.2 0.010 18.03 -114 19.40 1620 7.64 0.15 294 0.0 17.78 -120 19.54
	1503 6.56 0.090 36.3 1.73 #1768 22 10.83	1620 764 0.15 294 0.0 17.78 -120 19.54 1423 7.29 0.577 23.2 0.0 17.59 -124 19.52
	1506 6.57 0.090 21.4 1.29 17.83 21 11.04	
13	1510 - Pollect SAMPLE- 250 ml-FH10, - Metals 6020A	Purge Volume = 3/24 gallon - Well pad +
	1945 - Billed DUP-1-250 ml-64100, - Metals 6020A 1945 - Billed DUP-1-250 ml-64100, - Metals 6020A 1515 - Decon Rump. Well pad + Stickup 	Frith up are in good condition. J place &
	1515 Decon Pump. Well pad + Stickup	Uscia are present. No Dollardis.
	PU= present. J-Pung & Lock present.	1625 - Decon Runne
	1531 - Mob to MW-38-90	1640 - Mola to Mar. 35-90
		B/SCin 12-27.12
	Janoch icrite	1 and 10-ania

12-27-12 12-28-12 Kockwool Ind. - Belton, TX ESI3 AIRS. 11- B. SHIRLEY Kockwool Ind. - Belton, TX SIJ. Alas. II - B. 541ALEY Mul-35-90 DTW=16.72 Ft. 0730 - Arrive on me/mt. PS Collect Samples From al Flow Rate = DOND TURIS DO TEMP ORP DIM m = 0.58 Ft Insa Birrent 5755 - Mar 28-90 - 250 mi - 59.03 - Metal s 6000 Water Colum to use prings. Hand bein well dry. Collect sample On 12-28-12, Bailed dry Q. 0809 - Mur- 27-90 - 250m1 1400 - Makals 60200 0810 - MW-30-90-250m1-4403- MP666020# C. 25 gallons.
(655 - Mob to Central Property
1710 - Collect ER-2 - 250ml-Haby- Metals- 602005 0905 - MW-35-90-250 m1-14103-makels 60200 M5/MSD was collected @ mcv-21 0925 - Fill out Cab Col's Cogd 1715 - Put sampling equipment annuy. Fill out Lab coc's Sampling Equipment. Cabel unste pater dram (1) // Fin = (1) compte Depart Site. Travel Ko @ DK Transfer decon water into onsite 1015 55 gallon dram. that Hiral in Round Rock. Sec. 1800 - Depart site. COC'S # 58288 + 58289 D1+C WO # 018465 £. ; BOP off samples Return to a 2.21

3-4-13 011	D 3-5.13
@ Rackwool Ind 15e Hon, Joe	Kockwool IND BELTON, TX
ESI3 AIRS. 11 - B SLYIRCE Y	HS13 AIRS 11 - B.SHIRLEY
	0645-Amreonsite
	Cauging Data (NoRTHPROPERTY)-
- Evinpment.	WELLED DTW(FE) TO (At) Sandle Olaction Time
1615 - Depart Site	MW-15 CCKIM AUNISTOR ??
- Schang and Date Dt	
MW-9 28.61 35.1 3-5-13/1202	mw-22 11.04 14.56 30-13 10949
MW-10 A. 3 35.0 5 5-151 1020	Mur-35-90 15.22 16.72 3-6-13: 1.251 Mur-36-90 Casing Kalexed? Mur-32-90 11 15 21 3 3 3 4 13 1 000
MW-11 33.50 35.65 35.7 1000	Mul-34-90 Casimentellared?
MW-14 32.09 41 3-3-13 / 88101	
MW-16 DRU 31.5 NA NA	mur-35-90 772 12.33 3-6-13 1125
1010/-17 26,25 31,5 3-5-13 0919	
ANUL 10 32,12 843 R-5-13 1659	0650. Set up sampling equipment
MAL 24.90 33.22 46.43 3-5-13/ 1735	0725 - Malibrate Horiba (1.52 multimeter
Ann 02 02 2444 RSG 5- 0100 13-	Quality Meter. 45mg Rate Calibration
MN-28-90 30.23 31.94 3-5-13/1523	All another Tunes (won) Docale) Temp(e) ORPland
MW-29.90 #2785 29.92 3-5-13/1448	4.01 4.472 0.0 9.80 - Quenes
	0744-Mois to MUL-14 DTW = 32.09 Ft.
1111229	DTPT = 35.5Ft - Flow Rate = 300 mm -
	608 6.65 1107 113 8.77 19.05 154 32.47
	0000 000 1007 114 8.79 19.11 146 32.46
MW-18 32.42 34.22 3-6-13/0747	Batslin 3-5-13
	jourgun s = 1 s

1 A	D 3-5-13	Diline in Diline The Market
	Bollwool Inp - Belton, TX	HOTO LOG: KOCKWOOL IND.
	ES13 AIRS. 11 - B. SHERLEY	
-	0825 - Decon Pump. 6845 - MOD to MW-121 DTW-26.25ft.	
-	0805 - 1100 + 0 1110 - 1 0 W = 10.07 + 1.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.000 + 10.0000 + 10.0000 + 10.0000 + 10.00	OLKG EAST - CON-Flow MW-14
	DTPJ = 30 pft Flow Rate = 290 ml/min	2 UKG tast - Charteron - MW-17
	Tine Terris p.M. ORP COND TURB DO DRIN (Ft) 1905 17.46 6.63 43 1.26 (00) 1.77 26.74	Quille east - low flaw - mw-li
	908 19.51 (.71 43 1.18 48.6 1.33 27.02	(F) [kg east + low flow - MW-10
	911 1947669 57 1.09 11.5 1.72 27.22	B Ity marth - low flow - MW 34-90
	1914 19. m (1.18 40 1.06 12.7 1.56 27.59	6 chis worth low flow - min - 9
	1917 19:87 1.14 65 1.07 29.4 1.30 27.94	D Ita north - Lew Flow - MW-33-90
	0919 - Collect Sample - Metals 6020 A-	Dig north west - lew thew MW - 29-90
	250ml-HND,	9 (149 North Con Flow - Men - 27-90
	Purge volume 1.25 gd	Op UKG South Tow Fron - MW-19
-	0925 -Decon Pump	
	0937 - MOB to MW- [A DTW=33.56 Ft.	DCKg SW-COW Flow- MW-18
	DTPT= 35.4 FE. Flan Roote = (70 mi/min	
	TIME TOMP PH ORP COND TURB DO DINGE)	
	0958 18.17 6.98 -25 1.26 0 3.36 below 40 of	ROCKG South Core Flore - MW-22
	1001 18.28 696 -35 1.26 ( 3.27 Pump	5 c Kg Sonth- Rung Decon - Mar-21
	1004 18.25 6.90 -37 1.25 0 3.6	With a wast - Con Flow - MW-38-90
	1008 - Collect SAMPLE - Metals 60204 - 25 mil - 14NOz	12 Kg 5E - Com Flow - MW-37-90
	PV = 0.25 fallon	OKKS South-low Flow-MM-35-50
	1015 - Decon flimp.	
	1025 - MOD 40 MW - 10.	
1996 BUDD 2705 A		

											-	
10	Radi	35-13	Ralla	F	or Ari		3-5		. / 1.		(10	
	E < 12 AU	DI Ind Z	- HIPIT		dra 1	100/ I AIRS	_nd.		ton			
T I	AIN-10	RS. 11 - 13.5 DEW = 31.15 C Str. Flow Re	=L		111-9	DTW	= 28 61	Gt 3			╺┼╍┥╌┼╌┤╴┤	
	70.T = 3173	3 The Flow R	ate = 290.	allars 4	┼╾┼╾┼╾┼╸	DTPI	= 34. 5	Ft ·	Flow Ro	ite=29	5 million	
I I	ne Troppe	HORP COND JO	WKB DO DT	w li	ne Ta	.15 6.	ORP	con	o tu	28 00	ptw	
1	37 19.59 6	14 29 0.890	0 1.94 32	.15 119	3 20	.15 6.	5 113	0.914		4.00	28.6	4 8 8
Щ Ц	140 20.19 6	51 -13 0 890 1	0 1.16 32.	.54	7 20	.56 6.	2 111	0.911	U O	3.48		
4	143 20.31.6	91 -17 0892	0 1.12 32	<u>.92</u> 12			20 112					2
4	145 - wheat	sample - metals -	6020 A - HNO3	- 2	2- Col	Hert Span	nple.	Metals	Aaso	2 <b>5 m</b> l -	1/1/03	
	PV=	0.5 gallon	<i>L</i>	50ml		e le qu						
	1050 - Dello	to MW M	11 29. Cm		2- De 20- C	rcon F					╺┥┥┥	
4	05/- 1000	Ft. DTPI=32.	19	13:	0 - R	men	- per	BEALT S		3.90	<b>\</b>	
	I and I	Rate = 290	m L/non	/ 2 ¢		29.945	- DT	3- 3	255	t. Flin	palp -	
7.	ne TEMP PH	+ ORP COND-	TURB DO. DI	TU S		nUmic					/ W/ C -	
ni Ini	8 19.61 6.6	3 64 1,08 5	5.9 3.91 28:	78 Ti	e Ten	APAH	ORP	BND	TURB	DOD	740	
	1 20,35 6.	12 73 1.02 1	3.3 5.6 28	.78 (32	20.0	26 6.65	145	5:971	220	9.80 7	9.94	
4	14 2045 6.1	02 82 0.999 1	1.3 7.06 28	3.78 133	20.	80 6.60	) 142	0.969	100		29.96	
4	17 20.66 6.	72 93 0.987	0 7.20 24	8.78 3	4 21	00 6.77	6 [37]	0.96T	35.9	10.49	29.94	
	20 - collect	sample - metals -	602DA - HNO3	-250ml 3	<b>1</b> 211.	02 6.6	0 145	0.960	- 48	10.75	<u>29.96</u>	
	100 - willer	+ JUP-2 - metals me on COC as 116	+ 6020 A+ HNO.	3-250n 3	9-0	Unit sa	mple	metals	6020	A-250	MI+HNO	3
	RIL =	a la llan				V =  q	allm				┼┼┼┼┥	
	125 - Decor	- Igallon		1 <u>24</u>		rcon r	amp.				┥	
	135 - Mob -	to MW-9				oh to	MAINT	<b>n</b> .				
	· / · · · · · · · · · · · · · · · · · ·	DICR.	2 - 12		1.1-1/6		141 KN					
Ē.	/	and th	5-2-1P		· · · · · · · · · · · · · · · · · · ·	-B	(5	tin	3-5-	13-	¥k	
				·		/	$\mathcal{O}$	<b>```</b>				

	TOD Pockwool Ind Belton, TX	Rockwool Ind Belton, TX (03)
	tsiz AIRS 11 - 18. Stander	ESIBLAIRS 11-B SAIRLEY
	513 AIRS. 11 - 13: 5/11/14 y [MW-7] PTW = 30.26 Ft. DTPT = 34.5 Ft. flow rate = 300 mL/min	$M_{\rm W} - 28 - 90$ $DTW = 30.23 ft$
	the tax tate = 300 ml /min	STPT = 31.80 F+ Flow Rate = 300
	TIME TOMP PH ORD OUD TURB DO DTW	Time Temp +H. ORP COND TURB DO DTW
	1400 21.29 471 133 0.979 0 11.54 30.42	1514 22.30 6.81 52 1.01 G 6.67 *
	1403 22,09 6.62 134 0.993 0 (1.19 30.63	1517 20.39 6.89 62 1.06 0 8.06 *
	1406 22.25 6 62 132 0.991 0' 11.09 30.80	1520 20.50 6.82 76 1.08 0 11.92 ×
	1409 22.26 6164 131 0.933 0 11.39 31.02	1923 - collect sample - metals 6020+ 250mL HMO2
	1410 - collect sample metals 6020A 250ml-Hubs	PV = 0.25 gallon
	PV = 1 gallon	1528 - Devon Runo
	1417 - Decon Pump	Mob to MW 25-90
	MOB to MW 29-90	[MW 777-90] $DTW = 34444 Fr$
	MW 29-901 $DTW = 27.85f+$	DTPI = 35.1 FH Flow Rate = 110 min
	DTPI = 29.50f+ Flow Kate = 365 min	Time Temp pH ORP COND TURB DD DTW
	Time. Temp- ett ORP COND TURB DO DTW.	1547 19.61 6.85 107 1.15 3.3 10.15 #
	Finsuffrient water column to use pump 132 75.15	1550 19.48 6.79 111 1.20 5.3 11.12 *
	14-39 21.44 6.65 -3 , 0.871 34.3 2.53 *	1553 19.63 6.76 114 1.23 0 11.45 \$
1.18	1442 21.52 6.17 -3 0.833 65.2 2.25 **	1557 - collect sample metals - 6020 A-250mL- Hrv3
	1445 21.40 6.73 4 0.843 28.5 2.09	$\frac{1}{1602} - Decon Rump$
	1448 - collect sample metals 6020A 250ml - HMO3	
	$\frac{PV=0.5 \text{ gallon}}{1452 - Neven Num n}$	1610= Discover MM-18 - (all Billy Damblin Gauge DTa = 32.42
	1452-Decon pump Mob to MW-28-90	$\frac{\partial c_{in} b / in}{T = 34, 22 fz}$
	14. Det to set the set of the set of the set of	1620-MOV to MW-30-90
	X - Denth & nexter was not gained during purging - Ston in of	
		5 Sin 3-5-13-

S. Los Martin

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Rockwool Find. - Belton, TX 3-5-13 Kockwool Trd. - Bilton, TX IS13 ALRS 11 - B. SHARLEY ES13. AIRS. 11 - B. SHIRLEY MW-30-90 - hsuficient water 1240 - Decon Pamp Column to use bladder pump. Hand Bril well - QV = 0.25 Saclars 1635 - Mob to Arm 19. Men-16 1759 - Collect [ER-1] 519mple Methods 6020A = 250m/ - Hrvps DTW= DRY 7D= 31 47 Ft. 1640 - MOB to MW-19 DTW= 32.12 Ft acid Paurament × NTPT = 340tt. FlowRate = 240 milmin maste Dance TIME TEMP AH ORP COND TURD DO DIW 55 2 650 19 32 6.75 HE9129 1.08 6.0 7.25 X 1653 19.76 6.14 134 1.04 D 11.78 X 55 Scellon 16510 19.88 6.74 /34 /103 0 12.30 × 1830 1659 - Collect Sample - Motals 60204-250 ml-HND2 1703 - Decon Pump. * - Drw was not sanged during surge - inc was 5ELOW TOP of Plump 712 - Mob to MW-24-90 ITTV = 33.72Ft. DTPI = 37,2 Ft. Flow Rate = 285 mumi Time-TEMP PH ORP COND TORB DO TITW : 724 9,18 6,82 141 1.07 7 7.33 33,89 1727 19.74 6.68 137 1.08 21.4 648 34.00 1730 19.90 6.67 144 1.08 2.5 6.42 34.00 1 1733 20.04 6.15 144 1.07 0.0 6.45 34.08 1735 - Breet Sample - Metaly-GozaA-250ml - Holaz E- 15-13-

Backwool Ind Belton, TX	Rockwool Ind Belton, TX.
ES13. AIRS. (1 - B. SHIKLEY	4513 AIRS. 11- B SWIRLEY
0645 - Arrive on site Coad up	a820- Molo to MW-20 DTW= 32244.
field Cam Sampling	DTPII = 320 Ct. Flow Rate = 290 mc/min.
Pacepment.	Time Temp pH ORP DOND TURB DD DTW
0705 - Calibrate Horiba U-52	0854 12.53 6.49 4 1.42 160 9.60 32.52
Terrep 15 3-6-13 Using per y Cal. Sol.	0857 10.40 6.51 12 1.30 138 9.10 32 78 0900 17.55 1.48 19 1.24 80 4 9.12 22 21
DH Content Dask DRA(m)	
3.99 4.58 0.8 12.14	0903 18.31 6.45 19 1.23 40.4 8.82 32.86 0906 18.71 6.42 30 1.28 13.9 8.57 32.79
	090.8 - Collect Sample - Metals 6020 A - 1 50 ml - 4120-
0712 - MOB to MIN-18 DTW=32.43 Ft.	NUE (. D Gallon
DTPI = 34.00 Ft. Flow Rate = 70 m/min	0912 - Deron Aump
Time TEMP Att ORP COMP THER DO DIN	6928 - Mbb to Mu-22 STW- N:04 Ft
0735 10.77 640 -16 1.75 179 10.35 7	DTPT = 14.2 Ht. Flow Rate = 290 mc/min
0737 11.41 6.68 -19 1.72 220 11.01 4	Time TEMP Att ORP COND TURB DU DTW. 0941 14,48 6.84 58 1.08 0.0 9.87 X
6741 11.63 6.68 -18 1.70 222 10.13 X	0941 14,48 6.84 58 1.08 0.0 9.87 *
0747 - Collect Stample E. Metals 602019. 250ml. HND3	0944 16,72 6,77 74 tot 14.9 10.45 ×
E-Depth to water was not measured during while	
- purging MN date to MC DE My below top of the many.	PV= V4 gallon
0753 - Decon Pump	X- Depth to proter was put called due child
	A Depth to prater was not gained due while Durging man due to water level being
0804 - Mob to MW- 30-90	LI Malan And La ht seen h
0814 - Collect SAMPLE-Mitols 6020 A-	0955 - Decon Hump
250 m(- HAV03	1010 - MOB to mou-21
	-B/Sen 3-6-13-

100 200

Top Roderical Fad - 13	Rockwool Ind. Belton TX
ES13. AIRS. 11- B. SIHIRLEY	ES13. AVR5. 11-B. SHIRLEY
[MW-21] DTW=9:75 FL. DTPI= 15.0 Ft.	1140 - MOD to MW-37-95 OTA- 16,15 Ft.
FLOW RATE = 305 m/min	DTPI = 22 Pb. FLOW RATE = 295 mc/mm
Time TEMP PH ORP LOVD TURB DO DTW	Time TEMP PH ORP BOND TURB BO DTW
1020 17.02 6.76 80 0 701 112 9.43 10.07	1156 19,17 6.92 82 0.944 21.2 8.88 16.56
1023 17.74 6.63 81 0.632 16.5 9.53 10.34	1159 20 53 6 83 55 0.977 11.6 5.93 16.65
1026 17.57 6.75 79 0.620 0.0 10.57 10.54	1207 20.90 6.81 -24 0.870 0.0 8.88 16.67
1029 17. 14 6.72 79 0.615 0.0 10.54 10.87	1205 21 02 4.76 -60 0.872 0.0 8.73 16.67
1032 17.91 6.74 77 0.611 0.0 10.74 11.8	1209 - Collect Sample - Metals 6020 A 250m1 - Anoz
1037 - Collect Sample-Metals (e02072-250ml- 4Noz	PV = 1.25  gallions
K- Wheet MS/MSD 1008 - Collect, DUP-1 (Note Time on Law COCas	1219 - De con rama
1008 - Collect Dup- (Note Time on Clan COCas	1225-Mob to 1111 35-90 DTW = 15.22 Ft.
1008) PV = 1.25g allons	DTPT = 10.6 Ft. Flow Rate = 275 m2/min
1047 - Decon Fharp. $1058 - Molo to MW-38-90$ $DTW = 7.72 Ft.$	Time Temp pet ORP COND TURB DO DTW 1242 20.57 6.91 -68 0.876 0.0 8.92 +
DTPI= 12.00 ft, Flow Rate = 295 mL/min	1245 20.42 4.88 39 0.574 0.0 9.11 +
Time TEMP At ORP COND TURB DO DIN	1248 20.48 6.87 -16 0.884 0.0 9.12 ×
1110 17.39 6.94 86 117 93.4 9.71 7.94	1251 - Collect Sample - Metals 6020 A-250m1/18nuz
(113 1741 6.75 91 1.31 31.0 10.16 8.23	PU = 3/4 sallon
11110 1728 6.86 84 1.29 13.4 10.03 8.78	* X Dewith to water not gauged during a hile
1119 17.24 4.38 84 1.24 11.0 10.04 9.11	purchy MW due to writer level be my Below
1122 17.29 6.88 84 1.27 0.6 9.62 9.52	the as premper 1
1125 - Collect Sample-Metal4:60204-250ml-UNO,	1257 - Decon Flump
W= 1.25 gallons U30 - Decon Pannop	
1630 - Decon Hamp	309-Collect ER-21- Metals 4020A-250mi-HW0,
Bibli 3-12-13	

3-6-13 [10) Kockwool Ind - Beldon, TX ROCKIND S. EATMAN -VEG 2P ESB AIRS 11- B SHIRLEY JJJJJ ANS ANS DAD HINDB TO NISTE 1315 - Mob to Central Property D 900 MEET CHY OF BO TON 1325-Transfer parge water to Onsite dram. Coad up Field Sampling equipment WORKS ST HI (JEPP) 09.30 1000 DASME WASTE: EZ (REN) PRENE; TALLION JOID TOURATE SAFET MEETING a) Downs on site (1) full CREW: PATRICK DE (1) empty. LORONADD (ALL 1426 - Propare samples for Elipping Fill out COC's SPRIEDLER 1030 INAL SIJE QUESTIONS DAL COC #'S 58573 +58572 EAR ALL EMBANYEMENT OR 12 USATERE ACR 15 ? (SOME 1445 - Depart site - Travel to Attl 1535 - Drop off samples Reten to office. DAUGERI BUSKEDDI FURPE MU THE WAY TO EAST E - JOHNS ASKED IE WILL SEED A CHIPPER OF USING A MONER ( TRHOTOGONER VT (BRUSH) IS &K CAU - BULY, OPLY ACB, TRY WO CHAPPER IN IC EN BREAK FOR UNCH DULDAD EQUIPMENT. 11:45 TEMOTOR MONTH NEEDWHACKERS CHAINSAW

					an de la transferie de la constante de la const		an an san an an san	
(122)	Parle	6-10-13	11	, Ci		0-13		23
651	Kocku	007 - /3	ton, TX		2001- 30	CTON, T		
<u> </u>	P. HIKS		5HIRLEY		- <b>A</b>	3.SMIR		*1*
0915-		VENTE	Cal:	Central Proc		TATABLE	SamAland	polina
	1	M Site.	27440		DATA (FED 'T	DIFE	SamAle (b)	1.1.1
1044 -	Dalih	g la mjen	up 1 - 2		27.79	29.92	0-11-13/0	807
	- <u>a ( 1570</u> 4	e Horiba	(-5a)			- <b>284</b>	6-10-13/18	150
		MCFev w/ C	tio Auto Cal	Mw-33.90	29.57	33.0 32.5	- 6-11-13/10	
		02 pH 1.52 ms/cm		MW. 34.90	$\rightarrow$	56.2	6-11-13/10	
	TURE = 1	20 NTU			W-3490)*			P37
k: · ·	Dn = 0	.39 ms/L		ER-1 ER-2			6-10-13/1	215
					OPERTY CA	UBINGI	ABCE:	
Central Pap-C	augin	DATA TABL	<u> </u>		DTW(A) T	D(FE)	San Ale BL	Refton
WELLTD	DIWCF	EL TOFE	Sample Colla DATE / Tim	10 WW-15 4	Jell obstructed		M/A	1 MAL
Mw-7	30,12	\$6235.1	6-10-13 /16	20 11120		39.2	6-11-13/15	00
MW-9	98.23	2:4:35.1	6-11-13/112		9.62	15.5		47
MW-10	32.47	21-15-35.0				4.56	6-11-13/1	
Mw-11	34.02	35.15	6-10-17/13		13.91	16.72	6-11-13/16	54
MW-14	30.83	41	6-10-13/13			26.3	6-11-13/13	51
MN-16	DRY	31.5	NIA	MW-35-92	252	12.33	(a-11-13/ 14	220
[mm-1]	26.16	31.5	6/11/13/090	6 KDUPI (W	W-21)		6-11-3/15	57
<u>Mw-18</u>	33.31	34-77)	19.25 G-10-13/14	46 ER-2			6-11-13/17	75
MW-19	32.03		6-10-13/15					-
MW. 24.9	0 33.67	34.34 40.63	10-10-13/17	os sampcine	ORDER: CEN	TRAL PROP	AT4: 10 11,	14
MW.297.0 MW.28.9	0 39-30	- 35.4 Starlo 35.4	6-11-13/09	46 30 18 19	7 24 28:29	7, 27, 33, 3	ļg'	
1210.52.2	1 20.10	$\frown$ $i = i$	6-10-13/17	52 North Pr		22,20,21		
		B/Slip	10-13-		3/5	47 6-10-1	3 5	
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Carlo de la construcción de la cons	ili: delettime-	ar an an an ann an an an an an an an an an			a strandikanova diana			

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	(24) Rockwool-BELTON TO	Rockwool - RECTANITE (25)
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	ESI3, AIRS. 11 = BSHRLEY	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	MW-101 DTW= 3247 FE.	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	DT FT = ST.3 IE 7/000 Korte = 270 ML log	THEORY RATE = 700 Mik min
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	216 23104 7.87 -151 OSLA 26.3 9.13 ×	AND RUTZ (a DD Laker 25 DE CLEZ 9 72 Bulla
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	1219 22917 7.410-118 11.880 11.3 2 31 4	1315 22.105 5.93 37 0841 681 8.44 31.29
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	1222 23.01 7.37 -108 0.884 9.4 11.26 *	1348 22.11, 5.88 151 6.84 427 11.27 31.31
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1225 23-16 7.28 -79 0.885 6.4 5.40 X	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1228 23.18 (23 -162 0.842 0.7 (1.58 )4 1231 - Caller ( 1. 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1	1553 - 10/19ct Sanple - 250 ml - 41/03 - MCtals 6020
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1231 WHICH Sample - 250 MI - HNO3 - Metals (0020	1355 - DECOW HUMP - HU = 1.00 Sallon
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		MW-30-90 TOTW = 3759 FK
$ \frac{1259}{1302} \frac{15.91}{4.57} \frac{7.03}{6.75} - 21 \frac{1.17}{12} \frac{110}{12} 1$	(MW-11) DTW = 34.02 Ft. DTPT = 355 Ft.	
$\frac{1259}{1302} \frac{25.91}{6.75} - 21 \frac{1.10}{1.17} \frac{10.1}{10.1} \frac{10.17}{10.1} \frac{10.17}{10.1} \frac{10.17}{10.17} \frac{10.1}{10.17} \frac$	FLOW RATE = 235 mumin	lo unin to dee anno.
$\frac{1302}{1305} \frac{19.67}{6.75} - 21 (.17) 16.1 6.17 (0.20).$ $\frac{1305}{1305} \frac{19.56}{6.64} - 14 (.18) 10.6 5.02 (0.30)$ $\frac{1308}{1313} - \frac{10}{6} \frac{16.1 - 13}{1.18} \frac{1.18}{5.0} (0.30)$ $\frac{1313}{1313} - \frac{10}{6} \frac{16.1 - 250 \text{ m} \cdot \frac{1}{51003} - \frac{1}{50030}}{\frac{1313}{6} - \frac{1}{50030}} - \frac{1}{50030} - \frac{1}{50030} - \frac{1}{50030} - \frac{1}{50030} - \frac{1}{50030} - \frac{1}{500300} - \frac{1}{500300} - \frac{1}{5003000} - \frac{1}{50030000000000000000000000000000000000$	Time Temp pH ORP COND TURB DO DTW	12V = nu gullon
$\frac{(305 \text{ RH} \cdot 576 \text{ b} \cdot 604 - 14 \text{ 1.18} 10.4 \text{ 5.02}}{(308 24.50 \text{ b} \cdot 61 - 13 1.18 50 \text{ b} \cdot 30')}$ $\frac{(305 \text{ RH} \cdot 576 \text{ b} \cdot 61 - 13 1.18 50 \text{ b} \cdot 30')}{(313 - \text{follect Sample - 250 ml \cdot 61 No_3 - Metals 1020}}$ $\frac{(305 \text{ RH} \cdot 576 \text{ b} \cdot 61 - 13 1.18 50 \text{ b} \cdot 30')}{(320 \text{ Deign Pump - PV = 0.25 genlion}}$	$\frac{1257}{1202} \xrightarrow{25}{21} \frac{10}{107} \frac{100}{107} \frac{100}{107} \frac{100}{100} 100$	(830 - Collect Sample - 205-250ml - Ano- Metols
$\frac{1368 \times 24.50 \ 6.61 \ -13 \ 1.18 \ 5.0 \ 6.30'}{1313 - Collect Sample - 250 ml - Etwords RO20}$ $-320 \ Derion \ Pump - PV = \ 0.25 \ qcullom \ $	1305 84.56 6.64 -14 1.18 10 10 507	
(320 Deign Pelmip · PV = 0.25 genllon SS Control - Cont	1368 24.30 6.61 -13 1.18 5.0 6.30	
BISCO 13 - 10-13	1313 - Collect Sample - 250ml-Etwas-Metals 2020	
	(-320 Decon Pilmp - PV = 0125 gention	
	2/Shin	
	20 6-10-13	

		en anterior de la composition de la com
(26) BRockwool - BELTON, TA	6-10-13 Radia Britan (2)	
	Rockwool - BECTON, TR	
ES 13. AIRS. 11 - B. SHIRLEY : PHOTO LOG:		
Nhoto ID DESCRIPTION	MW-18 DTW= 33.31 Ft. DTPI = 34.2	
0 - MW-14 - CKS SW - LOW FLOW	How Rave = 290 and reading	
@ -MW-18 - (Kg South - Cow Flow	The trend att. att. app. constructs bo DTW	
3 - MW-18 - CKg South - COW From	1436 25/10 5.98-18 2.68 800+207 31.91	
Q = MW-19 - Ckg West - Com Flow	1439 23.34 5.57 - 4 2.45 542 0.94 3566	
(5- MW-7 - CKG North - Low FLOW	1442 23.29 5.85 -10 241 8007 1.07 36.18	
6-MNU-24.90-UKS NORTH-LOW FION	1415 23.02 5.81 35-10 204 800+ 1.01 50.39	
() MW-28-90 - LKG NORTH - LOW FLOW	1446 - Collect Sample - 2 50 mil- 4mil - metals 6020 1452 - Decon Rump - AV = 19allon	
6-11-13 D Mul 20.00 - 11 10 05- 04h Tinel	1952 - Vecon rang 7 1 9 1 7 allore	
B-MW-29-90- (Kg North-con Flow DMW-27-90 Kg SW - (SW Flow	MW - 191 $DTW = 32.03$ $DTRI = 34$ .	
(D) MW = 33-90 LKg S - LOW FLAN	Flow Pate = 240 me /a	
D MW- 54.90 - CKESE - LOW FLOW	Time rema DA ORA Conis Truker 120 DTW	
2 MW-9 - UKG NE-low flow	1523 2553 5593 106 1.04 54.4 4.09 × 6400 tal	
(13) MW-22- 4KG-SE - 10W Flow	1326 2334 5.75 133 0.975 135 6.91 4	
(IF) MW-20 - LKG NE - law flow	1529.22.49 5.72 147 1 9018 4.8 7.11 ×	
DIMN-21- LKG N-LOW Flow	1532 22.41 572 154 0965 0.1 7.02	
(10 MW 38-50- LKG 5W. 200 Flow	1534 - Collect Sample - 250 ml - 4100 - Methods leozo	
(7) MW-35-90 - LKG \$ - Con Flow	538 - Decon Fump- PV= 1/2 gallin 1546 - Mo2 to MW-7	
$\frac{(1-12-13)}{(1-12)}$		
(13) (DW onsite waste.		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	14100-0-0 144 01.51 nng/L DD 1830- Collect Sample - MW-30-90 1837- Collect ER-1.250mi 1100-0111005 CO20
1699 25.37 640 191 1.01 34.9 630 33.92 1652 23.61 6.51 151 (.01 22.3 5.97 33.97 1655 22.57 6.49 151 1.02 1.2 5.56 34.03	1837- Collect ER-1. 250 ml Knoz-Metals 6020

(3) Rocking - Rolfon IV	D 1 6-11-13 - (73)
ESIB AIRS.11 - B. SAURLEY	Rackwool Belton TK
BWM Event # 3	ESI3. ALKS. 11 - 13 SHARLEY
0700 - Arrive on some Set up sampling	MW-12 Cont.)
- la cupment -	Time Troup AH ORP COND TARD DO DTW
0715 - Calibrate Horiba	$h_{903} 21.51 (17)(17)(17)(10) 080 09 255 27.19$
DH = 4.02	0903 21.51 6.76 121 0.980 89 2.55 27.19 8906 - Collect Sample - 250 11 11103 - Metals 6020
(DND=2.25m5/cm	0909 - Decon Premos - PU= (0 ral.
TULLE - 0.0 MTCI	
Do = 9.00 mg/L	MW-27-90 DTW = 34-34 Et DTPI = 350 Ft
	Flow Rate = 215 min ain
(MW-29.90) DTW= 27.79 FE. DTPT- 29.80	Flow Rate = 215 mb min Time Turne PH · 020 Cond Turs DO DTW
Flow Raste = 275 un/mia	0932 25.56 6.68 160 1.09 52.3 5.39 34 38 3
Time Temp Alt ORA CANA TURE DO DTW	
0754 23.05 6.62 -39 0.799 139 7.10 4 WC Between 12.54 1.12 00 100 100 100 100 100	0935 24.50 6.66 IS8 1.11 27.3 5.19 * PUMP 1938 23.84 6.66 160 1.11 12.4 5.02 *
0757 22.54 6.67 - 80 0.815 209 1.40 4 toping 0800 22.47 6.71 -14 0.243 95.5 0.99 4	
0807 - Collect Sample - 250 mil. Hno. Matals 6020	0941 23 82 (0.04 164 1.10 1.4 4.91 *
0410 - Decon Pump. PV = Va Gal.	0946-Collect Sample - 250ml Hrito- Metals 6020 0950 Decon Rigma PV - 12 94
MW-17 DTW = 26.15 FE. DYPT - 30 FE	MW-33-90 DTW= 29.55 & DTPI = 32 5 AE
Flan Rate = 295 million	Flow Rate = 280 million
Time tomp 2 A DRP COND TUNB DOL DTW	Time Teno pH OPP Con Turk DO DTW
0854 22.76 6.75 154 1.17 18-6 1.71 26.56	1014 24.75 6.79 171 0.975 693 5.50 29.56
0857 21.89 4.74 138 412 16.5 1.81 26.85	017 23.27 680 173 0.961 237 5.23 29.56
0900 21,50 6.74 124 102 4.7 2.43 27.03	1020 22.93 6.18 172 0.950 85.0 5.32 21.56
	1022 - Calloct Sample · 250 ml · ANO3 · Aleta(5 6020 1027 - Decon Pume - DV = 1/2 gallon
	Elsin Ko-11-13-

1.1

\$2.

(B) Roale 101 6-11-13		6-11-13 Rockwool - Betton, Tx	133
ESIZ AIRS 11 - B. SHIRLE	, /X	Rockwool - Betton / X ES13. AIRS II B. Shirley	
GWM EVENT #3	-7	Generation of shiring	
		MUL 27-90 NT. 1 - 15.03 FF DTPT = 24.0 F	£
MW-34-90 DTW = 28.36 Ft. DTPI=	32.0 ft.	Fibu Rate = 300 mg/	
Flow Late = 380 ML Time Temp pH ORP Cond The	Invin	Time Temp pH oce Cond Tyre DOL	DTU
Time Temp pH DRP Cond Tirb	DOT DEW	8343 24.34 7.10 14 0.847 71.2 1.80	
1044 23.50 7.29 170 1.02 204		347 22.58 7.08 -27 0 536 12.1 0.95	
1047 22.48 7.31 169 0.978 519			5.61
1060 22.21 7.3%, 170 0.955 24.			15.61
1052 - Colliect SAMPCE - 250 ml + 1403 1053 - Collect Dup D-2 - 250 ml + 1403	- My 12/5 6020		
indicate time on loc For Dr	5-Merci> 6020	1404 - Decon Punp - PV = 1.5 gal	
1056: Decon Pump. PV= 3/4 gal.	ap as nua		
		MW-221 DEW = 1079 F4 DTPF = 14.0 4	
MW-9 DTW = 28.23 SE. DTPI =	33 0 81	Flow Rate = 300 " min	
Flaw Rate = 369	w/min	Time Time pH oile conclam Time Do	
Time temp pt or cond Tu		1415 24.21 7.45 -30 1.01 33.0 3.4	
1120 2337 700 198 0.881 15	6 679 28.13	418 22.93 7.51 22 1.02 64.1 4.0	
	0 632 28.23		i
1126 22.40 6.84 206 0.869 3. 1128 - Collect Sample - 250ml - HV1			
1133 - Drion Pump PV= 14	1- A 4	1430 - Decon Pump PV = 1 gal	
1145 Break for Lunch		2 6 1 12	
1215 On Site			
	1-11-13-	4.	

(34) Rockwood - Rolbon Tr	Rockwool - Belton, TX 35
	ESTIN, 1X
ES 13. AIRS.11 - B.Shirley Gum Event #3	Gum Event #3
	Ĩ [™] └── └── └── └── └── └── └── └── └── └─
$\frac{MW-20}{DTW} = 32.13 \text{ ft} \qquad DTPI = 35.5 \text{ ft} \\ Flow Rate = 375 \text{ m}/min$	
	Time Temp rill Str. Conden Turk Do Ottu
Time Tenip ph ORP Cond Turb DO DTW 1449. 25.34 6.97 103 1.19 87.0: 3.50 32.5	
1452 24.08 6.85 170 1.22 29.9 2.92 32.6	
1455 23:86 6.87 666 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 - HWDz - Metals 6020	
1504 = Decon Pump - PV = 1 gal	1626 - Collect Sample - 250 ml - HWW2 - metals 6020
	(631 - Decon Rump - PU= 1.5 gel
MW-21 DTW = 9.62 A+ DTPT = 15.0 F+	
Flow Rate = 305 ml/min	
Time lenup et our cond Turk DO DTW	MW-35-90 STW=13.91 Ft DTPT=. 16.5 ft
1531 25.08 755 152 0.638 28.4 1.70 10.85	TLOW LATE TO LATE Here I Here
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	
1543 23.78 7.58 66 0.585 0.0 0.96 10.54	16476 2265 663 70 1.20 10.0 2.14 14.39 1649 2215 661 169 1.17 666 217 14.39
1547 - Collect Sample - 250 ml - Haloz - metals 6020	
Collect MSMSD - 250 ml + HWOz - Metals 6020	
1557 - DUP 250 M(. HNO3 - Metals 6020	
1552 - Decon Pump PV= 1.5 gal	
pour como	2/0-12-3

85 6143 6-11-13 0-12-13 13) 130 ROUKWOOL Belton, TX: ESIB. AIRS 11- VB. SHIRLEY BE ROCKWOOL BELTON, TX ESIB. ATRS. 11 - B SCHIRLEY CWM EVENT #3 GWM EVENT #3 1715 - Collect EO EK-2 - 250 ml . 4/1/03-Metals 6000. 0800 Avvice on site Coarl up same in Paupment. 1720 - End of day Calibration Check pH = 4.04 0819- Colle + TIDA Sample - 250 m AMOS RCRA/TX/1 Metals -----COND = 4.53 "5/cm Label onsite drums TURB = 16.6 NTV Do = 7.08 mg/L - - ONSite Wayte: 1728 - antoad Sampling equipment. (2) 55 gal. drums 1 Full 1800 - Depart site 1- 2/3 Fired. 09115 Depart 5,4e 6.72