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Report

Comprehensive Investigation Report

Brenntag Southwest, Inc. Facility

1520 N. Barwise, Wichita, KS

Project I.D.: 12B477.00

Prepared for Brenntag Southwest, Inc.
Wichita, Kansas

March 2015

Foth

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March 27, 2015

Mr. Ryan Weiser
Bureau of Environmental Remediation
Kansas Department of Health and Environment
1000 SW Jackson, Suite 410
Topeka, KS 66612-1367

Dear Mr. Weiser:

RE: Comprehensive Investigation Report - Brenntag Southwest, Inc. 1520 Barwise, Wichita, KS

This letter is to transmit the Comprehensive Investigation Report for the Brenntag Southwest, Inc. facility at 1520 Barwise, Wichita, KS.

An electronic version of this Comprehensive Investigation Report, including tables, figures, and appendices, is available on the included DVD. Laboratory analytical reports in appendices have been omitted from appendices in hard copies of this report, but are included on the DVD. All other analytical data collected at the Brenntag Site, including routine groundwater monitoring data, are also included on the DVD.

A Corrective Action Study has also been prepared and will be submitted separately.

Please contact Robert Kick at (417) 836-3621 or bob.kick@foth.com with any questions or comments.

Sincerely,

Foth Infrastructure & Environment, LLC

Robert M. Kick, PG, CHMM
Senior Project Manager

Brian Symons, PE
Senior Technology Manager

cc: Ken Potrykus, Foth Infrastructure and Environment, LLC
Shawn Wiram, Brenntag North America, Inc.

Comprehensive Investigation Report

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No. of Copies	Sent To
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1	Mr. Shawn Wiram, Brenntag North America, Inc. – Electronic

Comprehensive Investigation Report

Project ID: 12477.00

Prepared for

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1520 North Barwise Street
Wichita, Kansas 67214

Prepared by

Foth Infrastructure & Environment, LLC

March 2015

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3-27-15

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Comprehensive Investigation Report

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Comprehensive Investigation Report

Executive Summary

This Comprehensive Investigation Report (CI Report) has been prepared by Brenntag Southwest, Inc. (Brenntag) to describe investigation activities at 1520 North Barwise Street in Wichita, Kansas (Site) using the Kansas Department of Health and Environment (KDHE) Comprehensive Investigation/Corrective Action Study (CI/CAS) process. This work was conducted under Consent Order 02-E-0279 entered into by Brenntag and KDHE on December 9, 2002. A separate CAS was also prepared.

The purpose of the CI was to collect data necessary to adequately characterize the Site. The objectives of the CI Report are as follows:

- Determine the lateral and vertical extent of soil and groundwater impacted by volatile organic compounds (VOCs) originating at the Site.
- Develop a Site Conceptual Model for human exposure.
- Collect data to support the evaluation and design of potential response actions.

A secondary purpose was to evaluate whether off-site sources contribute to impacts originating at the Site.

Comprehensive Investigation activities included on-Site soil and groundwater sampling and off-Site groundwater sampling. The first phase of investigation was conducted on-Site in December 2003 and included deep and shallow soil and groundwater sampling utilizing direct push technology (DPT). A second phase of investigation was conducted on-Site in August and September 2004 and included DPT shallow soil sampling and the installation of three piezometers to determine the groundwater flow direction. Six groundwater monitoring wells, including three shallow and deep well pairs (well locations 1, 2 and 3), were installed on-Site in January 2008. An off-Site DPT investigation was conducted down-gradient of the Site in March 2009 and included sampling of three groundwater intervals and electro-conductivity (EC) logging of soil to determine lithology. In March 2011, an additional well pair was installed on-Site (well location 4) and two additional wells pairs (well locations 5 and 6) were installed down-gradient of the Site on Mosely Street.

After installation, groundwater monitoring wells were sampled on a quarterly basis from 2008 through 2012 and have been sampled on a semi-annual basis since 2013.

An Interim Remedial Measure for Soil at the Site was conducted in August and September 2007. Silt- and clay-rich soil present in the vadose-zone, that was impacted above Risk-Based Standards for Kansas (RSK) (June 2007) for the soil to groundwater pathway, was excavated and disposed off-Site as non-hazardous waste. The excavation area was subsequently backfilled and paved.

Key conclusions and findings of the investigation include:

- The chemicals of potential concern (COPCs) include tetrachloroethylene (PCE), trichloroethylene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride (VC).

- The lateral and vertical extent of soil impacted above Kansas RSK standards was determined to be limited to an area on the southern portion of the Site and did not extend off-Site.

- An Interim Remedial Measure for Soil, a source removal action, was conducted in 2007 which resulted in the excavation and off-Site disposal of soil impacted above the Kansas RSK "soil to groundwater protection pathway" criteria.

- Shallow groundwater at the Site occurs in an unconfined alluvial aquifer primarily composed of unconsolidated sand above shale bedrock. Groundwater flow is primarily to the south-southeast. Groundwater flow at the Site appears to be stratified with shallow groundwater in fine sand moving more slowly than deeper groundwater in coarser sand.

- TCE and cis-1,2-DCE, at concentrations generally less than Kansas RSK standards, are flowing onto the Brenntag property from up-gradient, off-Site sources.

- The release of CEs that impacted soil also impacted groundwater at the Site.

- Groundwater quality improved after completion of the Interim Remedial Measure for Soil. As of October 2014, on-Site groundwater shows PCE impacts above Kansas RSK standards only in well MW-3s at a concentration of 0.0193 milligrams per liter (mg/L) as compared to the Kansas RSK standard of 0.005 mg/L. However, PCE concentrations in this well have remained approximately constant since about 2010.

- Residual PCE in on-Site groundwater is being degraded by reductive dechlorination, as demonstrated by decreasing concentrations of PCE and co-varying concentrations of dechlorination products TCE and DCE. Reductive dechlorination is also degrading TCE formed from on-Site PCE.

- PCE is found in both on-Site and off-Site shallow wells, but not deep wells, indicating that PCE impacting shallow groundwater undergoes limited vertical migration.

- DCE is the dominant chlorinated ethene (CE) in deep groundwater under the Site and is uniformly present at much greater levels than in shallow groundwater near the past on-Site PCE source. As the impacts related to historical Site operations attenuate, up-gradient, off-Site sources are becoming the dominant source of TCE and DCE in groundwater under the Brenntag property.

- Groundwater impacts attributed to Brenntag extend off-Site.

    - In well MW-5s, the concentration of PCE in March 2011 was 0.0279 mg/l and by October 2014 had declined steadily to 0.0043 mg, below the RSK.

- CE concentrations at off-Site well MW-6s currently exceed RSK standards for PCE (0.0315 mg/L) and TCE (0.0136 mg/L); however, both PCE and TCE in this well have shown a consistent declining trend since March 2012.

- These regular declining PCE concentrations indicate to Brenntag that natural attenuation processes are active.

- In wells MW-5d and MW-6d, TCE and DCE levels have been essentially constant since these wells were first sampled in April 2011. DCE concentrations appear relatively constant at approximately 0.03 to 0.05 mg/l, compared to the RSK of 0.07 mg/l and TCE concentrations appear relatively constant at approximately 0.01 mg/l, compared to the RSK of 0.005 mg/l.

- Potential routes of exposure for the Site were evaluated and determined to be incomplete, given the Interim Remedial Measure for Soil and implementation of the Environmental Use Control (EUC).

- Potential routes of exposure for off-Site areas down-gradient of the Site were evaluated and potentially complete pathways include groundwater and vapor intrusion pathways. The groundwater pathway is considered incomplete because the City of Wichita provides potable water and a City ordinance prohibits the installation or use of private wells for drinking water within City limits. The vapor intrusion pathway is also considered incomplete, as was concluded for the North Industrial Corridor (NIC) Site.

- An EUC has been implemented at the Site which prohibits non-commercial land use and groundwater use.

Based on the results of this work, Brenntag concludes that the objectives of the CI have been met.

List of Abbreviations, Acronyms, and Symbols

µg/kg	micrograms per kilograms
µg/L	micrograms per liter
1,2-DCA	1,2-dichloroethane
ARAR	applicable or relevant and appropriate requirement
bgs	below ground surface
Brenntag	Brenntag Southwest, Inc.
CAA	Clean Air Act
CE	chlorinated ethene
CERCLA	Comprehensive Environmental Response, Compensation, & Liability Act
CI Report	Comprehensive Investigation Report
CI/CAS	Comprehensive Investigation/Corrective Action Study
cis-1,2-DCE	cis-1,2-dichloroethene
CLP	Contract Laboratory Program
COC	contaminant of concern
COPC	chemical of potential concern
CSIA	Compound Specific Isotope Analysis
CWA	Clean Water Act
DCE	dichloroethene
DPT	direct push technology
EC	electro-conductivity
EDR	Environmental Data Resources, Inc.
EUC	Environmental Use Control
ft	feet
ft/day	feet per day
ft/ft	feet per feet
ft/year	feet per year
GSI	Geotechnical Services Inc.
HPT	hydraulic profiling tool
IRMS	Interim Remedial Measure for Soil
IRMSWP	Interim Remedial Measure for Soil Work Plan
KDHE	Kansas Department of Health and Environment
LCS	laboratory control samples
MCL	maximum contaminant level
mg/L	milligrams per liter
MIP	membrane interface probe
MNA	monitored natural attenuation
MS/MSD	matrix spike/matrix spike duplicate
ND	non-detect
NIC	North Industrial Corridor
OSHA	Occupational Safety and Health Act
PCE	tetrachloroethylene
PID	photoionization detector
PVC	polyvinyl chloride
QAPP	Quality Assurance Project Plan

RCRA	Resource Conservation and Recovery Act
ROW	right-of-way
RPD	relative percent difference
RSK	Risk-Based Standards for Kansas
SARA	Superfund Amendments and Reauthorization Act
Site	1520 Barwise Street, Wichita, Kansas
TBC	to be considered
TCE	trichloroethylene
TCLP	toxicity characteristic leaching procedure
TSCA	Toxic Substance Control Act
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
VC	vinyl chloride
VOC	volatile organic compound

1 Introduction

This Comprehensive Investigation Report (CI Report) has been prepared by Brenntag Southwest, Inc. (Brenntag) to describe investigation activities at 1520 North Barwise Street in Wichita, Kansas (Site) using the Kansas Department of Health and Environment (KDHE) Comprehensive Investigation/Corrective Action Study (CI/CAS) process. The site location is shown on Figure 1 and the site layout is shown on Figure 2. This work was conducted under Consent Order 02-E-0279 entered into by Brenntag and KDHE on December 9, 2002.

1.1 Site Background

The City of Wichita, Kansas is located at the confluence of the Arkansas and Little Arkansas Rivers in central Sedgwick County. The Brenntag Site consists of 0.7-acre property located in the west-central part of Wichita (Figure 1). The site is located in a mixed commercial/industrial part of Wichita. The land-based description of the Site is T27S, R1E, Sec 9, SW ¼, SE ¼, Sedgwick County, Kansas and the geographic coordinates for the site are approximately 37.7104 degrees north latitude and 97.3285 degrees west longitude.

Properties bordering the Site include: Barwise Street to the west with property owned by Cargill further west; a salvage yard to the north; a railroad right-of-way to the east parallel to Brenntag's eastern property line; property owned by Cargill located further east and southeast; and other Cargill property to the south.

A single building is present at the Site, which includes offices, warehouse, and loading dock and occupies approximately one-quarter of the Site. The north yard, which is unpaved, is used to receive and ship packaged chemicals from the warehouse. The south yard, which is a paved, is used to receive, store and ship various materials. Aboveground storage tanks (5,000 to 6,000 gallons each) containing nitric acid, sulfuric acid, muriatic acid, sodium hydroxide and sodium hypochlorite were historically present in the south yard. Smaller quantities of materials have been stored in drums, totes and cylinders.

1.2 Project Timeline

The following section includes a timeline of key project milestones, investigations, and submittals.

- 2002
  - Unilateral Order (Case No. 02-E-0279) effective date December 9, 2002
- 2003
  - October – Revised Comprehensive Investigation/Corrective Action Study Work Plan
  - December – Direct-push technology (DPT) soil and groundwater sampling
  - Quarterly progress report submitted for the 4th Quarter
- 2004

- February – Phase 1 Activities Technical Memorandum (report of December 2003 work)
- May – Work Plan for installation of three piezometers
- August – Piezometer installation and DPT soil borings
- September – Piezometers and Additional Soil Sampling Report (report of August 2004 work)
- Quarterly reporting

- 2005
  - Quarterly progress reporting
- 2006
  - October – Final Interim Remedial Measure for Soil Work Plan (IRMSWP)
  - Quarterly progress reporting
- 2007
  - May – In-situ waste characterization soil samples collected
  - August-September – Interim Remedial Measure for Soil (IRMS) Excavation
  - December – IRMS Completion Report
  - Quarterly progress reporting
- 2008
  - January – Monitoring well installation (MW-1s/d, 2s/d, 3s/d), PZ-1 Abandonment
  - March – Well Construction and Sampling Report (report of January 2008 work)
  - July – Work plan for additional groundwater analyses (slug testing and routine monitored natural attenuation analyses)
  - August – Hydraulic testing of site monitoring wells (results reported in 3rd Quarter report)
  - Quarterly groundwater sampling (six monitoring wells and PZ-3) and progress reporting
- 2009
  - March – Off-Site DPT groundwater sampling and electro-conductivity (EC) logging

- June – Off-Site DPT Groundwater Investigation Report
- August – Memorandum on Reductive Dechlorination of tetrachloroethylene (PCE) On and Near Property
- November – Memorandum on Regional Groundwater Elevation Survey Results
- Quarterly groundwater sampling (six monitoring wells and PZ-3) and progress reporting

- 2010
  - December - Work Plan for Off-Site Characterization and Monitoring Well Installation
  - Quarterly groundwater sampling (six monitoring wells and PZ-3) and progress reporting
- 2011
  - March – On-Site well installation (MW-4s/d) and Off-Site well installation (5s/d, 6s/d) and DPT membrane interface probe, EC, and hydraulic profiling tool logging, and abandon PZ-3 (reported in 1st Quarter Progress Report)
  - Quarterly groundwater sampling (12 monitoring wells [all quarters] and PZ-3 [1st quarter only]), including MNA analyses, and progress reporting
- 2012
  - February – Memorandum on Continuing Reductive Dechlorination of PCE On and Near Property
  - Quarterly progress reporting, groundwater sampling 1st and 2nd quarter and second semi-annual sampling (12 monitoring wells)
- 2013
  - August – Implement Site Environmental Use Control (EUC)
  - Semi-annual groundwater sampling (12 monitoring wells) and progress reporting
- 2014
  - Semi-annual groundwater sampling (12 monitoring wells) and progress reporting

1.3 Purpose and Objectives

The objectives of the CI Report are as follows:

- Determine the lateral and vertical extent of soil and groundwater impacted by volatile organic compounds (VOCs) originating at the Site.

- Develop a Site Conceptual Model for human exposure.
- Collect data to support the evaluation and design of potential response actions.

A secondary objective was to evaluate whether off-Site sources contribute to impacts originating at the Site.

1.4 Report Scope and Organization

This CI Report is presented in the following sections:

Section Name and Number		Section Description
Section 1	Introduction	Presents objectives and organization of the CI report.
Section 2	History and Environmental Setting	Describes the history and environmental setting of the Site and surrounding area.
Section 3	Study Area Investigation Scope of Work	Presents the activities performed during the CI.
Section 4	Investigation Results	Presents the CI findings.
Section 5	Interim Remedial Measures	Presents a summary of interim actions to remediate soil at the Site.
Section 6	Human Health and Environmental Receptors	Evaluates potential routes of exposure to human and ecological receptors.
Section 7	Conclusions and Recommendations	Summarizes the nature and extent of soil and groundwater impacts, risks posed, and a preliminary screening of Remedial Action Alternatives.
Section 8	References	Bibliography of reference materials relied upon.
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2 History and Environmental Setting

This section provides a Site history and basic information regarding Site climate, topography, and geology.

2.1 Site History and Aerial Photography Review

The Site was acquired by Brenntag in July 2001 from HCI USA Distribution Company, which formerly acquired it from Advance Chemical Distribution, Inc. The Site has been used as a chemical storage and distribution facility and includes single building with combined office, warehouse and loading dock. Yards north and south of the building are used for shipping and receiving of packaged and bulk chemicals. The south yard historically contained aboveground tanks for storing acids, caustic and bleach. Historically solvents were received in bulk and transferred to drums on the south side of the facility; however, during Brenntag's ownership only pre-packaged solvents have been received for distribution to customers.

Available historical aerial photographs were obtained from Environmental Data Resources, Inc. (EDR) from 1960 to 2012. Fourteen photographs were obtained with a scale of 1-inch = 500 feet and most with adequate clarity. Present land use in the vicinity of the Site appears to have remained much as it was in the 1960 aerial photograph, with some exceptions noted in this subsection

In 1960, the Site and surrounding area show commercial and/or industrial development which extended approximately one block to the east and west and at least one-half mile north and south. Residential areas were present about two blocks west and several blocks northeast, east, and southeast of the Site. A building that is currently a school was located about one-quarter mile due east of the Site at the corner of Ohio Avenue and 15th Street. Further east, park land comprising what is now McAdams Park was present north of 13th Street. A large residential development was present south of the park and 13th Street.

In the 1970 aerial photograph, the Site and nearby surrounding areas generally reflect current conditions. The Site building is present as is the large silo immediately south of the Site. A north to south industrial corridor is present between Santa Fe Street and Wabash Avenue with residential property to the east and west. A baseball field was constructed on a previously undeveloped portion of McAdams Park east of the Site and north of 13th Street.

In the 1975 aerial photograph, Interstate 135 is visible along Chisholm Creek east of the Site. Residential properties east of the Site and north of 13th Street, generally between Wabash and Ohio Avenues which were visible in 1975, were not present in the 1981 aerial photograph. This area appears to have been cleared and redeveloped as part of McAdams Park.

Subsequent aerial photographs from 1985 to 2012 indicate that land use at and in the vicinity of the Site have remained essentially the same.

Historical aerial photographs from EDR are included in Appendix A.

2.2 Site Environmental Setting

2.2.1 Climate

The average annual precipitation for the City of Wichita is approximately 33 inches, including approximately 15 inches of snowfall. The average daily temperature is 57°F, with an average daily minimum temperature of 46°F and an average daily maximum temperature of 68°F. Approximately 62 days have a high temperature above 90°F and approximately 104 days have a low temperature below 32° annually. Wind is primarily from the south with an average wind speed of 12 miles per hour.

2.2.2 Topography and Drainage

The topography of the Site and surrounding areas was evaluated using the United States Geological Survey (USGS) Wichita East 7.5-minute quadrangle map dated 1961 and 2012. The Site is located in a relatively flat area between the Arkansas River to the west and Chisholm Creek to the east. The land surface slopes gently toward the west.

The Little Arkansas River flows south toward its confluence with the Arkansas River approximately one mile west of the study area. Chisholm Creek flows south through a concrete channel located approximately one-half mile east of the Site along Interstate 135.

2.2.3 Geology and Hydrogeology

The eastern part of Kansas, including Sedgwick County and the City of Wichita, is part of the North American craton, which is an area that has been tectonically stable throughout most of geologic time, with the exception of local uplifts and basins, including the Nemaha Uplift, the Salina Basin and the Central Kansas Uplift. Sedgewick County is part of the Arkansas River Lowlands section of the Central Lowland physiographic province, and is characterized by a low-relief surface formed by outwash plains from the Rocky Mountains.

The Arkansas River - Stream Valley Aquifer is present throughout Wichita and overlies Permian age rocks of the Western Interior province. The Stream Valley Aquifer System is a surficial aquifer that consists of unconsolidated sand and gravel limited to stream valleys. These deposits are Quaternary to Tertiary in age. In areas west of Wichita, the Stream Valley Aquifer is hydraulically connected to the High Plains Aquifer System. The Stream Valley Aquifer is primarily unconfined. This aquifer is ranked second in fresh water production in Kansas (USGS, 1997).

The Site lies within the Arkansas River alluvial valley. The Arkansas River lowlands have undergone a complex history of aggradation during the melting of various Pleistocene glaciations of the Rocky Mountains followed by erosion during both glacial and interglacial times. Recent alluvium overlay Pleistocene sand and gravel deposits related to various stages of valley filling. Alluvial valley fill deposits forms significant aquifers in places, especially along the Arkansas River Valley. Valley fill materials of Pleistocene age exceed 200 feet in thickness in places northwest of Wichita and are about 100 feet thick just west of Wichita.

At the Site, flat-lying alluvial sediments overlay the Wellington Formation, a shale-rich formation that forms the lower hydrologic confining layer for the alluvial aquifer. Alluvial sediments comprise an upward fining sequence of sand grading to silt and then to silty clay at the

surface. Overall, the unconsolidated interval is about 40 feet thick consisting of sand (grading upwards from coarse- to fine-grained sand) about 30 to 34 feet thick which grades to silt and clay in the upper 6 to 10 feet.

This upward fining sequence is typical of river-dominated or fluvial sedimentary systems. The coarsest sands are interpreted to represent channel deposits of the historical Arkansas River. While time-correlative sand, silt and clay were deposited across the river system in response to sediment supply and water energy, sediments in the main channel were more frequently reworked and finer sediments were winnowed leaving a relatively thick accumulation of sand. Over time the river system migrated westward (where it is presently located). Finer grained deposits consisting of fine sand, silt and then clay were deposited on flood plains in response to progressively lower water energy.

2.2.4 Wellington Formation

The Wellington Formation, consisting of Permian-age shale bedrock, underlies the study area at an approximate depth of 40 feet below ground surface (bgs). The Wellington Formation represents the practical lower limit of the overlying alluvial aquifer. Though the Wellington Formation may be used to supply water in areas not overlain by water-bearing beds, its water quality is poor, and this formation is generally not considered a source of potable water.

The following from Lane and Miller (1965) describes the Wellington Formation.

> *The part of the Wellington that crops out in Sedgwick County consists mostly of calcareous gray and blue-gray shale containing several thin beds of impure limestone, and thin beds of gypsum and anhydrite.*
>
> *The Wellington Formation forms the bedrock under about the eastern four-fifths of Sedgwick County and underlies the Ninnescah Shale in the remainder of the County. Where the Wellington Formation is near the surface east of the Arkansas Valley, the relatively soft shale and evaporates yield easily to erosion, and as a result the topography is gently rolling and rounded. In most of the County younger sediments cover the Wellington and surface exposures are scarce. The Formation ranges in thickness from about 80 feet along the east county line to about 550 feet along the west county line.*
>
> *The Wellington Formation is the only source of usable ground water in that part of the area where it is present and is not overlain by younger water-bearing beds. Most domestic and stock wells in the area east of the Arkansas Valley and many wells in the south-central part of the County derive water from the Formation. The quantity and quality of the water available differs with both the location and the method of construction of a well. In most cases the water is very hard or has other objectionable properties. Large-diameter dug wells finished in the weathered zone of the Wellington are common east of the Arkansas River. These wells are subject to failure during prolonged droughts, and when water is available from them, a high nitrate content in the water is commonly a problem.*

2.2.5 Historical Site Investigations

Several previous investigations have been performed at and near the Site. In 1990, Versar, Inc. conducted a Phase I Environmental Assessment at the Site prior to the sale of the property to Advance Chemical Distribution, Inc. Soil samples were taken during this assessment and screened with a photo ionization detector. Reportedly, this screening indicated possible soil impact.

Between 1997 and 2000, the City of Wichita conducted two Geoprobe® sampling events to collect groundwater samples. This sampling was part of the remedial investigation of the North Industrial Corridor (NIC) Site. Reportedly, concentrations of trichloroethylene (TCE), PCE, and vinyl chloride (VC) in shallow groundwater up-gradient of the Site exceeded the United States Environmental Protection Agency (USEPA) maximum contaminant levels (MCLs) for drinking water.

In February 2000, CJ Environmental conducted an investigation at the Site on behalf of HCI USA Distribution Companies, Inc. This investigation indicated that PCE, TCE and other organic chemicals were present in soil and shallow groundwater at the Site.

2.2.6 Related Study Areas

The Site lies within the larger NIC Site, comprising approximately 4,000 acres of land. On November 14, 1995, the City of Wichita entered into a Settlement Agreement with the KDHE, under which the City agreed to complete the investigation and remediation of the NIC. Brenntag is not party to the NIC Site.

3 Study Area Investigation Scope of Work

This section provides a description of activities performed to conduct the comprehensive investigation. Field activities were performed in accordance with KDHE-approved work plans.

3.1 Soil Investigation

This section details the methodology utilized for soil investigations in the source and down-gradient areas.

3.1.1 Source Area Soil Investigation – December 2003

The subsection summarizes preliminary field activities that were conducted December 1 through December 5, 2003, to begin definition of affected soil and groundwater at the Site and to provide the basis for further investigations. This work was performed in accordance with the October 13, 2003, CI/CAS Work Plan.

This investigation included advancing soil borings and collecting and analyzing soil samples, groundwater sampling (discussed below in Section 3.2.1), and near-surface soil sampling.

A report describing this work was submitted to KDHE and is provided in Appendix B.

3.1.1.1 Deep Soil Core Sampling

Two soil cores, DB-1 and DB-2, were installed on the northwest and southeast areas, respectively, of the Site to characterize the geologic media and depth to groundwater. The depth to bedrock in both borings was 39 feet bgs and the depth to water was 20 and 15 feet bgs, respectively. At both locations, an upward fining sequence was observed above the shale bedrock consisting of coarse sand, medium sand, fine sand, silty fine sand and silty clay.

3.1.1.2 Near-surface Soil Sampling

In the southeast and northeast portions of the property, soil cores were collected to better define two areas of apparent near-surface impact. Nine borings were advanced in the northeast portion of the Site and fifteen borings were advanced in the southeast portion of the Site. Soil samples were collected at each boring location including from about 1.0 to 1.5 feet bgs, 3.0 to 3.5 feet bgs, and one deeper interval based on field screening.

3.1.2 Additional Source Area Soil Investigation – August & September 2004

The subsection summarizes field activities that were conducted in August and September 2004 to define the extent of soil impact on the south side of the facility and to confirm the direction of groundwater flow. These activities were performed in accordance with the May 28, 2004, Work Plan for Piezometers and Additional Soil Sampling and the October 13, 2003, CI/CAS Work Plan.

This work included installation of three piezometers to monitor water levels (described below in Section 3.2.2).

Six soil borings were each advanced to a depth of 8 feet bgs and two to three soil samples were collected from each boring and analyzed for the chemicals of potential concern (COPCs). Soil

types were consistent with those noted in the December 2003 investigation event (from ground surface: silty clay, clay, and typically at 6 to 8 feet, fine sand).

Soil analytical results from these and prior samples were used to define the extent of soil impacted above Risk-Based Standards for Kansas (RSK) values for the soil-to-groundwater pathway. A report describing this work was submitted to KDHE and is provided in Appendix C.

An Interim Remedial Measure for Soil was subsequently conducted August 27 to September 14, 2007, which resulted in the removal of impacted soil from the Site.

A report describing this work was submitted to KDHE and is provided in Appendix D.

3.1.3 Down-gradient Soil Investigation – March 2009

The subsection summarizes the field activities performed March 9 to March 11, 2009, to trace the extent of impacted groundwater believed to originate on Brenntag property and which may have migrated onto one or more down-gradient properties (described in Section 3.2.4 below). EC logging was also conducted to characterize soil types across the study area. These activities were performed in accordance with the July 18, 2008, Work Plan for Off-Site Investigations and the October 13, 2003, CI/CAS Work Plan.

Using DPT, EC logs were collected at eight locations including up-gradient along Barwise Street (EC-1 and EC-2), down-gradient along Mosley Street (EC-3, EC-4, EC-5, and EC-6), and down-gradient along 13th Street (EC-7 and EC-8).

This work showed that the thickness of soil across the study area ranges from about 36 to 39 feet. Near-surface silt and clay is present at depths from about 8 to 10 feet thick, below which sand is present. Silt interbeds are locally present, for example in EC-2 (on Barwise Street) from about 16.5 to 18 feet bgs and in EC-3(on north Mosely Street) from approximately 21.5 to 23.5 feet bgs, which appear to pinch-out and not be present in the southern and eastern parts of the study area (south Mosely and 13th Streets).

A report describing this work was submitted to KDHE and is provided in Appendix E.

3.2 Groundwater Investigation

This section provides a description of field activities performed as part of the comprehensive groundwater investigation.

3.2.1 On-Site DPT Groundwater Screening – December 2003

The subsection summarizes preliminary field activities that were conducted December 1 through December 5, 2003, to begin definition of impacted groundwater at the Site and to provide the basis for further investigations. These activities were performed in accordance with the October 13, 2003, CI/CAS Work Plan.

DPT was used to collect groundwater samples in the upper and lower parts of the water bearing zone at eight locations to evaluate potential stratification of impacted groundwater. Groundwater

from the upper part of the saturated zone was collected from 14 to 19 feet bgs and groundwater from the lower part of the saturated zone was collected from 35 to 39 feet bgs.

Shallow groundwater exceeded RSK standards for PCE, TCE, and cis-1,2-DCE and deeper groundwater exceeded RSK standards for TCE, cis-1,2-DCE, and VC.

A report describing this work was submitted to KDHE and is provided in Appendix B.

3.2.2 Piezometer Installation and Gauging – August and September 2004

This subsection summarizes the field activities that were conducted in August and September 2004 at the Site to confirm the direction of groundwater flow. These activities were performed in accordance with the May 28, 2004, Work Plan for Piezometers and Additional Soil Sampling, and the October 13, 2003, CI/CAS Work Plan.

Using DPT, three narrow-gauge piezometers (one-inch outer diameter, polyvinyl chloride [PVC] construction) were installed across the water table. Water levels were measured in the piezometers to confirm groundwater flow direction. Water levels were measured on August 11, August 24, and September 7, 2004. The direction of groundwater flow was determined to be to the east and southeast.

A report describing this work was submitted to KDHE and is provided in Appendix C.

3.2.3 On-Site Monitoring Well Installation at Well Locations 1, 2 and 3 – January 2008

Three pairs of groundwater monitoring wells were installed at the Site on January 14 to 16, 2008. At each of three locations, one well was installed approximately 40 feet bgs with 5-feet of screen from approximately 35 to 40 feet; and a second well was installed to a depth of approximately 25 feet with 10 feet of screen from approximately 15 to 25 feet, as follows.

1. Up-gradient. One well pair (MW-1s “shallow” and MW-1d “deep”) was installed near the north boundary of the site to monitor groundwater entering the site.

2. Down-gradient. One well pair (MW-2s and MW-2d) was installed near the south boundary of the site to monitor groundwater leaving the site. This monitoring well pair was installed immediately adjacent to the Interim Remedial Measure for Soil excavation area.

3. Cross-gradient. One well pair (MW-3s and MW-3d) was installed east of the Interim Remedial Measure for Soil excavation area to facilitate triangulation.

A report describing this work was submitted to KDHE and is provided in Appendix F.

Well construction details for site monitoring wells are included in a table in Section 4.2.4.

3.2.4 Off-Site DPT Groundwater Screening – March 2009

This subsection summarizes field activities performed March 9 to March 11, 2009, to trace the extent of impacted groundwater believed to originate on Brenntag property. These activities were performed in accordance with the July 18, 2008, Work Plan for Off-Site Investigations and the October 13, 2003, CI/CAS Work Plan.

Using DPT, groundwater samples were collected from eleven locations and three depths representing the deeper, middle and shallow parts of the water-bearing zone to evaluate potential stratification of impacted groundwater. Groundwater samples were collected from approximately 12 to 17 feet, from 16 to 27 feet, and from 30 to 39 feet.

This work identified the presence of COPCs in groundwater and led to the selection of additional monitoring well locations.

A report describing this work was submitted to KDHE and is provided in Appendix E.

3.2.5 Monitoring Well Installation at Well Locations 4, 5 and 6 – March 2011

This subsection summarizes the field activities performed March 21 to March 24, 2011, to install groundwater monitoring wells at one on-Site location (location 4) and at two off-Site locations (locations 5 and 6). These activities were performed in accordance with the December 16, 2010 Work Plan for Off-Site Characterization and Monitoring Well Installation and the October 13, 2003, CI/CAS Work Plan.

Three locations were investigated from land surface to bedrock refusal using membrane interface probe (MIP), hydraulic profiling tool (HPT), and EC logging, including one location on Brenntag property and two locations on the City right-of-way along Mosley Street. EC logging was utilized to determine soil types, HPT was used to evaluate the relative permeability of the soil formation, and MIP was used to indicate total VOCs in groundwater.

The two DPT screening locations along Mosely Street also served as monitoring well locations. Well pairs (shallow and deep) were installed and developed at each location (MW-5s & MW-5d and MW-6s & MW-6d). The four groundwater monitoring wells were installed on City right-of-way (ROW) and constructed using 2-inch PVC screen and riser pipe in accordance with KDHE-approved work plans.

The on-Site piezometer (PZ-3) was also abandoned and two monitoring wells (MW-4s and MW-4d) were installed adjacent to PZ-3.

Well construction details for site monitoring wells are included in a table in Section 4.2.4.

A report describing this work was submitted to KDHE and is provided in Appendix G.

3.2.6 On- and Off-Site Routine and Non-Routine Monitoring Well Sampling

On-site groundwater wells were sampled using a no-purge HydraSleeve® technique. HydraSleeve® samplers were deployed in the wells on January 30, 2008. The first event to sample water quality was performed on February 7, 2008.

After completion and development of the off-site monitoring wells in March 2011, HydraSleeve® samplers were deployed and the groundwater wells were sampled quarterly using the no-purge HydraSleeve® technique.

3.2.6.1 Piezometer Sampling and Abandonment

In the November 29, 2007, response to Work Plan letter KDHE recommended and Brenntag agreed to use PZ-1 as a groundwater elevation measuring point and to collect groundwater samples from PZ-3 since it was located immediately down-gradient of the southwestern corner of the excavation conducted during the Interim Remedial Measure for Soil field activities. PZ-3 was first sampled on February 7, 2008, representing shallow groundwater, and was sampled quarterly until April 2011 when it was abandoned.

During the January 2008 monitoring well installation event it was discovered that PZ-1 had been covered during an addition to the shipping and receiving dock on the north side of the Brenntag facility and was inaccessible. PZ-2 was abandoned during well installation activities.

3.2.6.2 Additional Groundwater Analyses to Assess In-Situ Remediation Technologies – August 2008

On July 18, 2008, Brenntag submitted a Work Plan for Additional Groundwater Analyses to Assess In-Situ Remediation Technologies. This work plan included collection of an expanded suite of field and groundwater parameters during the August 2008 sampling event from four on-Site groundwater monitoring wells.

VOC sampling, as previously approved by KDHE, was performed using the currently installed HydraSleeve® sampling bags. A low-flow pump was then used to obtain field parameters and additional water samples for laboratory analysis from the four wells including MW-1s/1d and MW-2s/2d. These additional measurements and analyses included:

- Total iron and manganese
- Total alkalinity (as CaCO3)
- Total hardness
- Sulfide
- Nitrate (as N) and Nitrite (as N)
- Bromide
- Sulfate
- Nitrogen (NO2 plus NO3)
- Total Organic Carbon

3.2.6.3 Additional Off-Site Groundwater Analyses

The off-Site monitoring wells (MW-5s/d and MW-6s/d) were sampled using HydraSleeve® technology on the quarterly schedule established for existing wells. The scope of quarterly groundwater sampling was modified during the first and third quarter of 2011. Samples were collected for VOC analysis at all monitoring well locations using HydraSleeve® technology. The following water quality parameters were collected at select wells using low-flow sampling

technique during the first and third quarter of 2011 to also include certain water quality parameters including:

- Field parameters (temperature, specific conductance, pH, oxygen reduction potential, dissolved oxygen)
- Ferrous iron (using a field test kit)
- Total iron and manganese
- Total alkalinity (as CaCO3)
- Total hardness
- Sulfide
- Nitrate (as N) and Nitrite (as N)
- Bromide
- Sulfate
- Nitrogen (NO2 plus NO3)
- Total Organic Carbon
- Methane, ethane and ethane

3.3 Compound Specific Isotope Analysis

This section provides a description of field activities performed as part of the compound specific isotope analysis of chlorinated ethenes (CEs) in groundwater.

3.3.1 Pre- and Post-Soil Excavation Groundwater Sampling

Groundwater samples were obtained using DPT in 2004 from two depths (nominally 17 and 37 feet below ground) at eight sampling locations at the Site to assess the nature and extent of COPCs in groundwater. These analyses represented groundwater quality before the excavation of impacted soil.

Additional DPT groundwater samples were collected in March 2009, approximately 18 months after the Interim Remedial Measure for Soil was completed. These samples were collected from off-Site areas generally down-gradient of the Brenntag property at three depths (nominally 15, 25, and 35 feet bgs) at 11sampling locations and analyzed for the same COPCs.

3.3.2 Groundwater Sampling for Compound Specific Isotope Analysis

For this study, the scope of quarterly groundwater sampling was expanded during the first and third quarter of 2011. Water samples from on-Site monitoring wells MW-3s and MW-3d and down-gradient monitoring wells MW-4s, MW-4d, MW-5s, and MW-5d were analyzed for VOCs, selected water quality parameters (listed in Section 3.2.6.3) and compound specific isotope analysis (CSIA). CSIA of groundwater, specifically carbon and chlorine stable isotopes, was conducted to help estimate timeframes over which VOCs have been present in groundwater and to help distinguish between multiple VOC sources, if present.

Groundwater analyses of DPT and monitoring well samples, including COPCs, water quality parameters, and CSIA provide information regarding the response of groundwater to the Interim Remedial Measure for Soil and the potential for natural degradation of COPCs over time, as discussed in Section 4.

3.4 Applicable or Relevant and Appropriate Requirements Analysis

The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (1980), as amended by the Superfund Amendments and Reauthorization Act (SARA) (1986), stipulates that the cleanup standards or controls for hazardous substances, pollutants or contaminants be at least in accordance with any applicable or relevant and appropriate requirements (ARARs), designated under state or federal law (CERCLA121(d)). Applicable requirements are those cleanup standards or controls that are promulgated under state or federal law that specifically address a hazardous substance, pollutant or contaminant, action, location or other situation at the Site. Relevant and appropriate requirements are those cleanup standards or controls that do not specifically or fully address a hazardous substance, pollutant or contaminant, action, location or other situation at a site, but address similar situations.

Remedial actions must meet any Federal or State standards, requirements, criteria, or limitations that are determined to be legally applicable or relevant and appropriate requirements. Each of the five alternatives was evaluated based on the three general ARAR categories: chemical-specific ARARs, location-specific ARARs, and action-specific ARARs, as discussed in more detail below. Other policies or guidelines that are to be considered (TBC) standards for the site may also be required. The TBC standards have not been promulgated but are used in conjunction with ARARs to achieve acceptable risk levels at a site.

A summary of the ARARs analysis is presented in Table 1.

3.4.1 Chemical-Specific ARARs

Chemical-specific ARARs are standards pertaining to the amount or concentration of a chemical allowed or discharged in the environment. These values are derived from health- or risk-based calculations incorporating the chemical characteristics, the media of concern, and potential exposure pathways. Groundwater MCLs for the contaminants of concern (COCs) were identified in Federal standards (40 CFR 141.61) and in State standards (Kansas – Title 28).

3.4.2 Location-Specific ARARs

Location-specific ARARs are used to identify and protect unique or sensitive areas, such as historic areas, wetlands, ecosystems, and endangered species, but also serve to prevent potential hazards associated with working in floodplains or geologically unstable regions. Additional regulations regarding zoning ordinances are also location-specific ARARs.

Environmental use controls are location-specific ARARs generally used to reduce the risk of chemical exposure to receptors by providing legal notice and/or restricting access or use of property containing impacted media. Such controls may be applied to both soil and groundwater. Environmental use controls are commonly developed to address issues at sites owned by a particular individual or business. When this is impractical, such as when impacted groundwater extends beneath a residential area, environmental use controls may be developed by state or municipal governments.

3.4.3 Action-Specific ARARs

Action-specific ARARs are utilized to determine activity or technology based restrictions on remediation proposals. These requirements may be imposed based on the chemical and

disposal/treatment method employed. Several regulations were identified that may impose restrictions on the remediation proposals, including standards outlined in the Occupational Safety and Health Act (OSHA), the Clean Air Act (CAA), the Clean Water Act (CWA), the Resource Conservation and Recovery Act (RCRA), and the Toxic Substance Control Act (TSCA) and analogous state rules and regulations. Additional action-specific ARARs include requirements for construction permits and adhering to building codes.

4 Investigation Results

This section provides an overview of the results of the comprehensive investigation activities described in Section 3.

4.1 Soil

This subsection summarizes the results of soil investigation activities.

4.1.1 Source Area Soil Sampling – December 2003

Based upon photoionization detector (PID) readings, field observations, and consultation with the on-Site KDHE representative, six soil samples from the northeast portion of the property and fifteen soil samples from the southeast portion of the property were selected for VOCs analyses.

Analytical results were compared to the RSK values (3rd Version, March 1, 2003) including the "water protection pathway" and "groundwater pathway" for non-residential scenarios, as summarized below:

- Shallow soil in the northeast portion of the Site did not exceed RSK values for the COPCs.

- Certain areas of shallow soil in the southeast portion of the Site were found to exceed RSK values for PCE, TCE, cis-1,2-DCE, and 1,2-dichloroethane (1,2-DCA).

This work is detailed in the report titled *Phase 1 Activities Technical Memorandum*, dated February 20, 2004, and included in Appendix B of this report.

4.1.2 Additional Source Area Soil Sampling – August & September 2004

Fourteen additional soil samples from the property were analyzed for VOCs and compared to RSK values for the "soil protection pathway" and the "soil to groundwater pathway" for non-residential scenarios, as summarized below:

- Soil boring SSB-17 contained a PCE concentration of 1,300 micrograms per kilograms (µg/kg), which exceeded the non-residential soil to groundwater protection standard of 180 µg/kg for PCE.

- The remaining soil samples were either non-detect for VOCs or were below the soil protection pathway and soil to groundwater pathway for non-residential scenarios values.

This work is detailed in the report titled *Piezometers and Additional Soil Sampling Report*, September 30, 2004, and included as Appendix C of this report.

The analytical results of the two soil investigations described above were used to determine the extent of soil impact and to conduct the Interim Remedial Measure for Soil.

4.1.3 Down-gradient Soil – March 2009

DPT EC logs were collected at eight locations to evaluate soil characteristics affecting groundwater flow. All EC logs extended from the ground surface to probe refusal on bedrock.

- EC-1 and EC-2 were up-gradient logs collected along Barwise Street. At EC-1 and EC-2 silt and clay was found from ground surface to approximately 8 feet bgs. Sand was identified from 8 feet to approximately 39 feet bgs. A silt layer is present in EC-2 from about 16.5 to 18.0 feet bgs.

- EC-3, EC-4, EC-5, and EC-6 were down-gradient logs collected along Mosley Street. Silt and clay was found from ground surface to approximately 10 feet bgs. Sand was identified from 10 feet to approximately 36 feet bgs. A silt interbed in EC-3, from approximately 21.5 to 23.5 feet bgs, pinches out and generally is not present in the southern and eastern parts of the study area.

- EC-7 and EC-8 were down gradient logs collected along 13th Street. Silt and clay was found from ground surface to approximately 8 feet bgs. Sand was identified from 8 feet to approximately 38 feet bgs with few silt interbeds.

This work is described in the report *Off-Site DPT Groundwater Investigations*, dated June 10, 2009, and included as Appendix E of this report.

4.2 Groundwater

As introduced in Section 2.2.3, a shallow aquifer exists in the study area composed of alluvial deposits and overlying shale bedrock. The water table at the Site is generally about 11 to 15 feet below land surface and saturated sands extend to the top of shale bedrock at a depth of approximately 40 feet bgs. Groundwater flow is generally to the south or southeast.

This subsection summarizes the groundwater quality and water level measurements obtained during the CI, including groundwater sampling from DPT screen-point samplers, piezometers, and groundwater monitoring wells.

4.2.1 On-Site DPT Screening – December 2003

Initial DPT groundwater sampling was conducted December 1 through December 5, 2003, to evaluate groundwater quality relative to RSK values (3rd Version, March 1, 2003) for the “water protection pathway” and “groundwater pathway” for non-residential scenarios, as summarized below:

- Groundwater results for pH were near neutral.

- The north and west part of the Site exhibited little if any VOC impacts in shallow groundwater though some VOC detections were found in the deeper groundwater. However, the south and east part of the Site exhibited the highest VOC concentrations in shallow groundwater.

- The highest recorded concentrations in DPT groundwater samples that exceeded RSK standards were:

- Shallow Groundwater
  - PCE at 590 (RSK = 5 µg/L)
  - TCE at 57 µg/L (RSK = 5 µg/L)
  - cis-1,2 DCE at 200 µg/L (RSK = 70 µg/L)

- Deep Groundwater
  - TCE at 170 µg/L (RSK = 5 µg/L)
  - cis-1,2 DCE at 220 µg/L (RSK = 70 µg/L)
  - VC at 4.7 µg/L (RSK = 2 µg/L)
  - 1,2-DCA at 6.8 µg/L (RSK = 5 µg/L)

This work is detailed in the report titled *Phase 1 Activities Technical Memorandum*, dated February 20, 2004, and included as Appendix B of this report.

4.2.2 Piezometer Installation and Gauging – August and September 2004

In August 2004, three piezometers (PZ-1, PZ-2 and PZ-3) were installed at the Site to measure groundwater levels and to determine the direction of groundwater flow. Groundwater levels were measured on August 11, August 24, and September 7, 2004 and the groundwater flow direction was determined to be toward the southeast.

This work is detailed in the report titled *Piezometers and Additional Soil Sampling*, dated September 30, 2004, and included as Appendix C of this report.

4.2.3 Off-Site DPT Screening – March 2009

This subsection summarizes DPT groundwater screen-point sampling performed at eleven locations from March 9 to March 11, 2009. Groundwater samples were collected from three depth intervals for analysis. These samples post-date the Interim Remedial Measure for Soil.

This work, including a map of drilling locations, is detailed in the report titled *Off-Site DPT Groundwater Investigations*, June 10, 2009, and is included as Appendix E of this report. The report included a comparison of COPC concentrations from on-Site monitoring wells and off-Site DPT sampling to evaluate background, on-Site, and down-gradient concentrations, as described below:

4.2.3.1 PCE

PCE occurred primarily in the shallow and middle zones, but is essentially absent in the deep zone. Down-gradient concentrations exceed on-Site concentrations.

Shallow Zone:

- Background concentrations ranged from non-detect (ND) (GW-2) to 3.5 µg/L at GW-1.
- The on-Site concentration was 12.7 µg/L (PZ-3).
- Down-gradient concentrations ranged from ND to 39.8 µg/L (GW-5).

Middle Zone:

- Background concentrations were ND (GW-2, GW-2, MW-1S).

- On-Site concentrations ranged from 16.5 µg/L (MW-3S) to 19.4 (MW-2S).
- Down-gradient concentrations ranged from ND to 156 µg/L (GW-6).

Deep Zone:

- Essentially all concentrations in the deep DPT zone were ND or below MCLs.

4.2.3.2 TCE

TCE occurred in the shallow, middle, and deep DPT zones, with higher concentrations in the middle zone (north part of Mosely Street) and in the deep zone (south part of Mosely Street). TCE was a common background contaminant at concentrations generally comparable to or slightly lower than on-Site concentrations. In all zones, on-Site TCE concentrations were lower than at off-Site locations.

Shallow Zone:

- Background concentrations were ND.
- The on-Site concentration was 1.1 µg/L (PZ-3).
- Down-gradient concentrations ranged from ND to 20.2 µg/L (GW-8).

Middle Zone:

- Background concentrations ranged from 1.0 (MW-1S) to 4.4 µg/L (GW-2).
- On-Site concentrations ranged from 1.1 µg/L (MW-2S) to 12 µg/L (MW-3S).
- Down-gradient concentrations ranged from 2.7 µg/L (GW-11) to 44.8 µg/L (GW-4 & GW-5).

Deep Zone:

- Background concentrations ranged from 1.6 µg/L (MW-1D) to 10 µg/L (GW-1).
- The on-Site concentrations ranged from 6.0 µg/L (MW-2D) to 6.5 µg/L (MW-3D).
- Down-gradient concentrations ranged from 1.6 to 66.5 µg/L (GW-8).

4.2.3.3 Cis-1,2 DCE

Cis-1,2 DCE was present in shallow, middle, and deep DPT zones, and generally increases with depth. Detections in the shallow and middle zones are generally less than the MCL of 70 µg/L; however the MCL was more widely exceeded in the deep zone. This compound is a TCE degradation product.

Shallow Zone:

- Background concentrations ranged from 3.0 (GW-2) TO 4.9 µg/L (GW-1).
- The on-Site concentration was 1.2 µg/L (PZ-3).
- Down-gradient concentrations ranged from 7.1 µg/L to 54.5 µg/L (GW-5).

Middle Zone:

- Background concentrations ranged from 6.2 µg/L (GW-1) to 26.5 µg/L (GW-2).
- On-Site concentrations ranged from ND (MW-2S) to 1.5 µg/L (MW-3S).
- Down-gradient concentrations ranged from 9.0 µg/L (GW-11) to 71.8 µg/L (GW-8).

Deep Zone:

- Background concentrations ranged from 30.7 µg/L (MW-1D) to 65.6 µg/L (GW-1).

- The on-Site concentrations ranged from 17.4 µg/L (MW-2D) to 110 µg/L (MW-3D).
- Down-gradient concentrations ranged from 32.7 µg/L to 118 µg/L (GW-5 & GW-3).

4.2.3.4 Vinyl Chloride

VC was present in shallow, middle, and deep DPT zones, and generally increases with depth. Detections in the shallow and middle zones were generally less than the MCL of 2 µg/L, except at two locations along Mosely Street (GW-7 and GW-8); however VC detections and exceedances of the MCL occurred more widely in the deep zone. This compound is a cis-1,2-DCE degradation product.

Shallow Zone:

- Background concentrations were ND.
- The on-Site concentration was ND (PZ-3).
- Down-gradient concentrations ranged from ND to 7.3 µg/L (GW-7).

Middle Zone:

- Background concentrations were ND.
- On-Site concentrations were ND (MW-2S & MW-3S).
- Down-gradient concentrations ranged from ND to 13.5 µg/L (GW-8).

Deep Zone:

- Background concentrations ranged from ND (MW-1D) to 7.1 µg/L (GW-1).
- The on-Site concentrations ranged from ND (MW-2D) to 2.9 µg/L (MW-3D).
- Down-gradient concentrations ranged from ND to 3.5 µg/L (GW-5).

4.2.3.5 Other Detections

This sampling also detected chemical compounds in off-Site groundwater along 13th Street and near the intersection of 13th and Mosley Streets that have not been detected at the Site. The following compounds, among others, were detected above RSK values for groundwater: benzene; naphthalene; n-butylbenzene; n-propylbenzene; sec-butylbenzene; and toluene. A comparison of compounds and their maximum on-Site and off-Site detections is included in Table 2 of Appendix E.

4.2.4 Routine Groundwater Monitoring

Quarterly groundwater monitoring wells MW-1s/d, MW-2s/d, MW-3s/d and PZ-3 were installed on-Site and sampled beginning in 2008. This work is detailed in the report titled *Report for Well Construction and Sampling*, March 8, 2008, and is included in Appendix F of this report.

In 2011, off-Site wells (MW-5s/d and MW-6s/d) were installed and added to the quarterly sampling routine. At this time PZ-3 was abandoned and replaced with on-Site well pair MW-4s/d. This work is detailed in the *First Quarter 2011, Quarterly Progress Report*, dated April 29, 2011, and included as Appendix G of this report.

Quarterly sampling continued for the first two quarters of 2012 for both on- and off-Site wells after which KDHE approved semi-annual groundwater monitoring beginning in October 2012. Semi-annual groundwater monitoring and reporting (April and October) is ongoing.

The monitoring wells were constructed as follows:

Well Name	Screen Depth	Total Depth
MW-1s	15.0 to 25.0	25.5
MW-1d	32.0 to 37.0	37.5
MW-2s	15.0 to 25.0	25.5
MW-2d	31.0 to 36.0	36.5
MW-3s	15.0 to 25.0	25.5
MW-3d	33.0 to 38.0	38.5
MW-4s	15.0 to 25.0	25.4
MW-4d	32.5 to 37.5	38.0
MW-5s	16.0 to 26.0	26.2
MW-5d	29.0 to 34.0	34.2
MW-6s	16.0 to 26.0	26.4
MW-6d	28.0 to 33.0	33.6

4.2.5 October 2014 Groundwater Monitoring Results

The following is a summary of key conclusions derived from groundwater monitoring and representing current (October 2014) conditions. This work is detailed in the *Second Semi-Annual 2014, Progress Report*, dated January 21, 2015, and included as Appendix H of this report. Historical analytical data through October 2014 are summarized in Tables 2 and 3 of this report. Isoconcentration maps of PCE and TCE in groundwater for spring sampling events from 2011 to 2014 are included in Figures 3 through 6 of this report. These maps minimize seasonal effects on water quality.

4.2.5.1 Summary

In October 2014:

- Groundwater analytical results did not exceed Residential RSK values for groundwater in monitoring wells: MW-1s; MW-1d; MW-2s; MW-2d; MW-3d; MW-4s; MW-4d; and MW-5s.

- Groundwater analytical results did exceed Residential RSK values for groundwater for one or more chemicals of concern for the following wells: MW-3s (for PCE); MW-5d (for TCE); MW-6s (for PCE and TCE); and MW-6d (for TCE).

- The compounds 1,2-DCE and vinyl chloride were not detected above Residential RSK values for groundwater.

- The concentration COPCs detected in groundwater have declined since the soil removal action conducted in 2007.

- On-to-Site migration of TCE and 1,2-DCE in both shallow and deep groundwater has occurred from properties up-gradient of the Brenntag property; however, generally at concentrations below Residential RSK values.

4.2.5.2 PCE in Groundwater

In October 2014:

- Shallow-groundwater PCE concentrations in on-site monitoring wells (MW-1s, MW-2s, MW-3s, and MW-4s) ranged from less than 0.001 milligrams per liter (mg/L) to 0.0193 mg/L. Off-site monitoring wells (MW-5s and MW-6s) showed PCE concentrations ranging from 0.0043 mg/L to 0.0315 mg/L.

- Deep-groundwater PCE concentrations in on-site monitoring wells (MW-1d, MW-2d, MW-3d, and MW-4d) were all less than 0.001 mg/L. Off-site monitoring wells (MW-5d and MW-6d) show PCE concentrations ranging from 0.00064J mg/L to less than 0.001 mg/L. These values do not exceed the Residential RSK PCE level of 0.005 mg/L.

4.2.6 TCE in Groundwater

In October 2014:

- Shallow-groundwater TCE concentrations in on-site monitoring wells ranged from 0.00082J to 0.0024 mg/L. These values do not exceed the Residential RSK PCE level of 0.005 mg/L. Off-site monitoring wells showed TCE concentrations ranging from 0.0038 to 0.0136 mg/L.

- Deep-groundwater TCE concentrations in on-site monitoring wells range from 0.0010 to 0.0019 mg/L. These values do not exceed the Residential RSK TCE level of 0.005 mg/L. Off-site monitoring wells show TCE concentrations ranging from 0.0116 to 0.0136 mg/L.

4.3 Supplemental Groundwater Data Evaluations

In an effort to more fully understand the evolution of COPC chemistry in groundwater at and in the vicinity of the Site, Brenntag conducted two data evaluations.

In 2009, historic groundwater data was synthesized and patterns indicating reductive dechlorination were identified. This work is detailed in the Memorandum on *Reductive Dechlorination of PCE On and Near Property*, dated August 25, 2009, and is included in Appendix I of this report.

In 2012 historic groundwater data, water quality parameters, and Compound Specific Isotope Analyses of groundwater, specifically carbon and chlorine stable isotopes, were synthesized and evaluated. This work is detailed in the Memorandum on *Continuing Dechlorination of PCE On and Near Property*, dated February y 1, 2012, and is included in Appendix J of this report.

Key conclusions from these evaluations relevant to the objectives of this CI Report and useful for the development of remedial alternatives for Site groundwater are summarized below.

- The excavation of Site soil containing PCE essentially eliminated this prior source of PCE leaching from soil to groundwater.

- Residual PCE in on-Site groundwater is being degraded by reductive dechlorination, as demonstrated by decreasing concentrations of PCE and co-varying concentrations of dechlorination products TCE and cis-1,2-DCE. Reductive dechlorination is also degrading TCE formed from on-site PCE.

- PCE is found in both on-Site and off-Site shallow wells, but not deep wells, indicating that PCE impacting shallow groundwater undergoes limited vertical migration.

- DCE is the dominant CE in deep groundwater under the Site and is uniformly present at much greater levels than in shallow groundwater near the past on-Site PCE source. As the impacts related to historical Site operations attenuate, up-gradient, off-Site sources are becoming the dominant source of TCE and DCE in groundwater under the Brenntag property.

4.3.1 Potential Off-Site Sources

Groundwater data was also evaluated to determine if off-Site impacts to groundwater quality were indicated.

4.3.1.1 Up-gradient Sources

As described previously, groundwater monitoring wells MW-1s and MW-1d are used to monitor groundwater quality at the up-gradient edge of the Site. TCE and particularly DCE, at concentrations generally less than Kansas RSK standards, are flowing onto the Brenntag property from up-gradient, off-site sources. Especially in deeper groundwater, there appears to be a regional background of TCE and DCE that co-varies.

4.3.1.2 Down-gradient Source

PCE has been observed in groundwater at off-Site wells MW-5s and MW-6s which indicates to Brenntag that an off-Site, down-gradient source of PCE is present. Data supporting this conclusion is presented in Appendices I and J. KDHE has stated disagreement with this interpretation and attributes impacts at well locations 5 and 6 to Brenntag. Brenntag has proposed plans to further investigate and collect data that might resolve this matter; however was unable to gain access to property between the Site and Mosely Street.

However, PCE concentrations in these wells have shown significant decline since the wells were installed in March 2011. In well MW-5s, the concentration of PCE in March 2011 was 0.0279 mg/l and by October 2014 had declined steadily to 0.0043 mg, below the RSK. In well MW-6s, the concentration of PCE also had declined steadily from 0.181 mg/l in March 2012 to 0.0315 mg/l in October 2014.

As stated in Section 4.2.3.5, other dissolved compounds were also observed in groundwater near 13th and Mosley Streets that were not detected at the Site.

4.4 Groundwater Flow and Flow Direction

A shallow, unconfined aquifer is developed in alluvial sediments at the Site. The aquifer is bound on the bottom by Wellington shale bedrock and is developed in porous and permeable sand overlying bedrock.

Groundwater recharge originates from regional and local sources. Regionally, the study area is located down-gradient of large agricultural areas located north and northwest of Wichita. Precipitation infiltration over this large area is expected to source much of the groundwater within the study area. Precipitation recharge from the land surface to the water table is considered to be less significant due to shallow, clay-rich soil and common impervious surfaces in the vicinity of the Site, such as streets, parking lots, and roofs.

On October 2, 2009, groundwater elevations were collected from seven wells located within one-quarter mile from the Site. These wells are owned by the City of Wichita and groundwater elevations were collected by Geotechnical Services, Inc. (GSI). Results of this groundwater elevation survey indicated that regional groundwater flow is to the southeast. This work is detailed in the report *Regional Groundwater Elevation Survey Results Summary Memo*, dated November 2, 2009, and is included in Appendix K of this report.

A southeasterly groundwater flow direction is also consistent with regional shallow groundwater flow determined by Lane and Miller (1965).

Site groundwater flow is also indicated to be southeasterly based on routine groundwater monitoring conducted from 2008 to 2014 and as confirmed in October 2014. Groundwater elevations through October 2014 are included in Table 4 of this report. Quarterly groundwater elevation maps for spring sampling events from 2011 to 2014 are included in Figure 7. These maps minimize seasonal effects on groundwater elevation. Quarterly groundwater elevation maps for 2011 are included in Figure 8 to demonstrate seasonal water table fluctuations.

Annual groundwater fluctuations in well MW-3s, in the on-Site area of impact, ranged from 0.58 to 1.39 feet for the period from 2008 to 2011 when quarterly water level readings were conducted. The highest water levels were during the summer and the lowest during winter.

4.5 Hydraulic Testing

Hydraulic testing of Site wells was conducted on August 29, 2008 using a pneumatic slug testing device, pressure transducer, and a data logger. This work is detailed in the *Third Quarter 2008 Progress Report*, dated October 30, 2008, and is included in Appendix L of this report.

Slug tests were conducted on each monitoring well in order to estimate hydraulic conductivity values for the site. A pneumatic slug was used to initiate a water level change while a pressure transducer recorded the water level recovery to static conditions. The resultant data was analyzed using AQTESOLV, a software program designed for the analysis of aquifer tests, using the Butler 1998 solution.

The groundwater flow rate, or seepage velocity, was estimated for shallow wells installed in fine to medium sand and for deeper wells installed in medium to coarse sand using Darcy's Law, as presented below:

$$V_s = \frac{q}{n} = \frac{Q/A}{n} = \frac{K\, dh/dl}{n}$$

where

V_s = seepage velocity
q = Q/A = specific discharge or discharge per unit area of cross-sectional flow
n = porosity (in decimal form)
Q = discharge
A = the area of cross-sectional flow
K = hydraulic conductivity
dh/dl = hydraulic gradient

Key inputs include hydraulic gradient, hydraulic conductivity and porosity as follows:

- Hydraulic gradient was determined from water level measurements and found to be approximately 0.00145 feet per feet (ft/ft).

- Hydraulic conductivity was determined from well tests and found to be approximately 138 ft/day for shallow wells installed in finer sands and approximately 304 ft/day for deeper wells installed in coarser sands.

- Porosity data was obtained from Freeze & Cherry (1979) and estimated to be 0.25 for fine sand and 0.35 for coarse sand.

Using Darcy's Law, the groundwater seepage velocity was determined to range from about 292 feet per year (ft/year) for groundwater in the upper part of the water bearing zone dominated by fine sand to 460 ft/year for groundwater in the lower part of the water bearing zone dominated by coarse sand. These results are consistent with soil boring descriptions and EC logs which show finer sands in the shallow part of the water bearing zone and coarser sands in the deeper part.

Subsequent to the analysis and reporting of the slug test data, uncertainties came to light with regard to the naming of the AQTESOLVE output graphs. To address this uncertainty, the slug-test data were reanalyzed and the results of the reanalysis were found to be consistent with the results that were initially found. The reanalysis is also included in Appendix L.

4.6 Vapor Intrusion Evaluation

The potential for vapor intrusion was evaluated at and in the vicinity of the Site.

4.6.1 Potential for On-Site Vapor Intrusion

The Interim Remedial Measure for Soil resulted in the removal of impacted soil at the Site essentially eliminating the potential for vapor intrusion.

4.6.2 Potential for Off-Site Vapor Intrusion

The Site is within the boundary of the NIC area, which has been evaluated for vapor intrusion. Multiple phases of vapor intrusion assessments have been performed. Indoor and outdoor samples were either not-detected or did not exceed Tier 2 RSK residential values for indoor air for Site COPCs. The vapor assessments concluded that the vapor intrusion pathway does not pose a significant health threat (CDM Smith, 2012).

4.7 Data Quality Assessment

Laboratory analytical data was verified and validated using procedures outlined in the October 13, 2003, Quality Assurance Project Plan (QAPP) and the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008. Data was reviewed for precision, accuracy, completeness, analytical method compliance, and QAPP compliance to determine the usability of the analytical data.

Precision and accuracy were evaluated for data generated by the numerous sampling activities. Precision was assessed by calculating relative percent difference (RPD) for laboratory and field duplicate sample analyses. The acceptance criteria for precision are 50 percent RPD for soil samples and 35 percent RPD for water samples. Laboratory precision was evaluated through review of laboratory duplicates and matrix spike/matrix spike duplicates (MS/MSD) against the published SW-846 methods or laboratory SOPs. Sampling accuracy was assessed by evaluating equipment rinse blank and trip blank results. Analytical accuracy was evaluated through the analysis of laboratory control samples (LCS) and MS/MSD samples.

A Level 3 validation of laboratory analytical data was performed per Contract Laboratory Program (CLP) Functional Guidelines was performed during initial site investigation activities. These reviews considered the following:

- Sample integrity;
- Holding times;
- Field blanks;
- Method blanks;
- MS/MSD;
- LCS;
- Field duplicates;
- Initial and continuing calibrations;
- Surrogates; and
- Internal standards.

No significant problems were identified with the laboratory and very few qualifiers were assigned. The data was consistently of high quality; therefore, subsequent data was subjected to a reduced level of validation.

A Level 2 validation of laboratory analytical data was performed per CLP Functional Guidelines for all groundwater investigation and monitoring results beginning in 2008. These reviews evaluated the following:

- Sample integrity;

- Holding times;
- Field blanks;
- Method blanks;
- MS/MSD;
- LCS; and
- Field duplicates.

Field blanks and duplicates were collected at a minimum frequency of one per 20 field samples. Trip blanks were submitted at a frequency of one per cooler in which VOC groundwater samples were shipped to the laboratory. At least one MS/MSD was analyzed per 20 field samples submitted to the laboratory per USEPA method requirements.

Review of validation reports for groundwater data collected since 2008 showed no issues regarding accuracy. Field duplicate RPD results indicate that the precision of the laboratory analytical data is acceptable. Laboratories complied with the requested analytical methods and the data are fully usable after review of assigned qualifiers.

Data validation reports were previously submitted to KDHE with reports describing investigation and interim remedial activities at the site. These reports are included with analytical data on the enclosed compact discs.

5 Interim Remedial Measures

The purpose of this section is to describe the Interim Remedial Measure for Soil that was implemented at the Site. The IRMSWP was submitted to the KDHE on October 4, 2006 and approved on December 14, 2006. The *Interim Remedial Measure for Soil Completion Report*, December 17, 2007, is provided as Appendix D.

5.1 Design

The goal of the design was to comply with the following criteria:

- Remove soil material impacted above the RSK "soil to groundwater protection pathway" criteria;
- Conduct remedial action with minimal disruption to Site business activities;
- Properly transport and dispose impacted materials at a permitted off-site facility; and
- Restore Site grade and surfacing to pre-construction conditions.

The IRMSWP was based upon source area remedial investigations. The design included the following elements:

- Excavate materials which were determined to be impacted by PCE, TCE, 1,2-DCA, cis-1,2-DCE above RSK values (June 2007) for the soil to groundwater pathway.
- Excavate impacted vadose-zone silty clay soil above the sand layer.
- Slope excavation sidewalls away from site buildings to ensure structural stability.
- Dispose of excavated material as non-hazardous waste based on in-situ soil testing results compared to the toxicity characteristic leaching procedure (TCLP) levels.

To address the area impacted by VOCs, subsurface soil was excavated, loaded into transport trucks, and disposed off-site as non-hazardous special waste.

5.2 Soil Excavation

Excavation and concrete removal was conducted simultaneously. Soil removal began after an area of concrete was removed sufficient to facilitate the movement of the excavator.

Clay-rich soil present beneath the concrete pavement was removed until underlying sand was exposed. A total of 683.1 cubic yards of soil and concrete was removed from the Site. The area of excavation during the Interim Remedial Measure for Soil is shown on Figure 9 of this report.

5.2.1 Soil Loading

Soil was loaded directly into transport trucks for off-site disposal at Rolling Meadows Recycling and Disposal Facility in Topeka, KS.

5.2.2 Backfill

Clean soil was obtained from an off-site source, Northridge Sand, L.L.C. This soil was tested at the source and determined to be of suitable quality. The backfill was also free of course material such as asphalt, concrete, rock, or vegetative matter. Soil was laid in 12-inch un-compacted lifts and compacted to a target 95% Standard Proctor.

5.2.3 Concrete Replacement

The concrete surface was restored once backfilling was completed. A geotextile fabric was placed above the compacted fill, which as then covered with 12-inches of course base rock. Rebar, ¼-inch in diameter and tied on 16-inch centers, was then placed and an eight-inch thick concrete slab was poured, which matched the existing Site grade. Expansion relief joints were then cut in the finished concrete.

5.3 Remedial Action Completion Criteria

The remedial action goal was to reduce concentrations of VOCs in the soil to a level below the RSK value for the "soil to groundwater protection pathway". The removal of the impacted soil within the proposed excavation area was determined to be the most sustainable remedial option to achieve this goal.

After impacted soil was excavated, confirmation soil samples were collected and analyzed to establish that the cleanup criteria were met. Eight discrete soil samples (plus one duplicate sample) were collected from the excavation sidewalls, after field screening with a PID, using method 5035 sample preservation kits. Samples were analyzed for VOCs using USEPA method 8260B by Pace Analytical Laboratory, a Kansas-certified laboratory.

The first round of confirmation soil sampling results indicated that 6 of 8 samples meet the remediation standard and two locations (IRM-CS-01 and IRM-CS-07) required further excavation. After over-excavating at the two locations, a second round of confirmation samples was collected and analyzed as described above using an expedited analytical turnaround time. The two confirmation samples did not exceed KDHE remediation levels. Therefore, no further excavation was completed.

During the second round of soil sampling KDHE collected a duplicate sample from one of the two locations (IRM-CS-01B). KDHE collected soil in a 4-ounce soil jar and submitted the sample to Continental Laboratory using a 10-day analytical turnaround time. KDHE's sample result (437 µg/kg PCE) exceeded the soil to groundwater protection pathway remediation criteria (180 µg/kg PCE) and Brenntag's confirmation sample result (19.1 µg/kg PCE). However demobilization from the Site had occurred prior to receiving KDHE's data, so those results could not be acted upon.

5.4 Environmental Use Control

On August 28, 2013, KDHE issued approval of an EUC for the Site (KDHE Document Number 13-EUC-0004). The EUC summarizes the conditions at the Site following the Interim Remedial Measure for Soil and states that "groundwater monitoring data indicate the source control effort has been effective".

The EUC restrictions include:

- The Site may not be used for residential purposes of any type;
- Domestic water wells may not be installed or used at the Site;
- KDHE must be notified fifteen calendar days before a petition to re-zone the property;
- KDHE must be notified fifteen calendar days prior to any excavation activities at the property;
- Potential hazards related to impacted media must be communicated to any contractors, lessees, easement holders, or other workers who may encounter such media; and
- Permanent survey makers and benchmarks must be maintained.

The EUC is included as Appendix M.

6 Human Health and Environmental Receptors

Comparisons of chemicals of concern in soil and groundwater have been made to RSK values (KDHE, 2010). For the purposes of this risk analysis, the "Site" refers to Brenntag-owned property and "off-Site" refers to the down-gradient study area.

The objective of this risk analysis is to evaluate human health risks potentially associated with COPCs present in on-Site soil and groundwater, and off-Site ground water. Both current and hypothetical future exposures to chemicals were evaluated. Data used to evaluate possible human exposure and risks included on-site, post-excavation soil data collected in 2007 and groundwater data from on-Site and off-Site monitoring wells in 2014.

6.1 Exposure Pathways Evaluated

Site media were evaluated for current and future conditions including on-Site soil, on-Site groundwater, and off-Site groundwater.

For on-Site soil, the following potential routes of exposure were evaluated:

- soil pathway
- soil-to-groundwater pathway
- vapor intrusion pathway

For on-Site and off-Site groundwater, the following potential routes of exposure were evaluated:

- groundwater pathway
- vapor intrusion pathway

Each pathway was evaluated to determine if it was potentially complete or incomplete. If the pathway was deemed potentially complete, then the potential exposure was evaluated to determine whether the exposure was significant.

6.2 Chemicals of Potential Concern

Available data was evaluated and COPCs were selected as follows.

- Groundwater: VOCs retained as COPCs are PCE, TCE, cis-1,2-DCE, and VC.
- On-Site Soil: VOCs retained as COPCs exceeding the soil to groundwater pathway prior to implementation of the interim excavation remedy are PCE, TCE, cis-1,2-DCE, and VC.

After excavation one confirmation soil sample collected by KDHE was reported to contain PCE at a concentration 437 µg/kg which exceeded the soil to groundwater protection pathway remediation criteria of 180 µg/kg PCE. The corresponding confirmation soil sample collected by Brenntag exhibited a concentration of 19.1 µg/kg PCE. KDHE approved the Interim Remedial

Measure for Soil; however, to address this inconsistency requested that EUCs be implemented at the Site.

6.2.1 Current Exposure Pathways

On-Site Soil – Current Conditions

Soil at the Site was remediated to meet RSK values for the soil-to-groundwater pathway. RSK values for this pathway are more conservative than other pathways for soil. Therefore, the soil dermal contact and ingestion pathways are currently incomplete.

Buildings are not present over the area of former soil impact at the Site. Therefore, the vapor intrusion pathway is currently incomplete.

On-Site Groundwater – Current Conditions

An EUC has been recorded with the property deed that prohibits residential land use and also prohibits the use of shallow groundwater. Therefore, the groundwater dermal contact and ingestion contact pathways are currently incomplete.

A combined office and warehouse building is present on-Site but no on-Site structures currently exist over the area of groundwater impact. Therefore, the vapor intrusion pathway from groundwater is currently incomplete.

Off-Site Soil – Current Conditions

There is no off-Site soil impact and so the off-Site soil pathway is incomplete.

Off-Site Groundwater – Current Conditions

Groundwater impact attributed to Brenntag extends from the Site southeastward toward Mosely Street, an area currently used for commercial and industrial purposes. Concentrations of PCE and TCE exceed RSK values for groundwater. Therefore the groundwater and vapor intrusion routes of exposure are potentially complete.

However, the use of shallow groundwater as a potable water resource is considered unlikely. The City of Wichita provides potable water and a City ordinance prohibits the installation or use of private wells for drinking water within City limits. Furthermore, under City Code Section 7.30.105 – “Water Wells In Contaminated Areas” and based upon conversations with City Officials, the City of Wichita reviews applications for the installation of all wells on a case-by-case basis and will disapprove wells proposed to be installed in areas of known groundwater impact. This would include the area encompassing the NIC Site.

A query of the Kansas Geological Survey Water Well Completion Records (WWC5) Database was conducted for areas surrounding and especially down-gradient of the Site including T27S, R1E, Sections 9 and 16. Wells that were classified as plugged or abandoned were not evaluated further. Wells were mapped using the latitude and longitude provided in the database, regardless of the street address provided, if any. The closest down-gradient wells were located within

approximately 0.5 miles from the Site. The two wells (Well ID numbers 66653 and 447304, respectively) are registered as "Lawn and Garden – Domestic Only" wells. Well 66653, constructed in 1982 to a depth of 80 feet, was reported to be located on Wabash Avenue between 11th and 12th Streets. Well 447304, constructed in 2011 to a depth of 40 feet, was reported to be located on Matthewson Street between 12th and 13th Streets. Results of this well search are included in Appendix N.

The vapor intrusion pathway is also considered incomplete. The Site is within the boundary of the NIC area, which has been evaluated for vapor intrusion. Indoor and outdoor samples were either not-detected or did not exceed Tier 2 RSK residential values for indoor air for Site COPCs. Therefore the vapor intrusion pathway does not pose a significant health threat (CDM Smith, 2012).

The following table summarizes current exposure pathways for each media of potential concern.

Current Exposure Pathways

Media	Pathway	Pathway Potentially Complete/Incomplete	Comment
On-Site Soil Non-Residential Scenario	Soil to GW	Incomplete	Impacted soil was excavated and removed to levels protective of the "Soil to Groundwater" pathway, which is also protective of the other pathways.
	Dermal Contact	Incomplete	
	Ingestion	Incomplete	
	Vapor Intrusion	Incomplete	EUC prohibits residential land use. Former impacted soil area is paved. No buildings exist over former impacted soil area.
On-Site Groundwater Non-Residential Scenario	Dermal Contact	Incomplete	EUC prohibits groundwater use and residential land use. No buildings exist over area of impacted groundwater.
	Ingestion	Incomplete	
	Vapor Intrusion	Incomplete	
Off-Site Soil Residential and Non-Residential Scenarios	Soil to GW	Incomplete	No off-Site soil impact.
	Dermal Contact	Incomplete	
	Ingestion	Incomplete	
	Vapor Intrusion	Incomplete	
Off-Site Groundwater Residential and Non-Residential Scenarios	Dermal Contact	Potentially Complete	City provides potable water, prohibits use of groundwater, and restricts well installation in areas of known groundwater impact. Two lawn and garden wells are present within approximately 0.5 miles down-gradient of the Site. NIC Site studies have concluded that vapor intrusion is not of concern.
	Ingestion	Potentially Complete	
	Vapor Intrusion	Potentially Complete	

6.2.2 Hypothetical/Future Exposure Pathways

On-Site Soil – Future Conditions

Soil at the Site was remediated to meet Kansas RSK values for the soil to groundwater pathway. Therefore, potential routes of exposure related to on-Site soil (soil and vapor intrusion pathways) are incomplete for future scenarios.

On-Site Groundwater – Future Conditions

An EUC was recorded with the property deed that prohibits residential land use and also prohibits the use of shallow groundwater. Therefore the groundwater pathway is incomplete for future scenarios.

A future building could be constructed over the area of groundwater impact. Therefore, the vapor intrusion pathway is potentially complete for future scenarios. However, an EUC prohibits residential land use. Also studies at the NIC Site indicate that vapor intrusion is not of concern.

Off-Site Soil – Future Conditions

There is no off-Site soil impact and so the future off-Site soil pathway is incomplete.

Off-Site Groundwater – Future Conditions

Groundwater impact attributed to Brenntag extends from the Site southeastward toward Mosely Street, an area currently used for commercial and industrial purposes. Concentrations of PCE and TCE exceed RSK values for groundwater. Therefore the groundwater and vapor intrusion routes of exposure are potentially complete for future conditions.

However, the future use of shallow groundwater as a potable water resource is considered unlikely. The City of Wichita provides potable water and a City ordinance prohibits the future installation of private wells for drinking water within City limits. Also the City will disapprove future wells proposed to be installed in areas of known groundwater impact, including the NIC Site.

The vapor intrusion pathway is also considered incomplete. The Site is within the boundary of the NIC area, which has been evaluated for vapor intrusion. Indoor and outdoor samples were either not-detected or did not exceed Tier 2 RSK residential values for indoor air for Site COPCs. Therefore the vapor intrusion pathway does not pose a significant health threat (CDM Smith, 2012).

The following table summarizes future exposure pathways for each media of potential concern.

Hypothetical/Future Exposure Pathways

Media	Pathway	Pathway Potentially Complete/Incomplete	Comment
On-Site Soil Non-Residential Scenario	Soil to GW	Incomplete	Impacted soil was excavated and removed to levels protective of the "Soil to Groundwater" pathway, which is also protective of other soil pathways and the vapor intrusion pathway. EUC prohibits future residential land use.
	Dermal Contact	Incomplete	
	Ingestion	Incomplete	
	Vapor Intrusion	Incomplete	
On-Site Groundwater Non-Residential Scenario	Dermal Contact	Incomplete	EUC prohibits future groundwater use. EUC prohibits future residential land use.
	Ingestion	Incomplete	
	Vapor Intrusion	Potentially complete for new construction over area of groundwater impact.	
Off-Site Soil Residential and Non-Residential Scenarios	Soil to GW	Incomplete	No off-Site soil impact.
	Dermal Contact	Incomplete	
	Ingestion	Incomplete	
	Vapor Intrusion	Incomplete	
Off-Site Groundwater Residential and Non-Residential Scenarios	Dermal Contact	Potentially Complete	City will provide potable water, will prohibit use of groundwater, and will restrict well installation in areas of known groundwater impact. NIC Site studies have concluded that vapor intrusion is not of concern.
	Ingestion	Potentially Complete	
	Vapor Intrusion	Potentially Complete	

6.3 Environmental and Ecological Receptors

Land use near the Site is urbanized with a mixture of industrial, commercial, residential and public properties. The vast majority of land at and near the Site is developed with extensive pavement, buildings and roads. With the possible exception of wetland areas along the Arkansas River located 1 mile or more to the west and southwest, there are no sensitive ecological areas or wildlife habitat at or near the Site. There are no sensitive geologic features such as karst. Residual soil impacts and current COPC levels in groundwater are not likely to be associated with significant aquatic or terrestrial toxicity.

7 Conclusions and Recommendations

This section summarizes the findings that support the specific objectives of the CI, including:

- Determine the lateral and vertical extent of soil and groundwater impacted by volatile organic compounds originating at the Site.
- Develop a Site Conceptual Model for human exposure.
- Collect data to support the evaluation and design of potential response actions.

A secondary objective was to evaluate whether off-Site sources contribute to impacts originating at the Site.

7.1 Nature and Extent of Impact

Key conclusions and findings of the investigation are summarized below.

7.1.1 Chemicals of Potential Concern

The COPCs are CEs, including PCE, TCE, cis-1,2-DCE, and VC.

7.1.2 Nature and Extent of Soil Impact

The lateral and vertical extent of soil impacted above Kansas RSK standards was determined to be limited to an area on the southern portion of the Site and did not extend off-Site.

An Interim Remedial Measure for Soil was conducted in 2007 which resulted in the excavation and off-Site disposal of soil impacted above the Kansas RSK “soil to groundwater protection pathway” criteria.

7.1.3 Nature and Extent of Groundwater Impact

Shallow groundwater at the Site occurs in an unconfined alluvial aquifer primarily composed of unconsolidated sand above shale bedrock. Groundwater flow is primarily to the south-southeast. Groundwater flow at the Site appears to be stratified with shallow groundwater in fine sand moving more slowly than deeper groundwater in coarser sand.

The release of CEs that impacted soil also impacted groundwater at the Site.

Groundwater quality improved after completion of the Interim Remedial Measure for Soil. As of October 2014, on-Site groundwater shows PCE impacts above Kansas RSK standards only in well MW-3s at a concentration of 0.0193 mg/L as compared to the Kansas RSK standard of 0.005 mg/L. However, PCE concentrations in this well have remained approximately constant since about 2010.

Residual PCE in on-Site groundwater is being degraded by reductive dechlorination, as demonstrated by decreasing concentrations of PCE and co-varying concentrations of dechlorination products TCE and DCE. Reductive dechlorination is also degrading TCE formed from on-Site PCE.

PCE is found in both on-Site and off-Site shallow wells, but not deep wells, indicating that PCE impacting shallow groundwater undergoes limited vertical migration.

DCE is the dominant CE in deep groundwater under the Site and is uniformly present at much greater levels than in shallow groundwater near the past on-Site PCE source. As the impacts related to historical Site operations attenuate, up-gradient, off-Site sources are becoming the dominant source of TCE and DCE in groundwater under the Brenntag property.

Groundwater impacts attributed to Brenntag extend off-Site.

- CE concentrations at off-Site well MW-5s do not exceed RSK standards.
- CE concentrations at off-Site well MW-6s exceed RSK standards for PCE (0.0315 mg/L) and TCE (0.0136 mg/L), however both PCE and TCE in this well have shown a consistent declining trend since March 2012.

In wells MW-5d and MW-6d, TCE and DCE levels have been essentially constant since these wells were first sampled in April 2011. DCE concentrations appear relatively constant at approximately 0.03 to 0.05 mg/l, compared to the RSK of 0.07 mg/l and TCE concentrations appear relatively constant at approximately 0.01 mg/l, compared to the RSK of 0.005 mg/l.

7.1.4 Institutional Controls

An EUC has been implemented at the Site which prohibits non-commercial land use and groundwater use.

7.1.5 Potential Additional VOC Sources

Groundwater data collected from project wells indicate the existence of up-gradient and down-gradient potential sources of groundwater impact not attributable to Brenntag.

7.1.5.1 Potential Up-gradient VOC Source

TCE and DCE, at concentrations generally less than Kansas RSK standards, are flowing onto the Site from up-gradient, off-Site sources. These CEs contribute to the CE mass observed at the Site, especially in deeper groundwater, and are expected to persist despite any remedial effort that might be implemented at the Site.

7.1.5.2 Potential Down-gradient VOC Source

PCE has been observed in groundwater at off-Site wells MW-5s and MW-6s, indicating to Brenntag that an off-Site source of PCE may have existed down-gradient of Brenntag. KDHE has stated disagreement with this conclusion.

However, PCE concentrations in these wells have shown significant decline since the wells were installed in March 2011. In well MW-5s, the concentration of PCE in March 2011 was 0.0279 mg/l and by October 2014 had declined steadily to 0.0043 mg, below the RSK. In well MW-6s, the concentration of PCE also had declined steadily from 0.181 mg/l in March 2012 to 0.0315

mg/l in October 2014. These regular declining PCE concentrations indicate to Brenntag the operation of natural attenuation processes.

7.1.6 Risk Assessment

Potential routes of exposure for the Site were evaluated and determined to be incomplete, given the Interim Remedial Measure for Soil and implementation of the EUC.

Potential routes of exposure for off-Site areas down-gradient of the Site were evaluated and potentially complete pathways include groundwater and vapor intrusion pathways. The groundwater pathway is considered incomplete because the City of Wichita provides potable water and a City ordinance prohibits the installation or use of private wells for drinking water within City limits. The vapor intrusion pathway is also considered incomplete, as was concluded for the NIC Site.

7.2 Recommendations for Future Actions

A Corrective Action Study has been prepared to evaluate the feasibility of remedial alternatives for Site groundwater.

Appropriate remedial technologies for Site groundwater were identified and preliminary evaluations were conducted. Technologies whose target COPCs are halogenated volatile organic compounds were considered and include:

- Air Sparging
- Enhanced Bioremediation
- Chemical Oxidation
- EUCs
- Monitored Natural Attenuation
- Pump and Treat
- In-Situ Thermal Treatment
- Vacuum Enhanced Recovery
- Zero-Valent Iron Passive Reactive Barrier

These technologies were screened using the following criteria technical feasibility, including effectiveness and implementability; and economic feasibility, including capital costs, initial costs, and annual operation.

Based on this screening the following technologies were retained for further evaluation in the CAS:

- Monitored Natural Attenuation
- Enhanced Bioremediation
- Chemical Oxidation

Brenntag recommends implementation of a remedy to treat on-Site groundwater.

8 References

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Tables

TABLE 1
ARARs EVALUATION
Brenntag Southwest, Inc.
Wichita, Kansas

POTENTIAL REQUIREMENT	CITATION	APPLICABILITY TO SITE	COMMENT
Federal Requirements			
Archaeological and Historic Preservation Act of 1974	16 U.S.C. § 469 et seq.		No archaeological or historic features are known to exist at the Site.
Clean Air Act (CAA)	42 US.C. § 7401 et seq. as amended in 1977 and 1990		No activities that will result in significant air emissions are anticipated.
Standards of Performance for New Stationary Sources	(40 CFR 60)		See above
National Emission Standards for Hazardous Air Pollutants	(40 CFR 61)		See above
National Emission Standards for Hazardous Air Pollutants for Source Categories	(40 CFR 63)		See above
Clean Water Act (CWA) of 1977	33 U.S.C. § 1251et seq. as amended in 1987		
National Pollutant Discharge Elimination System (NPDES)	(40 CFR 122)	✓	Water from a future treatment system may possibly be discharged to waters of the state.
Storm Water Discharge Requirements NPDES	(40 CFR 12126)		It is not anticipated that construction activities at the Site will disturb an acre or more of soil at any given time. It is not anticipated that storm water will come in contact with any materials at the Site that may result in release of contaminants into surface water.
Federal Water Quality Standards	(CFR 131)	✓	May be indirectly applicable to surface water within the Site. No surface water discharges are anticipated.
General Pre-treatment Regulations for Existing and New Sources of Pollution for Publicly Owned Treatment Works (POTW)	(40 CFR 403)	✓	May be applicable if water from the Site is discharged to the City of Wichita or other POTW.
Wetlands Protection	(40 CFR22, 40 CFR 230 to 233, and 33 CFR 320 to 330)		Wetlands, if any, are not anticipated to be impacted by site remedial actions.
Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980	42 US.C. § 9W1 a seq. as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986	✓	
National Oil and Hazardous Substances Pollution Contingency Plan (NCP)	(40 CFR 300)	✓	
Emergency Planning and Community Right-to-Know Act (EPCRA) of 1986	42 U.S.C. § 11001 et seq.	✓	Applicable for hazardous chemicals stored or used at the site. Remedial groundwater treatment is being considered.
Endangered Species Act of 1973	7 U.S.C. § 136; 16 U.S.C. § 460 et seq		No endangered species are known to exist at the Site.

TABLE 1
ARARs EVALUATION
Brenntag Southwest, Inc.
Wichita, Kansas

POTENTIAL REQUIREMENT	CITATION	APPLICABILITY TO SITE	COMMENT
Explosives	18 U.S.C. § 847		No explosives will be purchased for, stored at, or used at the Site.
Federal Hazardous Materials Transportation Law	49 U.S.C. § 5 101 et seq.	✓	Will be applicable if materials transported from the site are determined to be hazardous.
Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) of 1972	7 U.S.C. § 136 et seq.		Pesticides are not among the contaminants of concern at this Site.
Fish and Wildlife Conservation Act	16 U.S.C. § 2901 to 2911		It is not anticipated that significant populations of fish or wildlife exist at the Site or will be affected by Site activities.
Fish and Wildlife Coordination Act	16 U.S.C. § 661-667e		See above.
Flood Control Act of 1944	16 U.S.C. § 460		May be applicable to Chisholm Creek.
National Historic Preservation Act of 1966	16 U.S.C. § 470 et seq.		Site is not listed on a historic register.
Occupational Safety and Health Act (OSHA) of 1970	29 U.S.C. § 651 et seq.	✓	
Occupational Safety and Health Standards	(29 CFR 1910)	✓	Will apply to all activities at the Site where possible exposure to hazardous materials exists.
Safety and Health Regulations for Construction	(29 CFR 1926)	✓	Will apply to all construction activities at the Site.
Resource Conservation and Recovery Act (RCRA) of 1976	42 U.S.C. § 6901 et seq. as amended by the Hazardous and Solid Waste Amendments of 1984 (HSWA) and 1986, the Federal Facilities Compliance Act of 1992, and the Land Disposal Program Flexibility Act of 1996.	✓	Substantive portions will be applicable to the management of hazardous and solid wastes at the Site.
Solid Waste Disposal Facility Criteria	(40 CFR 257 - 258)		No disposal activities are anticipated at this Site.
Standards for Identification and Listing of Hazardous Waste	(40 CFR 261)	✓	Substantive portions will be applicable to the characterization and management of waste materials at the Site.
Standards Applicable to Generators of Hazardous Waste	(40 CFR 262)	✓	Substantive portions will be applicable to the generation of hazardous wastes at the Site.
Standards Applicable to Transporters of Hazardous Waste	(40 CFR 263)	✓	Substantive portions will be applicable to the transportation of hazardous wastes from the Site.
Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities	(40 CFR 264)	✓	Substantive portions will be applicable if hazardous wastes are treated on-site or stored for more than 90 days. Disposal of hazardous waste at this Site is not anticipated.

TABLE 1
ARARs EVALUATION
Brenntag Southwest, Inc.
Wichita, Kansas

POTENTIAL REQUIREMENT	CITATION	APPLICABILITY TO SITE	COMMENT
Manifesting, Record Keeping, and Reporting Requirements	(40 CFR 264.70 to 264.77)	✓	Substantive portions will be applicable to management of hazardous wastes at this Site.
Releases from Solid Waste Management Units	(40 CFR 264.90 to 264.101)		No storage of solid waste is anticipated at this Site.
Closure and Post Closure Requirements	(40 CFR 264.110 to 264.120)		No post closure requirements anticipated.
Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage and Disposal Facilities	(40 CFR 265)		Hazardous wastes are not anticipated to be treated on-site or stored for more than 90 days. Disposal of hazardous waste at this Site is not anticipated.
Land Disposal Restrictions	(40 CFR 268)	✓	May be applicable, dependent upon characterization of wastes generated at the Site.
Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks	(40 CFR 280)		No underground storage tanks are known to exist at the Site. No petroleum release is known at the Site.
Safe Drinking Water Act (SDWA) of 1974	42 U.S.C. § 300f et seq. as amended in 1986	✓	Applicable to waters of the state used for or designated as potable water. None of the water impacted at the site is used as a source of drinking water.
National Primary Drinking Water Regulations and Implementation	(40 CFR 141 and 142)	✓	See above.
National Secondary Drinking Water Standards	(40 CFR 143)	✓	See above.
Underground Injection Control Program	(40 CFR 144 to 148)	✓	May be applicable to Site remedial actions.
Toxic Substances Control Act (TSCA) of 1976	15 U.S.C. § 2601 et seq.		No substances regulated by this Act are known to exist at the Site.
Kansas State Standards			
Ambient Air Quality Standards and Air Pollution Control	K.A.R. 28-19-1 to 28-19-801		No activities that will result in significant air emissions are anticipated.
Asbestos Control	K.A.R. 28-50-1 to 28-50-14		No asbestos is expected to be handled or removed during the activities at this Site.
Agricultural Chemicals, Commercial Fertilizers, Anhydrous Ammonia, and Chemigation	K.A.R. 4-1-1 to 4-1-17, K.A.R. 4-4-1 to 4-4-984, K.A.R. 4-10-l to 4-10-17, and K.A.R. 4-20-1 to 4-20-15		No agricultural chemicals, commercial fertilizers, or anhydrous ammonia are planned to be used at the Site. No chemicals or animal wastes are planned to be applied for chemigation.
Construction, Operation, Monitoring and Abandonment of Solution Mining Wells	K.A.R. 28-43-1 to 28-43-11		No salt solution mining wells are present at this Site.
Emergency Planning and Right-to-Know	K.A.R. 28-65-1 to 28-65-4	✓	Will be applicable if certain chemicals are stored or used at the site during remedial action.

TABLE 1
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Brenntag Southwest, Inc.
Wichita, Kansas

POTENTIAL REQUIREMENT	CITATION	APPLICABILITY TO SITE	COMMENT
Environmental Use Controls	K.A.R 28-73-1 to 18-73-7	✓	Will apply to Site activities.
Explosive Materials	K.A.R. 22-4-1 to 22-4-4		No explosives will be purchased for, stored at, or used at the Site.
Hazardous Waste Management Standards and Regulations	K.A.R. 28-31-1 to 28-31-16	✓	Substantive portions will be applicable to the management of hazardous and solid wastes at the Site.
Hydrocarbon Storage Wells and Well Systems	K.A.R. 28-45-1 to 28-45-11		No hydrocarbon storage wells are known to exist at the Site.
Kansas Board of Technical Professions	K.A.R. 66-6-1 through 66-14-12	✓	Will apply to geologists, engineers, and land surveyors involved in Site activities.
Kansas Drycleaner Environmental Response Act	K.A.R. 28-68-1 to 28-68-9	✓	Will be applicable if it is determined that a dry cleaning operation contributed to the contamination at the Site.
Kansas Historic Preservation Act	K.A.R. 118-3-1 to 118-3-16		Release area not on the federal or regional list of historic sites.
Kansas Water Appropriations Act	K.A.R. 5-l-1 through 5-10-6 and K.A.R. 5-50-l to 5-50-8	✓	No groundwater appropriations are necessary for the remedial actions at this Site; however, a term use permit is required for groundwater extraction activities.
Mined Land Reclamation	K.A.R. 47-16-1 to 47-16-11		No mined land or associated waters are to be reclaimed at this Site.
Non-Game, Threatened or Endangered Species	K.A.R. 115-15-1 to 115-15-4		No such species are known to exist at the Site.
PCB Facility Construction Permit Standards and Regulations	K.A.R. 28-55-1 to 28-55-5		No materials containing PCBs will be handled as part of the activities at this Site.
Pesticides	K.A.R. 4-13-1 to 4-13-65		Pesticides are not among the contaminants of concern at this Site.
Petroleum Products Storage Tanks	K.A.R. 28-44-1 to 28-44-29		No petroleum storage tanks are known to have existed at the Site. No petroleum release is known at the Site.
Radiation	K.A.R 28-35-1 to 28-35-363		No radiation producing devices will be used during Site activities. Sources of radiation are not known to exist at the Site.
Risk-Based Standards for Kansas	RSK Manual	✓	These standards are considered under remedial actions for the Site.
Solid Waste Management	K.A.R. 28-29-1 to 28-29-121 and K.A.R. 28-29-2101 to 28-29-2113	✓	Substantive portions will be applicable to management of solid wastes generated during Site activities.
Spill Reporting	K.A.R. 28-48-1 to 28-48-2	✓	Will be applicable if spills occur during Site activities.

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Brenntag Southwest, Inc.
Wichita, Kansas

POTENTIAL REQUIREMENT	CITATION	APPLICABILITY TO SITE	COMMENT
Underground Injection Control Regulations	K.A.R. 28-46-1 to 28-46-44	✓	Possible remedies under consideration include the injection of fluids or air into the subsurface.
Underground Storage, Disposal Wells and Surface Ponds	K.A.R. 28-13-1 to 28-13-9		No underground reservoirs, disposal wells, or surface ponds will be used during Site activities.
Voluntary Cleanup and Property Redevelopment Program	K.A.R. 28-71-1 to 28-71-12		This Site is managed through the KDHE Bureau of Environmental Remediation, State Cooperative Program.
Water Pollution Control	K.A.R. 28-16-1 to 28-16-154	✓	Treated water from the Site may possibly be discharged to waters of the state depending on the selected remedial action.
Water Well Contractor's License; Water Well Construction and Abandonment	K.A.R. 28-30-1 to 28-30-10	✓	Will be applicable to drilling, construction, and abandonment of wells at the Site.
Local Requirements	**City Code**		
Excavation Permits (includes cutting sidewalk or pavement)	Section 10.20	✓	Applicable if drilling or excavation work on city property is required.
Permitting Test/ Monitoring Well / Recovery Well or Soil borings on Public Property.	City Engineers Office	✓	If additional wells are required on city street rights-of-way.
Minor Street Privilege	Section10.08	✓	Applicable if public property is utilized for private use.
Water wells in contaminated areas.	Section 7.30.105	✓	Applicable to Site activities.

Table 2-MW-1D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-1D			MW-1D			MW-1D			MW-1D			MW-1D			MW-1D			MW-1D			MW-1D			MW-1D			MW-1D			MW-1D		
		Date	2/7/2008			5/6/2008			8/29/2008			12/22/2008			3/19/2009			6/19/2009			9/18/2009			12/23/2009			3/11/2010			6/28/2010		
		sys_sample_code	MW-1D_02_07_2008			MW-1D_05_06_2008			MW-1D_08_29_2008			MW-1D_12_22_2008			MW-1D_03_19_2009			MW-1D_06_19_2009			MW-1D_09_18_2009			MW-1D_12_23_2009			MW-1D_03_11_2010			MW-1D_06_28_2010		
		Sample Type	N			N			N			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00062	J		< 0.001	U		< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0018			0.00125			0.0013			< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.005	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0158			0.0091			0.0233			0.0187			0.0311			0.0631			0.0392			0.0466			0.0103			0.0113		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	0.0012			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	0.0013			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0021			< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0156			0.0091			0.023			0.0185			0.0307			0.0623			0.0386			0.046			0.0103			0.0111		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.005	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.0002	J		< 0.001	U		0.00027	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00066	J		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.002			0.0014			0.0031			0.0018			0.0016			0.0022			0.00189			0.0018			0.00055	J		0.00068	J	
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		0.0017			0.00133			0.00074	J		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-1D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-1D			MW-1D			MW-1D			MW-1D			MW-1D			MW-1D			MW-1D			MW-1D			MW-1D			MW-1D			MW-1D		
		Date	9/10/2010			12/16/2010			4/4/2011			6/7/2011			9/15/2011			12/15/2011			3/14/2012			6/26/2012			10/3/2012			4/23/2013		
		sys_sample_code	MW-1D_09_10_2010			MW-1D_12_16_2010			MW-1D BAG_04_04_2011			MW-1D BAG_06_07_2011			MW-1D_09_15_2011			MW-1D_12_15_2011			MW-1D_03_14_2012			MW-1D_06_26_2012			MW-1D_10_03_2012			MW-1D_04_23_2013		
		Sample Type	N			N			N			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00023	J		0.00064	J		0.00031	J		0.00041	J		0.00059	J		0.0005	J		0.00042	J		0.00047	J		0.0006	J		0.00062	J	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		0.00062	J		0.00025	J		< 0.001	U		0.00044	J		0.00032	J		0.00032	J		< 0.001	U		0.00038	J		0.00043	J	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0142			0.027			0.0114			0.0105			0.0169			0.0136			0.0142			0.0131			0.0166			0.0189		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		0.00022	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00023	J		0.00028	J	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00024	J	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.014			0.0265			0.0114			0.0105			0.0165			0.0133			0.0139			0.0131			0.0163			0.0185		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		0.00048	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00032	J		0.00038	J	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.00079	J		0.0016			0.0011			0.00099	J		0.0018			0.0018			0.0015			0.0017			0.0021			0.0017		
Vinyl Chloride	0.002	mg/L	< 0.001	U		0.00068	J		< 0.001	U		< 0.001	U		0.00035	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-1D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-1D			MW-1D			MW-1D		
		Date	10/25/2013			4/8/2014			10/21/2014		
		sys_sample_code	MW-1D_10_25_2013			MW-1D_04_08_2014			MW-1D_10_21_2014		
		Sample Type	N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00057	J		< 0.001	U		< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	0.00046	J		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U	UJ	< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0141			0.0047			0.0036		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	0.00021	J		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0137			0.0047			0.0036		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U	UJ	< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U	UJ	< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.00034	J		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.0017			0.0011			0.001		
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-1S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-1S			MW-1S			MW-1S			MW-1S			MW-1S			MW-1S			MW-1S			MW-1S			MW-1S			MW-1S			MW-1S		
		Date	2/7/2008			5/6/2008			8/29/2008			12/22/2008			3/19/2009			6/19/2009			9/18/2009			12/23/2009			3/11/2010			6/28/2010		
		sys_sample_code	MW-1S_02_07_2008			MW-1S_05_06_2008			MW-1S_08_29_2008			MW-1S_12_22_2008			MW-1S_03_19_2009			MW-1S_06_19_2009			MW-1S_09_18_2009			MW-1S_12_23_2009			MW-1S_03_11_2010			MW-1S_06_28_2010		
		Sample Type	N			N			N			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.005	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0022			0.0063			< 0.001	U		< 0.001	U		0.0083			0.0025			< 0.001	U		0.0014	J		0.0032			< 0.002	U	
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		0.0019			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		0.0016			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0022			0.0063			< 0.001	U		< 0.001	U		0.0081			0.0025			< 0.001	U		0.0014			0.0032			0.00047	J	
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.005	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.002			0.0025			0.001			0.0011			0.0019			< 0.001	U		< 0.001	U		0.00075	J		0.00097	J		0.00056	J	
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-1S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-1S			MW-1S			MW-1S			MW-1S			MW-1S			MW-1S			MW-1S			MW-1S			MW-1S			MW-1S			MW-1S		
		Date	9/10/2010			12/16/2010			4/4/2011			6/7/2011			9/15/2011			12/15/2011			3/14/2012			6/26/2012			10/3/2012			4/23/2013		
		sys_sample_code	MW-1S_09_10_2010			MW-1S_12_16_2010			MW-1S BAG_04_04_2011			MW-1S BAG_06_07_2011			MW-1S_09_15_2011			MW-1S_12_15_2011			MW-1S_03_14_2012			MW-1S_06_26_2012			MW-1S_10_03_2012			MW-1S_04_23_2013		
		Sample Type	N			N			N			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00027	J		0.00043	J		0.00038	J	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	< 0.002	U		< 0.002	U		0.0032			0.001	J		0.0011	J		< 0.002	U		0.0012	J		0.0015	J		0.0016	J		0.002		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.00061	J		0.00059	J		0.0032			0.001			0.0011			0.00053	J		0.0012			0.0015			0.0016			0.002		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.00051	J		0.00054	J		0.0011			0.00065	J		0.00098	J		0.0014			0.0026			0.0037			0.0032			0.0025		
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-1S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-1S			MW-1S			MW-1S		
		Date	10/25/2013			4/8/2014			10/21/2014		
		sys_sample_code	MW-1S_10_25_2013			MW-1S_04_08_2014			MW-1S_10_21_2014		
		Sample Type	N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U	UJ	< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0014	J		0.0011	J		< 0.002	U	
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0014			0.0011			< 0.001	U	
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U	UJ	< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U	UJ	< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.003			0.00094	J		0.00082	J	
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-2D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-2D			MW-2D			MW-2D			MW-2D			MW-2D			MW-2D			MW-2D			MW-2D		
		Date	2/7/2008			5/6/2008			8/29/2008			12/22/2008			3/19/2009			3/19/2009			6/19/2009			6/19/2009		
		sys_sample_code	MW-2D_02_07_2008			MW-2D_05_06_2008			MW-2D_08_29_2008			MW-2D_12_22_2008			MW-2D_03_19_2009			BLIND DUPLICATE_03_19_2009			MW-2D_06_19_2009			BLIND DUPLICATE_06_19_2009		
		Sample Type	N			N			N			N			N			FD			N			FD		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0269			0.011			0.0421			0.0177			0.0406			0.046			0.0431			0.0387		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
Acetone	11.5	mg/L	< 0.01	U		0.0407			< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Carbon Disulfide	0.716	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroform	0.08	mg/L	< 0.001	U		0.0014			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.001	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0265			0.011			0.0414			0.0174			0.04			0.0453			0.0425			0.0382		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.001	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	0.0038			0.0018			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.00043	J		< 0.001	U		0.00073	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0073**			**0.012**			**0.0151**			**0.0112**			**0.006**			**0.0069**			0.0042			0.0037		
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U	R	< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-2D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-2D			MW-2D			MW-2D			MW-2D			MW-2D			MW-2D			MW-2D			MW-2D			MW-2D			MW-2D		
		Date	9/18/2009			9/18/2009			12/23/2009			3/11/2010			6/28/2010			9/10/2010			12/16/2010			4/4/2011			6/7/2011			9/15/2011		
		sys_sample_code	MW-2D_09_18_2009			BLIND DUP_09_18_2009			MW-2D_12_23_2009			MW-2D_03_11_2010			MW-2D_06_28_2010			MW-2D_09_10_2010			MW-2D_12_16_2010			MW-2D BAG_04_04_2011			MW-2D BAG_06_07_2011			MW-2D_09_15_2011		
		Sample Type	N			FD			N			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	< 0.001	U		< 0.001	U		0.00059	J		0.0004	J		0.00038	J		0.00041	J		0.00036	J		0.00061	J		0.00071	J		0.00076	J	
1,1-Dichloroethene	0.007	mg/L	0.00105			< 0.001	U		0.0011			0.00049	J		< 0.001	U		< 0.001	U		0.00035	J		0.00082	J		0.00074	J		0.001		
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.005	U		< 0.005	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0389			0.0332			0.0452			0.0233			0.0113			0.0148			0.014			0.0322			0.0329			0.0443		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.05	U		< 0.05	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.05	U		< 0.05	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.01	U		< 0.01	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.05	U		< 0.05	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00024	J		0.00025	J		0.00034	J	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00023	J	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		0.00027	J		0.00038	J		0.00039	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0382			0.0321			0.0443			0.0231			0.011			0.0145			0.0138			0.0317			0.0323			0.0436		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.005	U		< 0.005	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		0.00115			0.00091	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00051	J		0.00054	J		0.00069	J	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.00522**			0.00492			0.0048			**0.0051**			**0.0071**			**0.0072**			0.0048			0.0039			0.0036			0.0037		
Vinyl Chloride	0.002	mg/L	0.00124			0.00105			0.001			0.00057	J		< 0.001	U		< 0.001	U		< 0.001	U		0.0009	J		0.00078	J		0.0011		
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-2D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-2D			MW-2D			MW-2D			MW-2D			MW-2D			MW-2D			MW-2D			MW-2D		
		Date	12/15/2011			3/14/2012			6/26/2012			10/3/2012			4/23/2013			10/25/2013			4/8/2014			10/21/2014		
		sys_sample_code	MW-2D_12_15_2011			MW-2D_03_14_2012			MW-2D_06_26_2012			MW-2D_10_03_2012			MW-2D_04_23_2013			MW-2D_10_25_2013			MW-2D_04_08_2014			MW-2D_10_21_2014		
		Sample Type	N			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00064	J		0.00064	J		0.00073	J		0.00072	J		0.00065	J		0.0006	J		0.00039	J		0.00042	J	
1,1-Dichloroethene	0.007	mg/L	0.00078	J		0.00078	J		0.0011			0.0011			0.00099	J		0.00038	J		0.00035	J		0.00058	J	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	UJ	< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0341			0.0345			0.0479			0.0427			0.0473			0.0252			0.0163			0.0252		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	0.0003	J		0.00023	J		0.00027	J		0.0004	J		0.00028	J		0.00023	J		< 0.001	U		0.00024	J	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		0.0005	J		< 0.002	U		0.0008	J		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	0.00023	J		< 0.001	U		0.00025	J		0.00029	J		0.00033	J		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0334			0.0339			0.0472			0.0419			0.0466			0.0246			0.0163			0.0246		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	UJ	< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	UJ	< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.00064	J		0.00057	J		0.00071	J		0.00072	J		0.00074	J		0.00058	J		< 0.001	U		0.00052	J	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.0035			0.0025			0.002			0.0021			0.0014			**0.005**			0.0025			0.0014		
Vinyl Chloride	0.002	mg/L	0.00047	J		0.00079	J		0.00093	J		0.00093	J		0.0012			0.00093	J		0.00074	J		0.0016		
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-2S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-2S			MW-2S			MW-2S			MW-2S			MW-2S			MW-2S			MW-2S			MW-2S			MW-2S		
		Date	2/7/2008			2/7/2008			5/6/2008			5/6/2008			8/29/2008			8/29/2008			12/22/2008			12/22/2008			3/19/2009		
		sys_sample_code	MW-2S_02_07_2008			BLIND DUPLICATE_02_07_2008			MW-2S_05_06_2008			BLIND DUP_05_06_2008			MW-2S_08_29_2008			BLIND DUP_08_29_2008			MW-2S_12_22_2008			BLIND DUP_12_22_2008			MW-2S_03_19_2009		
		Sample Type	N			FD			N			FD			N			FD			N			FD			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.0074			0.0069			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0014			0.0014			< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0539			0.0498			0.0053			0.0047			0.0027			0.0017			0.0101			0.0103			< 0.001	U	
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
Acetone	11.5	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Carbon Disulfide	0.716	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R
cis-1,2-Dichloroethene	0.07	mg/L	0.053			0.0491			0.0053			0.0047			0.0027			0.0017			0.0099			0.0101			< 0.001	U	
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	**0.103**			**0.0947**			**0.0284**			**0.0241**			**0.0192**			**0.0167**			**0.0289**			**0.0289**			**0.0194**		
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.00094	J		0.00079	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0099**			**0.0091**			0.0033			0.0031			0.0037			0.0025			0.0029			0.003			0.0011		
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-2S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-2S			MW-2S			MW-2S			MW-2S			MW-2S			MW-2S			MW-2S			MW-2S			MW-2S			MW-2S			MW-2S		
		Date	6/19/2009			9/18/2009			12/23/2009			3/11/2010			6/28/2010			9/10/2010			12/16/2010			4/4/2011			6/7/2011			9/15/2011		
		sys_sample_code	MW-2S_06_19_2009			MW-2S_09_18_2009			MW-2S_12_23_2009			MW-2S_03_11_2010			MW-2S_06_28_2010			MW-2S_09_10_2010			MW-2S_12_16_2010			MW-2S BAG_04_04_2011			MW-2S BAG_06_07_2011			MW-2S_09_15_2011		
		Sample Type	N			N			N			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00044	J	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0003	J		< 0.001	U		0.00033	J		0.00028	J		0.0016		
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.0025	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.0025	U		< 0.005	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		0.0022			0.0018	J		0.0026			0.0023			0.0247		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.01	U		< 0.05	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.05	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.01	U		< 0.01	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.01	U		< 0.05	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.005	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00069	J	
Chloromethane	0.127	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	< 0.001	U		< 0.001	U		0.00042	J		< 0.001	U		0.00052	J		0.0022			0.0018			0.0026			0.0023			0.0242		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.001	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.01	U		< 0.005	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	**0.0181**			**0.00646**			**0.007**			0.0041			0.0045			**0.0064**			**0.0073**			**0.0079**			**0.0053**			**0.0217**		
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00047	J	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.001			< 0.001	U		0.00058	J		0.00033	J		0.00047	J		0.0013			0.00089	J		0.0013			0.0016			**0.0158**		
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-2S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-2S			MW-2S			MW-2S			MW-2S			MW-2S			MW-2S			MW-2S			MW-2S		
		Date	12/15/2011			3/14/2012			6/26/2012			10/3/2012			4/23/2013			10/25/2013			4/8/2014			10/21/2014		
		sys_sample_code	MW-2S_12_15_2011			MW-2S_03_14_2012			MW-2S_06_26_2012			MW-2S_10_03_2012			MW-2S_04_23_2013			MW-2S_10_25_2013			MW-2S_04_08_2014			MW-2S_10_21_2014		
		Sample Type	N			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	0.00057	J		0.0003	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.0022			0.0012			0.0012			0.00039	J		0.00035	J		0.00029	J		< 0.001	U		< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	UJ	< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0318			0.0202			0.016			0.0039			0.0051			0.0014	J		< 0.002	U		< 0.002	U	
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	0.00076	J		0.0004	J		0.00037	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0311			0.0198			0.016			0.0039			0.0051			0.0014			0.00038	J		0.00048	J	
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	UJ	< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	UJ	< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	**0.0575**			**0.0454**			**0.0464**			**0.0116**			**0.0121**			**0.0051**			0.0024			0.00068	J	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.00066	J		0.00041	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0082**			0.0048			**0.0052**			0.0034			0.0033			0.0041			0.0019			0.0024		
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-3D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D		
		Date	2/7/2008			5/6/2008			8/29/2008			12/22/2008			3/19/2009			6/19/2009			9/18/2009			12/23/2009			3/11/2010			3/11/2010		
		sys_sample_code	MW-3D_02_07_2008			MW-3D_05_06_2008			MW-3D_08_29_2008			MW-3D_12_22_2008			MW-3D_03_19_2009			MW-3D_06_19_2009			MW-3D_09_18_2009			MW-3D_12_23_2009			MW-3D_03_11_2010			BLIND DUPLICATE_03_11_2010		
		Sample Type	N			N			N			N			N			N			N			N			N			FD		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0012			0.0011			< 0.001	U		0.00095	J		0.00048	J		0.00073	J	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		0.0018			0.0016			0.0017			0.0024			0.0021			< 0.001	U		0.0021			0.00055	J		0.0015		
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	UJ	< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.005	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0012			< 0.001	U		0.00044	J	
1,2-Dichloroethene, Total		mg/L	0.0175			0.0631			0.0623			0.0722			0.112			0.116			0.0321			0.0976			0.0307		J	0.0824		J
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	UJ	< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00062	J		< 0.001	U		0.0005	J	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	0.0016			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	0.0019			< 0.001	U		0.0018			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	0.0013			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00027	J		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0172			0.0615			0.0611			**0.0708**			**0.11**			**0.113**			0.0314			**0.0946**		J	0.0301		J	**0.0809**		J
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.005	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	UJ	< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	**0.006**			0.0012			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.00032	J		0.0016			0.0012			0.0013			0.0024			0.0027			< 0.001	U		0.003			0.00057	J		0.0015		
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.0047			**0.0116**			**0.0095**			**0.0069**			**0.0065**			**0.0061**			0.0034			0.004			0.0023			0.0032		
Vinyl Chloride	0.002	mg/L	< 0.001	U		0.0018			0.0017			**0.0022**			**0.0029**		J	**0.0027**			0.00104			**0.0028**			0.00096	J		**0.0024**		
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	UJ	< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-3D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D		
		Date	6/28/2010			9/10/2010			12/16/2010			4/4/2011			4/4/2011			4/4/2011			6/7/2011			6/7/2011			9/15/2011			12/15/2011			3/14/2012		
		sys_sample_code	MW-3D_06_28_2010			MW-3D_09_10_2010			MW-3D_12_16_2010			MW-3D BAG_04_04_2011			BLIND DUPLICATE_02_04_04_2011			MW-3D PUMP_04_04_2011			MW-3D BAG_06_07_2011			MW-3D PUMP_06_07_2011			MW-3D_09_15_2011			MW-3D_12_15_2011			MW-3D_03_14_2012		
		Sample Type	N			N			N			N			FD			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00062	J		0.00068	J		0.00054	J		0.0004	J		0.00075	J		0.0006	J		0.00065	J		0.00068	J		0.00064	J		0.00046	J		0.00035	J	
1,1-Dichloroethene	0.007	mg/L	0.0011			0.0012			0.0012			0.00059	J		0.0014			0.0011			0.0011			0.0011			0.0014			0.0011			0.00048	J	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0511			0.0554		J	0.0529			0.0296			0.059			0.0487			0.0573			0.0525			0.0536			0.0457			0.0221		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	0.00036	J		0.00041	J		0.00026	J		< 0.001	U		0.00041	J		0.00033	J		0.00035	J		0.00034	J		0.00032	J		0.00026	J		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U	UJ	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		0.00053	J	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0498			0.0544		J	0.0521		J	0.0291			0.058			0.0478			0.0564			0.0516			0.0526			0.0448			0.0217		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U	UJ	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U	UJ	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		0.00026	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00035	J		0.00035	J		< 0.001	U		0.00036	J		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.0013			0.001			0.00083	J		0.00051	J		0.001			0.00089	J		0.0009	J		0.00087	J		0.00099	J		0.0009	J		0.00043	J	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U	UJ	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.0036			0.0037			0.0027			0.0026			**0.005**			0.0041			0.0029			0.0035			0.0034			0.0028			0.0025		
Vinyl Chloride	0.002	mg/L	0.0014			0.0018			0.0015			< 0.001	U		0.0016			0.0012			0.0012			0.0015			0.0016			0.0012			< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-3D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D			MW-3D		
		Date	6/26/2012			10/3/2012			10/3/2012			4/23/2013			4/23/2013			10/25/2013			10/25/2013			4/8/2014			4/8/2014			10/21/2014			10/21/2014		
		sys_sample_code	MW-3D_06_26_2012			MW-3D_10_03_2012			BLIND DUP-D_10_03_2012			MW-3D_04_23_2013			BLIND DUP-D_04_23_2013			MW-3D_10_25_2013			BLIND DUP D_10_25_2013			MW-3D_04_08_2014			BLIND DUP-D_04_08_2014			MW-3D_10_21_2014			BLIND DUP-D_10_21_2014		
		Sample Type	N			N			FD			N			FD			N			FD			N			FD			N			FD		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00067	J		0.00045	J		0.00057	J		0.00055	J		0.0008	J		0.00074	J		0.0006	J	J	0.00069	J		0.00069	J		< 0.001	U		0.00045	J	
1,1-Dichloroethene	0.007	mg/L	0.0015			0.00084	J		0.0011			0.0011			0.0018			0.0014			0.0011		J	0.0016			0.0013			0.00095	J		0.001		
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	UJ	< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0728			0.037			0.0608			0.0613			0.0875			0.0551			0.0538		J	0.064			0.0631			0.0438			0.0406		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	0.00035	J		< 0.001	U		< 0.001	U		0.00021	J		0.00031	J		0.00022	J		< 0.001	U		< 0.001	U		0.00031	J		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		0.00028	J		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	**0.0714**			0.0362			0.0594			0.06			**0.0857**			0.0535			0.0527		J	0.0627			0.0615			0.0429			0.0397		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	UJ	< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	UJ	< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.0015			0.00077	J		0.0014			0.0013			0.0018			0.0015			0.0011		J	0.0013			0.0017			0.00087	J		0.00087	J	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.002			0.0029			0.0018			0.0017			0.0017			0.0029			0.0023		J	0.0013			0.0013			0.0015			0.0016		
Vinyl Chloride	0.002	mg/L	**0.002**			0.00074	J		0.0016			0.0014			**0.0021**			0.0011			0.00097	J	J	0.0019			0.0014			< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-3S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S		
		Date	2/7/2008			5/6/2008			8/29/2008			12/22/2008			3/19/2009			6/19/2009			9/18/2009			12/23/2009			12/23/2009			3/11/2010		
		sys_sample_code	MW-3S_02_07_2008			MW-3S_05_06_2008			MW-3S_08_29_2008			MW-3S_12_22_2008			MW-3S_03_19_2009			MW-3S_06_19_2009			MW-3S_09_18_2009			MW-3S_12_23_2009			BLIND DUP_12_23_2009			MW-3S_03_11_2010		
		Sample Type	N			N			N			N			N			N			N			N			FD			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00033	J		< 0.001	U		0.00031	J	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.005	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0053			0.0074			0.0058			0.0028			0.0015			0.001			< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0053			0.0074			0.0058			0.0028			0.0015			0.001			< 0.001	U		0.00028	J		0.00029	J		< 0.001	U	
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.005	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	**0.0501**			**0.0193**			**0.0119**			**0.011**			**0.0165**			**0.0072**			0.00383			**0.017**			**0.0145**			**0.0158**		
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0165**			**0.0156**			**0.0168**			**0.014**			**0.012**			**0.0071**			0.00478			0.0049			0.0045			0.0044		
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-3S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S		
		Date	6/28/2010			6/28/2010			9/10/2010			9/10/2010			12/16/2010			12/16/2010			4/4/2011			4/4/2011			6/7/2011			6/7/2011		
		sys_sample_code	MW-3S_06_28_2010			BLIND DUPLICATE_06_28_2010			MW-3S_09_10_2010			BLIND DUPLICATE_09_10_2010			MW-3S_12_16_2010			BLIND DUP_12_16_2010			MW-3S BAG_04_04_2011			MW-3S PUMP_04_04_2011			MW-3S BAG_06_07_2011			MW-3S PUMP_06_07_2011		
		Sample Type	N			FD			N			FD			N			FD			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		0.00065	J		0.00055	J		0.00031	J		0.0003	J		0.0003	J		< 0.001	U		0.00033	J		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00028	J		0.00031	J	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00025	J	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0013	J		0.0012	J		0.0016	J		0.0014	J		< 0.002	U		< 0.002	U		0.0024			0.0079			0.0037			0.0122		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0013			0.0012			0.0016			0.0014			0.00054	J		0.00055	J		0.0024			0.0079			0.0037		J	0.0122		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	**0.0111**			**0.0102**			**0.0319**			**0.0248**			**0.0146**			**0.0135**			**0.0149**			**0.0072**			**0.0162**			**0.0062**		
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00024	J		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0056**			**0.0053**			**0.0068**			**0.0059**			0.0041			0.004			**0.0063**			**0.0059**			**0.0065**			**0.0059**		
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-3S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S		
		Date	9/15/2011			12/15/2011			12/15/2011			3/14/2012			3/14/2012			6/26/2012			6/26/2012			10/3/2012			10/3/2012			4/23/2013		
		sys_sample_code	MW-3S_09_15_2011			MW-3S_12_15_2011			BLIND DUPLICATE_12_15_2011			MW-3S_03_14_2012			BLIND DUPLICATE_03_14_2012			MW-3S_06_26_2012			BLIND DUP_06_26_2012			MW-3S_10_03_2012			BLIND DUP-S_10_03_2012			MW-3S_04_23_2013		
		Sample Type	N			N			FD			N			FD			N			FD			N			FD			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	0.00068	J		0.00082	J		0.0008	J		0.00084	J		0.00092	J		0.0004	J		< 0.001	U		0.00054	J		< 0.001	U		0.00083	J	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00039	J		0.00048	J		0.00045	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00027	J	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.006			0.0051			0.0047			0.0026			0.0024			0.0014	J		0.002			0.0026			0.0024			0.0023		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		0.00024	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.006			0.0051			0.0047			0.0026			0.0024			0.0014			0.002			0.0026			0.0024			0.0023		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	**0.0243**			**0.0283**			**0.0284**			**0.0267**			**0.0279**			**0.0121**			**0.0083**			**0.0233**			**0.0209**			**0.0379**		
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.008**			**0.0072**			**0.0065**			**0.0055**			**0.0056**			**0.0054**			**0.005**			0.0049			0.0047			0.0031		
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-3S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S			MW-3S		
		Date	4/23/2013			10/25/2013			10/25/2013			4/8/2014			4/8/2014			10/21/2014			10/21/2014		
		sys_sample_code	BLIND DUP-S_04_23_2013			MW-3S_10_25_2013			BLIND DUP S_10_25_2013			MW-3S_04_08_2014			BLIND DUP-S_04_08_2014			MW-3S_10_21_2014			BLIND DUP-S_10_21_2014		
		Sample Type	FD			N			FD			N			FD			N			FD		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	0.00083	J		0.00057	J		0.0004	J	J	< 0.001	U		0.00068	J		0.00059	J		0.00069	J	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00032	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	UJ	< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0022			0.0016	J		0.0012	J	J	0.00087	J		0.0013	J		< 0.002	U		< 0.002	U	
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0022			0.0016			0.0012		J	0.00087	J		0.0013			0.00044	J		< 0.001	U	
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	UJ	< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	UJ	< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	**0.0378**			**0.0113**			**0.0106**		J	**0.0217**			**0.0242**			**0.0193**			**0.0211**		
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.003			0.0019			0.0016		J	0.0014			0.0015			0.002			0.0015		
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-4D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-4D			MW-4D			MW-4D			MW-4D			MW-4D			MW-4D			MW-4D			MW-4D			MW-4D			MW-4D			MW-4D			MW-4D		
		Date	4/4/2011			6/7/2011			9/15/2011			12/15/2011			3/14/2012			6/26/2012			10/3/2012			4/23/2013			10/25/2013			4/8/2014			10/21/2014		
		sys_sample_code	MW-4D BAG_04_04_2011			MW-4D BAG_06_07_2011			MW-4D_09_15_2011			MW-4D_12_15_2011			MW-4D_03_14_2012			MW-4D_06_26_2012			MW-4D_10_03_2012			MW-4D_04_23_2013			MW-4D_10_25_2013			MW-4D_04_08_2014			MW-4D_10_21_2014		
		Sample Type	N			N			N			N			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00041	J		0.00077	J		0.00085	J		0.00068	J		0.00064	J		< 0.001	U		0.00081	J		0.00081	J		0.00097	J		< 0.001	U		< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	0.00051	J		0.00085	J		0.00085	J		0.00064	J		0.00051	J		0.00054	J		0.00059	J		0.00045	J		0.00065	J		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0204			0.0359			0.032			0.023			0.0183			0.0201			0.0197			0.0147			0.0185			0.0136			0.0111		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		0.00029	J		0.00026	J		0.00024	J		< 0.001	U		0.00025	J		0.00026	J		< 0.001	U		0.00031	J		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	0.0016			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	0.00042	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		0.00033	J		0.0003	J		0.00027	J		< 0.001	U		0.00021	J		0.00026	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	0.0019			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	0.0013			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0201			0.0354			0.0315			0.0226			0.0179			0.0201			0.0192			0.0143			0.0181			0.0136			0.0111		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	0.00069	J		< 0.001	U		0.00026	J		< 0.001	U		0.00059	J		< 0.001	U		< 0.001	U		0.0004	J		< 0.001	U		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		0.00057	J		0.00048	J		0.0004	J		< 0.001	U		< 0.001	U		0.00046	J		0.00033	J		0.00045	J		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.002			0.0032			0.0032			0.0027			0.0023			0.0028			0.0029			0.0023			0.0024			0.0017			0.0019		
Vinyl Chloride	0.002	mg/L	0.00044	J		0.001			0.00077	J		0.00049	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-4S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-4S			MW-4S			MW-4S			MW-4S			MW-4S			MW-4S			MW-4S			MW-4S			MW-4S			MW-4S			MW-4S			MW-4S		
		Date	4/4/2011			6/7/2011			9/15/2011			12/15/2011			3/14/2012			6/26/2012			10/3/2012			4/23/2013			10/25/2013			4/8/2014			10/21/2014		
		sys_sample_code	MW-4S PUMP_04_04_2011			MW-4S BAG_06_07_2011			MW-4S_09_15_2011			MW-4S_12_15_2011			MW-4S_03_14_2012			MW-4S_06_26_2012			MW-4S_10_03_2012			MW-4S_04_23_2013			MW-4S_10_25_2013			MW-4S_04_08_2014			MW-4S_10_21_2014		
		Sample Type	N			N			N			N			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00049	J		0.00029	J		0.00032	J		< 0.001	U		0.00027	J		< 0.001	U		0.00022	J		0.00023	J		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	UJ	< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0044			0.00081	J		0.00091	J		0.00079	J		0.001	J		0.00082	J		0.0015	J		0.00053	J		0.00046	J		< 0.002	U		< 0.002	U	
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		0.00052	J		0.00029	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	J	U	0.00029	J		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0044			0.00081	J		0.00091	J		0.00079	J		0.001			0.00082	J		0.0015			0.00053	J		0.00046	J		< 0.001	U		< 0.001	U	
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	UJ	< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	UJ	< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	0.00065	J		0.0045			0.0049			0.0013			0.0011			0.0032			0.0011			0.0026			0.0026			0.0011			0.001		
Toluene	1	mg/L	0.0002	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.0019			0.00081	J		0.0011			0.00058	J		0.0007	J		0.00066	J		0.0008	J		0.00064	J		0.0004	J		0.00044	J		< 0.001	U	
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-5D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-5D			MW-5D			MW-5D			MW-5D			MW-5D			MW-5D			MW-5D			MW-5D			MW-5D		
		Date	4/4/2011			4/4/2011			4/4/2011			6/7/2011			6/7/2011			9/15/2011			12/15/2011			3/14/2012			6/26/2012		
		sys_sample_code	MW-5D BAG_04_04_2011			BLIND DUPLICATE_01_04_04_2011			MW-5D PUMP_04_04_2011			MW-5D BAG_06_07_2011			MW-5D PUMP_06_07_2011			MW-5D_09_15_2011			MW-5D_12_15_2011			MW-5D_03_14_2012			MW-5D_06_26_2012		
		Sample Type	N			FD			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00044	J		0.00051	J		0.0011			0.00052	J		0.0015			0.00089	J		0.00084	J		0.00064	J		0.0007	J	
1,1-Dichloroethene	0.007	mg/L	0.0013			0.0014			0.0025			0.001			0.0033			0.002			0.0021			0.001			0.0018		
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0357			0.0395			0.0838			0.0395			0.0807			0.0631			0.0622			0.0369			0.0641		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		1.51			0.0213	J		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		0.00025	J		< 0.001	U		0.00036	J		< 0.001	U		0.00024	J		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	0.0015			0.0014			< 0.001	U		0.0011			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	0.00043	J		0.00038	J		< 0.001	U		0.00032	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		0.00088	J		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	0.0016			0.0015			< 0.001	U		0.0011			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	0.0013			0.0012			< 0.001	U		0.001			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0351			0.0389			**0.0824**			0.0389			0.0795			0.0622			0.0613			0.0365			0.0632		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	0.00066	J		0.00059	J		0.00037	J		0.00071	J		0.00033	J		0.00045	J		0.00035	J		0.00027	J		0.00041	J	
Toluene	1	mg/L	0.00026	J		0.00025	J		0.00055	J		0.00027	J		0.00048	J		< 0.001	U		0.0002	J		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.00059	J		0.00062	J		0.0013			0.00069	J		0.0018			0.00099	J		0.00091	J		0.00041	J		0.00097	J	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0126**			**0.0133**			**0.0173**			**0.01**			**0.023**			**0.0172**			**0.016**			**0.0094**			**0.0166**		
Vinyl Chloride	0.002	mg/L	0.001			0.0011			0.0023			0.0011			0.0036			0.0017			0.0017			0.0004	J		0.0014		
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-5D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-5D			MW-5D			MW-5D			MW-5D			MW-5D		
		Date	10/3/2012			4/23/2013			10/25/2013			4/8/2014			10/21/2014		
		sys_sample_code	MW-5D_10_03_2012			MW-5D_04_23_2013			MW-5D_10_25_2013			MW-5D_04_08_2014			MW-5D_10_21_2014		
		Sample Type	N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.0007	J		0.00064	J		0.00041	J	J	0.00045	J		0.00032	J	
1,1-Dichloroethene	0.007	mg/L	0.0019			0.0014			0.0011		J	0.0012			0.00095	J	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0578			0.0582			0.038		J	0.04			0.0333		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		0.00023	J		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	0.00024	J		0.00028	J		0.0002	J	J	0.00025	J		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0569			0.057			0.037		J	0.039			0.0325		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	0.0003	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	0.00067	J		0.0005	J		0.0007	J	J	0.00068	J		0.00064	J	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.00098	J		0.0012			0.001		J	0.00097	J		0.00084	J	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0167**			**0.0137**			**0.0146**		J	**0.0146**			**0.0136**		
Vinyl Chloride	0.002	mg/L	0.0013			0.0012			0.00081	J	J	0.00076	J		0.00074	J	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-5S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-5S			MW-5S			MW-5S			MW-5S			MW-5S			MW-5S			MW-5S			MW-5S			MW-5S		
		Date	4/4/2011			4/4/2011			6/7/2011			6/7/2011			9/15/2011			12/15/2011			3/14/2012			6/26/2012			10/3/2012		
		sys_sample_code	MW-5S BAG_04_04_2011			MW-5S PUMP_04_04_2011			MW-5S BAG_06_07_2011			MW-5S PUMP_06_07_2011			MW-5S_09_15_2011			MW-5S_12_15_2011			MW-5S_03_14_2012			MW-5S_06_26_2012			MW-5S_10_03_2012		
		Sample Type	N			N			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00036	J		0.00037	J		0.00046	J		0.00027	J		< 0.001	U		< 0.001	U		0.00029	J		< 0.001	U		0.00034	J	
1,1-Dichloroethene	0.007	mg/L	0.00086	J		0.00057	J		0.00083	J		0.00055	J		< 0.001	U		< 0.001	U		0.00061	J		0.00058	J		0.00056	J	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0233			0.0195			0.0299			0.0206			0.0047			0.0025			0.0194			0.0183			0.0197		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0227			0.0189			0.0291			0.02			0.0047			0.0025			0.0189			0.0183			0.0193		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	**0.0279**			**0.0361**			**0.018**			**0.0187**			**0.0122**			**0.0161**			**0.0072**			**0.0056**			**0.0064**		
Toluene	1	mg/L	< 0.001	U		0.00022	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.00062	J		0.00059	J		0.00079	J		0.00056	J		< 0.001	U		< 0.001	U		0.00046	J		< 0.001	U		0.00043	J	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0317**			**0.0225**			**0.0314**			**0.0215**			**0.0075**			0.0037			**0.0148**			**0.0148**			**0.0149**		
Vinyl Chloride	0.002	mg/L	0.00064	J		0.00042	J		0.00086	J		0.00058	J		< 0.001	U		< 0.001	U		0.00036	J		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
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FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-5S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-5S			MW-5S			MW-5S			MW-5S		
		Date	4/23/2013			10/25/2013			4/8/2014			10/21/2014		
		sys_sample_code	MW-5S_04_23_2013			MW-5S_10_25_2013			MW-5S_04_08_2014			MW-5S_10_21_2014		
		Sample Type	N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00033	J		< 0.001	U		0.00032	J		< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	0.0007	J		0.00036	J	J	0.00065	J		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0231			0.0097		J	0.0239			0.0017	J	
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0225			0.0094		J	0.0232			0.0017		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	0.0044			0.0049		J	0.0046			0.0043		
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.00055	J		0.00026	J	J	0.00063	J		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0143**			**0.0081**		J	**0.0183**			0.0038		
Vinyl Chloride	0.002	mg/L	0.00061	J		< 0.001	U		0.00052	J		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-6D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-6D			MW-6D			MW-6D			MW-6D			MW-6D			MW-6D			MW-6D			MW-6D			MW-6D		
		Date	4/4/2011			4/4/2011			6/7/2011			6/7/2011			9/15/2011			12/15/2011			3/14/2012			6/26/2012			10/3/2012		
		sys_sample_code	MW-6D BAG_04_04_2011			MW-6D PUMP_04_04_2011			MW-6D BAG_06_07_2011			MW-6D_06_07_2011			MW-6D_09_15_2011			MW-6D_12_15_2011			MW-6D_03_14_2012			MW-6D_06_26_2012			MW-6D_10_03_2012		
		Sample Type	N			N			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00064	J		0.00087	J		0.00091	J		0.00095	J		0.001			0.00096	J		0.00082	J		0.00068	J		0.0006	J	
1,1-Dichloroethene	0.007	mg/L	0.0012		J	0.0017			0.0021			0.0021			0.0023			0.0026			0.0022			0.0018			< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.049		J	0.0666			0.0859			0.0802		J	0.0814			0.0855			0.0776			0.0683			0.0674		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	0.00028	J		0.0003	J		0.0004	J		< 0.001	U		0.0003	J		0.00029	J		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	0.00035	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0483		J	0.0655			**0.0847**			**0.0788**		J	**0.08**			**0.0841**			**0.0763**			0.0671			0.0658		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	0.00072	J		0.00084	J		0.00065	J		0.00081	J		< 0.001	U		0.00044	J		0.00056	J		< 0.001	U		< 0.001	U	
Toluene	1	mg/L	0.00024	J		0.00026	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.00077	J		0.0011			0.0012			0.0014			0.0013			0.0014			0.0013			0.0012			0.0016		
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0108**		J	**0.014**			**0.0172**			**0.0173**			**0.0166**			**0.0178**			**0.0164**			**0.0167**			**0.0163**		
Vinyl Chloride	0.002	mg/L	0.0015			0.0019			**0.0021**			**0.0025**			0.0018			**0.0024**			0.0019			0.0017			0.0017		
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-6D
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-6D			MW-6D			MW-6D			MW-6D		
		Date	4/23/2013			10/25/2013			4/8/2014			10/21/2014		
		sys_sample_code	MW-6D_04_23_2013			MW-6D_10_25_2013			MW-6D_04_08_2014			MW-6D_10_21_2014		
		Sample Type	N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.0007	J		0.00058	J	J	0.00065	J		0.00057	J	
1,1-Dichloroethene	0.007	mg/L	0.0019			0.0015		J	0.0017			0.0013		
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0771			0.0547		J	0.0632			0.05		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		0.00025	J		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		0.00026	J		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		0.0006	J		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	**0.0756**			0.0536		J	0.0619			0.0491		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	0.00042	J		0.00047	J	J	< 0.001	U		< 0.001	U	
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.0015			0.0011		J	0.0013			0.00091	J	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0181**			**0.0128**		J	**0.0085**			**0.0116**		
Vinyl Chloride	0.002	mg/L	0.0016			0.00069	J	J	0.0014			0.0012		
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-6S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-6S			MW-6S			MW-6S			MW-6S			MW-6S			MW-6S			MW-6S			MW-6S		
		Date	4/4/2011			4/4/2011			6/7/2011			6/7/2011			6/7/2011			6/7/2011			9/15/2011			12/15/2011		
		sys_sample_code	MW-6S BAG_04_04_2011			MW-6S PUMP_04_04_2011			MW-6S BAG_06_07_2011			BLIND DUPLICATE BAG_06_07_2011			MW-6S_06_07_2011			BLIND DUPLICATE_06_07_2011			MW-6S_09_15_2011			MW-6S_12_15_2011		
		Sample Type	N			N			N			FD			N			FD			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00045	J	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00032	J		0.00035	J		0.00042	J		0.00036	J		0.00043	J		0.00042	J		0.00037	J		0.0004	J	
1,1-Dichloroethene	0.007	mg/L	0.00028	J		0.00042	J		0.00068	J		0.00069	J		0.00056	J		0.00061	J		0.00054	J		0.00056	J	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0235			0.0295			0.0344			0.0338			0.0318			0.0319			0.0246			0.0353		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	0.0028	J		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0232			0.0291			0.0338			0.0333			0.0312			0.0314			0.0242			0.0347		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	**0.0225**			**0.0266**			**0.0101**			**0.0102**			**0.0247**			**0.025**			**0.0216**			**0.0794**		
Toluene	1	mg/L	< 0.001	U		0.00031	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		0.0004	J		0.00054	J		0.00049	J		0.00056	J		0.00054	J		0.00037	J		0.00055	J	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0115**			**0.0134**			**0.0169**			**0.0165**			**0.0147**			**0.0156**			**0.015**			**0.0221**		
Vinyl Chloride	0.002	mg/L	**0.0029**			**0.0027**			0.00078	J		0.00069	J		0.0009	J		0.00085	J		0.00041	J		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-MW-6S
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	MW-6S			MW-6S			MW-6S			MW-6S			MW-6S			MW-6S			MW-6S		
		Date	3/14/2012			6/26/2012			10/3/2012			4/23/2013			10/25/2013			4/8/2014			10/21/2014		
		sys_sample_code	MW-6S_03_14_2012			MW-6S_06_26_2012			MW-6S_10_03_2012			MW-6S_04_23_2013			MW-6S_10_25_2013			MW-6S_04_08_2014			MW-6S_10_21_2014		
		Sample Type	N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	0.00043	J		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00027	J		< 0.002	U		< 0.002	U		0.00029	J		0.00024	J	J	0.00042	J		0.0004	J	
1,1-Dichloroethene	0.007	mg/L	0.0005	J		< 0.002	U		< 0.002	U		0.00047	J		0.00034	J	J	0.00065	J		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.004	U		< 0.004	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.004	U		< 0.004	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.004	U		< 0.004	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0299			0.0239			0.0547			0.0266			0.0244		J	0.041			0.04		
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.004	U		< 0.004	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.01	U		< 0.01	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.02	U		< 0.02	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.01	U		< 0.01	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.05	U		< 0.05	U		< 0.025	U		< 0.025	U		< 0.025	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.004	U		< 0.004	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.004	U		< 0.004	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.004	U		< 0.004	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.004	U		< 0.004	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0292			0.0239			0.0547			0.0258			0.0238		J	0.0401			0.0389		
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.004	U		< 0.004	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.004	U		< 0.004	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.004	U		< 0.004	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.004	U		< 0.004	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		**0.0066**	J		< 0.01	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.006	U		< 0.006	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	**0.181**			**0.134**			**0.0682**			**0.0694**			**0.0363**		J	**0.0442**			**0.0315**		
Toluene	1	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	0.00072	J		< 0.002	U		< 0.002	U		0.00082	J		0.00058	J	J	0.00092	J		0.0011		
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.002	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0263**			**0.0198**			**0.0181**			**0.0188**			**0.0148**		J	**0.0128**			**0.0136**		
Vinyl Chloride	0.002	mg/L	0.00058	J		0.0011	J		**0.0038**			0.00056	J		< 0.001	U		0.00067	J		0.0012		
Xylenes, Total	10	mg/L	< 0.003	U		< 0.006	U		< 0.006	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-PZ-3
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	PZ-3			PZ-3			PZ-3			PZ-3			PZ-3			PZ-3			PZ-3			PZ-3		
		Date	2/7/2008			5/6/2008			8/29/2008			12/22/2008			3/19/2009			6/19/2009			9/18/2009			12/23/2009		
		sys_sample_code	PZ-3_02_07_2008			PZ-3_05_06_2008			PZ-3_08_29_2008			PZ-3_12_22_2008			PZ-3_03_19_2009			PZ-3_06_19_2009			PZ-3_09_18_2009			PZ-3_12_23_2009		
		Sample Type	N			N			N			N			N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.0014			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.001	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.0025	U		< 0.005	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	0.0079			0.0036			0.0024			< 0.001	U		0.0012			< 0.001	U		< 0.001	U		0.0009	J	
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		0.0102			< 0.05	U		< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U		< 0.001	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0019			0.0017			0.0011			< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloromethane	0.127	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.0076			0.0036			0.0024			< 0.001	U		0.0012			< 0.001	U		< 0.001	U		0.0009	J	
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.005	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	**0.117**			**0.0734**			**0.0209**			**0.0252**			**0.0127**			0.0026			**0.00702**			0.0016		
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	**0.0081**			0.0044			0.0019			0.0015			0.0011			< 0.001	U		< 0.001	U		0.0006	J	
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	R	< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 2-PZ-3
Groundwater Monitoring
Analytical Data Summary Through October 2014
Brenntag, Southwest, Inc., Wichita, KS

		Well ID	PZ-3			PZ-3			PZ-3			PZ-3		
		Date	3/11/2010			6/28/2010			9/10/2010			12/16/2010		
		sys_sample_code	PZ-3_03_11_2010			PZ-3_06_28_2010			PZ-3_09_10_2010			PZ-3_12_16_2010		
		Sample Type	N			N			N			N		
Chemical	RSK for Residential Groundwater Pathway	Units	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
1,1,1,2-Tetrachloroethane	0.00535	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,1-Trichloroethane	0.2	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2,2-Tetrachloroethane	0.000694	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1,2-Trichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloroethane	0.025	mg/L	0.00037	J		< 0.001	U		0.00071	J		< 0.001	U	
1,1-Dichloroethene	0.007	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,1-Dichloropropene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,3-Trichloropropane	0.00000468	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2,4-Trichlorobenzene	0.07	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2,4-Trimethylbenzene	0.00844	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromo-3-chloropropane	0.0002	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,2-Dibromoethane	0.00005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichlorobenzene	0.6	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,2-Dichloroethene, Total		mg/L	< 0.002	U		< 0.002	U		0.0023			< 0.002	U	
1,2-Dichloropropane	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3,5-Trimethylbenzene	0.044	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
1,3-Dichlorobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,3-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
1,4-Dichlorobenzene	0.075	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2,2-Dichloropropane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Butanone	4.92	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
2-Chlorotoluene	0.0889	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
2-Hexanone		mg/L	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
4-Chlorotoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
4-Methyl-2-pentanone	1.02	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Acetone	11.5	mg/L	< 0.025	U		< 0.025	U		0.0946			< 0.025	U	
Benzene	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		0.00028	J	
Bromobenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromochloromethane		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromodichloromethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromoform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Bromomethane	0.00702	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Disulfide	0.716	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Carbon Tetrachloride	0.005	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorobenzene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chlorodibromomethane	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Chloroethane	14	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Chloroform	0.08	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		0.00079	J	
Chloromethane	0.127	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
cis-1,2-Dichloroethene	0.07	mg/L	0.00064	J		0.00065	J		0.0023			0.00048	J	
cis-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Dibromomethane		mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Dichlorodifluoromethane	0.366	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Ethylbenzene	0.7	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Fluorotrichloromethane	1.09	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Hexachlorobutadiene	0.00632	mg/L	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U	
Isopropylbenzene	0.451	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Methylene Chloride	0.005	mg/L	< 0.005	U		< 0.005	U		< 0.005	U		< 0.005	U	
Methyl-tert-butyl-ether	0.133	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Naphthalene	0.00111	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	
n-Butylbenzene	0.169	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
n-Propylbenzene	0.66	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
p-Isopropyltoluene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
sec-Butylbenzene	0.0305	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Styrene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
tert-Butylbenzene		mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Tetrachloroethene	0.005	mg/L	**0.0232**			**0.0122**			**0.0487**			**0.022**		
Toluene	1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,2-Dichloroethene	0.1	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
trans-1,3-Dichloropropene	0.0049	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Trichloroethene	0.005	mg/L	0.0023			0.0013			0.0048			0.0015		
Vinyl Chloride	0.002	mg/L	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
Xylenes, Total	10	mg/L	< 0.003	U		< 0.003	U		< 0.003	U		< 0.003	U	

Prepared by: DJD
Checked by: RMK

J - Est. Value
UJ - Est. Reporting Limit
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Reults Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 3
Groundwater Monitoring Analytical Data - Detects Only
Through October 2014
Brenntag Southwest, Inc. Wichita, KS

			Chemical	1,1,1-Trichloroethane			1,1-Dichloroethane			1,1-Dichloroethene			1,2-Dichloroethane			1,2-Dichloroethene, Total			1,3-Dichlorobenzene			1,4-Dichlorobenzene			2-Butanone			Acetone			Benzene			Bromodichloromethane			Bromoform			Carbon Disulfide		
			RSK for Residential Groundwater Pathway	0.2			0.025			0.007			0.005									0.075			4.92			11.5			0.005			0.08			0.08			0.716		
			KS_RES_action_level_unit	mg/L			mg/L			mg/L			mg/L									mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
			Units	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Well ID	Date	sys_sample_code	Sample Type	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
MW-1D	2/7/2008	MW-1D_02_07_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0158			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		0.0012			< 0.001	U		< 0.005	U	
	5/6/2008	MW-1D_05_06_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0091			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	8/29/2008	MW-1D_08_29_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0233			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	12/22/2008	MW-1D_12_22_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0187			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	3/19/2009	MW-1D_03_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0311			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	6/19/2009	MW-1D_06_19_2009	N	< 0.001	U		< 0.001	U		0.0018			< 0.001	U		0.0631			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	9/18/2009	MW-1D_09_18_2009	N	< 0.001	U		< 0.001	U		0.00125			< 0.001	U		0.0392			< 0.001	U		< 0.001	U		< 0.05	U		< 0.05	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
	12/23/2009	MW-1D_12_23_2009	N	< 0.001	U		0.00062	J		0.0013			< 0.001	U		0.0466			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/11/2010	MW-1D_03_11_2010	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0103			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/28/2010	MW-1D_06_28_2010	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0113			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/10/2010	MW-1D_09_10_2010	N	< 0.001	U		0.00023	J		< 0.001	U		< 0.001	U		0.0142			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/16/2010	MW-1D_12_16_2010	N	< 0.001	U		0.00064	J		0.00062	J		< 0.001	U		0.027			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00022	J		< 0.001	U		< 0.001	U		< 0.002	U	
	4/4/2011	MW-1D BAG_04_04_2011	N	< 0.001	U		0.00031	J		0.00025	J		< 0.001	U		0.0114			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-1D BAG_06_07_2011	N	< 0.001	U		0.00041	J		< 0.001	U		< 0.001	U		0.0105			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/15/2011	MW-1D_09_15_2011	N	< 0.001	U		0.00059	J		0.00044	J		< 0.001	U		0.0169			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/15/2011	MW-1D_12_15_2011	N	< 0.001	U		0.0005	J		0.00032	J		< 0.001	U		0.0136			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/14/2012	MW-1D_03_14_2012	N	< 0.001	U		0.00042	J		0.00032	J		< 0.001	U		0.0142			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/26/2012	MW-1D_06_26_2012	N	< 0.001	U		0.00047	J		< 0.001	U		< 0.001	U		0.0131			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/3/2012	MW-1D_10_03_2012	N	< 0.001	U		0.0006	J		0.00038	J		< 0.001	U		0.0166			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00023	J		< 0.001	U		< 0.001	U		< 0.002	U	
	4/23/2013	MW-1D_04_23_2013	N	< 0.001	U		0.00062	J		0.00043	J		< 0.001	U		0.0189			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00028	J		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	MW-1D_10_25_2013	N	< 0.001	U		0.00057	J		0.00046	J		< 0.001	U		0.0141			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/8/2014	MW-1D_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0047			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/21/2014	MW-1D_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0036			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
MW-1S	2/7/2008	MW-1S_02_07_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0022			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	5/6/2008	MW-1S_05_06_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0063			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	8/29/2008	MW-1S_08_29_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	12/22/2008	MW-1S_12_22_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0019			0.0016			< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	3/19/2009	MW-1S_03_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0083			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	6/19/2009	MW-1S_06_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0025			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	9/18/2009	MW-1S_09_18_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.05	U		< 0.05	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
	12/23/2009	MW-1S_12_23_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0014	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/11/2010	MW-1S_03_11_2010	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0032			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/28/2010	MW-1S_06_28_2010	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/10/2010	MW-1S_09_10_2010	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/16/2010	MW-1S_12_16_2010	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/4/2011	MW-1S BAG_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0032			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-1S BAG_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.001	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/15/2011	MW-1S_09_15_2011	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0011	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/15/2011	MW-1S_12_15_2011	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/14/2012	MW-1S_03_14_2012	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0012	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/26/2012	MW-1S_06_26_2012	N	< 0.001	U		0.00027	J		< 0.001	U		< 0.001	U		0.0015	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/3/2012	MW-1S_10_03_2012	N	< 0.001	U		0.00043	J		< 0.001	U		< 0.001	U		0.0016	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/23/2013	MW-1S_04_23_2013	N	< 0.001	U		0.00038	J		< 0.001	U		< 0.001	U		0.002			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	MW-1S_10_25_2013	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0014	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/8/2014	MW-1S_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0011	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/21/2014	MW-1S_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
MW-2D	2/7/2008	MW-2D_02_07_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0269			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	5/6/2008	MW-2D_05_06_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.011			< 0.001	U		< 0.001	U		< 0.01	U		0.0407			< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	8/29/2008	MW-2D_08_29_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0421			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	12/22/2008	MW-2D_12_22_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0177			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	3/19/2009	MW-2D_03_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0406			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	3/19/2009	BLIND DUPLICATE_03_19_2009	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.046			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	6/19/2009	MW-2D_06_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0431			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	6/19/2009	BLIND DUPLICATE_06_19_2009	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0387			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	9/18/2009	MW-2D_09_18_2009	N	< 0.001	U		< 0.001	U		0.00105			< 0.001	U		0.0389			< 0.001	U		< 0.001	U		< 0.05	U		< 0.05	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
	9/18/2009	BLIND DUP_09_18_2009	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0332			< 0.001	U		< 0.001	U		< 0.05	U		< 0.05	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
	12/23/2009	MW-2D_12_23_2009	N	< 0.001	U		0.00059	J		0.0011			< 0.001	U		0.0452			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/11/2010	MW-2D_03_11_2010	N	< 0.001	U		0.0004	J		0.00049	J		< 0.001	U		0.0233			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/28/2010	MW-2D_06_28_2010	N	< 0.001	U		0.00038	J		< 0.001	U		< 0.001	U		0.0113			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/10/2010	MW-2D_09_10_2010	N	< 0.001	U		0.00041	J		< 0.001	U		< 0.001	U		0.0148			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/16/2010	MW-2D_12_16_2010	N	< 0.001	U		0.00036	J		0.00035	J		< 0.001	U		0.014			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/4/2011	MW-2D BAG_04_04_2011	N	< 0.001	U		0.00061	J		0.00082	J		< 0.001	U		0.0322			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00024	J		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-2D BAG_06_07_2011	N	< 0.001	U		0.00071	J		0.00074	J		< 0.001	U		0.0329			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00025	J		< 0.001	U		< 0.001	U		< 0.002	U	
	9/15/2011	MW-2D_09_15_2011	N	< 0.001	U		0.00076	J		0.001			< 0.001	U		0.0443			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00034	J		< 0.001	U		< 0.001	U		< 0.002	U	
	12/15/2011	MW-2D_12_15_2011	N	< 0.001	U		0.00064	J		0.00078	J		< 0.001	U		0.0341			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.0003	J		< 0.001	U		< 0.001	U		< 0.002	U	
	3/14/2012	MW-2D_03_14_2012	N	< 0.001	U		0.00064	J		0.00078	J		< 0.001	U		0.0345			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00023	J		< 0.001	U		< 0.001	U		< 0.002	U	
	6/26/2012	MW-2D_06_26_2012	N	< 0.001	U		0.00073	J		0.0011			< 0.001	U		0.0479			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00027	J		< 0.001	U		< 0.001	U		< 0.002	U	
	10/3/2012	MW-2D_10_03_2012	N	< 0.001	U		0.00072	J		0.0011			< 0.001	U		0.0427			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.0004	J		< 0.001	U		< 0.001	U		0.0005	J	
	4/23/2013	MW-2D_04_23_2013	N	< 0.001	U		0.00065	J		0.00099	J		< 0.001	U		0.0473			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00028	J		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	MW-2D_10_25_2013	N	< 0.001	U		0.0006	J		0.00038	J		< 0.001	U		0.0252			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00023	J		< 0.001	U		< 0.001	U		0.0008	J	
	4/8/2014	MW-2D_04_08_2014	N	< 0.001	U		0.00039	J		0.00035	J		< 0.001	U		0.0163			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/21/2014	MW-2D_10_21_2014	N	< 0.001	U		0.00042	J		0.00058	J		< 0.001	U		0.0252			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00024	J		< 0.001	U		< 0.001	U		< 0.002	U	

J - Est. Value
UJ - Est. Reporting Limt
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Results Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 3
Groundwater Monitoring Analytical Data - Detects Only
Through October 2014
Brenntag Southwest, Inc. Wichita, KS

			Chemical	1,1,1-Trichloroethane			1,1-Dichloroethane			1,1-Dichloroethene			1,2-Dichloroethane			1,2-Dichloroethene, Total			1,3-Dichlorobenzene			1,4-Dichlorobenzene			2-Butanone			Acetone			Benzene			Bromodichloromethane			Bromoform			Carbon Disulfide		
			RSK for Residential Groundwater Pathway	0.2			0.025			0.007			0.005									0.075			4.92			11.5			0.005			0.08			0.08			0.716		
			KS_RES_action_level_unit	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
			Units	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Well ID	Date	sys_sample_code	Sample Type	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
MW-2S	2/7/2008	MW-2S_02_07_2008	N	< 0.001	U		0.0074			< 0.001	U		< 0.001	U		0.0539			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	2/7/2008	BLIND DUPLICATE_02_07_2008	FD	< 0.001	U		0.0069			< 0.001	U		< 0.001	U		0.0498			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	5/6/2008	MW-2S_05_06_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0053			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	5/6/2008	BLIND DUP_05_06_2008	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0047			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	8/29/2008	MW-2S_08_29_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0027			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	8/29/2008	BLIND DUP_08_29_2008	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0017			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	12/22/2008	MW-2S_12_22_2008	N	< 0.001	U		0.0014			< 0.001	U		< 0.001	U		0.0101			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	12/22/2008	BLIND DUP_12_22_2008	FD	< 0.001	U		0.0014			< 0.001	U		< 0.001	U		0.0103			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	3/19/2009	MW-2S_03_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	6/19/2009	MW-2S_06_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	9/18/2009	MW-2S_09_18_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.05	U		< 0.05	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
	12/23/2009	MW-2S_12_23_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/11/2010	MW-2S_03_11_2010	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/28/2010	MW-2S_06_28_2010	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/10/2010	MW-2S_09_10_2010	N	< 0.001	U		0.0003	J		< 0.001	U		< 0.001	U		0.0022			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/16/2010	MW-2S_12_16_2010	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0018	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/4/2011	MW-2S BAG_04_04_2011	N	< 0.001	U		0.00033	J		< 0.001	U		< 0.001	U		0.0026			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-2S BAG_06_07_2011	N	< 0.001	U		0.00028	J		< 0.001	U		< 0.001	U		0.0023			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/15/2011	MW-2S_09_15_2011	N	0.00044	J		0.0016			< 0.001	U		< 0.001	U		0.0247			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/15/2011	MW-2S_12_15_2011	N	0.00057	J		0.0022			< 0.001	U		< 0.001	U		0.0318			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/14/2012	MW-2S_03_14_2012	N	0.0003	J		0.0012			< 0.001	U		< 0.001	U		0.0202			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/26/2012	MW-2S_06_26_2012	N	< 0.001	U		0.0012			< 0.001	U		< 0.001	U		0.016			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/3/2012	MW-2S_10_03_2012	N	< 0.001	U		0.00039	J		< 0.001	U		< 0.001	U		0.0039			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/23/2013	MW-2S_04_23_2013	N	< 0.001	U		0.00035	J		< 0.001	U		< 0.001	U		0.0051			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	MW-2S_10_25_2013	N	< 0.001	U		0.00029	J		< 0.001	U		< 0.001	U		0.0014	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/8/2014	MW-2S_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/21/2014	MW-2S_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
MW-3D	2/7/2008	MW-3D_02_07_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0175			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		0.0016			< 0.001	U		< 0.005	U	
	5/6/2008	MW-3D_05_06_2008	N	< 0.001	U		< 0.001	U		0.0018			< 0.001	U		0.0631			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	8/29/2008	MW-3D_08_29_2008	N	< 0.001	U		< 0.001	U		0.0016			< 0.001	U		0.0623			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	12/22/2008	MW-3D_12_22_2008	N	< 0.001	U		< 0.001	U		0.0017			< 0.001	U		0.0722			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	3/19/2009	MW-3D_03_19_2009	N	< 0.001	U		0.0012			0.0024			< 0.001	U		0.112			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	6/19/2009	MW-3D_06_19_2009	N	< 0.001	U		0.0011			0.0021			< 0.001	U		0.116			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	9/18/2009	MW-3D_09_18_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0321			< 0.001	U		< 0.001	U		< 0.05	U		< 0.05	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
	12/23/2009	MW-3D_12_23_2009	N	< 0.001	U		0.00095	J		0.0021			0.0012			0.0976			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00062	J		< 0.001	U		< 0.001	U		< 0.002	U	
	3/11/2010	MW-3D_03_11_2010	N	< 0.001	U		0.00048	J		0.00055	J		< 0.001	U		0.0307		J	< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/11/2010	BLIND DUPLICATE_03_11_2010	FD	< 0.001	U		0.00073	J		0.0015			0.00044	J		0.0824		J	< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.0005	J		< 0.001	U		< 0.001	U		< 0.002	U	
	6/28/2010	MW-3D_06_28_2010	N	< 0.001	U		0.00062	J		0.0011			< 0.001	U		0.0511			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00036	J		< 0.001	U		< 0.001	U	UJ	< 0.002	U	
	9/10/2010	MW-3D_09_10_2010	N	< 0.001	U		0.00068	J		0.0012			< 0.001	U		0.0554		J	< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00041	J		< 0.001	U		< 0.001	U		< 0.002	U	
	12/16/2010	MW-3D_12_16_2010	N	< 0.001	U		0.00054	J		0.0012			< 0.001	U		0.0529			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00026	J		< 0.001	U		< 0.001	U		< 0.002	U	
	4/4/2011	MW-3D BAG_04_04_2011	N	< 0.001	U		0.0004	J		0.00059	J		< 0.001	U		0.0296			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/4/2011	BLIND DUPLICATE_02_04_04_2011	FD	< 0.001	U		0.00075	J		0.0014			< 0.001	U		0.059			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00041	J		< 0.001	U		< 0.001	U		< 0.002	U	
	4/4/2011	MW-3D PUMP_04_04_2011	N	< 0.001	U		0.0006	J		0.0011			< 0.001	U		0.0487			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00033	J		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-3D BAG_06_07_2011	N	< 0.001	U		0.00065	J		0.0011			< 0.001	U		0.0573			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00035	J		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-3D PUMP_06_07_2011	N	< 0.001	U		0.00068	J		0.0011			< 0.001	U		0.0525			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00034	J		< 0.001	U		< 0.001	U		< 0.002	U	
	9/15/2011	MW-3D_09_15_2011	N	< 0.001	U		0.00064	J		0.0014			< 0.001	U		0.0536			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00032	J		< 0.001	U		< 0.001	U		< 0.002	U	
	12/15/2011	MW-3D_12_15_2011	N	< 0.001	U		0.00046	J		0.0011			< 0.001	U		0.0457			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00026	J		< 0.001	U		< 0.001	U		< 0.002	U	
	3/14/2012	MW-3D_03_14_2012	N	< 0.001	U		0.00035	J		0.00048	J		< 0.001	U		0.0221			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/26/2012	MW-3D_06_26_2012	N	< 0.001	U		0.00067	J		0.0015			< 0.001	U		0.0728			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00035	J		< 0.001	U		< 0.001	U		< 0.002	U	
	10/3/2012	MW-3D_10_03_2012	N	< 0.001	U		0.00045	J		0.00084	J		< 0.001	U		0.037			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/3/2012	BLIND DUP-D_10_03_2012	FD	< 0.001	U		0.00057	J		0.0011			< 0.001	U		0.0608			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/23/2013	MW-3D_04_23_2013	N	< 0.001	U		0.00055	J		0.0011			< 0.001	U		0.0613			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00021	J		< 0.001	U		< 0.001	U		< 0.002	U	
	4/23/2013	BLIND DUP-D_04_23_2013	FD	< 0.001	U		0.0008	J		0.0018			< 0.001	U		0.0875			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00031	J		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	MW-3D_10_25_2013	N	< 0.001	U		0.00074	J		0.0014			< 0.001	U		0.0551			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00022	J		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	BLIND DUP D_10_25_2013	FD	< 0.001	U		0.0006	J	J	0.0011		J	< 0.001	U		0.0538		J	< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/8/2014	MW-3D_04_08_2014	N	< 0.001	U		0.00069	J		0.0016			< 0.001	U		0.064			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/8/2014	BLIND DUP-D_04_08_2014	FD	< 0.001	U		0.00069	J		0.0013			< 0.001	U		0.0631			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00031	J		< 0.001	U		< 0.001	U		0.00028	J	
	10/21/2014	MW-3D_10_21_2014	N	< 0.001	U		< 0.001	U		0.00095	J		< 0.001	U		0.0438			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/21/2014	BLIND DUP-D_10_21_2014	FD	< 0.001	U		0.00045	J		0.001			< 0.001	U		0.0406			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	

J - Est. Value
UJ - Est. Reporting Limt
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Results Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 3
Groundwater Monitoring Analytical Data - Detects Only
Through October 2014
Brenntag Southwest, Inc. Wichita, KS

			Chemical	1,1,1-Trichloroethane			1,1-Dichloroethane			1,1-Dichloroethene			1,2-Dichloroethane			1,2-Dichloroethene, Total			1,3-Dichlorobenzene			1,4-Dichlorobenzene			2-Butanone			Acetone			Benzene			Bromodichloromethane			Bromoform			Carbon Disulfide		
			RSK for Residential Groundwater Pathway	0.2			0.025			0.007			0.005									0.075			4.92			11.5			0.005			0.08			0.08			0.716		
			KS_RES_action_level_unit	mg/L			mg/L			mg/L			mg/L									mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
			Units	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Well ID	Date	sys_sample_code	Sample Type	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
MW-3S	2/7/2008	MW-3S_02_07_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0053			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	5/6/2008	MW-3S_05_06_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0074			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	8/29/2008	MW-3S_08_29_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0058			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	12/22/2008	MW-3S_12_22_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0028			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	3/19/2009	MW-3S_03_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0015			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	6/19/2009	MW-3S_06_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.001			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	9/18/2009	MW-3S_09_18_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.05	U		< 0.05	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
	12/23/2009	MW-3S_12_23_2009	N	0.00033	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/23/2009	BLIND DUP_12_23_2009	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/11/2010	MW-3S_03_11_2010	N	0.00031	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/28/2010	MW-3S_06_28_2010	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0013	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/28/2010	BLIND DUPLICATE_06_28_2010	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0012	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/10/2010	MW-3S_09_10_2010	N	0.00065	J		< 0.001	U		< 0.001	U		< 0.001	U		0.0016	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/10/2010	BLIND DUPLICATE_09_10_2010	FD	0.00055	J		< 0.001	U		< 0.001	U		< 0.001	U		0.0014	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/16/2010	MW-3S_12_16_2010	N	0.00031	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/16/2010	BLIND DUP_12_16_2010	FD	0.0003	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/4/2011	MW-3S BAG_04_04_2011	N	0.0003	J		< 0.001	U		< 0.001	U		< 0.001	U		0.0024			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/4/2011	MW-3S PUMP_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0079			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-3S BAG_06_07_2011	N	0.00033	J		0.00028	J		< 0.001	U		< 0.001	U		0.0037			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-3S PUMP_06_07_2011	N	< 0.001	U		0.00031	J		0.00025	J		< 0.001	U		0.0122			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/15/2011	MW-3S_09_15_2011	N	0.00068	J		0.00039	J		< 0.001	U		< 0.001	U		0.006			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/15/2011	MW-3S_12_15_2011	N	0.00082	J		0.00048	J		< 0.001	U		< 0.001	U		0.0051			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/15/2011	BLIND DUPLICATE_12_15_2011	FD	0.0008	J		0.00045	J		< 0.001	U		< 0.001	U		0.0047			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/14/2012	MW-3S_03_14_2012	N	0.00084	J		< 0.001	U		< 0.001	U		< 0.001	U		0.0026			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/14/2012	BLIND DUPLICATE_03_14_2012	FD	0.00092	J		< 0.001	U		< 0.001	U		< 0.001	U		0.0024			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/26/2012	MW-3S_06_26_2012	N	0.0004	J		< 0.001	U		< 0.001	U		< 0.001	U		0.0014	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/26/2012	BLIND DUP_06_26_2012	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.002			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/3/2012	MW-3S_10_03_2012	N	0.00054	J		< 0.001	U		< 0.001	U		< 0.001	U		0.0026			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/3/2012	BLIND DUP-S_10_03_2012	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0024			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/23/2013	MW-3S_04_23_2013	N	0.00083	J		0.00027	J		< 0.001	U		< 0.001	U		0.0023			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/23/2013	BLIND DUP-S_04_23_2013	FD	0.00083	J		0.00032	J		< 0.001	U		< 0.001	U		0.0022			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	MW-3S_10_25_2013	N	0.00057	J		< 0.001	U		< 0.001	U		< 0.001	U		0.0016	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	BLIND DUP S_10_25_2013	FD	0.0004	J	J	< 0.001	U		< 0.001	U		< 0.001	U		0.0012	J	J	< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/8/2014	MW-3S_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00087	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/8/2014	BLIND DUP-S_04_08_2014	FD	0.00068	J		< 0.001	U		< 0.001	U		< 0.001	U		0.0013	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/21/2014	MW-3S_10_21_2014	N	0.00059	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/21/2014	BLIND DUP-S_10_21_2014	FD	0.00069	J		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
MW-4D	4/4/2011	MW-4D BAG_04_04_2011	N	< 0.001	U		0.00041	J		0.00051	J		< 0.001	U		0.0204			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		0.0016			0.00042	J		< 0.002	U	
	6/7/2011	MW-4D BAG_06_07_2011	N	< 0.001	U		0.00077	J		0.00085	J		< 0.001	U		0.0359			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00029	J		< 0.001	U		< 0.001	U		< 0.002	U	
	9/15/2011	MW-4D_09_15_2011	N	< 0.001	U		0.00085	J		0.00085	J		< 0.001	U		0.032			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00026	J		< 0.001	U		< 0.001	U		< 0.002	U	
	12/15/2011	MW-4D_12_15_2011	N	< 0.001	U		0.00068	J		0.00064	J		< 0.001	U		0.023			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00024	J		< 0.001	U		< 0.001	U		< 0.002	U	
	3/14/2012	MW-4D_03_14_2012	N	< 0.001	U		0.00064	J		0.00051	J		< 0.001	U		0.0183			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/26/2012	MW-4D_06_26_2012	N	< 0.001	U		< 0.001	U		0.00054	J		< 0.001	U		0.0201			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00025	J		< 0.001	U		< 0.001	U		< 0.002	U	
	10/3/2012	MW-4D_10_03_2012	N	< 0.001	U		0.00081	J		0.00059	J		< 0.001	U		0.0197			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00026	J		< 0.001	U		< 0.001	U		< 0.002	U	
	4/23/2013	MW-4D_04_23_2013	N	< 0.001	U		0.00081	J		0.00045	J		< 0.001	U		0.0147			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	MW-4D_10_25_2013	N	< 0.001	U		0.00097	J		0.00065	J		< 0.001	U		0.0185			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00031	J		< 0.001	U		< 0.001	U		< 0.002	U	
	4/8/2014	MW-4D_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0136			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/21/2014	MW-4D_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0111			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
MW-4S	4/4/2011	MW-4S PUMP_04_04_2011	N	< 0.001	U		0.00049	J		< 0.001	U		< 0.001	U		0.0044			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-4S BAG_06_07_2011	N	< 0.001	U		0.00029	J		< 0.001	U		< 0.001	U		0.00081	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/15/2011	MW-4S_09_15_2011	N	< 0.001	U		0.00032	J		< 0.001	U		< 0.001	U		0.00091	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/15/2011	MW-4S_12_15_2011	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00079	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/14/2012	MW-4S_03_14_2012	N	< 0.001	U		0.00027	J		< 0.001	U		< 0.001	U		0.001	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/26/2012	MW-4S_06_26_2012	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00082	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/3/2012	MW-4S_10_03_2012	N	< 0.001	U		0.00022	J		< 0.001	U		< 0.001	U		0.0015	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/23/2013	MW-4S_04_23_2013	N	< 0.001	U		0.00023	J		< 0.001	U		< 0.001	U		0.00053	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	MW-4S_10_25_2013	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00046	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/8/2014	MW-4S_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/21/2014	MW-4S_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
MW-5D	4/4/2011	MW-5D BAG_04_04_2011	N	< 0.001	U		0.00044	J		0.0013			< 0.001	U		0.0357			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		0.0015			0.00043	J		< 0.002	U	
	4/4/2011	BLIND DUPLICATE_01_04_04_2011	FD	< 0.001	U		0.00051	J		0.0014			< 0.001	U		0.0395			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		0.0014			0.00038	J		< 0.002	U	
	4/4/2011	MW-5D PUMP_04_04_2011	N	< 0.001	U		0.0011			0.0025			< 0.001	U		0.0838			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00025	J		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-5D BAG_06_07_2011	N	< 0.001	U		0.00052	J		0.001			< 0.001	U		0.0395			< 0.001	U		< 0.001	U		< 0.005	U		1.51			< 0.001	U		0.0011			0.00032	J		< 0.002	U	
	6/7/2011	MW-5D PUMP_06_07_2011	N	< 0.001	U		0.0015			0.0033			< 0.001	U		0.0807			< 0.001	U		< 0.001	U		< 0.005	U		0.0213	J		0.00036	J		< 0.001	U		< 0.001	U		< 0.002	U	
	9/15/2011	MW-5D_09_15_2011	N	< 0.001	U		0.00089	J		0.002			< 0.001	U		0.0631			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/15/2011	MW-5D_12_15_2011	N	< 0.001	U		0.00084	J		0.0021			< 0.001	U		0.0622			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00024	J		< 0.001	U		< 0.001	U		0.00088	J	
	3/14/2012	MW-5D_03_14_2012	N	< 0.001	U		0.00064	J		0.001			< 0.001	U		0.0369			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/26/2012	MW-5D_06_26_2012	N	< 0.001	U		0.0007	J		0.0018			< 0.001	U		0.0641			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/3/2012	MW-5D_10_03_2012	N	< 0.001	U		0.0007	J		0.0019			< 0.001	U		0.0578			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/23/2013	MW-5D_04_23_2013	N	< 0.001	U		0.00064	J		0.0014			< 0.001	U		0.0582			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00023	J		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	MW-5D_10_25_2013	N	< 0.001	U		0.00041	J	J	0.0011		J	< 0.001	U		0.038		J	< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/8/2014	MW-5D_04_08_2014	N	< 0.001	U		0.00045	J		0.0012			< 0.001	U		0.04			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/21/2014	MW-5D_10_21_2014	N	< 0.001	U		0.00032	J		0.00095	J		< 0.001	U		0.0333			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	

J - Est. Value
UJ - Est. Reporting Limt
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Results Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 3
Groundwater Monitoring Analytical Data - Detects Only
Through October 2014
Brenntag Southwest, Inc. Wichita, KS

			Chemical	1,1,1-Trichloroethane			1,1-Dichloroethane			1,1-Dichloroethene			1,2-Dichloroethane			1,2-Dichloroethene, Total			1,3-Dichlorobenzene			1,4-Dichlorobenzene			2-Butanone			Acetone			Benzene			Bromodichloromethane			Bromoform			Carbon Disulfide		
			RSK for Residential Groundwater Pathway	0.2			0.025			0.007			0.005									0.075			4.92			11.5			0.005			0.08			0.08			0.716		
			KS_RES_action_level_unit	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
			Units	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Well ID	Date	sys_sample_code	Sample Type	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
MW-5S	4/4/2011	MW-5S BAG_04_04_2011	N	< 0.001	U		0.00036	J		0.00086	J		< 0.001	U		0.0233			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/4/2011	MW-5S PUMP_04_04_2011	N	< 0.001	U		0.00037	J		0.00057	J		< 0.001	U		0.0195			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-5S BAG_06_07_2011	N	< 0.001	U		0.00046	J		0.00083	J		< 0.001	U		0.0299			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-5S PUMP_06_07_2011	N	< 0.001	U		0.00027	J		0.00055	J		< 0.001	U		0.0206			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/15/2011	MW-5S_09_15_2011	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0047			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/15/2011	MW-5S_12_15_2011	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0025			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/14/2012	MW-5S_03_14_2012	N	< 0.001	U		0.00029	J		0.00061	J		< 0.001	U		0.0194			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/26/2012	MW-5S_06_26_2012	N	< 0.001	U		< 0.001	U		0.00058	J		< 0.001	U		0.0183			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/3/2012	MW-5S_10_03_2012	N	< 0.001	U		0.00034	J		0.00056	J		< 0.001	U		0.0197			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/23/2013	MW-5S_04_23_2013	N	< 0.001	U		0.00033	J		0.0007	J		< 0.001	U		0.0231			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	MW-5S_10_25_2013	N	< 0.001	U		< 0.001	U		0.00036	J	J	< 0.001	U		0.0097		J	< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/8/2014	MW-5S_04_08_2014	N	< 0.001	U		0.00032	J		0.00065	J		< 0.001	U		0.0239			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/21/2014	MW-5S_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0017	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
MW-6D	4/4/2011	MW-6D BAG_04_04_2011	N	< 0.001	U		0.00064	J		0.0012		J	< 0.001	U		0.049		J	< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00028	J		< 0.001	U		< 0.001	U		< 0.002	U	
	4/4/2011	MW-6D PUMP_04_04_2011	N	< 0.001	U		0.00087	J		0.0017			< 0.001	U		0.0666			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.0003	J		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-6D BAG_06_07_2011	N	< 0.001	U		0.00091	J		0.0021			< 0.001	U		0.0859			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.0004	J		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-6D_06_07_2011	N	< 0.001	U		0.00095	J		0.0021			< 0.001	U		0.0802		J	< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/15/2011	MW-6D_09_15_2011	N	< 0.001	U		0.001			0.0023			< 0.001	U		0.0814			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.0003	J		< 0.001	U		< 0.001	U		< 0.002	U	
	12/15/2011	MW-6D_12_15_2011	N	< 0.001	U		0.00096	J		0.0026			< 0.001	U		0.0855			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00029	J		< 0.001	U		< 0.001	U		< 0.002	U	
	3/14/2012	MW-6D_03_14_2012	N	< 0.001	U		0.00082	J		0.0022			< 0.001	U		0.0776			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/26/2012	MW-6D_06_26_2012	N	< 0.001	U		0.00068	J		0.0018			< 0.001	U		0.0683			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/3/2012	MW-6D_10_03_2012	N	< 0.001	U		0.0006	J		< 0.001	U		< 0.001	U		0.0674			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/23/2013	MW-6D_04_23_2013	N	< 0.001	U		0.0007	J		0.0019			< 0.001	U		0.0771			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	MW-6D_10_25_2013	N	< 0.001	U		0.00058	J	J	0.0015		J	< 0.001	U		0.0547		J	< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/8/2014	MW-6D_04_08_2014	N	< 0.001	U		0.00065	J		0.0017			< 0.001	U		0.0632			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00025	J		< 0.001	U		< 0.001	U		< 0.002	U	
	10/21/2014	MW-6D_10_21_2014	N	< 0.001	U		0.00057	J		0.0013			< 0.001	U		0.05			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
MW-6S	4/4/2011	MW-6S BAG_04_04_2011	N	< 0.001	U		0.00032	J		0.00028	J		< 0.001	U		0.0235			< 0.001	U		< 0.001	U		0.0028	J		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/4/2011	MW-6S PUMP_04_04_2011	N	< 0.001	U		0.00035	J		0.00042	J		< 0.001	U		0.0295			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-6S BAG_06_07_2011	N	< 0.001	U		0.00042	J		0.00068	J		< 0.001	U		0.0344			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	BLIND DUPLICATE BAG_06_07_2011	FD	< 0.001	U		0.00036	J		0.00069	J		< 0.001	U		0.0338			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	MW-6S_06_07_2011	N	< 0.001	U		0.00043	J		0.00056	J		< 0.001	U		0.0318			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/7/2011	BLIND DUPLICATE_06_07_2011	FD	< 0.001	U		0.00042	J		0.00061	J		< 0.001	U		0.0319			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/15/2011	MW-6S_09_15_2011	N	< 0.001	U		0.00037	J		0.00054	J		< 0.001	U		0.0246			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/15/2011	MW-6S_12_15_2011	N	0.00045	J		0.0004	J		0.00056	J		< 0.001	U		0.0353			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/14/2012	MW-6S_03_14_2012	N	0.00043	J		0.00027	J		0.0005	J		< 0.001	U		0.0299			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/26/2012	MW-6S_06_26_2012	N	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		0.0239			< 0.002	U		< 0.002	U		< 0.01	U		< 0.05	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.004	U	
	10/3/2012	MW-6S_10_03_2012	N	< 0.002	U		< 0.002	U		< 0.002	U		< 0.002	U		0.0547			< 0.002	U		< 0.002	U		< 0.01	U		< 0.05	U		< 0.002	U		< 0.002	U		< 0.002	U		< 0.004	U	
	4/23/2013	MW-6S_04_23_2013	N	< 0.001	U		0.00029	J		0.00047	J		< 0.001	U		0.0266			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/25/2013	MW-6S_10_25_2013	N	< 0.001	U		0.00024	J	J	0.00034	J	J	< 0.001	U		0.0244		J	< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	4/8/2014	MW-6S_04_08_2014	N	< 0.001	U		0.00042	J		0.00065	J		< 0.001	U		0.041			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	10/21/2014	MW-6S_10_21_2014	N	< 0.001	U		0.0004	J		< 0.001	U		< 0.001	U		0.04			< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
PZ-3	2/7/2008	PZ-3_02_07_2008	N	< 0.001	U		0.0014			< 0.001	U		< 0.001	U		0.0079			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	5/6/2008	PZ-3_05_06_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0036			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	8/29/2008	PZ-3_08_29_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0024			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	12/22/2008	PZ-3_12_22_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	3/19/2009	PZ-3_03_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0012			< 0.001	U		< 0.001	U		< 0.01	U		< 0.01	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	6/19/2009	PZ-3_06_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.01	U		0.0102			< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U	
	9/18/2009	PZ-3_09_18_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.05	U		< 0.05	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
	12/23/2009	PZ-3_12_23_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0009	J		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	3/11/2010	PZ-3_03_11_2010	N	< 0.001	U		0.00037	J		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	6/28/2010	PZ-3_06_28_2010	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	9/10/2010	PZ-3_09_10_2010	N	< 0.001	U		0.00071	J		< 0.001	U		< 0.001	U		0.0023			< 0.001	U		< 0.001	U		< 0.005	U		0.0946			< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U	
	12/16/2010	PZ-3_12_16_2010	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.025	U		0.00028	J		< 0.001	U		< 0.001	U		< 0.002	U	

J - Est. Value
UJ - Est. Reporting Limt
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Results Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 3
Groundwater Monitoring Analytical Data - Detects Only
Through October 2014
Brenntag Southwest, Inc. Wichita, KS

			Chemical	Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			cis-1,2-Dichloroethene			Methylene Chloride			Methyl-tert-butyl-ether			Tetrachloroethene			Toluene			trans-1,2-Dichloroethene			Trichloroethene			Vinyl Chloride		
			RSK for Residential Groundwater Pathway	0.1			0.08			14			0.08			0.07			0.005			0.133			0.005			1			0.1			0.005			0.002		
			KS_RES_action_level_unit	mg/L			0.08			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
			Units	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Well ID	Date	sys_sample_code	Sample Type	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
MW-1D	2/7/2008	MW-1D_02_07_2008	N	< 0.001	U		0.0013			< 0.001	U		< 0.001	U		0.0156			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0002	J		0.002			< 0.001	U	
	5/6/2008	MW-1D_05_06_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0091			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0014			< 0.001	U	
	8/29/2008	MW-1D_08_29_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.023			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00027	J		0.0031			< 0.001	U	
	12/22/2008	MW-1D_12_22_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0185			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0018			< 0.001	U	
	3/19/2009	MW-1D_03_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0307			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0016			< 0.001	U	R
	6/19/2009	MW-1D_06_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0623			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0022			0.0017		
	9/18/2009	MW-1D_09_18_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0386			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00189			0.00133		
	12/23/2009	MW-1D_12_23_2009	N	< 0.001	U		< 0.001	U		0.0021			< 0.001	U		0.046			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00066	J		0.0018			0.00074	J	
	3/11/2010	MW-1D_03_11_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0103			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00055	J		< 0.001	U	
	6/28/2010	MW-1D_06_28_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0111			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00068	J		< 0.001	U	
	9/10/2010	MW-1D_09_10_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.014			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00079	J		< 0.001	U	
	12/16/2010	MW-1D_12_16_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0265			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00048	J		0.0016			0.00068	J	
	4/4/2011	MW-1D BAG_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0114			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0011			< 0.001	U	
	6/7/2011	MW-1D BAG_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0105			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00099	J		< 0.001	U	
	9/15/2011	MW-1D_09_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0165			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0018			0.00035	J	
	12/15/2011	MW-1D_12_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0133			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0018			< 0.001	U	
	3/14/2012	MW-1D_03_14_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0139			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0015			< 0.001	U	
	6/26/2012	MW-1D_06_26_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0131			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0017			< 0.001	U	
	10/3/2012	MW-1D_10_03_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0163			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00032	J		0.0021			< 0.001	U	
	4/23/2013	MW-1D_04_23_2013	N	0.00024	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0185			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00038	J		0.0017			< 0.001	U	
	10/25/2013	MW-1D_10_25_2013	N	0.00021	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0137			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00034	J		0.0017			< 0.001	U	
	4/8/2014	MW-1D_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0047			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0011			< 0.001	U	
	10/21/2014	MW-1D_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0036			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.001			< 0.001	U	
MW-1S	2/7/2008	MW-1S_02_07_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0022			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.002			< 0.001	U	
	5/6/2008	MW-1S_05_06_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0063			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0025			< 0.001	U	
	8/29/2008	MW-1S_08_29_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.001			< 0.001	U	
	12/22/2008	MW-1S_12_22_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0011			< 0.001	U	
	3/19/2009	MW-1S_03_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0081			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0019			< 0.001	U	R
	6/19/2009	MW-1S_06_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0025			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
	9/18/2009	MW-1S_09_18_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
	12/23/2009	MW-1S_12_23_2009	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0014			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00075	J		< 0.001	U	
	3/11/2010	MW-1S_03_11_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0032			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00097	J		< 0.001	U	
	6/28/2010	MW-1S_06_28_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00047	J		< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00056	J		< 0.001	U	
	9/10/2010	MW-1S_09_10_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00061	J		< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00051	J		< 0.001	U	
	12/16/2010	MW-1S_12_16_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00059	J		< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00054	J		< 0.001	U	
	4/4/2011	MW-1S BAG_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0032			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0011			< 0.001	U	
	6/7/2011	MW-1S BAG_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.001			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00065	J		< 0.001	U	
	9/15/2011	MW-1S_09_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0011			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00098	J		< 0.001	U	
	12/15/2011	MW-1S_12_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00053	J		< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0014			< 0.001	U	
	3/14/2012	MW-1S_03_14_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0012			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0026			< 0.001	U	
	6/26/2012	MW-1S_06_26_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0015			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0037			< 0.001	U	
	10/3/2012	MW-1S_10_03_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0016			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0032			< 0.001	U	
	4/23/2013	MW-1S_04_23_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.002			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0025			< 0.001	U	
	10/25/2013	MW-1S_10_25_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0014			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.003			< 0.001	U	
	4/8/2014	MW-1S_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0011			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00094	J		< 0.001	U	
	10/21/2014	MW-1S_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00082	J		< 0.001	U	
MW-2D	2/7/2008	MW-2D_02_07_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0265			< 0.001	U		< 0.001	U		0.0038			< 0.001	U		0.00043	J		**0.0073**			< 0.001	U	
	5/6/2008	MW-2D_05_06_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		0.0014			0.011			< 0.001	U		< 0.001	U		0.0018			< 0.001	U		< 0.001	U		**0.012**			< 0.001	U	
	8/29/2008	MW-2D_08_29_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0414			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00073	J		**0.0151**			< 0.001	U	
	12/22/2008	MW-2D_12_22_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0174			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		**0.0112**			< 0.001	U	
	3/19/2009	MW-2D_03_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.04			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		**0.006**			< 0.001	U	R
	3/19/2009	BLIND DUPLICATE_03_19_2009	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0453			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		**0.0069**			< 0.001	U	R
	6/19/2009	MW-2D_06_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0425			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0042			< 0.001	U	
	6/19/2009	BLIND DUPLICATE_06_19_2009	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0382			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0037			< 0.001	U	
	9/18/2009	MW-2D_09_18_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0382			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		**0.00522**			0.00124		
	9/18/2009	BLIND DUP_09_18_2009	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0321			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00115			0.00492			0.00105		
	12/23/2009	MW-2D_12_23_2009	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0443			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00091	J		0.0048			0.001		
	3/11/2010	MW-2D_03_11_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		0.00027	J		0.0231			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		**0.0051**			0.00057	J	
	6/28/2010	MW-2D_06_28_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		0.00038	J		0.011			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		**0.0071**			< 0.001	U	
	9/10/2010	MW-2D_09_10_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		0.00039	J		0.0145			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		**0.0072**			< 0.001	U	
	12/16/2010	MW-2D_12_16_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0138			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0048			< 0.001	U	
	4/4/2011	MW-2D BAG_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0317			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00051	J		0.0039			0.0009	J	
	6/7/2011	MW-2D BAG_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0323			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00054	J		0.0036			0.00078	J	
	9/15/2011	MW-2D_09_15_2011	N	0.00023	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0436			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00069	J		0.0037			0.0011		
	12/15/2011	MW-2D_12_15_2011	N	0.00023	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0334			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00064	J		0.0035			0.00047	J	
	3/14/2012	MW-2D_03_14_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0339			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00057	J		0.0025			0.00079	J	
	6/26/2012	MW-2D_06_26_2012	N	0.00025	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0472			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00071	J		0.002			0.00093	J	
	10/3/2012	MW-2D_10_03_2012	N	0.00029	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0419			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00072	J		0.0021			0.00093	J	
	4/23/2013	MW-2D_04_23_2013	N	0.00033	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0466			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00074	J		0.0014			0.0012		
	10/25/2013	MW-2D_10_25_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0246			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00058	J		**0.005**			0.00093	J	
	4/8/2014	MW-2D_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0163			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0025			0.00074	J	
	10/21/2014	MW-2D_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0246			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00052	J		0.0014			0.0016		

J - Est. Value
UJ - Est. Reporting Limt
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Results Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 3
Groundwater Monitoring Analytical Data - Detects Only
Through October 2014
Brenntag Southwest, Inc. Wichita, KS

			Chemical	Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			cis-1,2-Dichloroethene			Methylene Chloride			Methyl-tert-butyl-ether			Tetrachloroethene			Toluene			trans-1,2-Dichloroethene			Trichloroethene			Vinyl Chloride		
			RSK for Residential Groundwater Pathway	0.1			0.08			14			0.08			0.07			0.005			0.133			0.005			1			0.1			0.005			0.002		
			KS_RES_action_level_unit	mg/L			0.08			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
			Units	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Well ID	Date	sys_sample_code	Sample Type	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
MW-2S	2/7/2008	MW-2S_02_07_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.053			< 0.001	U		< 0.001	U		**0.103**			< 0.001	U		0.00094	J		**0.0099**			< 0.001	U	
	2/7/2008	BLIND DUPLICATE_02_07_2008	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0491			< 0.001	U		< 0.001	U		**0.0947**			< 0.001	U		0.00079	J		**0.0091**			< 0.001	U	
	5/6/2008	MW-2S_05_06_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0053			< 0.001	U		< 0.001	U		**0.0284**			< 0.001	U		< 0.001	U		0.0033			< 0.001	U	
	5/6/2008	BLIND DUP_05_06_2008	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0047			< 0.001	U		< 0.001	U		**0.0241**			< 0.001	U		< 0.001	U		0.0031			< 0.001	U	
	8/29/2008	MW-2S_08_29_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0027			< 0.001	U		< 0.001	U		**0.0192**			< 0.001	U		< 0.001	U		0.0037			< 0.001	U	
	8/29/2008	BLIND DUP_08_29_2008	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0017			< 0.001	U		< 0.001	U		**0.0167**			< 0.001	U		< 0.001	U		0.0025			< 0.001	U	
	12/22/2008	MW-2S_12_22_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0099			< 0.001	U		< 0.001	U		**0.0289**			< 0.001	U		< 0.001	U		0.0029			< 0.001	U	
	12/22/2008	BLIND DUP_12_22_2008	FD	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0101			< 0.001	U		< 0.001	U		**0.0289**			< 0.001	U		< 0.001	U		0.003			< 0.001	U	
	3/19/2009	MW-2S_03_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		**0.0194**			< 0.001	U		< 0.001	U		0.0011			< 0.001	U	R
	6/19/2009	MW-2S_06_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		**0.0181**			< 0.001	U		< 0.001	U		0.001			< 0.001	U	
	9/18/2009	MW-2S_09_18_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.001	U		**0.00646**			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
	12/23/2009	MW-2S_12_23_2009	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00042	J		< 0.005	U		< 0.001	U		**0.007**			< 0.001	U		< 0.001	U		0.00058	J		< 0.001	U	
	3/11/2010	MW-2S_03_11_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.001	U		0.0041			< 0.001	U		< 0.001	U		0.00033	J		< 0.001	U	
	6/28/2010	MW-2S_06_28_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00052	J		< 0.005	U		< 0.001	U		0.0045			< 0.001	U		< 0.001	U		0.00047	J		< 0.001	U	
	9/10/2010	MW-2S_09_10_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0022			< 0.005	U		< 0.001	U		**0.0064**			< 0.001	U		< 0.001	U		0.0013			< 0.001	U	
	12/16/2010	MW-2S_12_16_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0018			< 0.005	U		< 0.001	U		**0.0073**			< 0.001	U		< 0.001	U		0.00089	J		< 0.001	U	
	4/4/2011	MW-2S BAG_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0026			< 0.005	U		< 0.001	U		**0.0079**			< 0.001	U		< 0.001	U		0.0013			< 0.001	U	
	6/7/2011	MW-2S BAG_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0023			< 0.005	U		< 0.001	U		**0.0053**			< 0.001	U		< 0.001	U		0.0016			< 0.001	U	
	9/15/2011	MW-2S_09_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		0.00069	J		0.0242			< 0.005	U		< 0.001	U		**0.0217**			< 0.001	U		0.00047	J		**0.0158**			< 0.001	U	
	12/15/2011	MW-2S_12_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		0.00076	J		0.0311			< 0.005	U		< 0.001	U		**0.0575**			< 0.001	U		0.00066	J		**0.0082**			< 0.001	U	
	3/14/2012	MW-2S_03_14_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		0.0004	J		0.0198			< 0.005	U		< 0.001	U		**0.0454**			< 0.001	U		0.00041	J		0.0048			< 0.001	U	
	6/26/2012	MW-2S_06_26_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		0.00037	J		0.016			< 0.005	U		< 0.001	U		**0.0464**			< 0.001	U		< 0.001	U		**0.0052**			< 0.001	U	
	10/3/2012	MW-2S_10_03_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0039			< 0.005	U		< 0.001	U		**0.0116**			< 0.001	U		< 0.001	U		0.0034			< 0.001	U	
	4/23/2013	MW-2S_04_23_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0051			< 0.005	U		< 0.001	U		**0.0121**			< 0.001	U		< 0.001	U		0.0033			< 0.001	U	
	10/25/2013	MW-2S_10_25_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0014			< 0.005	U		< 0.001	U		**0.0051**			< 0.001	U		< 0.001	U		0.0041			< 0.001	U	
	4/8/2014	MW-2S_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00038	J		< 0.005	U		< 0.001	U		0.0024			< 0.001	U		< 0.001	U		0.0019			< 0.001	U	
	10/21/2014	MW-2S_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00048	J		< 0.005	U		< 0.001	U		0.00068	J		< 0.001	U		< 0.001	U		0.0024			< 0.001	U	
MW-3D	2/7/2008	MW-3D_02_07_2008	N	< 0.001	U		0.0019			< 0.001	U		0.0013			0.0172			< 0.001	U		< 0.001	U		**0.006**			< 0.001	U		0.00032	J		0.0047			< 0.001	U	
	5/6/2008	MW-3D_05_06_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0615			< 0.001	U		< 0.001	U		0.0012			< 0.001	U		0.0016			**0.0116**			0.0018		
	8/29/2008	MW-3D_08_29_2008	N	< 0.001	U		0.0018			< 0.001	U		< 0.001	U		0.0611			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0012			**0.0095**			0.0017		
	12/22/2008	MW-3D_12_22_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		**0.0708**			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0013			**0.0069**			**0.0022**		
	3/19/2009	MW-3D_03_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		**0.11**			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0024			**0.0065**			**0.0029**		J
	6/19/2009	MW-3D_06_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		**0.113**			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0027			**0.0061**			**0.0027**		
	9/18/2009	MW-3D_09_18_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0314			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0034			0.00104		
	12/23/2009	MW-3D_12_23_2009	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		**0.0946**		J	< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.003			0.004			**0.0028**		
	3/11/2010	MW-3D_03_11_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		0.00027	J		0.0301		J	< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00057	J		0.0023			0.00096	J	
	3/11/2010	BLIND DUPLICATE_03_11_2010	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		**0.0809**		J	< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0015			0.0032			**0.0024**		
	6/28/2010	MW-3D_06_28_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0498			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0013			0.0036			0.0014		
	9/10/2010	MW-3D_09_10_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0544		J	< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.001			0.0037			0.0018		
	12/16/2010	MW-3D_12_16_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0521		J	< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00083	J		0.0027			0.0015		
	4/4/2011	MW-3D BAG_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0291			< 0.005	U		< 0.001	U		0.00026	J		< 0.001	U		0.00051	J		0.0026			< 0.001	U	
	4/4/2011	BLIND DUPLICATE_02_04_04_2011	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.058			< 0.005	U		< 0.001	U		< 0.001	U		0.00035	J		0.001			**0.005**			0.0016		
	4/4/2011	MW-3D PUMP_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0478			< 0.005	U		< 0.001	U		< 0.001	U		0.00035	J		0.00089	J		0.0041			0.0012		
	6/7/2011	MW-3D BAG_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0564			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0009	J		0.0029			0.0012		
	6/7/2011	MW-3D PUMP_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0516			< 0.005	U		< 0.001	U		< 0.001	U		0.00036	J		0.00087	J		0.0035			0.0015		
	9/15/2011	MW-3D_09_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0526			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00099	J		0.0034			0.0016		
	12/15/2011	MW-3D_12_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0448			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0009	J		0.0028			0.0012		
	3/14/2012	MW-3D_03_14_2012	N	< 0.001	U		< 0.001	U		0.00053	J		< 0.001	U		0.0217			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00043	J		0.0025			< 0.001	U	
	6/26/2012	MW-3D_06_26_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		**0.0714**			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0015			0.002			**0.002**		
	10/3/2012	MW-3D_10_03_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0362			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00077	J		0.0029			0.00074	J	
	10/3/2012	BLIND DUP-D_10_03_2012	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0594			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0014			0.0018			0.0016		
	4/23/2013	MW-3D_04_23_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.06			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0013			0.0017			0.0014		
	4/23/2013	BLIND DUP-D_04_23_2013	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		**0.0857**			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0018			0.0017			**0.0021**		
	10/25/2013	MW-3D_10_25_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0535			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0015			0.0029			0.0011		
	10/25/2013	BLIND DUP D_10_25_2013	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0527		J	< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0011		J	0.0023		J	0.00097	J	J
	4/8/2014	MW-3D_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0627			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0013			0.0013			0.0019		
	4/8/2014	BLIND DUP-D_04_08_2014	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0615			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0017			0.0013			0.0014		
	10/21/2014	MW-3D_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0429			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00087	J		0.0015			< 0.001	U	
	10/21/2014	BLIND DUP-D_10_21_2014	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0397			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00087	J		0.0016			< 0.001	U	

J - Est. Value
UJ - Est. Reporting Limt
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Results Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 3
Groundwater Monitoring Analytical Data - Detects Only
Through October 2014
Brenntag Southwest, Inc. Wichita, KS

			Chemical	Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			cis-1,2-Dichloroethene			Methylene Chloride			Methyl-tert-butyl-ether			Tetrachloroethene			Toluene			trans-1,2-Dichloroethene			Trichloroethene			Vinyl Chloride		
			RSK for Residential Groundwater Pathway	0.1			0.08			14			0.08			0.07			0.005			0.133			0.005			1			0.1			0.005			0.002		
			KS_RES_action_level_unit	mg/L			0.08			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
			Units	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Well ID	Date	sys_sample_code	Sample Type	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
MW-3S	2/7/2008	MW-3S_02_07_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0053			< 0.001	U		< 0.001	U		**0.0501**			< 0.001	U		< 0.001	U		**0.0165**			< 0.001	U	
	5/6/2008	MW-3S_05_06_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0074			< 0.001	U		< 0.001	U		**0.0193**			< 0.001	U		< 0.001	U		**0.0156**			< 0.001	U	
	8/29/2008	MW-3S_08_29_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0058			< 0.001	U		< 0.001	U		**0.0119**			< 0.001	U		< 0.001	U		**0.0168**			< 0.001	U	
	12/22/2008	MW-3S_12_22_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0028			< 0.001	U		< 0.001	U		**0.011**			< 0.001	U		< 0.001	U		**0.014**			< 0.001	U	
	3/19/2009	MW-3S_03_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0015			< 0.001	U		< 0.001	U		**0.0165**			< 0.001	U		< 0.001	U		**0.012**			< 0.001	U	R
	6/19/2009	MW-3S_06_19_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.001			< 0.001	U		< 0.001	U		**0.0072**			< 0.001	U		< 0.001	U		**0.0071**			< 0.001	U	
	9/18/2009	MW-3S_09_18_2009	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.001	U		0.00383			< 0.001	U		< 0.001	U		0.00478			< 0.001	U	
	12/23/2009	MW-3S_12_23_2009	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00028	J		< 0.005	U		< 0.001	U		**0.017**			< 0.001	U		< 0.001	U		0.0049			< 0.001	U	
	12/23/2009	BLIND DUP_12_23_2009	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00029	J		< 0.005	U		< 0.001	U		**0.0145**			< 0.001	U		< 0.001	U		0.0045			< 0.001	U	
	3/11/2010	MW-3S_03_11_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.001	U		**0.0158**			< 0.001	U		< 0.001	U		0.0044			< 0.001	U	
	6/28/2010	MW-3S_06_28_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0013			< 0.005	U		< 0.001	U		**0.0111**			< 0.001	U		< 0.001	U		**0.0056**			< 0.001	U	
	6/28/2010	BLIND DUPLICATE_06_28_2010	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0012			< 0.005	U		< 0.001	U		**0.0102**			< 0.001	U		< 0.001	U		**0.0053**			< 0.001	U	
	9/10/2010	MW-3S_09_10_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0016			< 0.005	U		< 0.001	U		**0.0319**			< 0.001	U		< 0.001	U		**0.0068**			< 0.001	U	
	9/10/2010	BLIND DUPLICATE_09_10_2010	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0014			< 0.005	U		< 0.001	U		**0.0248**			< 0.001	U		< 0.001	U		**0.0059**			< 0.001	U	
	12/16/2010	MW-3S_12_16_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00054	J		< 0.005	U		< 0.001	U		**0.0146**			< 0.001	U		< 0.001	U		0.0041			< 0.001	U	
	12/16/2010	BLIND DUP_12_16_2010	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00055	J		< 0.005	U		< 0.001	U		**0.0135**			< 0.001	U		< 0.001	U		0.004			< 0.001	U	
	4/4/2011	MW-3S BAG_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0024			< 0.005	U		< 0.001	U		**0.0149**			< 0.001	U		< 0.001	U		**0.0063**			< 0.001	U	
	4/4/2011	MW-3S PUMP_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0079			< 0.005	U		< 0.001	U		**0.0072**			0.00024	J		< 0.001	U		**0.0059**			< 0.001	U	
	6/7/2011	MW-3S BAG_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0037		J	< 0.005	U		< 0.001	U		**0.0162**			< 0.001	U		< 0.001	U		**0.0065**			< 0.001	U	
	6/7/2011	MW-3S PUMP_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0122			< 0.005	U		< 0.001	U		**0.0062**			< 0.001	U		< 0.001	U		**0.0059**			< 0.001	U	
	9/15/2011	MW-3S_09_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.006			< 0.005	U		< 0.001	U		**0.0243**			< 0.001	U		< 0.001	U		**0.008**			< 0.001	U	
	12/15/2011	MW-3S_12_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		0.00024	J		0.0051			< 0.005	U		< 0.001	U		**0.0283**			< 0.001	U		< 0.001	U		**0.0072**			< 0.001	U	
	12/15/2011	BLIND DUPLICATE_12_15_2011	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0047			< 0.005	U		< 0.001	U		**0.0284**			< 0.001	U		< 0.001	U		**0.0065**			< 0.001	U	
	3/14/2012	MW-3S_03_14_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0026			< 0.005	U		< 0.001	U		**0.0267**			< 0.001	U		< 0.001	U		**0.0055**			< 0.001	U	
	3/14/2012	BLIND DUPLICATE_03_14_2012	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0024			< 0.005	U		< 0.001	U		**0.0279**			< 0.001	U		< 0.001	U		**0.0056**			< 0.001	U	
	6/26/2012	MW-3S_06_26_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0014			< 0.005	U		< 0.001	U		**0.0121**			< 0.001	U		< 0.001	U		**0.0054**			< 0.001	U	
	6/26/2012	BLIND DUP_06_26_2012	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.002			< 0.005	U		< 0.001	U		**0.0083**			< 0.001	U		< 0.001	U		**0.005**			< 0.001	U	
	10/3/2012	MW-3S_10_03_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0026			< 0.005	U		< 0.001	U		**0.0233**			< 0.001	U		< 0.001	U		0.0049			< 0.001	U	
	10/3/2012	BLIND DUP-S_10_03_2012	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0024			< 0.005	U		< 0.001	U		**0.0209**			< 0.001	U		< 0.001	U		0.0047			< 0.001	U	
	4/23/2013	MW-3S_04_23_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0023			< 0.005	U		< 0.001	U		**0.0379**			< 0.001	U		< 0.001	U		0.0031			< 0.001	U	
	4/23/2013	BLIND DUP-S_04_23_2013	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0022			< 0.005	U		< 0.001	U		**0.0378**			< 0.001	U		< 0.001	U		0.003			< 0.001	U	
	10/25/2013	MW-3S_10_25_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0016			< 0.005	U		< 0.001	U		**0.0113**			< 0.001	U		< 0.001	U		0.0019			< 0.001	U	
	10/25/2013	BLIND DUP S_10_25_2013	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0012		J	< 0.005	U		< 0.001	U		**0.0106**		J	< 0.001	U		< 0.001	U		0.0016		J	< 0.001	U	
	4/8/2014	MW-3S_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00087	J		< 0.005	U		< 0.001	U		**0.0217**			< 0.001	U		< 0.001	U		0.0014			< 0.001	U	
	4/8/2014	BLIND DUP-S_04_08_2014	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0013			< 0.005	U		< 0.001	U		**0.0242**			< 0.001	U		< 0.001	U		0.0015			< 0.001	U	
	10/21/2014	MW-3S_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00044	J		< 0.005	U		< 0.001	U		**0.0193**			< 0.001	U		< 0.001	U		0.002			< 0.001	U	
	10/21/2014	BLIND DUP-S_10_21_2014	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.001	U		**0.0211**			< 0.001	U		< 0.001	U		0.0015			< 0.001	U	
MW-4D	4/4/2011	MW-4D BAG_04_04_2011	N	< 0.001	U		0.0019			< 0.002	U		0.0013			0.0201			< 0.005	U		< 0.001	U		0.00069	J		< 0.001	U		< 0.001	U		0.002			0.00044	J	
	6/7/2011	MW-4D BAG_06_07_2011	N	0.00033	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0354			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00057	J		0.0032			0.001		
	9/15/2011	MW-4D_09_15_2011	N	0.0003	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0315			< 0.005	U		< 0.001	U		0.00026	J		< 0.001	U		0.00048	J		0.0032			0.00077	J	
	12/15/2011	MW-4D_12_15_2011	N	0.00027	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0226			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0004	J		0.0027			0.00049	J	
	3/14/2012	MW-4D_03_14_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0179			< 0.005	U		< 0.001	U		0.00059	J		< 0.001	U		< 0.001	U		0.0023			< 0.001	U	
	6/26/2012	MW-4D_06_26_2012	N	0.00021	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0201			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0028			< 0.001	U	
	10/3/2012	MW-4D_10_03_2012	N	0.00026	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0192			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00046	J		0.0029			< 0.001	U	
	4/23/2013	MW-4D_04_23_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0143			< 0.005	U		< 0.001	U		0.0004	J		< 0.001	U		0.00033	J		0.0023			< 0.001	U	
	10/25/2013	MW-4D_10_25_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0181			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00045	J		0.0024			< 0.001	U	
	4/8/2014	MW-4D_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0136			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0017			< 0.001	U	
	10/21/2014	MW-4D_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0111			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0019			< 0.001	U	
MW-4S	4/4/2011	MW-4S PUMP_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0044			< 0.005	U		< 0.001	U		0.00065	J		0.0002	J		< 0.001	U		0.0019			< 0.001	U	
	6/7/2011	MW-4S BAG_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		0.00052	J		0.00081	J		< 0.005	U		< 0.001	U		0.0045			< 0.001	U		< 0.001	U		0.00081	J		< 0.001	U	
	9/15/2011	MW-4S_09_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		0.00029	J		0.00091	J		< 0.005	U		< 0.001	U		0.0049			< 0.001	U		< 0.001	U		0.0011			< 0.001	U	
	12/15/2011	MW-4S_12_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00079	J		< 0.005	U		< 0.001	U		0.0013			< 0.001	U		< 0.001	U		0.00058	J		< 0.001	U	
	3/14/2012	MW-4S_03_14_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.001			< 0.005	U		< 0.001	U		0.0011			< 0.001	U		< 0.001	U		0.0007	J		< 0.001	U	
	6/26/2012	MW-4S_06_26_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00082	J		< 0.005	U		< 0.001	U		0.0032			< 0.001	U		< 0.001	U		0.00066	J		< 0.001	U	
	10/3/2012	MW-4S_10_03_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0015			< 0.005	U		< 0.001	U		0.0011			< 0.001	U		< 0.001	U		0.0008	J		< 0.001	U	
	4/23/2013	MW-4S_04_23_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	J	U	0.00053	J		< 0.005	U		< 0.001	U		0.0026			< 0.001	U		< 0.001	U		0.00064	J		< 0.001	U	
	10/25/2013	MW-4S_10_25_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		0.00029	J		0.00046	J		< 0.005	U		< 0.001	U		0.0026			< 0.001	U		< 0.001	U		0.0004	J		< 0.001	U	
	4/8/2014	MW-4S_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.001	U		0.0011			< 0.001	U		< 0.001	U		0.00044	J		< 0.001	U	
	10/21/2014	MW-4S_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.001	U		0.001			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
MW-5D	4/4/2011	MW-5D BAG_04_04_2011	N	< 0.001	U		0.0016			< 0.002	U		0.0013			0.0351			< 0.005	U		< 0.001	U		0.00066	J		0.00026	J		0.00059	J		0.0126			0.001		
	4/4/2011	BLIND DUPLICATE_01_04_04_2011	FD	< 0.001	U		0.0015			< 0.002	U		0.0012			0.0389			< 0.005	U		< 0.001	U		0.00059	J		0.00025	J		0.00062	J		**0.0133**			0.0011		
	4/4/2011	MW-5D PUMP_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		**0.0824**			< 0.005	U		< 0.001	U		0.00037	J		0.00055	J		0.0013			**0.0173**			**0.0023**		
	6/7/2011	MW-5D BAG_06_07_2011	N	< 0.001	U		0.0011			< 0.002	U		0.001			0.0389			< 0.005	U		< 0.001	U		0.00071	J		0.00027	J		0.00069	J		**0.01**			0.0011		
	6/7/2011	MW-5D PUMP_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		**0.0795**			< 0.005	U		< 0.001	U		0.00033	J		0.00048	J		0.0018			**0.023**			**0.0036**		
	9/15/2011	MW-5D_09_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0622			< 0.005	U		< 0.001	U		0.00045	J		< 0.001	U		0.00099	J		**0.0172**			0.0017		
	12/15/2011	MW-5D_12_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0613			< 0.005	U		< 0.001	U		0.00035	J		0.0002	J		0.00091	J		**0.016**			0.0017		
	3/14/2012	MW-5D_03_14_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0365			< 0.005	U		< 0.001	U		0.00027	J		< 0.001	U		0.00041	J		**0.0094**			0.0004	J	
	6/26/2012	MW-5D_06_26_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0632			< 0.005	U		< 0.001	U		0.00041	J		< 0.001	U		0.00097	J		**0.0166**			0.0014		
	10/3/2012	MW-5D_10_03_2012	N	0.00024	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0569			< 0.005	U		0.0003	J		0.00067	J		< 0.001	U		0.00098	J		**0.0167**			0.0013		
	4/23/2013	MW-5D_04_23_2013	N	0.00028	J		< 0.001	U		< 0.002	U		< 0.001	U		0.057			< 0.005	U		< 0.001	U		0.0005	J		< 0.001	U		0.0012			**0.0137**			0.0012		
	10/25/2013	MW-5D_10_25_2013	N	0.0002	J	J	< 0.001	U		< 0.002	U		< 0.001	U		0.037		J	< 0.005	U		< 0.001	U		0.0007	J	J	< 0.001	U		0.001		J	**0.0146**		J	0.00081	J	J
	4/8/2014	MW-5D_04_08_2014	N	0.00025	J		< 0.001	U		< 0.002	U		< 0.001	U		0.039			< 0.005	U		< 0.001	U		0.00068	J		< 0.001	U		0.00097	J		**0.0146**			0.00076	J	
	10/21/2014	MW-5D_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0325			< 0.005	U		< 0.001	U		0.00064	J		< 0.001	U		0.00084	J		**0.0136**			0.00074	J	

J - Est. Value
UJ - Est. Reporting Limt
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Results Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 3
Groundwater Monitoring Analytical Data - Detects Only
Through October 2014
Brenntag Southwest, Inc. Wichita, KS

			Chemical	Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			cis-1,2-Dichloroethene			Methylene Chloride			Methyl-tert-butyl-ether			Tetrachloroethene			Toluene			trans-1,2-Dichloroethene			Trichloroethene			Vinyl Chloride		
			RSK for Residential Groundwater Pathway	0.1			0.08			14			0.08			0.07			0.005			0.133			0.005			1			0.1			0.005			0.002		
			KS_RES_action_level_unit	mg/L			0.08			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
			Units	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Well ID	Date	sys_sample_code	Sample Type	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual	Result	Lab Qual	Val Qual
MW-5S	4/4/2011	MW-5S BAG_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0227			< 0.005	U		< 0.001	U		**0.0279**			< 0.001	U		0.00062	J		**0.0317**			0.00064	J	
	4/4/2011	MW-5S PUMP_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0189			< 0.005	U		< 0.001	U		**0.0361**			0.00022	J		0.00059	J		**0.0225**			0.00042	J	
	6/7/2011	MW-5S BAG_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0291			< 0.005	U		< 0.001	U		**0.018**			< 0.001	U		0.00079	J		**0.0314**			0.00086	J	
	6/7/2011	MW-5S PUMP_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.02			< 0.005	U		< 0.001	U		**0.0187**			< 0.001	U		0.00056	J		**0.0215**			0.00058	J	
	9/15/2011	MW-5S_09_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0047			< 0.005	U		< 0.001	U		**0.0122**			< 0.001	U		< 0.001	U		**0.0075**			< 0.001	U	
	12/15/2011	MW-5S_12_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0025			< 0.005	U		< 0.001	U		**0.0161**			< 0.001	U		< 0.001	U		0.0037			< 0.001	U	
	3/14/2012	MW-5S_03_14_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0189			< 0.005	U		< 0.001	U		**0.0072**			< 0.001	U		0.00046	J		**0.0148**			0.00036	J	
	6/26/2012	MW-5S_06_26_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0183			< 0.005	U		< 0.001	U		**0.0056**			< 0.001	U		< 0.001	U		**0.0148**			< 0.001	U	
	10/3/2012	MW-5S_10_03_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0193			< 0.005	U		< 0.001	U		**0.0064**			< 0.001	U		0.00043	J		**0.0149**			< 0.001	U	
	4/23/2013	MW-5S_04_23_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0225			< 0.005	U		< 0.001	U		0.0044			< 0.001	U		0.00055	J		**0.0143**			0.00061	J	
	10/25/2013	MW-5S_10_25_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0094		J	< 0.005	U		< 0.001	U		0.0049		J	< 0.001	U		0.00026	J	J	**0.0081**		J	< 0.001	U	
	4/8/2014	MW-5S_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0232			< 0.005	U		< 0.001	U		0.0046			< 0.001	U		0.00063	J		**0.0183**			0.00052	J	
	10/21/2014	MW-5S_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0017			< 0.005	U		< 0.001	U		0.0043			< 0.001	U		< 0.001	U		0.0038			< 0.001	U	
MW-6D	4/4/2011	MW-6D BAG_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		0.00035	J		0.0483		J	< 0.005	U		< 0.001	U		0.00072	J		0.00024	J		0.00077	J		**0.0108**		J	0.0015		
	4/4/2011	MW-6D PUMP_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0655			< 0.005	U		< 0.001	U		0.00084	J		0.00026	J		0.0011			**0.014**			0.0019		
	6/7/2011	MW-6D BAG_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		**0.0847**			< 0.005	U		< 0.001	U		0.00065	J		< 0.001	U		0.0012			**0.0172**			**0.0021**		
	6/7/2011	MW-6D_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		**0.0788**		J	< 0.005	U		< 0.001	U		0.00081	J		< 0.001	U		0.0014			**0.0173**			**0.0025**		
	9/15/2011	MW-6D_09_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		**0.08**			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0013			**0.0166**			0.0018		
	12/15/2011	MW-6D_12_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		**0.0841**			< 0.005	U		< 0.001	U		0.00044	J		< 0.001	U		0.0014			**0.0178**			**0.0024**		
	3/14/2012	MW-6D_03_14_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		**0.0763**			< 0.005	U		< 0.001	U		0.00056	J		< 0.001	U		0.0013			**0.0164**			0.0019		
	6/26/2012	MW-6D_06_26_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0671			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0012			**0.0167**			0.0017		
	10/3/2012	MW-6D_10_03_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0658			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0016			**0.0163**			0.0017		
	4/23/2013	MW-6D_04_23_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		**0.0756**			< 0.005	U		< 0.001	U		0.00042	J		< 0.001	U		0.0015			**0.0181**			0.0016		
	10/25/2013	MW-6D_10_25_2013	N	< 0.001	U		< 0.001	U		0.0006	J		< 0.001	U		0.0536		J	< 0.005	U		< 0.001	U		0.00047	J	J	< 0.001	U		0.0011		J	**0.0128**		J	0.00069	J	J
	4/8/2014	MW-6D_04_08_2014	N	0.00026	J		< 0.001	U		< 0.002	U		< 0.001	U		0.0619			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0013			**0.0085**			0.0014		
	10/21/2014	MW-6D_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0491			< 0.005	U		< 0.001	U		< 0.001	U		< 0.001	U		0.00091	J		**0.0116**			0.0012		
MW-6S	4/4/2011	MW-6S BAG_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0232			< 0.005	U		< 0.001	U		**0.0225**			< 0.001	U		< 0.001	U		**0.0115**			**0.0029**		
	4/4/2011	MW-6S PUMP_04_04_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0291			< 0.005	U		< 0.001	U		**0.0266**			0.00031	J		0.0004	J		**0.0134**			**0.0027**		
	6/7/2011	MW-6S BAG_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0338			< 0.005	U		< 0.001	U		**0.0101**			< 0.001	U		0.00054	J		**0.0169**			0.00078	J	
	6/7/2011	BLIND DUPLICATE BAG_06_07_2011	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0333			< 0.005	U		< 0.001	U		**0.0102**			< 0.001	U		0.00049	J		**0.0165**			0.00069	J	
	6/7/2011	MW-6S_06_07_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0312			< 0.005	U		< 0.001	U		**0.0247**			< 0.001	U		0.00056	J		**0.0147**			0.0009	J	
	6/7/2011	BLIND DUPLICATE_06_07_2011	FD	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0314			< 0.005	U		< 0.001	U		**0.025**			< 0.001	U		0.00054	J		**0.0156**			0.00085	J	
	9/15/2011	MW-6S_09_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0242			< 0.005	U		< 0.001	U		**0.0216**			< 0.001	U		0.00037	J		**0.015**			0.00041	J	
	12/15/2011	MW-6S_12_15_2011	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0347			< 0.005	U		< 0.001	U		**0.0794**			< 0.001	U		0.00055	J		**0.0221**			< 0.001	U	
	3/14/2012	MW-6S_03_14_2012	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0292			< 0.005	U		< 0.001	U		**0.181**			< 0.001	U		0.00072	J		**0.0263**			0.00058	J	
	6/26/2012	MW-6S_06_26_2012	N	< 0.002	U		< 0.002	U		< 0.004	U		< 0.002	U		0.0239			0.0066	J		< 0.002	U		**0.134**			< 0.002	U		< 0.002	U		**0.0198**			0.0011	J	
	10/3/2012	MW-6S_10_03_2012	N	< 0.002	U		< 0.002	U		< 0.004	U		< 0.002	U		0.0547			< 0.01	U		< 0.002	U		**0.0682**			< 0.002	U		< 0.002	U		**0.0181**			**0.0038**		
	4/23/2013	MW-6S_04_23_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0258			< 0.005	U		< 0.001	U		**0.0694**			< 0.001	U		0.00082	J		**0.0188**			0.00056	J	
	10/25/2013	MW-6S_10_25_2013	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0238		J	< 0.005	U		< 0.001	U		**0.0363**		J	< 0.001	U		0.00058	J	J	**0.0148**		J	< 0.001	U	
	4/8/2014	MW-6S_04_08_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0401			< 0.005	U		< 0.001	U		**0.0442**			< 0.001	U		0.00092	J		**0.0128**			0.00067	J	
	10/21/2014	MW-6S_10_21_2014	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0389			< 0.005	U		< 0.001	U		**0.0315**			< 0.001	U		0.0011			**0.0136**			0.0012		
PZ-3	2/7/2008	PZ-3_02_07_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0076			< 0.001	U		< 0.001	U		**0.117**			< 0.001	U		< 0.001	U		**0.0081**			< 0.001	U	
	5/6/2008	PZ-3_05_06_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0036			< 0.001	U		< 0.001	U		**0.0734**			< 0.001	U		< 0.001	U		0.0044			< 0.001	U	
	8/29/2008	PZ-3_08_29_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0024			< 0.001	U		< 0.001	U		**0.0209**			< 0.001	U		< 0.001	U		0.0019			< 0.001	U	
	12/22/2008	PZ-3_12_22_2008	N	< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		**0.0252**			< 0.001	U		< 0.001	U		0.0015			< 0.001	U	
	3/19/2009	PZ-3_03_19_2009	N	0.0019			< 0.001	U		< 0.001	U		< 0.001	U		0.0012			< 0.001	U		< 0.001	U		**0.0127**			< 0.001	U		< 0.001	U		0.0011			< 0.001	U	R
	6/19/2009	PZ-3_06_19_2009	N	0.0017			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		0.0026			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
	9/18/2009	PZ-3_09_18_2009	N	0.0011			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U		< 0.005	U		< 0.001	U		**0.00702**			< 0.001	U		< 0.001	U		< 0.001	U		< 0.001	U	
	12/23/2009	PZ-3_12_23_2009	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0009	J		< 0.005	U		< 0.001	U		0.0016			< 0.001	U		< 0.001	U		0.0006	J		< 0.001	U	
	3/11/2010	PZ-3_03_11_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00064	J		< 0.005	U		< 0.001	U		**0.0232**			< 0.001	U		< 0.001	U		0.0023			< 0.001	U	
	6/28/2010	PZ-3_06_28_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.00065	J		< 0.005	U		< 0.001	U		**0.0122**			< 0.001	U		< 0.001	U		0.0013			< 0.001	U	
	9/10/2010	PZ-3_09_10_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		< 0.001	U		0.0023			< 0.005	U		< 0.001	U		**0.0487**			< 0.001	U		< 0.001	U		0.0048			< 0.001	U	
	12/16/2010	PZ-3_12_16_2010	N	< 0.001	U		< 0.001	U		< 0.002	U		0.00079	J		0.00048	J		< 0.005	U		< 0.001	U		**0.022**			< 0.001	U		< 0.001	U		0.0015			< 0.001	U	

Prepared by: DJD
Checked by: RMK

J - Est. Value
UJ - Est. Reporting Limt
R - Rejected
A - Subjected to Lab Contaminant
N - Normal
FD - Field Duplicate

Bold Results Exceed RSK Value
Lab Qual - Assigned by Lab
Val Qual - Assigned During Data Validation

Table 4
Groundwater Elevations Through October 2014
Brenntag Southwest, Inc., Wichita, KS

Well	MW-1d		MW-1s		MW-2d		MW-2s	
MP Elevation (ft msl)	1305.17		1305.2		1306.44		1306.54	
Date	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)
2/7/2008	11.95	1293.22	11.99	1293.21	13.51	1292.93	13.6	1292.94
5/6/2008	11.52	1293.65	11.59	1293.61	13.1	1293.34	13.22	1293.32
8/29/2008	10.43	1294.74	10.51	1294.69	12.03	1294.41	12.13	1294.41
12/22/2008	10.77	1294.40	10.83	1294.37	12.34	1294.10	12.47	1294.07
3/19/2009	11.26	1293.91	11.31	1293.89	12.82	1293.62	12.92	1293.62
6/16/2009	10.04	1295.13	10.1	1295.10	11.61	1294.83	11.71	1294.83
9/18/2009	10.21	1294.96	10.28	1294.92	11.79	1294.65	11.89	1294.65
12/23/2009	10.95	1294.22	11.01	1294.19	12.5	1293.94	12.62	1293.92
3/11/2010	11.27	1293.90	11.33	1293.87	12.84	1293.60	12.94	1293.60
6/28/2010	10.85	1294.32	10.92	1294.28	12.44	1294.00	12.54	1294.00
9/10/2010	11.35	1293.82	11.42	1293.78	12.92	1293.52	13.02	1293.52
12/16/2010	11.96	1293.21	12.03	1293.17	13.53	1292.91	13.64	1292.90
4/4/2011	12.42	1292.75	12.49	1292.71	13.91	1292.53	14.06	1292.48
6/7/2011	12.58	1292.59	12.63	1292.57	14.1	1292.34	14.19	1292.35
9/15/2011	12.82	1292.35	12.9	1292.30	14.36	1292.08	14.44	1292.10
12/15/2011	13	1292.17	13.04	1292.16	14.54	1291.90	14.63	1291.91
3/14/2012	12.91	1292.26	12.98	1292.22	14.47	1291.97	14.57	1291.97
6/26/2012	12.52	1292.65	12.34	1292.86	13.9	1292.54	14.04	1292.50
10/3/2012	12.73	1292.44	12.79	1292.41	14.26	1292.18	14.35	1292.19
4/23/2013	13.05	1292.12	13.15	1292.05	14.7	1291.74	14.8	1291.74
10/25/2013	11.8	1293.37	11.87	1293.33	13.37	1293.07	13.47	1293.07
4/8/2014	12.46	1292.71	12.51	1292.69	15.27	1291.17	14.05	1292.49
10/21/2014	12.5	1292.67	12.57	1292.63	14.03	1292.41	14.12	1292.42

MP - Measuring Point
MSL - Mean Sea Level
PZ-3 was abandoned in March 2011

Table 4
Groundwater Elevations Through October 2014
Brenntag Southwest, Inc., Wichita, KS

Well	MW-3d		MW-3s		MW-4d	
MP Elevation (ft msl)	1306.54		1306.54		1306.15	
Date	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)
2/7/2008	13.5	1293.04	13.61	1292.93	NOT COMPLETED	
5/6/2008	13.21	1293.33	13.2	1293.34		
8/29/2008	12.11	1294.43	12.11	1294.43		
12/22/2008	12.42	1294.12	12.4	1294.14		
3/19/2009	12.89	1293.65	12.9	1293.64		
6/16/2009	11.69	1294.85	11.67	1294.87		
9/18/2009	11.86	1294.68	11.86	1294.68		
12/23/2009	12.57	1293.97	12.58	1293.96		
3/11/2010	12.91	1293.63	12.9	1293.64		
6/28/2010	12.53	1294.01	12.51	1294.03		
9/10/2010	12.98	1293.56	13	1293.54		
12/16/2010	13.62	1292.92	13.61	1292.93		
4/4/2011	14.03	1292.51	14.02	1292.52	13.66	1292.49
6/7/2011	14.19	1292.35	14.15	1292.39	13.8	1292.35
9/15/2011	14.43	1292.11	14.43	1292.11	14.07	1292.08
12/15/2011	14.61	1291.93	14.59	1291.95	14.23	1291.92
3/14/2012	14.57	1291.97	14.55	1291.99	14.18	1291.97
6/26/2012	13.94	1292.60	13.97	1292.57	13.59	1292.56
10/3/2012	14.33	1292.21	14.32	1292.22	13.97	1292.18
4/23/2013	14.79	1291.75	14.72	1291.82	14.39	1291.76
10/25/2013	13.44	1293.10	13.43	1293.11	13.06	1293.09
4/8/2014	14.08	1292.46	14.02	1292.52	13.7	1292.45
10/21/2014	14.11	1292.43	14.06	1292.48	13.72	1292.43

MP - Measuring Point
MSL - Mean Sea Level
PZ-3 was abandoned in March 2011

Table 4
Groundwater Elevations Through October 2014
Brenntag Southwest, Inc., Wichita, KS

Well	MW-4s		MW-5d		MW-5s	
MP Elevation (ft msl)	1306.17		1304.97		1304.84	
Date	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)
2/7/2008	NOT COMPLETED		NOT COMPLETED		NOT COMPLETED	
5/6/2008						
8/29/2008						
12/22/2008						
3/19/2009						
6/16/2009						
9/18/2009						
12/23/2009						
3/11/2010						
6/28/2010						
9/10/2010						
12/16/2010						
4/4/2011	13.68	1292.49	12.95	1292.02	12.96	1291.88
6/7/2011	13.83	1292.34	13.08	1291.89	13.08	1291.76
9/15/2011	14.09	1292.08	13.35	1291.62	13.34	1291.50
12/15/2011	14.26	1291.91	13.52	1291.45	13.52	1291.32
3/14/2012	14.2	1291.97	13.47	1291.50	13.47	1291.37
6/26/2012	13.61	1292.56	12.91	1292.06	12.92	1291.92
10/3/2012	13.99	1292.18	13.24	1291.73	13.25	1291.59
4/23/2013	14	1292.17	13.68	1291.29	13.47	1291.37
10/25/2013	13.08	1293.09	13.71	1291.26	13.7	1291.14
4/8/2014	15.01	1291.16	14.27	1290.70	14.29	1290.55
10/21/2014	13.77	1292.40	13.01	1291.96	13.04	1291.80

MP - Measuring Point
MSL - Mean Sea Level
PZ-3 was abandoned in March 2011

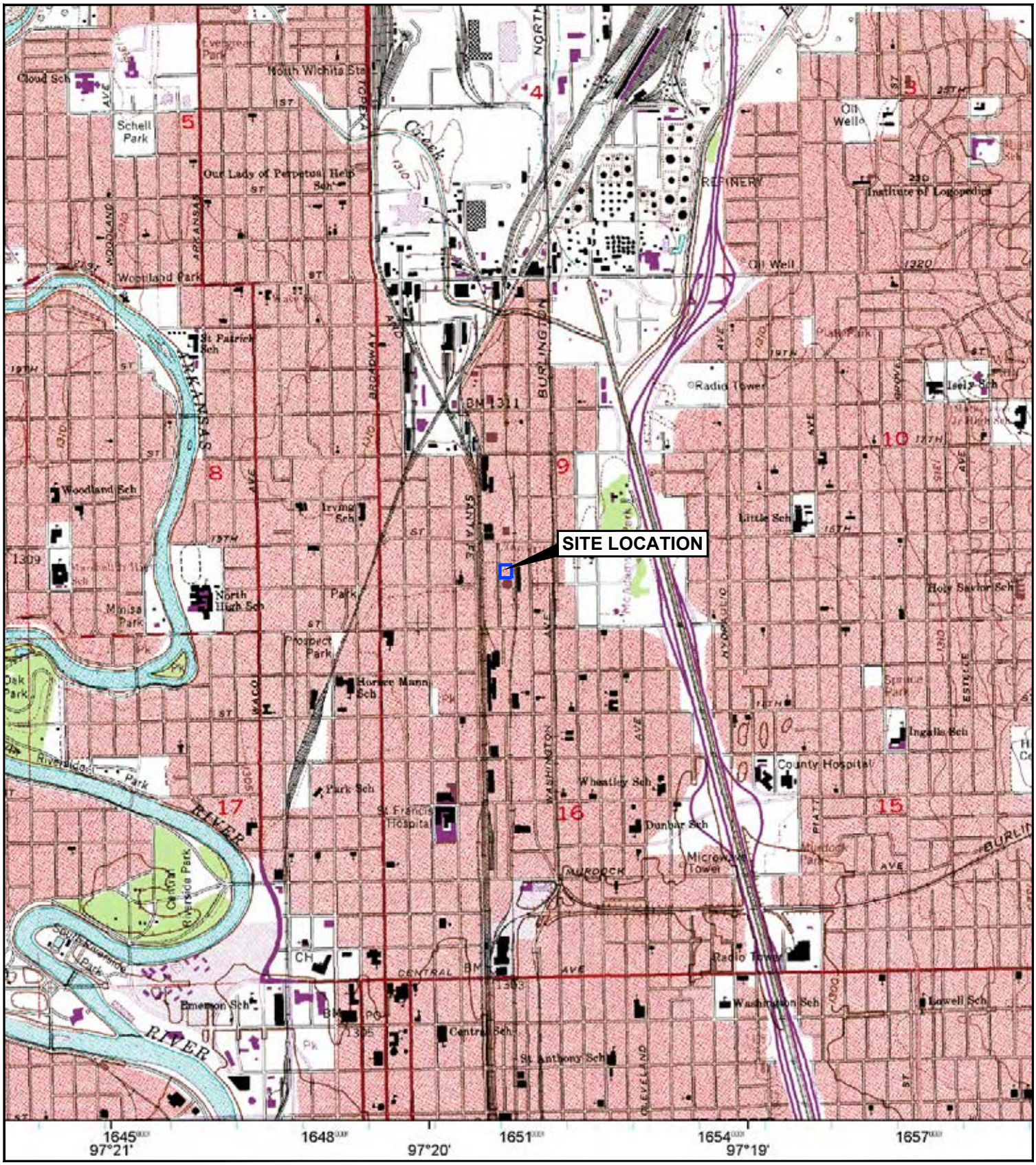
Table 4
Groundwater Elevations Through October 2014
Brenntag Southwest, Inc., Wichita, KS

Well	MW-6d		MW-6s		PZ-3	
MP Elevation (ft msl)	1304.74		1304.74		1305.72	
Date	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)	Depth to Water (ft MP)	Water Elevation (ft msl)
2/7/2008	NOT COMPLETED		NOT COMPLETED		13.25	1292.47
5/6/2008					12.87	1292.85
8/29/2008					11.78	1293.94
12/22/2008					12.07	1293.65
3/19/2009					12.58	1293.14
6/16/2009					11.35	1294.37
9/18/2009					11.53	1294.19
12/23/2009					12.28	1293.44
3/11/2010					12.61	1293.11
6/28/2010					12.24	1293.48
9/10/2010					12.7	1293.02
12/16/2010					13.33	1292.39
4/4/2011	12.9	1291.84	12.86	1291.88	ABANDONED	
6/7/2011	13.01	1291.73	12.99	1291.75		
9/15/2011	13.28	1291.46	13.27	1291.47		
12/15/2011	13.44	1291.30	13.43	1291.31		
3/14/2012	14.7	1290.04	13.38	1291.36		
6/26/2012	12.89	1291.85	12.86	1291.88		
10/3/2012	13.21	1291.53	13.19	1291.55		
4/23/2013	13.63	1291.11	13.61	1291.13		
10/25/2013	12.37	1292.37	13.6	1291.14		
4/8/2014	12.94	1291.80	12.94	1291.80		
10/21/2014	12.96	1291.78	12.94	1291.80		

Prepared by: DJD
Checked by: RMK

MP - Measuring Point
MSL - Mean Sea Level
PZ-3 was abandoned in March 2011

Figures



NOTES:

1. Coordinate System: KS83-SF
2. Datum: NAD83
3. Location: 37 42 37N, 97 19 44W

Foth

N

This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

0 1,000 2,000 Feet

BRENNTAG SOUTHWEST

FIGURE 1
SITE LOCATION MAP
COMPREHENSIVE INVESTIGATION
1520 N. BARWISE STREET
WICHITA, KANSAS

Date: JANUARY 2015	Revision:	
Drawn By: ADM	Checked By: DJD	Scope: 12B477

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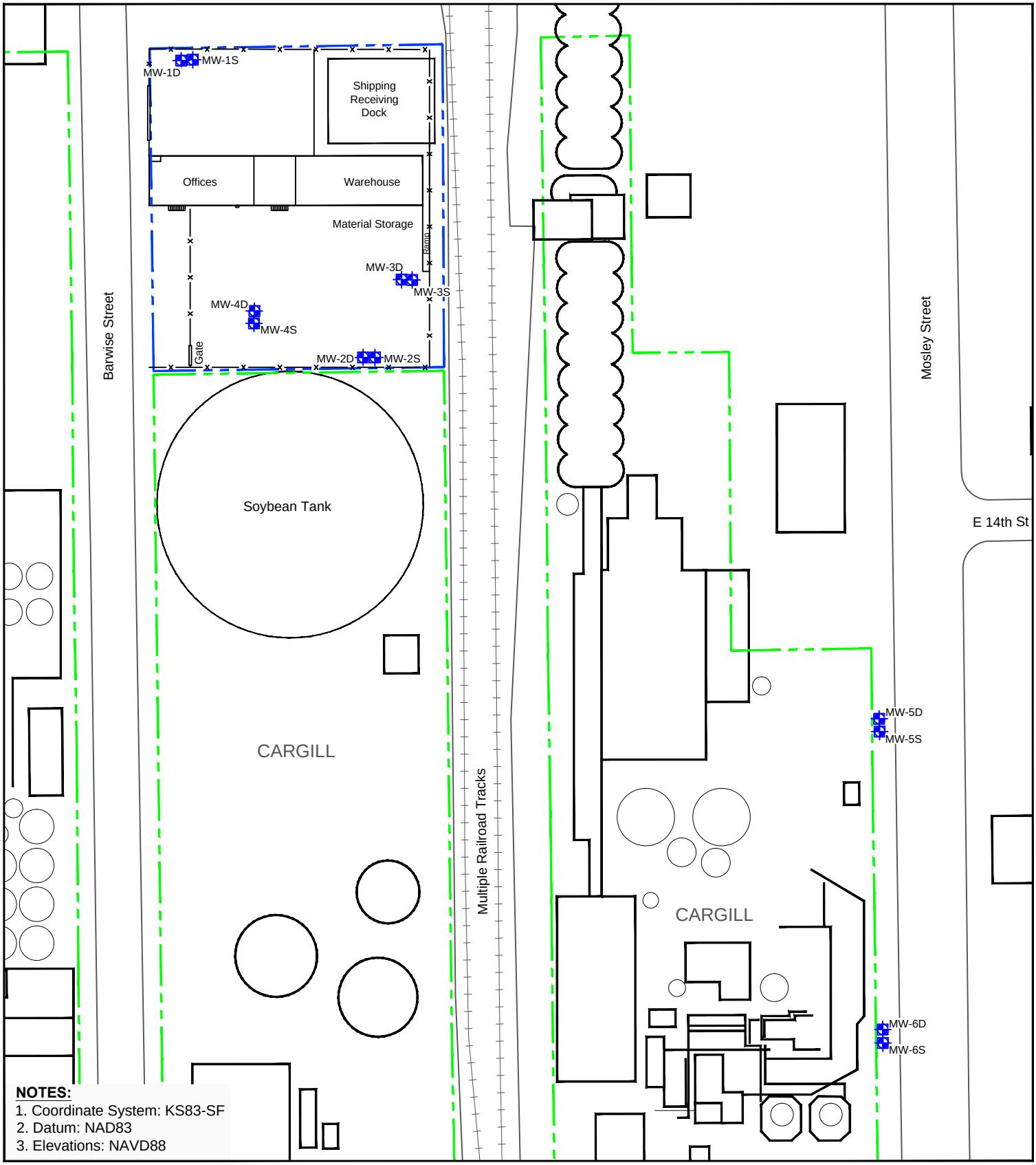

NOTES:
1. Coordinate System: KS83-SF
2. Datum: NAD83
3. Elevations: NAVD88

LEGEND:
- Monitoring Well Location
- Fence
- Brenntag Property Boundary
- Cargill Property Boundary

N

Foth

0 40 80 Feet

This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

BRENNTAG SOUTHWEST

FIGURE 2
SITE LAYOUT MAP
COMPREHENSIVE INVESTIGATION
1520 N. BARWISE STREET
WICHITA, KANSAS

Date: JANUARY 2015	Revision:	
Drawn By: ADM	Checked By: DJD	Scope: 12B477

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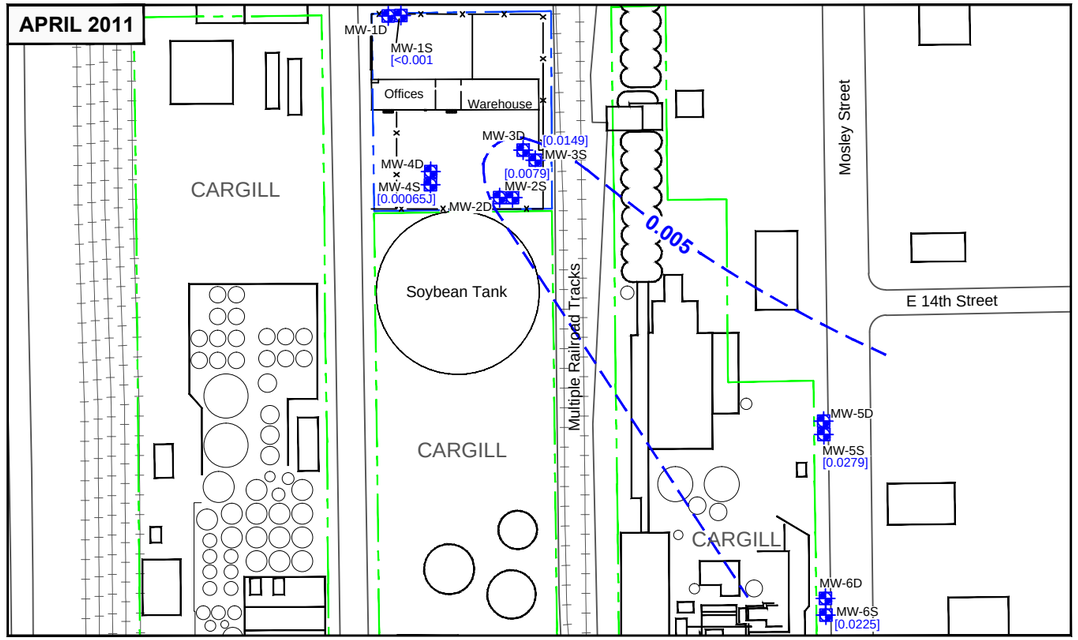
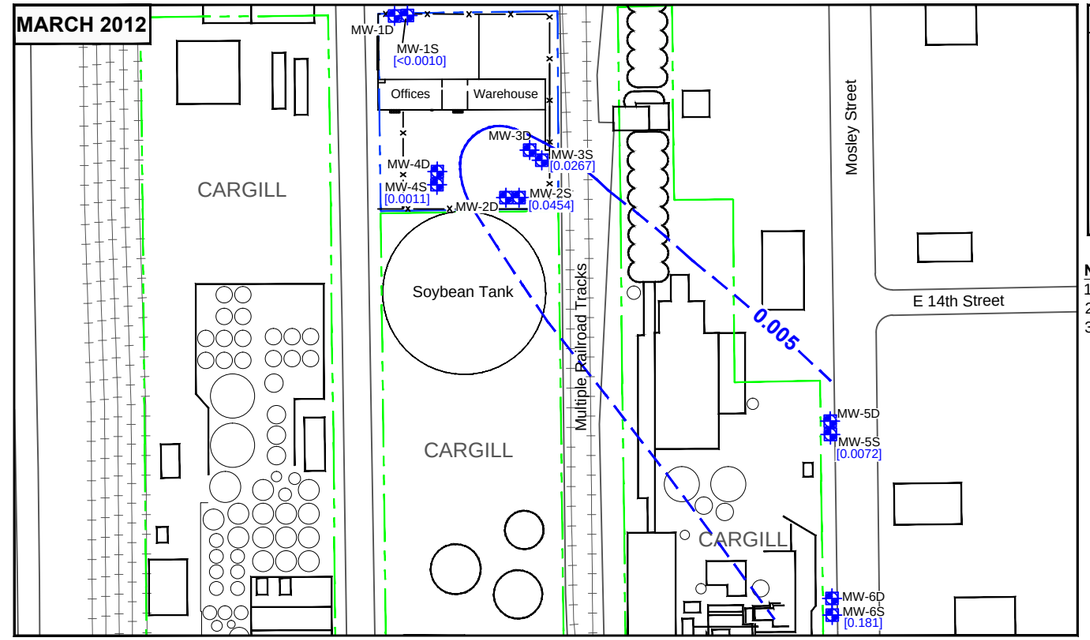
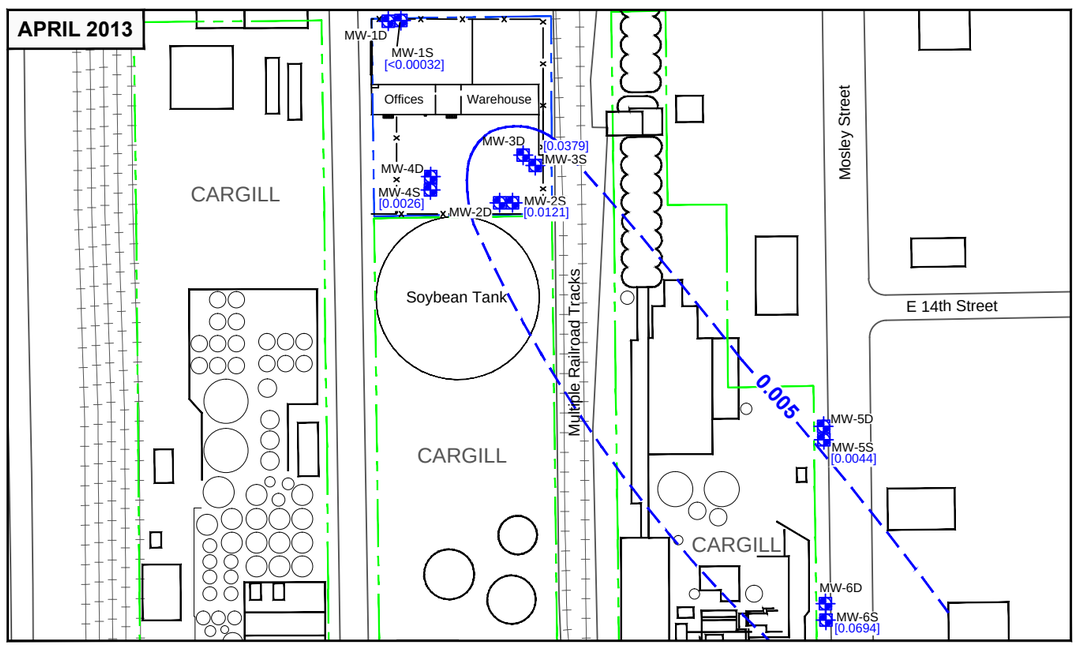
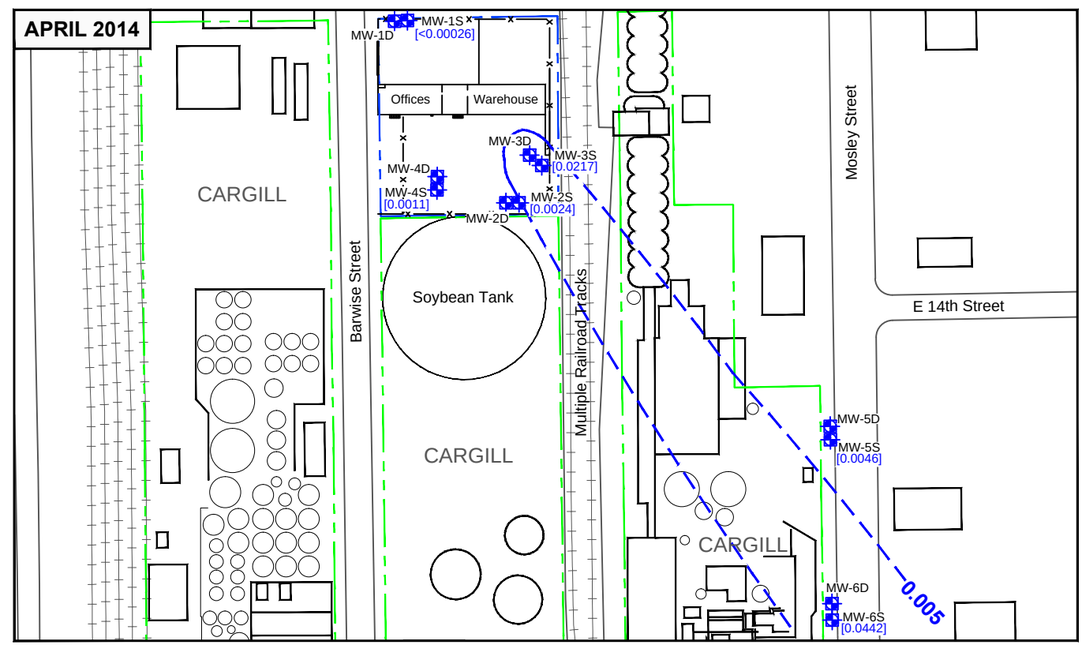








LEGEND

- Monitoring Well Location
- Fence
- Brenntag Property Boundary
- Cargill Property Boundary
- 0.01 PCE Contour (mg/L)

NOTES:

1. Coordinate System: KS83-SF
2. Datum: NAD83
3. J = Estimated Value

Foth

N

This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

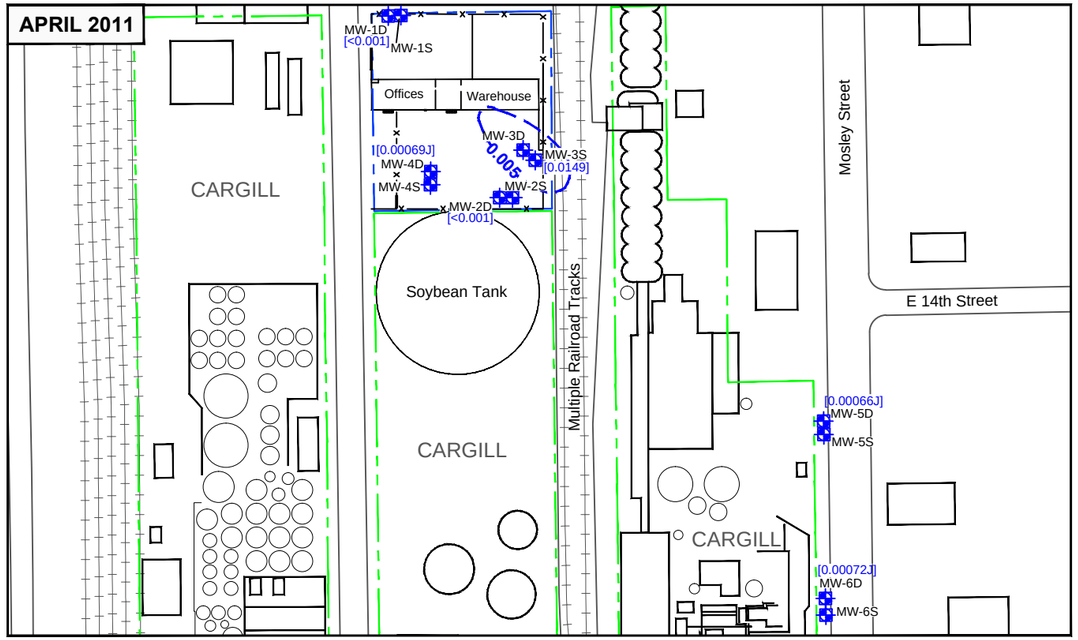
0 150 Feet

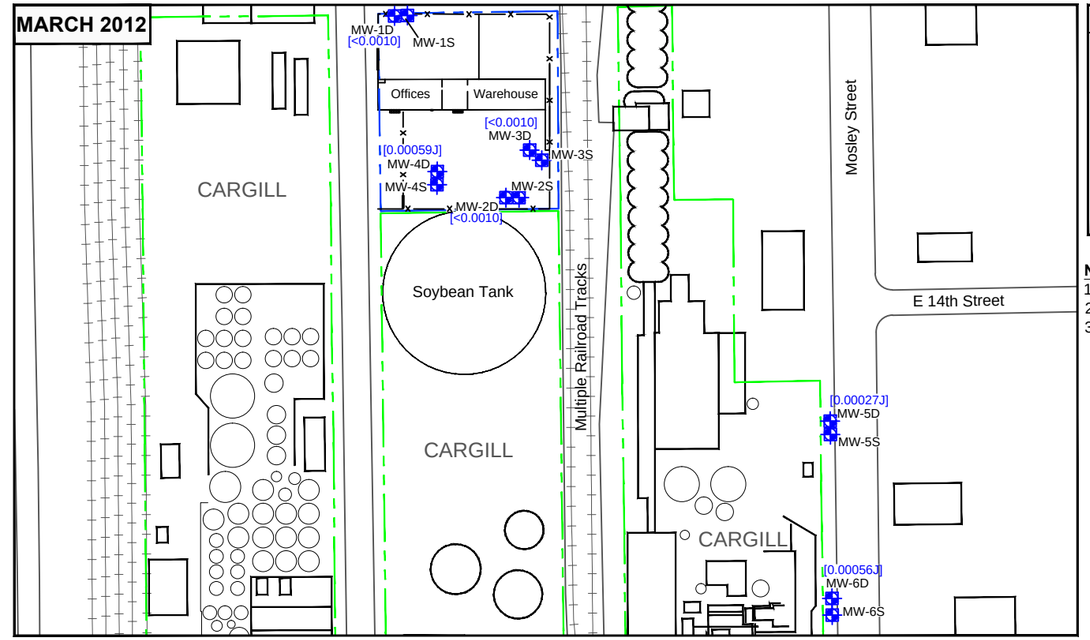
BRENNTAG SOUTHWEST

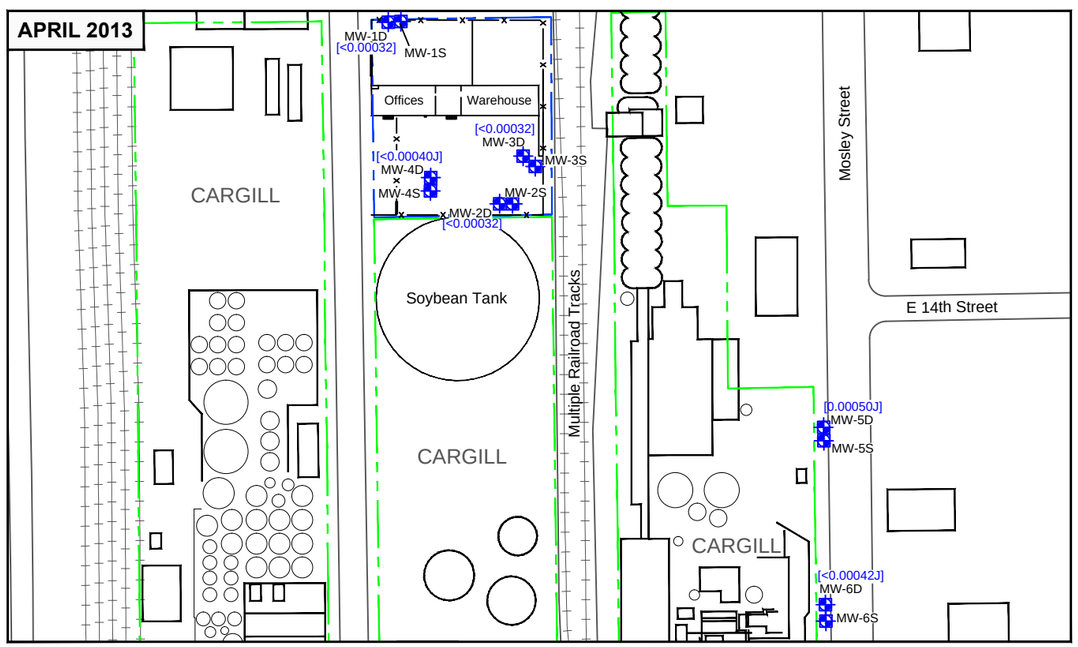
FIGURE 3

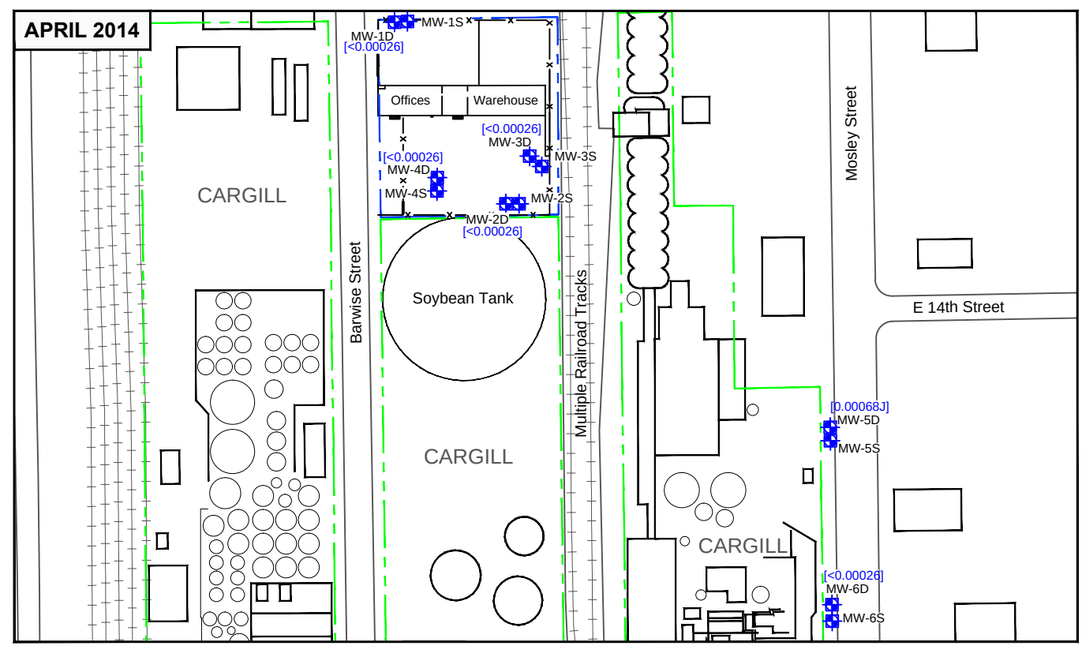
2011-2014 SPRING SAMPLING EVENT
SHALLOW GROUNDWATER PCE ISOCONTOUR MAPS
COMPREHENSIVE INVESTIGATION
1520 N. BARWISE STREET
WICHITA, KANSAS

Date: FEBRUARY 2015	Revision:	
Drawn By: ADM	Checked By: DJD	Scope: 12B477









LEGEND

- Monitoring Well Location
- Fence
- Brenntag Property Boundary
- Cargill Property Boundary
- 0.01 PCE Contour (mg/L)

NOTES:

1. Coordinate System: KS83-SF
2. Datum: NAD83
3. J = Estimated Value

Foth

N

This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

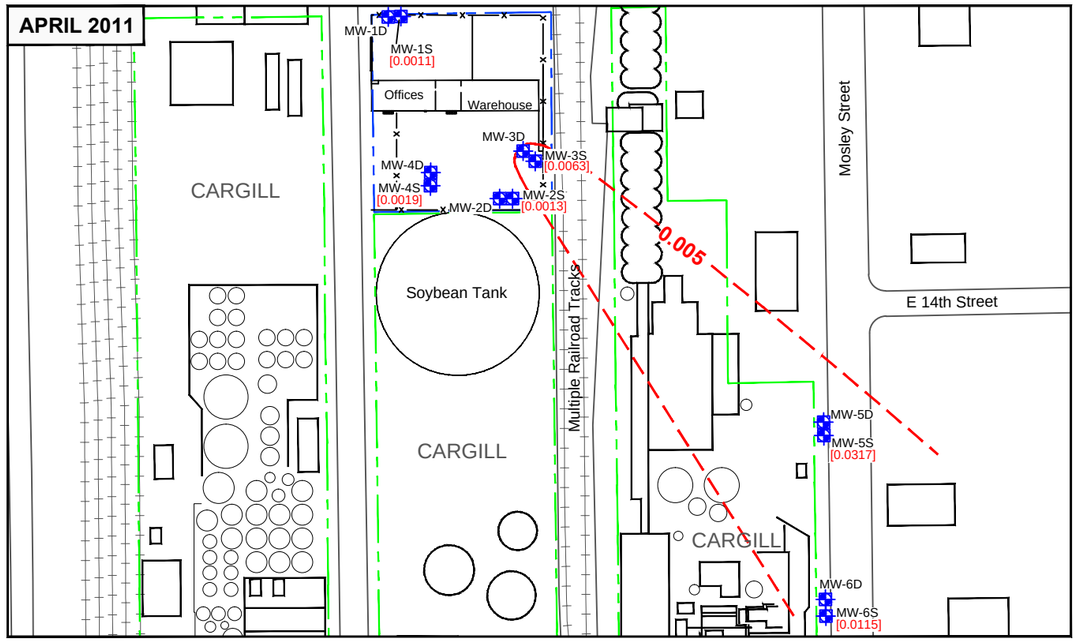
0 150 Feet

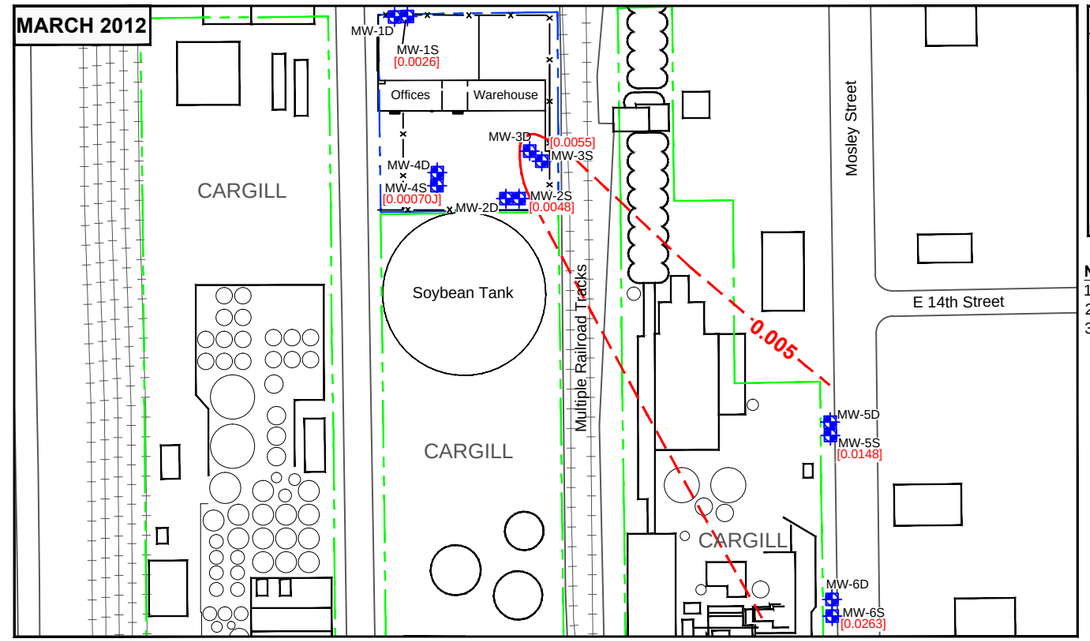
BRENNTAG SOUTHWEST

FIGURE 4

2011-2014 SPRING SAMPLING EVENT
DEEP GROUNDWATER PCE ISOCONTOUR MAPS
COMPREHENSIVE INVESTIGATION
1520 N. BARWISE STREET
WICHITA, KANSAS

Date: FEBRUARY 2015	Revision:	
Drawn By: ADM	Checked By: DJD	Scope: 12B477



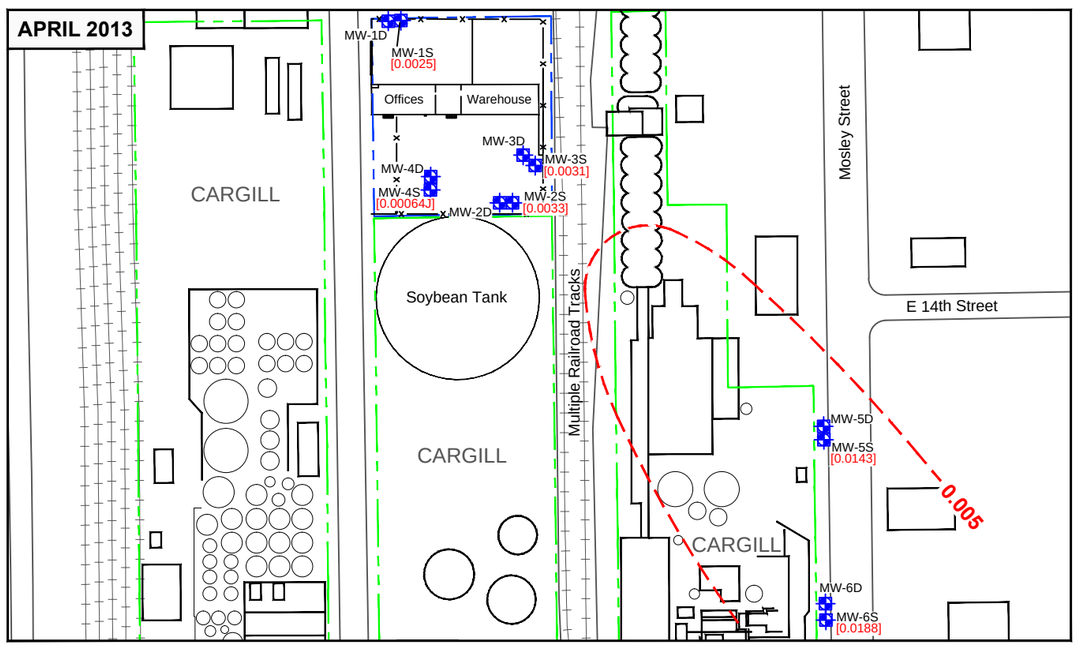


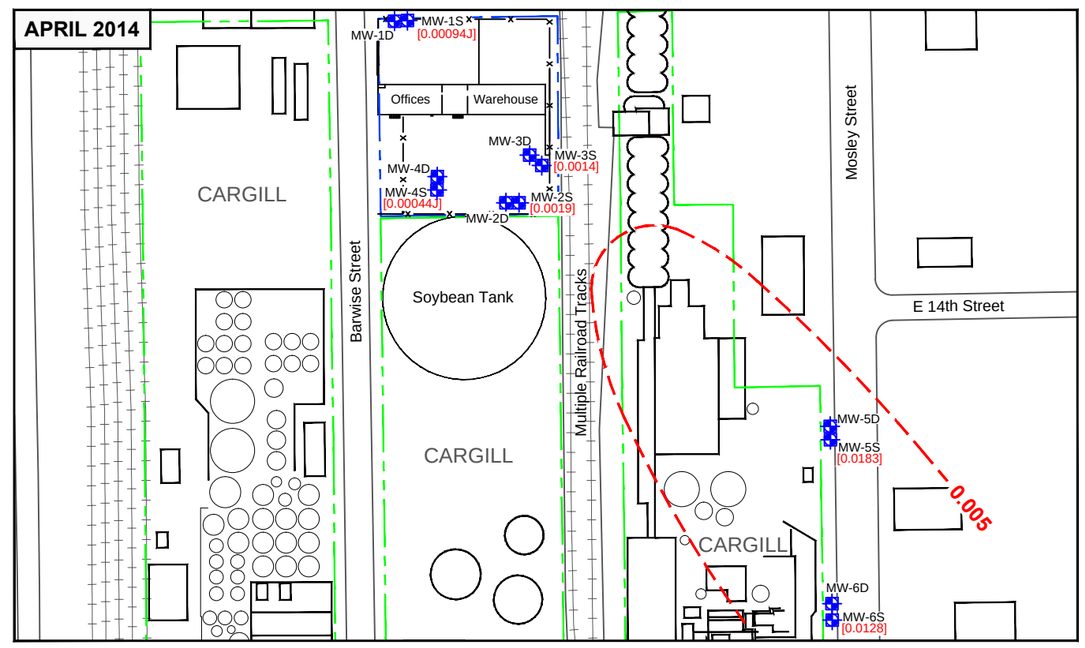
LEGEND

- Monitoring Well Location
- Fence
- Brenntag Property Boundary
- Cargill Property Boundary
- 0.01 TCE Contour (mg/L)

NOTES:

1. Coordinate System: KS83-SF
2. Datum: NAD83
3. J = Estimated Value





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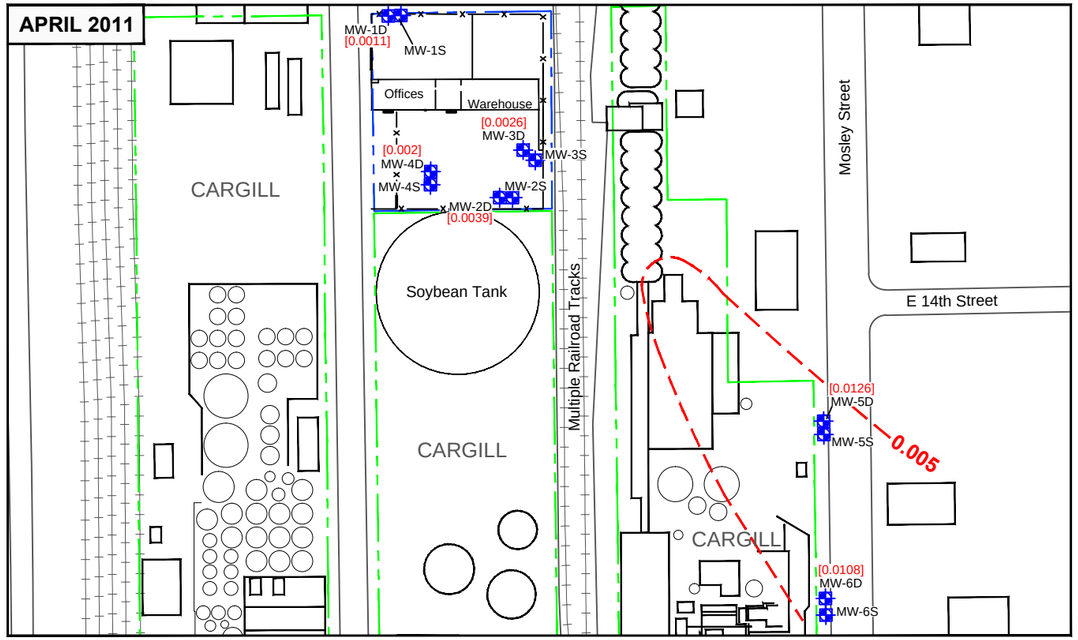
0 150 Feet

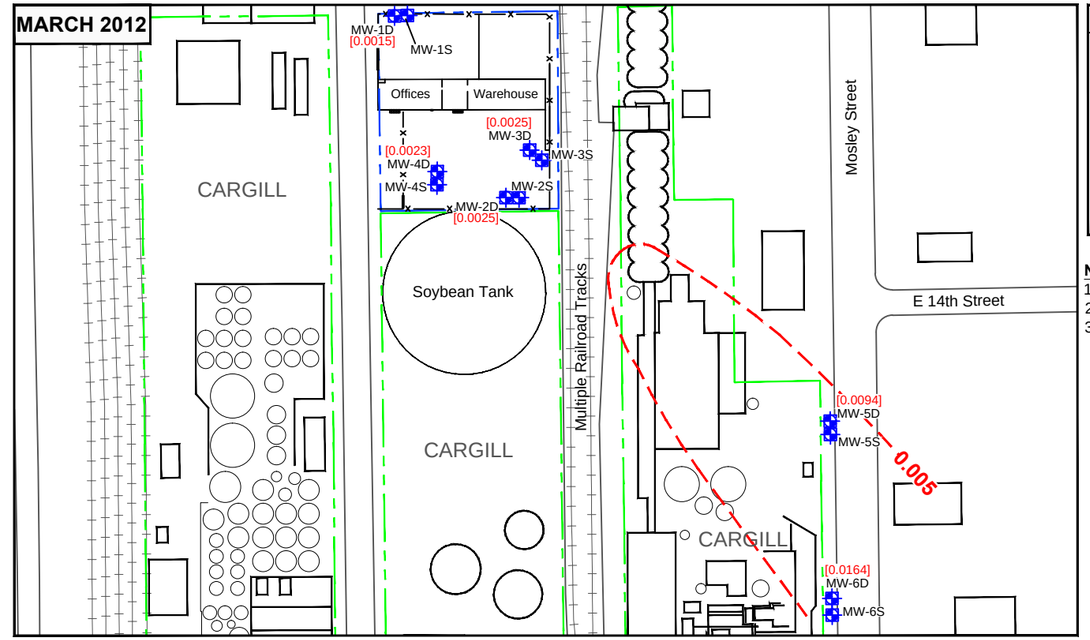
N

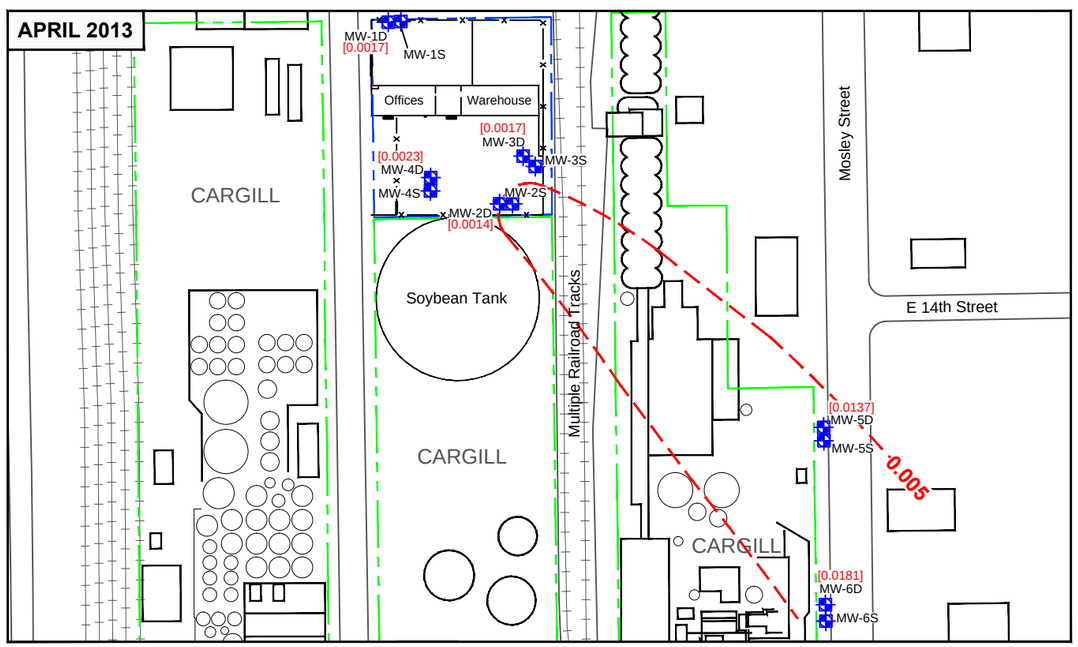
BRENNTAG SOUTHWEST

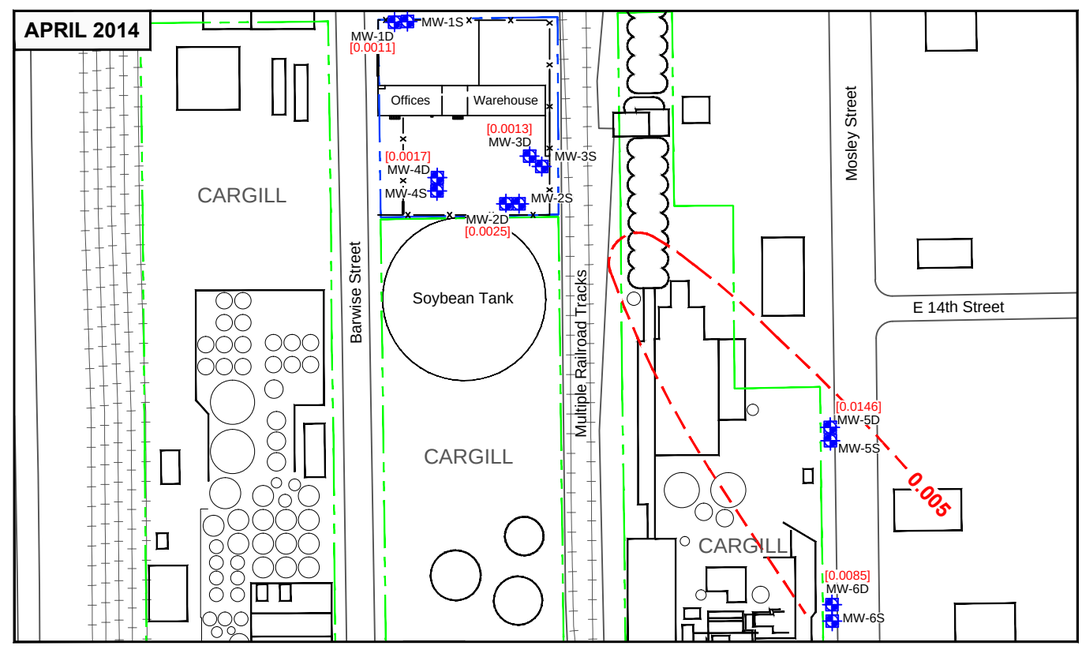
FIGURE 5
2011-2014 SPRING SAMPLING EVENT
SHALLOW GROUNDWATER TCE ISOCONTOUR MAPS
COMPREHENSIVE INVESTIGATION
1520 N. BARWISE STREET
WICHITA, KANSAS

Date: FEBRUARY 2015	Revision:	
Drawn By: ADM	Checked By: DJD	Scope: 12B477









LEGEND

- Monitoring Well Location
- Fence
- Brenntag Property Boundary
- Cargill Property Boundary
- 0.01 TCE Contour (mg/L)

NOTES:

1. Coordinate System: KS83-SF
2. Datum: NAD83
3. J = Estimated Value

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0 150 Feet

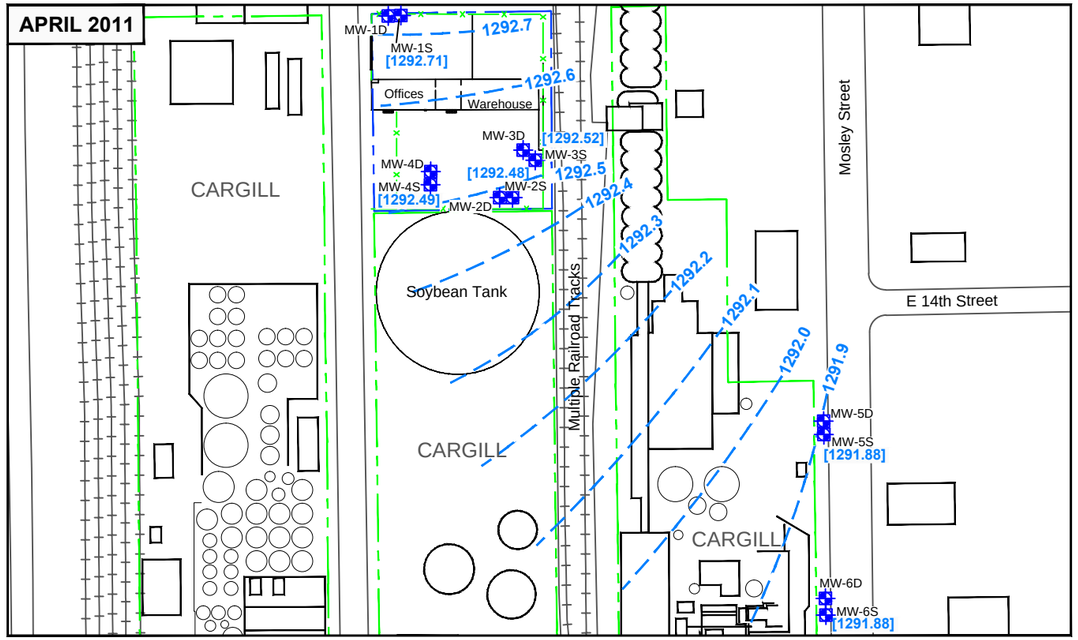
N

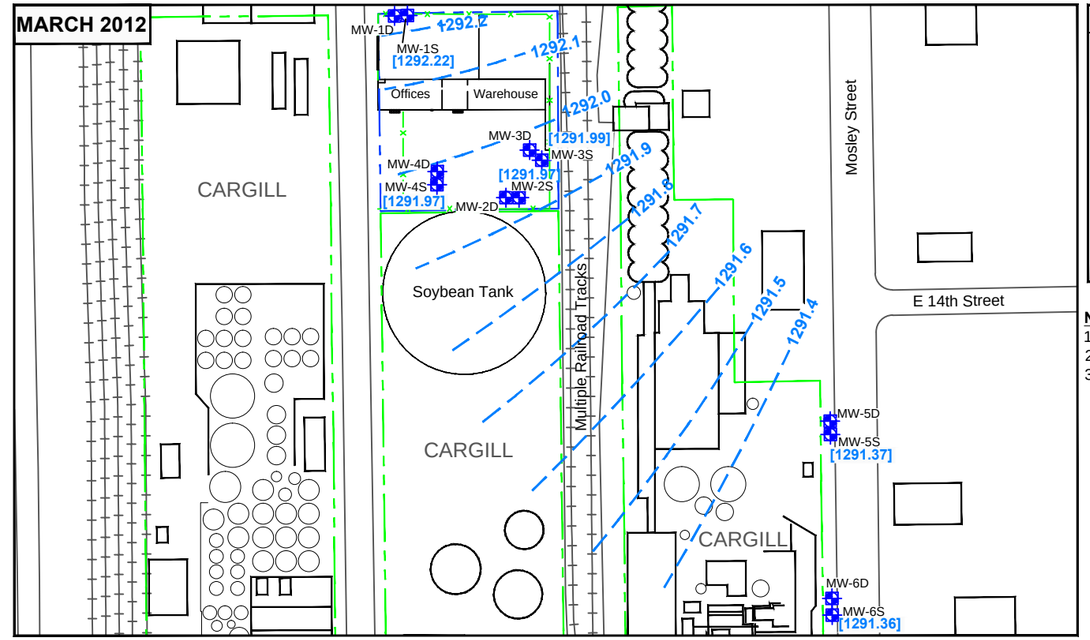
BRENNTAG SOUTHWEST

FIGURE 6

2011-2014 SPRING SAMPLING EVENT
DEEP GROUNDWATER TCE ISOCONTOUR MAPS
COMPREHENSIVE INVESTIGATION
1520 N. BARWISE STREET
WICHITA, KANSAS

Date: FEBRUARY 2015	Revision:	
Drawn By: ADM	Checked By: DJD	Scope: 12B477



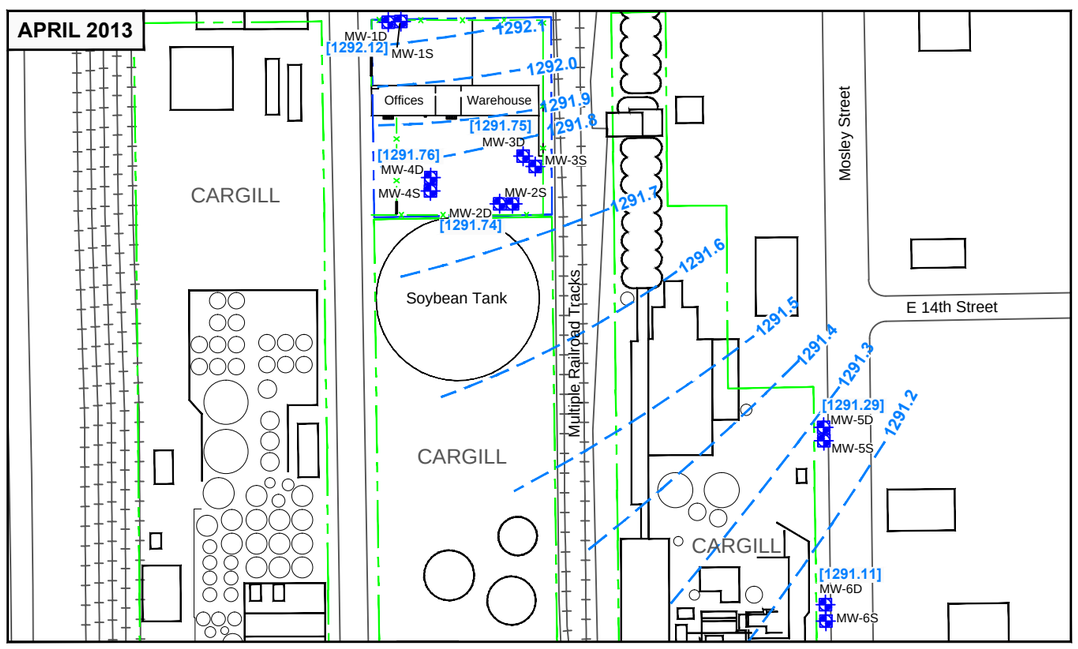


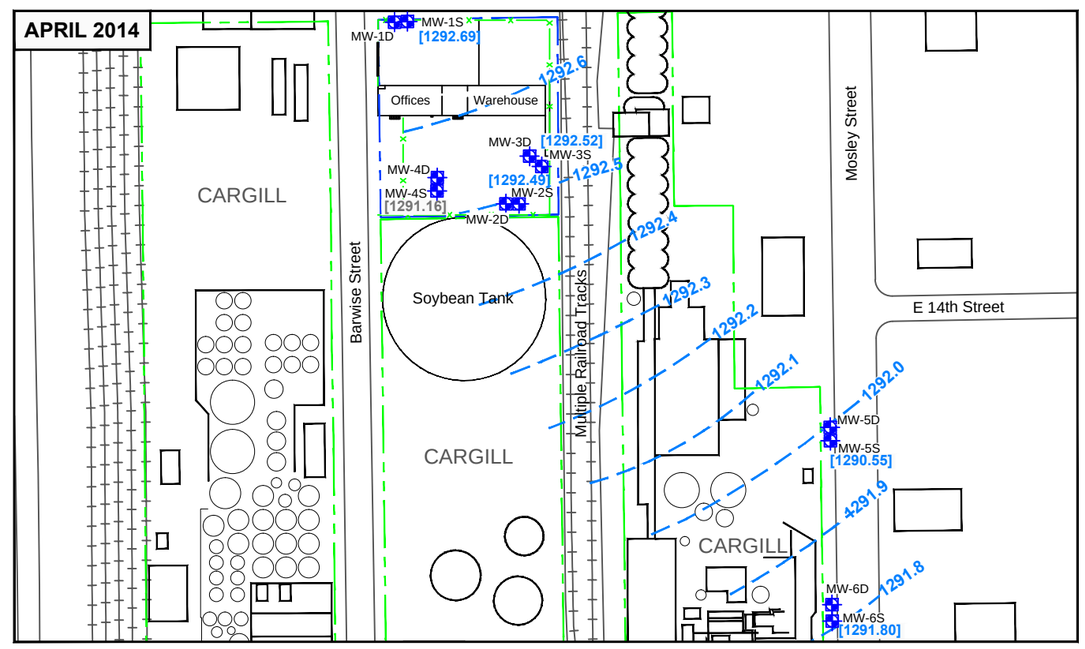
LEGEND

- Monitoring Well Location
- Fence
- Brenntag Property Boundary
- Cargill Property Boundary
- Groundwater Contour (Ft. MSL)
- [1292.00] Groundwater Elevation (Ft. MSL)

NOTES:

1. Coordinate System: KS83-SF
2. Datum: NAD83
3. Elevations: NAVD88





N

Foth

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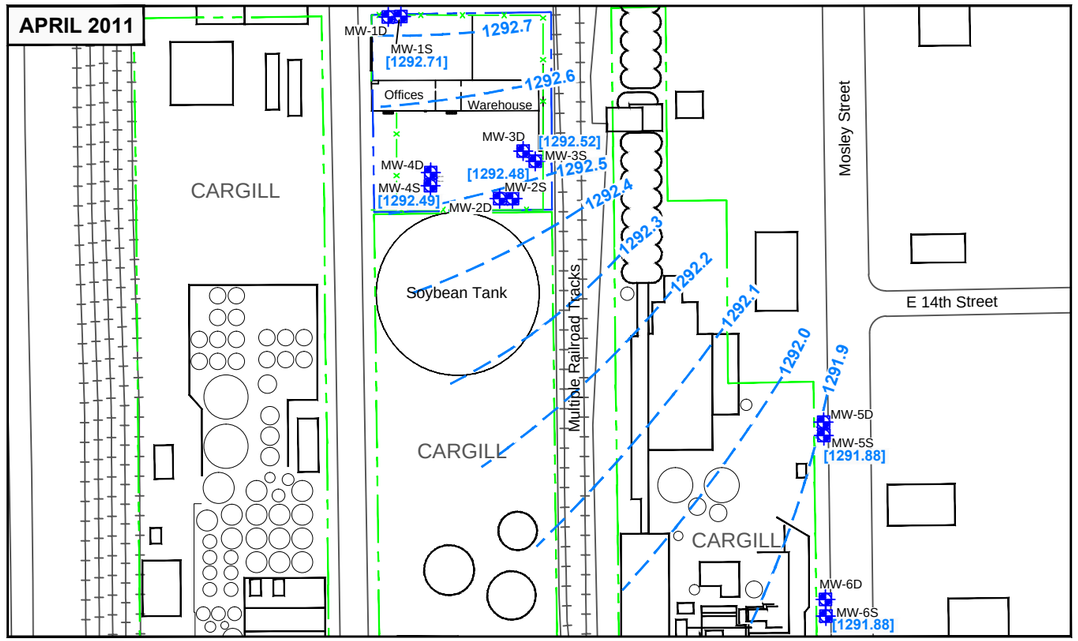
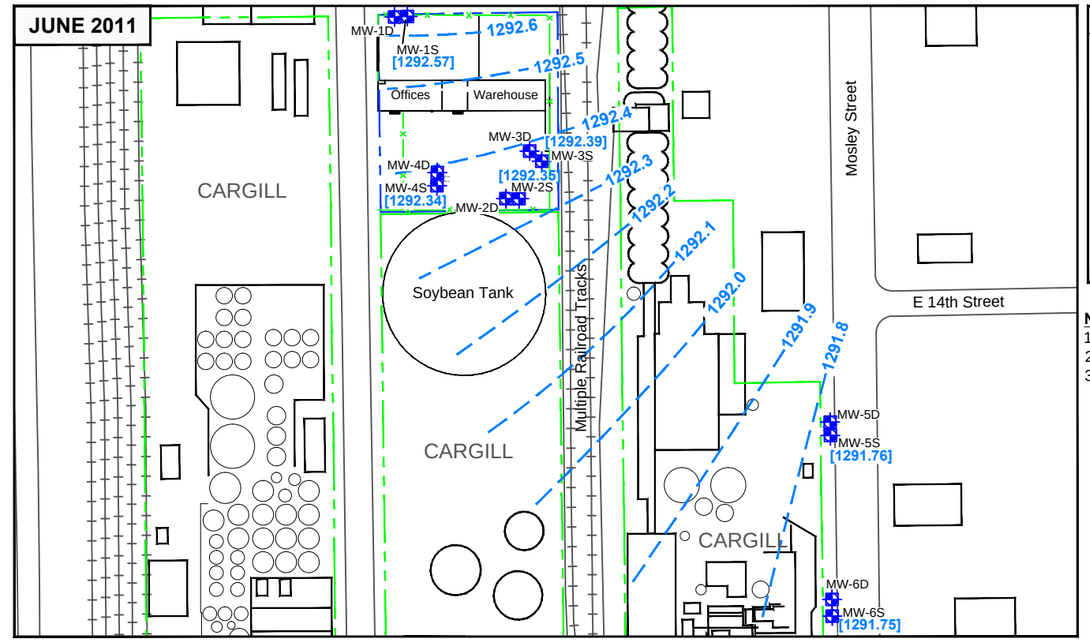
0 150 Feet

BRENNTAG SOUTHWEST

FIGURE 7
2011-2014 SPRING SAMPLING EVENT
GROUNDWATER ELEVATION CONTOUR MAPS
COMPREHENSIVE INVESTIGATION
1520 N. BARWISE STREET
WICHITA, KANSAS

Date: FEBRUARY 2015	Revision:	
Drawn By: ADM	Checked By: DJD	Scope: 12B477



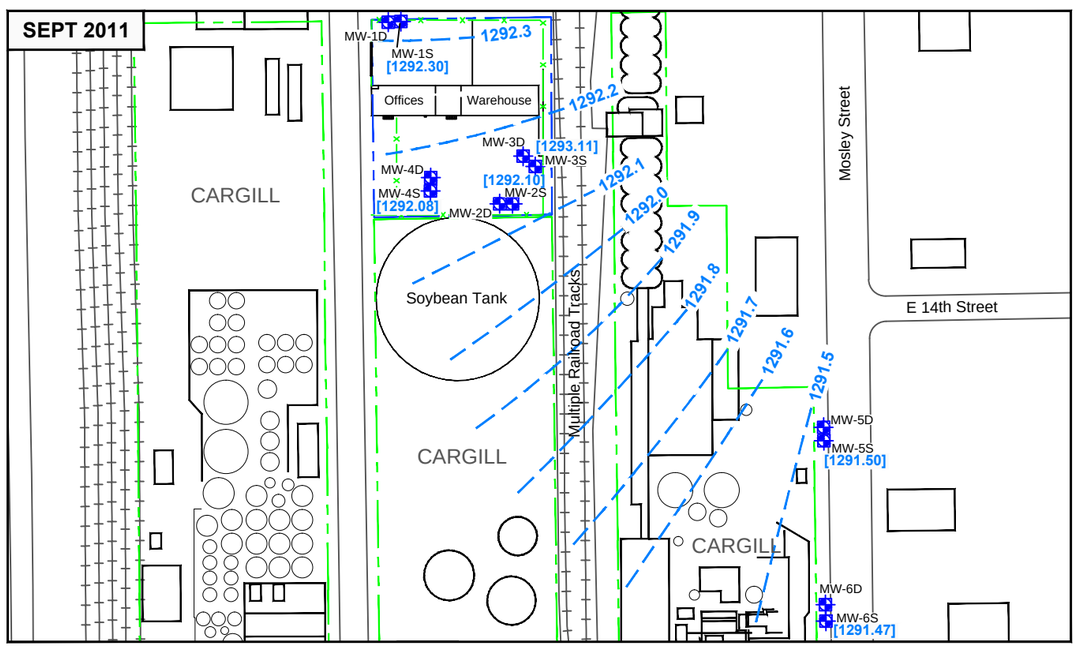


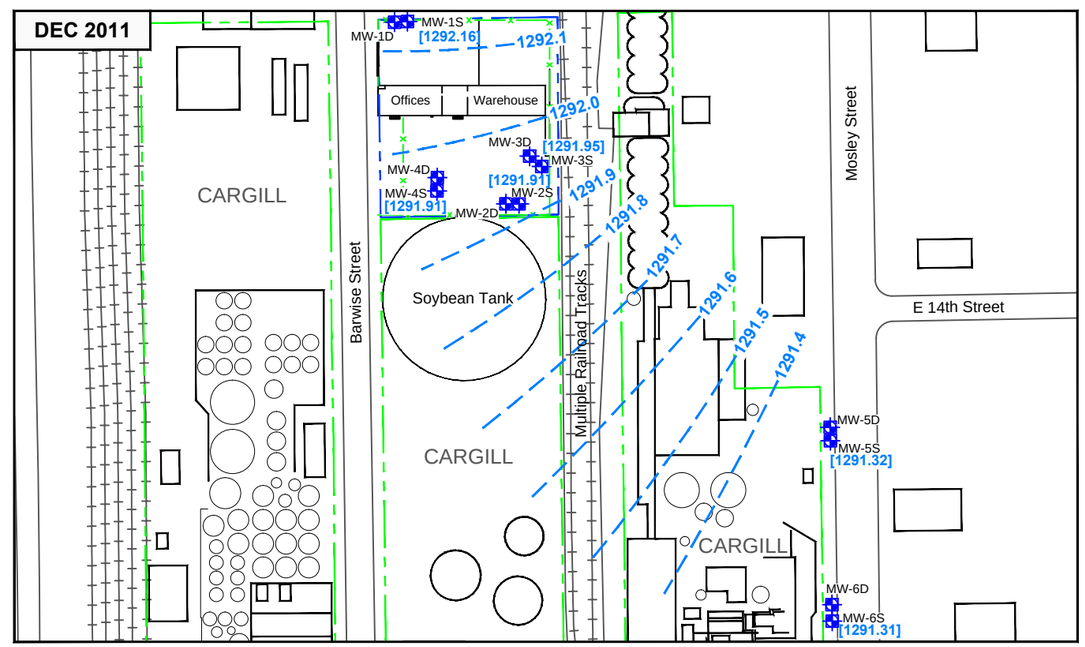
LEGEND

- Monitoring Well Location
- Fence
- Brenntag Property Boundary
- Cargill Property Boundary
- Groundwater Contour (Ft. MSL)
- [1292.00] Groundwater Elevation (Ft. MSL)

NOTES:

1. Coordinate System: KS83-SF
2. Datum: NAD83
3. Elevations: NAVD88





Foth

N

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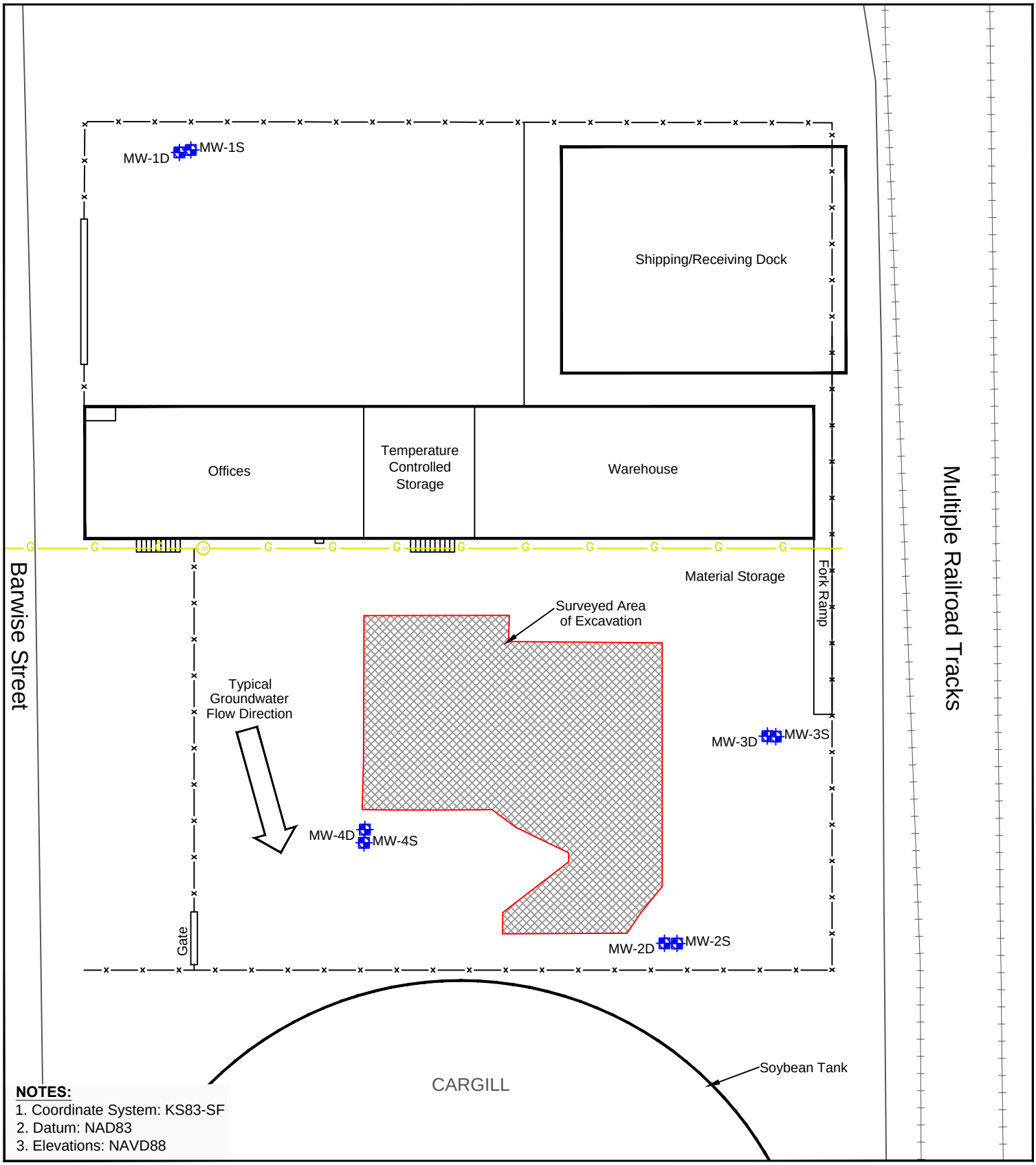
0 150 Feet

BRENNTAG SOUTHWEST

FIGURE 8

2011 QUARTERLY GROUNDWATER ELEVATION CONTOUR MAPS
COMPREHENSIVE INVESTIGATION
1520 N. BARWISE STREET
WICHITA, KANSAS

Date: FEBRUARY 2015	Revision:	
Drawn By: ADM	Checked By: DJD	Scope: 12B477



NOTES:
1. Coordinate System: KS83-SF
2. Datum: NAD83
3. Elevations: NAVD88

LEGEND:
- Monitoring Well Location
- Fence
- Gas Line
- Surveyed Area of Excavation

Foth

N

0 30 Feet

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BRENNTAG SOUTHWEST

FIGURE 9
INTERIM REMEDIAL MEASURE FOR SOIL
SOIL EXCAVATION AREA
COMPREHENSIVE INVESTIGATION
1520 N. BARWISE STREET
WICHITA, KANSAS

Date: FEBRUARY 2015	Revision:	
Drawn By: ADM	Checked By: DJD	Scope: 12B477

Feb 28, 2015 - 11:28pm ADM1 X:\SP\IE\2012\12B477\GIS\dwg\CI Report Figures\12B477_CI_F9 InterimRemedialMeasure.dwg

Appendix A

EDR Aerial Photo Decade Package, February 24, 2015

Brenntag Southwest Wichita
1520 N. Barwise
Wichita, KS 67214

Inquiry Number: 4216493.1
February 24, 2015

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

Aerial Photography February 24, 2015

Target Property:

1520 N. Barwise
Wichita, KS 67214

Year	***Scale***	***Details***	***Source***
1960	Aerial Photograph. Scale: 1"=500'	Flight Date: September 13, 1960	EDR
1970	Aerial Photograph. Scale: 1"=500'	Flight Date: November 23, 1970	EDR
1975	Aerial Photograph. Scale: 1"=500'	Flight Date: August 09, 1975	USGS
1981	Aerial Photograph. Scale: 1"=500'	Flight Date: September 27, 1981	USGS
1985	Aerial Photograph. Scale: 1"=500'	Flight Date: May 25, 1985	USGS
1991	Aerial Photograph. Scale: 1"=500'	Flight Date: October 01, 1991	USGS
1996	Aerial Photograph. Scale: 1"=750'	Flight Date: June 20, 1996	EDR
2002	Aerial Photograph. Scale: 1"=500'	Flight Date: April 09, 2002	USGS
2003	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: March 31, 2003	USGS/DOQQ
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2006	Aerial Photograph. Scale: 1"=500'	Flight Year: 2006	USDA/NAIP
2008	Aerial Photograph. Scale: 1"=500'	Flight Year: 2008	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP

INQUIRY #: 4216493.1
YEAR: 1960
= 500'
N
EDR

INQUIRY #: 4216493.1
YEAR: 1970
= 500'
N
EDR

INQUIRY #: 4216493.1
YEAR: 1975
= 500'
N
EDR

INQUIRY #: 4216493.1
YEAR: 1981
= 500'
N
EDR

INQUIRY #: 4216493.1
YEAR: 1985
= 500'
N
EDR

INQUIRY #: 4216493.1
YEAR: 1991
= 500'
N
EDR

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YEAR: 1996
= 750'
N
EDR

INQUIRY #: 4216493.1

YEAR: 2002

= 500'

N

INQUIRY #: 4216493.1
YEAR: 2003
= 500'
N
EDR

INQUIRY #: 4216493.1
YEAR: 2005
= 500'
N
EDR

INQUIRY #: 4216493.1
YEAR: 2006
= 500'
N
EDR

INQUIRY #: 4216493.1
YEAR: 2008
= 500'
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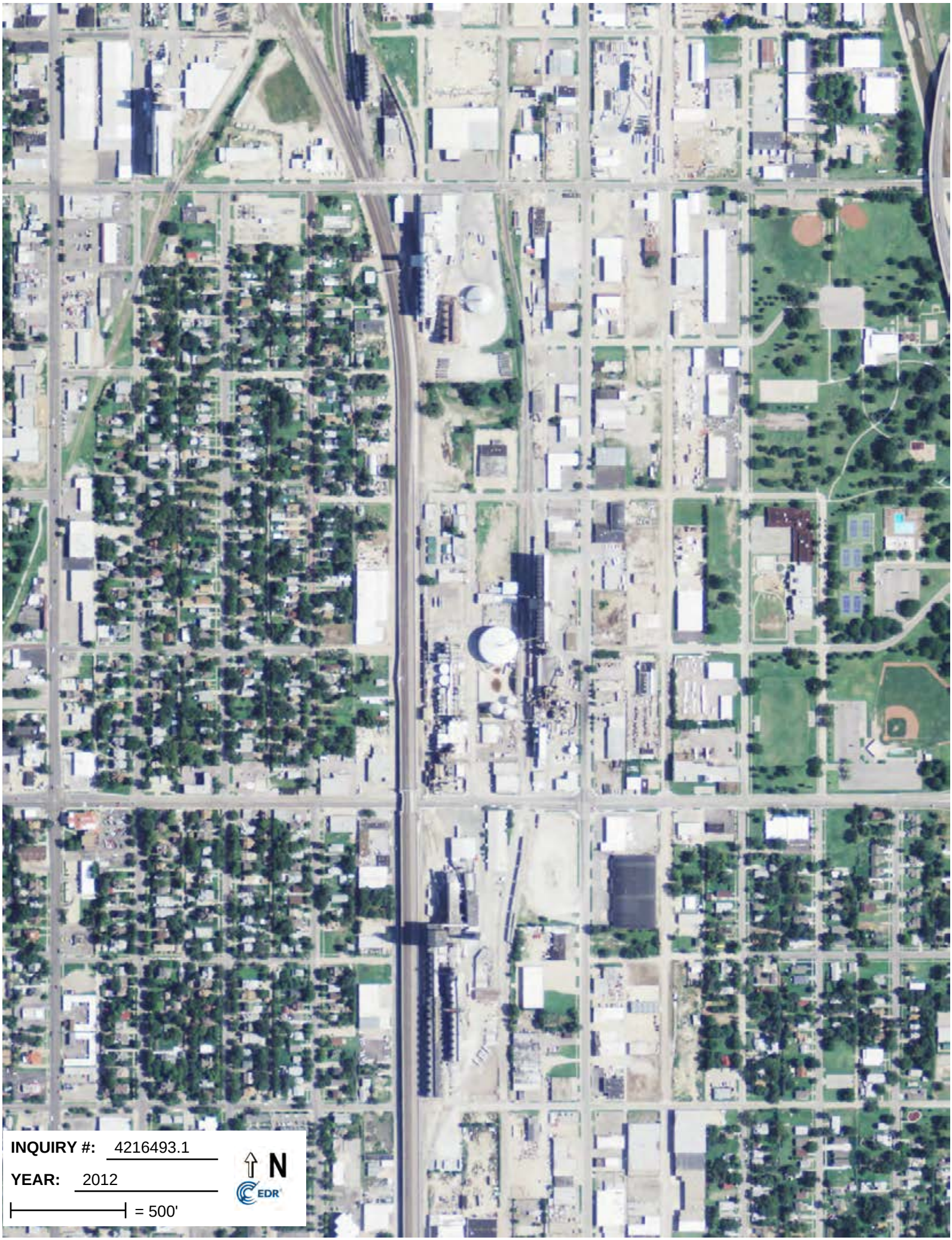
EDR

INQUIRY #: 4216493.1
YEAR: 2010
= 500'
N
EDR


INQUIRY #: 4216493.1
YEAR: 2012
= 500'
N
EDR

Appendix B

Phase 1 Activities Technical Memorandum, February 20, 2004

PHASE 1 ACTIVITIES TECHNICAL MEMORANDUM

Brenntag Southwest Inc.
Wichita, Kansas

Prepared for

BRENNTAG, INC.
Pottsville Pike and Huller Lane
Reading, PA., 19605

Prepared by

THE FORRESTER GROUP
605 North Boonville Avenue
Springfield, Missouri 65806
www.forrestergroup.com
417-864-6444

February 20, 2004
Project Number 14770000

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1 INVESTIGATION METHODOLOGY ____ 1-2
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1.2 APPROACH ____ 1-2
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1.4 GROUNDWATER SAMPLING ____ 1-4
1.5 NEAR-SURFACE SOIL SAMPLING ____ 1-4

2 INVESTIGATION RESULTS ____ 2-1

3 PRELIMINARY CONCEPTUAL MODEL ____ 3-1

4 RECOMMENDATIONS ____ 4-1

APPENDIX A FIGURES
APPENDIX B DEEP BORING LOGS
APPENDIX C TABLES
APPENDIX D LABOARATORY DATA

1 INVESTIGATION METHODOLOGY

1.1 PURPOSE

The purpose of this report is to summarize the Phase 1 field activities that were conducted December 1 through December 5, 2003. These activities were performed in accordance with the October 13, 2003, Revised Comprehensive Investigation / Corrective Action Study ("CI" / "CAS") Work Plan for Brenntag Southwest, Inc., Wichita, Kansas. The purpose of the Phase 1 investigation was to define the extent of affected soil and groundwater at the property and to provide the basis for further investigations. The Revised CI/CAS Work Plan presented a description of the site location, history, geology and hydrogeology that will not be repeated in this report. Figures 1 and 2 in Appendix A show the location of the Brenntag site.

1.2 APPROACH

The Phase 1 investigation consisted of the following activities: (1) soil core sampling, (2) groundwater sampling, and (3) near-surface soil sampling. Direct push technology ("DPT") was performed by PSA Environmental of Lee Summit, MO (Kansas drilling license 606A) using a van-mounted Geoprobe® Model 6600 with a 5-foot core barrel during the first 3 days of drilling and a van-mounted Geoprobe® Model 5400 with a 4-foot core barrel during the fourth and final day of drilling.

Drilling locations were selected based upon previous investigation results and utility locations. The field crew also selected drilling locations based upon traffic flow patterns in order to avoid disruption of daily facility activities as much as possible. In some cases, the actual drilling locations did not correspond to the proposed locations in the Revised CI/CAS Work Plan due to utilities, traffic flow, and/or storage containers that could not be moved. The majority of field locations were discussed with Ms. Christine Jump, the Kansas Department of Health and Environment ("KDHE") Project Manager for this property. Detailed measurements of on-site structures and boring locations were made on the last day of field activities. These measurements were used to generate a scaled map of drilling locations, utilities, and facility structures (Figure 3 in Appendix A).

All work was conducted under the written health and safety plan ("HASP") that was part of the Revised CI/CAS Work Plan. Due to the proximity of some drilling locations to chemical storage areas, the lower explosive limit ("LEL") was monitored and was a field modification to the HASP. A worksite health and safety audit and a field procedures surveillance audit were conducted during field activities at the site. No issues were identified.

Decontamination of sampling and drilling equipment was performed prior to use at each location. Investigation-derived wastes ("IDW") were managed according to the Revised CI/CAS Work Plan. The off-site disposal of soil and waste water IDW is pending.

Soil and groundwater samples were placed in clean, laboratory-approved sample containers (as specified in Table 2-2 of the Revised Field Sampling Plan) and labeled with the boring or well location name, the date and time of sample collection, unique sample number, and analysis to be performed. These samples were stored on ice in coolers and shipped to Severn Trent Laboratory in Earth City, Missouri in ice-filled coolers using an overnight delivery service. Chain-of-custody procedures were followed. Field activities including drilling, sample collection, sample handling, sample shipping, equipment decontamination, and management of investigation derived wastes were performed in accordance with the procedures specified in the Revised Field Sampling Plan (Appendix B of the Revised CI/CAS Work Plan).

1.3 DEEP SOIL CORES

The first DPT activity was to install two soil cores from land surface to the top of shale (bedrock). The purpose of these deep borings was to characterize the geologic media, determine the depth to shale, and to determine the depth of, and any stratification within, the water bearing zone. The first deep boring, DB-1, was installed on the northwest side of the facility. The depth to water in DB-1 was approximately 20 feet below ground surface ("bgs") and the depth to shale was approximately 39 feet bgs. The second boring, DB-2, was installed on the southeast side of the facility. The depth to water in DB-2 was 15 feet bgs and the depth to shale was 39 feet bgs. In both locations, the geologic sequence from the ground surface was silty clay, silty fine sand, fine sand, medium sand, coarse sand and shale. The soil cores were screened with a photoionization detector ("PID") and no elevated readings were noted. The soil boring logs for the deep soil cores are presented in Appendix B. Soil samples were not collected from the deep borings. Both

borings were backfilled with bentonite chips. Cuttings were contained in a labeled 55-gallon drum.

1.4 GROUNDWATER SAMPLING

DPT was used to collect groundwater samples in the upper and lower parts of the water bearing zone at eight locations (see Figure 3 in Appendix A) to evaluate potential stratification of impacted groundwater. Groundwater from the upper part was collected from 14 to 18 feet bgs or from 15 to 19 feet bgs depending upon the location of the boring and the depth to water. Groundwater from the lower part was collected form 35 to 39 feet bgs. Groundwater samples were collected from the DPT screen-point sampler using dedicated tubing with a check ball. The tubing was filled by hand oscillating the tubing after which the tubing was withdrawn from the screen-point sampler and then drained into pre-preserved, new, laboratory supplied sample containers. Once groundwater samples were collected, the paired borings were backfilled with bentonite chips.

1.5 NEAR-SURFACE SOIL SAMPLING

In the southeast and northeast portions of the property, soil cores were collected to better define two areas of apparent near-surface impact. Nine borings were drilled in the northeast portion and fifteen borings were drilled in the southeast portion. Depending upon the type of Geoprobe® rig being used and the observations within the soil core, the total depth of the borings ranged from four feet to twelve feet. Soil types were consistent with those noted in the deep soil borings. Borings were backfilled with bentonite chips. Cuttings were contained in a labeled 55-gallon drum.

Soil samples were collected at each boring location following the methodology presented in the Revised CI/CAS Work Plan. Two samples were collected from the first soil core, typically within the 1.0 to 1.5 feet bgs interval and the 3.0 to 3.5 feet bgs interval. Samples were placed within the Method 5035 field preservation kit immediately after the acetate liner was opened. Soil samples were collected in the same manner from subsequent soil cores below the surface core. Typically one soil sample per core was collected from the subsequent soil cores. Soil borings were typically terminated when sand was encountered. PID samples were collected from each core after the soil samples were collected. Soil samples for laboratory pH analysis were also collected. Field

screening for soil pH was not performed due to field meter malfunction. This deviation from the Revised CI/CAS Work Plan was approved by the on-site KDHE representative.

2 INVESTIGATION RESULTS

Based upon PID readings, field observations, and consultation with on-site KDHE representative, six soil samples from the northeast portion of the property and fifteen soil samples from the southeast portion of the property were selected for volatile organic compounds ("VOCs") analyses. The validated VOC groundwater sample results, validated VOC soil sample results, and validated pH soil sample results and blank-sample results, are presented in Tables 1, 2, 3 and 4, respectively, in Appendix C. Laboratory data sheets with the validator's notes are presented in Appendix D.

Analytical results were compared to the KDHE Tier 2 Risk-Based Summary Table found in Appendix A of the Risk-Based Standards for Kansas (RSK Manual – 3rd Version, March 1, 2003). The "water protection pathway" and "groundwater pathway" for non-residential scenarios were used in the comparison. The following observations are made regarding the data:

- Groundwater results for pH were near neutral. The pH readings in soils ranged from 4 to 8. No highly acidic or basic soils were found.
- Shallow soils in the northeast portion of the Site do not exceed the RSK for the detected VOCs.
- Limited areas of shallow soil impact in the southeast portion of the Site exist above the RSK standards for some VOCs, including tetrachloroethene ("PCE"), trichloroethene ("TCE"), cis-1,2-dichlororethene ("cis-1,2-DCE"), and 1,2-dichloroethane ("1,2-DCA").
- Groundwater appears to be impacted above the RSK for some VOCs. In samples collected from the shallow part of the water-bearing zone, PCE, TCE and cis-1,2-DCE exceed the groundwater pathway RSK standards in some of the sample locations. In samples collected in the deep part of the water-bearing zone, TCE, cis-1,2-DCE, vinyl chloride ("VC"), and 1,2-DCA exceed the groundwater pathway RSK in some of the sample locations.
- VOC concentrations in the deep part of the water-bearing zone are generally higher than the VOC concentrations found in the shallow part of the water-bearing zone in the north and west areas of the Site (i.e., GB-1, GB-2, GB-3, and GB-8). VOC concentrations in the shallow part of the

water-bearing zone are generally higher than the VOC concentrations found in the deeper part of the water-bearing zone in the southeast corner of the Site (i.e., GB-4, GB-5, GB-6, and GB-7).

3 PRELIMINARY CONCEPTUAL MODEL

The relevant geology at the site consists of a sedimentary layer overlying shale bedrock. The shale bedrock represents the lower boundary of the water bearing interval and the water table represents the upper boundary.

Groundwater flow and contaminant transport is primarily controlled by the texture of the sedimentary layer which occurs above the shale bedrock. This layer consists of a fining upward sequence of sediment consisting from bottom to top of coarse sand, medium sand, fine sand, silty fine sand and silty clay. This sequence is typical of alluvial (river-dominated) depositional systems. Groundwater and any dissolved chemical constituents are expected to move more rapidly in the medium and coarse sand deposits in the lower part of the sequence and less rapidly in finer grained saturated deposits.

A second factor influencing dissolved chemical occurrence is the relative location of the groundwater monitoring point (e.g., GeoProbe groundwater sample or monitoring well location) to the chemical source area. In the case where groundwater is impacted by an off-site source (that is, the groundwater monitoring point is relatively distant from the source area), advective flow would favor higher dissolved concentrations to occur in the lower part of the water bearing zone. Shallower groundwater would reflect lower concentrations attributable to vertical diffusion. However, in the case where groundwater is impacted by an on-site source (that is, the groundwater monitoring point is relatively close to the source area), shallow groundwater would be expected to exhibit higher dissolved constituent concentrations than the deeper groundwater.

Both onsite and offsite impacts to groundwater are indicated by the groundwater analytical results. Based upon regional information, groundwater appears to be flowing from the north/northwest to the south/southeast. In the upgradient part of the Site (locations GB-1, GB-2, GB-3, and GB-8) analytical data indicates that deeper groundwater is more highly impacted than shallow groundwater, thus indicating on-to-Site migration of impacted groundwater (primarily containing TCE, Cis-1,2-DCE and VC).

In the downgradient part of the Site (locations GB-4, GB-5, GB-6, and GB-7), VOC concentrations indicate that shallow groundwater is more highly impacted than deeper groundwater, thus indicating an on-site source. Based on soil sampling results, soil in the

southeast portion of the site appears to be the source of the VOCs found in shallow groundwater samples in this area (primarily containing TCE, PCE, and cis-1,2-DCE).

4 RECOMMENDATIONS

Based upon the results of the Phase 1, the following recommendations are made for additional field activities:

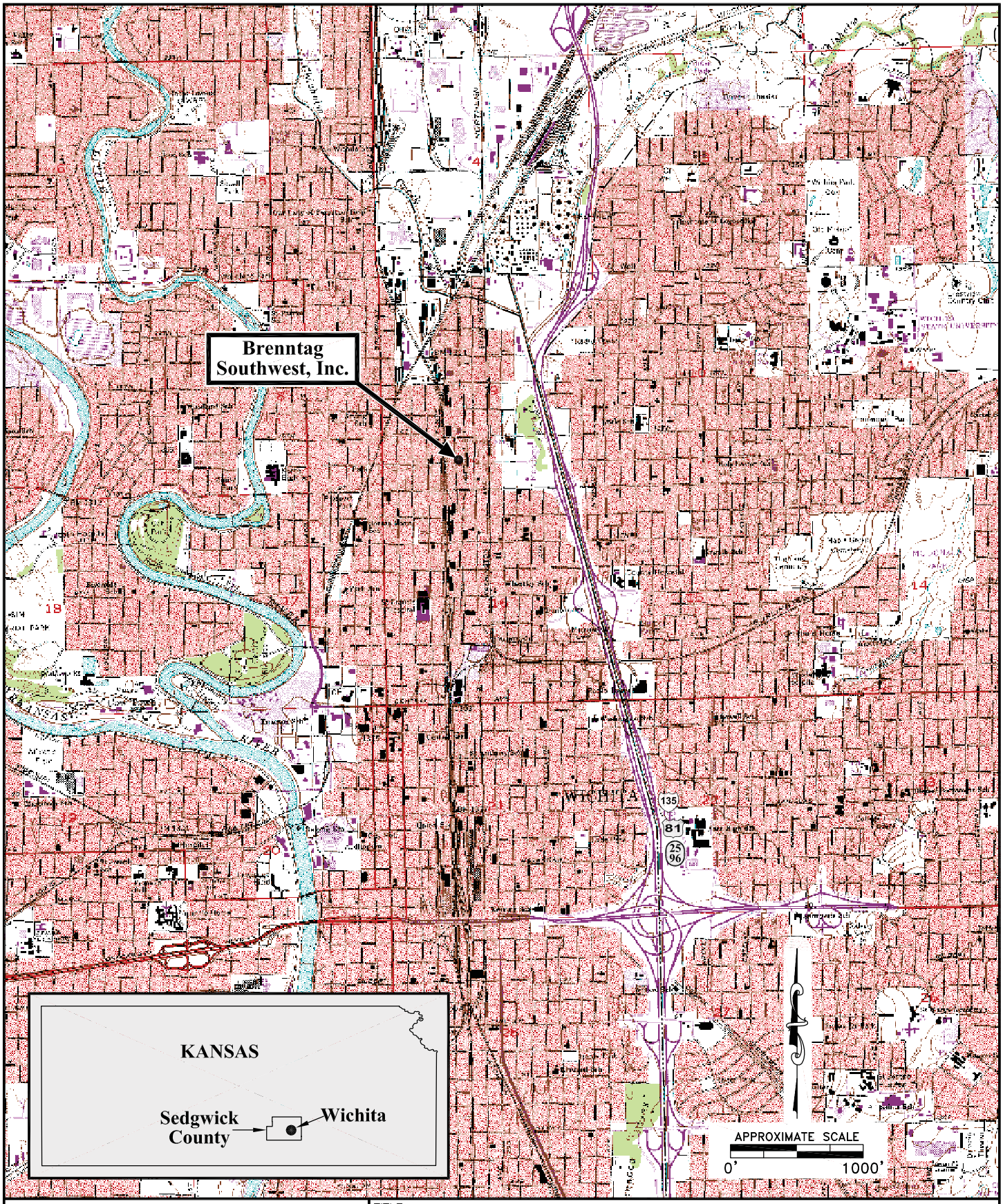
- Install six groundwater monitoring wells (2-inch diameter, PVC construction) on Brenntag property. At each of three locations, one well will be installed approximately 40 feet bgs with 5-feet of screen from approximately 35 to 40 feet; and a second well will be installed to a depth of approximately 25 feet with 10 feet of screen from approximately 15 to 25 feet (assuming the water table is at 20 feet bgs). Otherwise the wells will be constructed as presented in the Revised CI/CAS Work Plan. These wells will be installed to further characterize groundwater chemistry, determine the direction of groundwater flow and evaluate seasonal variations in chemistry and flow. The proposed locations of the wells are shown on Figure 4 in Appendix A.

- The six wells will be monitored on a quarterly basis for VOCs. Additional parameters, such as those for natural attenuation will also be performed on a limited basis.

- Samples and IDW will be collected and managed in accordance with the Revised CI/CAS Work Plan.

The CI Report will incorporate groundwater monitoring well sample results available at the time it is prepared and in the Quarterly Progress Reports.

APPENDIX A
FIGURES



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TITLE:

FIGURE 1
SITE LOCATION MAP
BRENNTAG SOUTHWEST, INC.
WICHITA, KANSAS

1477-02

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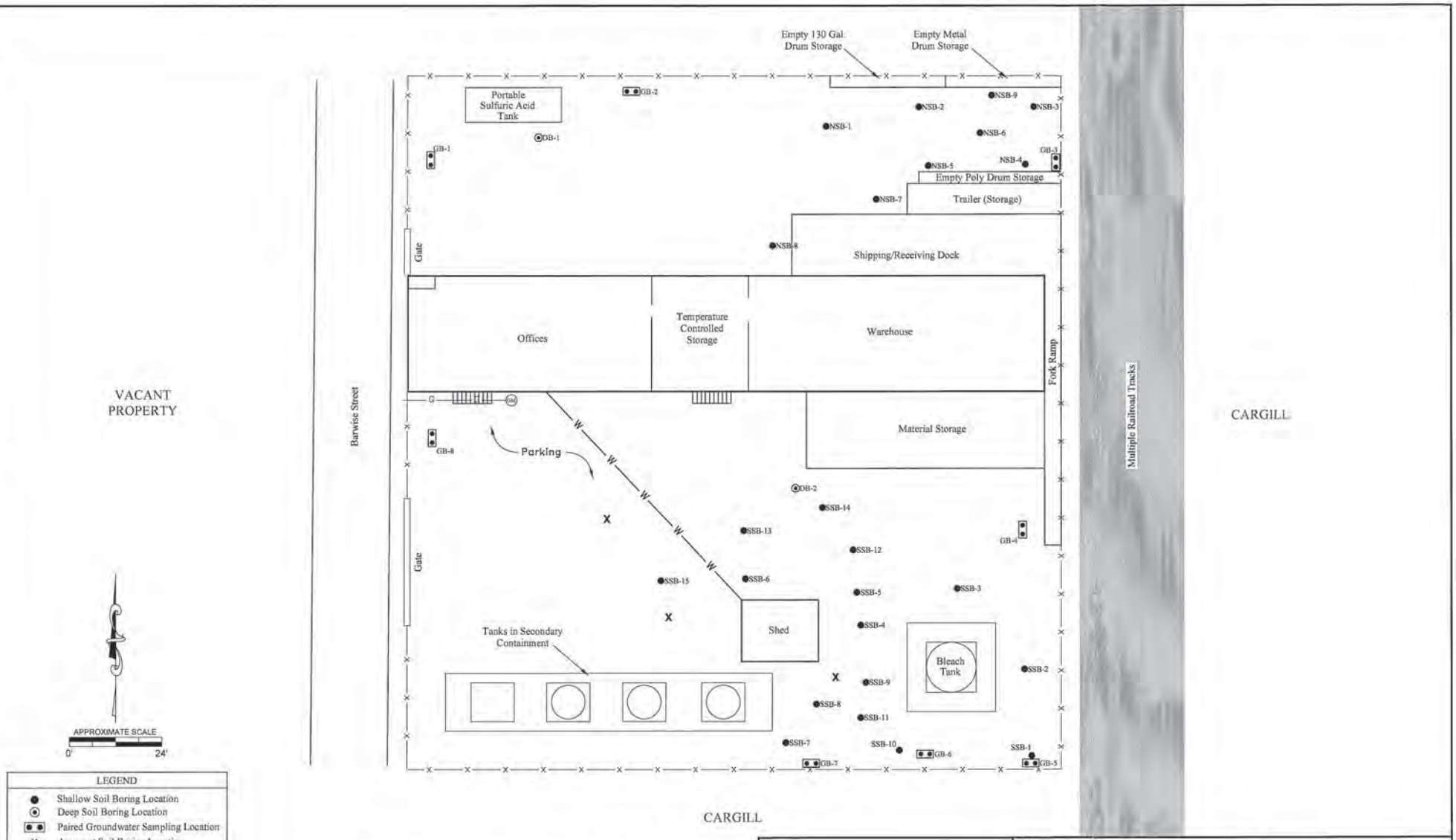
TITLE:

FIGURE 2
SITE AERIAL PHOTOGRAPH
BRENNTAG SOUTHWEST, INC.
WICHITA, KANSAS

1477-00



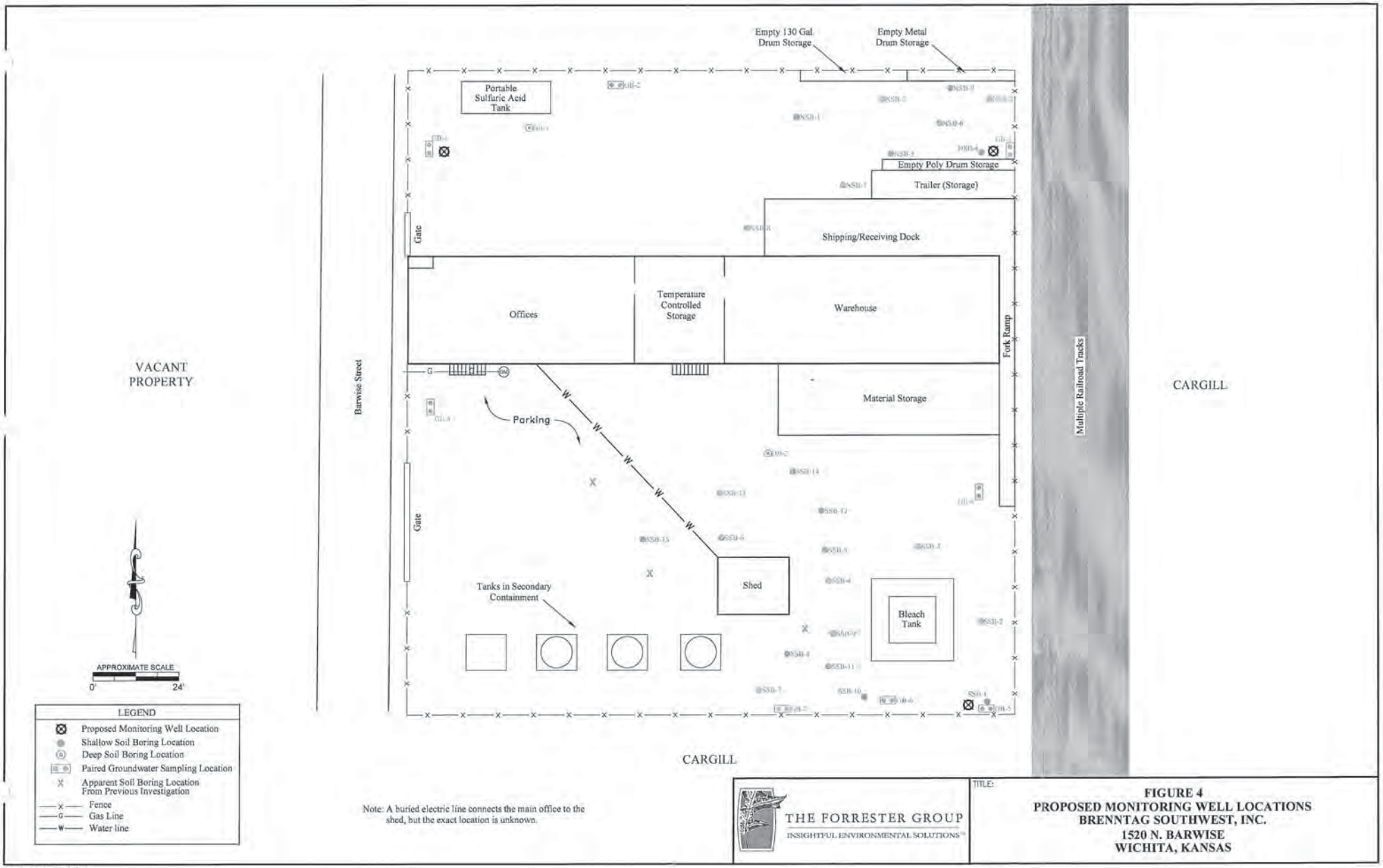
Note: A buried electric line connects the main office to the shed, but the exact location is unknown.

THE FORRESTER GROUP
INSIGHTFUL ENVIRONMENTAL SOLUTIONS™

TITLE:

FIGURE 3
BORING LOCATIONS
BRENNTAG SOUTHWEST, INC.
1520 N. BARWISE
WICHITA, KANSAS

1477-A1.dwg 2453053 71108112



Note: A buried electric line connects the main office to the shed, but the exact location is unknown.

THE FORRESTER GROUP
INSIGHTFUL ENVIRONMENTAL SOLUTIONS™

TITLE:

FIGURE 4
PROPOSED MONITORING WELL LOCATIONS
BRENNTAG SOUTHWEST, INC.
1520 N. BARWISE
WICHITA, KANSAS

1477-A1.dwg 2453053.71208112

APPENDIX B
DEEP BORING LOGS

SOIL BORING LOG

FG Project Name: Brenntag	Boring ID: DB-1 — Page 1 of 1
FG Project Number: 14770000	
Site Address: 1520 N. Barwise, Wichita, KS	Date Installed: December 1, 2003
Subcontractor: PSA Environmental	Start Time: 12:15
Drilling Equipment: Geoprobe 6600	Finish Time: 13:30
Sampling Method: Continuous Core	Total Depth: 40'
Monitoring Device: PID (11.7 eV lamp)	Ground Elevation:
Memo: 0.8ppm background PID	

Depth (feet)	Sampler Interval and Time	%Recovery	Sample ID, Depth, and PID Reading	Soil Description (Texture, Color, Moisture, Consistency, Plasticity, Odor, Other)	Unified Classification	Graphics
				0-0.5': Concrete		
2	0-5 12:20	2.45/5.0	1.5' = 12ppm 5' = 7ppm	0.5-6.0': Silty clay; black (top 1'), dark brown (1.5-6'); firm to soft; slightly plastic; slightly moist; no odor.		
4			7' = 4ppm			
6	5-10 12:30	4.1/5.0		6-11': Silty very fine sand, grades to silty fine sand at 7.5'; tan; loose; soft; moist; no odor.		
8			9' = 3.2ppm			
10			11' = 2ppm			
12	10-15 12:35	3.0/5.0	13.5' = 2ppm	11-39': Sand; tan; loose; moist to wet at 20'; no odor 11-13': fine to medium sand 13-21': medium sand		
14						
16	15-20 12:40	3.8/5.0	17' = 1.5ppm			
18						
20			21' = 1.1ppm	21-39': medium to coarse sand		
22	20-25 12:45	5.0/5.0				
24			24' = 1.0ppm			
26			26' = 3.2ppm			
28	25-30 13:00	5.0/5.0	28-28.5' = 4ppm	28-28.5' & 34-34.5': Clayey silt lens; dark gray; soft; wet; no odor		
30			29.5' = 2ppm			
32	30-35 13:10	5.0/5.0	32' = 3ppm			
34			34.5' = 3ppm			
36	35-40 13:30	5.0/5.0	37' = 2.5ppm			
38			39' = 2.8ppm	39-40': Shale; green (39-39.5') & gray (39.5-40'); hard; no odor. Shale is weathered (39-39.5')		
40				Total depth= 40'. Water at 14'. Boring abandoned with bentonite.		
42						
44						
46						
48						

SOIL BORING LOG

FG Project Name: Brenntag	**Boring ID:** DB-2	Page 1 of 1
FG Project Number: 14770000		
Site Address: 1520 N. Barwise, Wichita, KS	Date Installed: December 1, 2003	
Subcontractor: PSA Environmental	Start Time: 13:50	
Drilling Equipment: Geoprobe 6600	Finish Time: 14:45	
Sampling Method: Continuous Core	Total Depth: 40'	
Monitoring Device: PID (11.7 eV lamp)	Ground Elevation:	
Memo: 1.0ppm background PID		

Depth (feet)	Sampler Interval and Time	%Recovery	Sample ID, Depth, and PID Reading	Soil Description (Texture, Color, Moisture, Consistency, Plasticity, Odor, Other)	Unified Classification	Graphics
				0-0.8': Gravel fill; light gray; loose; dry; no odor.		
2	0-5 13:52	4.0/5.0	2' = 2ppm	0.8-3': Silty clay fill; dark brown; firm; moist; no odor.		
4			3.5' = 2ppm	3-5': Silty clay; brown; firm; plastic; moist; no odor.		
6				5-6.5': Fine sand; tan; loose; soft; slightly moist; no odor.		
8	5-10 13:56	3.8/5.0	7' = 3ppm 9' = 3ppm			
10				6.5-15'; Medium sand; tan; loose; moist; no odor.		
12	10-15 14:00	3.0/5.0	12' = 2.5ppm			
14			14' = 3ppm			
16			16' = 3ppm			
18	15-20 12:20	4.0/5.0	18' = 3.5ppm			
20						
22	20-25 14:10	1.8/5.0	22' = 3ppm			
24						
26				15-39': Medium to coarse sand; tan (15-22'); grayish tan (22-26'); gray (26-39'); wet; no odor.		
28	25-30 14:20	3.5/5.0	26.75' = 3ppm 28.5' = 1.7ppm			
30						
32	30-35 14:30	4.0/5.0	32.5' = 3ppm			
34			34' = 2ppm			
36						
38	35-40 14:45	4.0/5.0	39' = 3.5ppm	39-40': Shale; green (39-39.5') & gray (39.5-40'); firm to hard; no odor. Shale is weathered (39-39.5')		
40				Total depth= 40'. Water level not measurable due to hole collapse. Boring abandoned with bentonite.		
42						
44						
46						
48						

APPENDIX C
TABLES

Table 1
Groundwater Analytical Data Summary (Geoprobe)
December 3-4, 2003
Brenntag, Wichita, KS

			Up-gradient						East		Down-gradient							West	
		Location ID	GBS-1	GBD-1	GBS-2	GBD-2	GBS-3	GBD-3	GBS-4	GBD-4	GBS-5	GBD-5	GBS-6	GBD-6	GBS-7	GBD-7	GBD-7 DUP	GBS-8	GBD-8
		Depth Interval	14- 18	35- 39	14- 18	35- 39	14- 18	35- 39	15- 19	35- 39	15- 19	35- 39	15- 19	35- 39	14- 18	35- 39	35- 39	14- 18	35- 39
Chemical Name	**RSK [1]**	**Unit**																	
1,1,1-Trichloroethane	200	ug/l	< 1 U	0.76 J	< 1 U	1.5 J	2	< 5 U	2.8	< 1 U	2	< 1 U	< 20 U	1.1	< 20 U	1.1	1	< 1 U	0.94 J
1,1,2,2-Tetrachloroethane	1	ug/l	< 1 U	< 1 U	< 1 U	< 2 U	< 1 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 20 U	< 1 U	< 20 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1,2-Trichloroethane	5	ug/l	< 1 U	< 1 U	< 1 U	< 2 U	< 1 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 20 U	< 1 U	< 20 U	< 1 U	< 1 U	< 1 U	< 1 U
1,1-Dichloroethane	1300	ug/l	< 1 U	1	< 1 U	2.5	< 1 U	1.9 J	< 1 U	1.9	27	1.9	44	1.2	26	1.1	1.3	< 1 U	2.7
1,1-Dichloroethene	7	ug/l	< 1 U	0.27 J	< 1 U	2.9	< 1 U	3.4 J	< 1 U	1.2	1.9	2.5	< 20 U	1.1	< 20 U	1.1	1.1	< 1 U	3.3
1,2-Dichloroethane	5	ug/l	< 1 U	0.097 J	< 1 U	0.32 J	< 1 U	0.64 J	0.098 J	0.62 J	1.4	6.8 *	2.9 J	0.13 J	2.7 J	0.093 J	0.13 J	< 1 U	0.19 J
1,2-Dichloroethene (total)		ug/l	0.51 J	20	< 2 U	60	0.36 J	110	0.54 J	97	130	220	200	24	140	22	24	< 2 U	89 J
1,2-Dichloropropane	5	ug/l	< 1 U	< 1 U	< 1 U	< 2 U	< 1 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 20 U	< 1 U	< 20 U	< 1 U	< 1 U	< 1 U	< 1 U
2-Butanone (MEK)	2800	ug/l	< 5 UR	< 5 UR	< 5 UR	< 10 UR	< 5 UR	< 25 UR	< 5 UR	2.2 J	< 5 UR	< 5 UR	< 100 UR	< 5 UR	< 100 UR	< 5 UR	2.7 J	< 5 UR	< 5 UR
2-Hexanone		ug/l	< 5 U	< 5 U	< 5 U	< 10 U	< 5 U	< 25 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U
4-Methyl-2-pentanone (MIBK)	230	ug/l	< 5 U	< 5 U	< 5 U	< 10 U	< 5 U	< 25 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U
Acetone	930	ug/l	2.9 UR	3.6 J	< 2 UR	< 4 UR	1.6 J	< 10 UR	< 2 UR	< 2 UR	< 2 UR	< 2 UR	< 40 UR	2.2 J	< 40 UR	< 2 UR	6.6 J	< 2 UR	1.8 J
Benzene	5	ug/l	0.071 J	0.74 J	0.12 J	1.2 J	0.095 J	0.95 J	0.16 J	0.6 J	0.2 J	0.57 J	< 20 U	0.53 J	< 20 U	0.61 J	0.67 J	0.12 J	1.3
Bromodichloromethane	100	ug/l	< 1 U	< 1 U	< 1 U	< 2 U	< 1 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 20 U	< 1 U	< 20 U	< 1 U	< 1 U	< 1 U	< 1 U
Bromoform	100	ug/l	< 1 U	< 1 U	< 1 U	< 2 U	< 1 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 20 U	< 1 U	< 20 U	< 1 U	< 1 U	< 1 U	< 1 U
Bromomethane (Methyl bromide)	10	ug/l	< 2 UR	0.64 UR	< 2 UR	< 4 UR	< 2 UR	< 10 UR	1.5 J	< 2 UR	1.8 J	< 2 UR	< 40 UR	< 2 UR	< 40 UR	< 2 UR	< 2 UR	< 2 UR	< 2 UR
Carbon disulfide	30	ug/l	< 1 U	1.3	< 1 U	< 2 U	< 1 U	< 5 U	< 1 U	1.3 U	0.72 U	1.7 U	< 20 U	0.58 J	< 20 U	0.66 J	0.64 J	< 1 U	< 1 U
Carbon tetrachloride	5	ug/l	< 1 U	< 1 U	< 1 U	< 2 U	< 1 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 20 U	< 1 U	< 20 U	< 1 U	< 1 U	< 1 U	< 1 U
Chlorobenzene	100	ug/l	< 1 U	< 1 U	< 1 U	< 2 U	< 1 U	< 5 U	< 1 U	< 1 U	0.46 J	< 1 U	< 20 U	< 1 U	< 20 U	< 1 U	< 1 U	< 1 U	< 1 U
Chloroethane		ug/l	< 2 U	< 2 U	< 2 U	< 4 U	< 2 U	< 10 U	< 2 U	< 2 U	< 2 U	< 2 U	< 40 U	< 2 U	< 40 U	< 2 U	< 2 U	< 2 U	< 2 U
Chloroform	100	ug/l	< 1 U	0.2 U	0.18 U	< 2 U	0.19 U	< 5 U	0.34 U	< 1 U	1.3 U	< 1 U	< 20 U	0.21 U	< 20 U	0.24 U	0.25 U	< 1 U	0.088 U
Chloromethane (Methyl chloride)	40	ug/l	0.43 U	0.44 U	0.36 U	< 4 U	< 2 U	1.6 U	< 2 U	< 2 U	0.92 J	< 2 U	< 40 U	< 2 U	< 40 U	< 2 U	< 2 U	0.43 U	0.55 U
cis-1,2-Dichloroethene	70	ug/l	0.51 J	20	0.096 U	58	0.36 U	110 *	0.54 J	93 *	130 *	220 *	200 *	23	140 *	21	24	0.11 U	86 *
cis-1,3-Dichloropropene		ug/l	< 1 U	< 1 U	< 1 U	< 2 U	< 1 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 20 U	< 1 U	< 20 U	< 1 U	< 1 U	< 1 U	< 1 U
Dibromochloromethane	100	ug/l	< 1 U	< 1 U	< 1 U	< 2 U	< 1 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 20 U	< 1 U	< 20 U	< 1 U	< 1 U	< 1 U	< 1 U
Ethylbenzene	700	ug/l	< 1 U	0.19 J	< 1 U	< 2 U	< 1 U	< 5 U	0.3 J	< 1 U	< 1 U	< 1 U	< 20 U	< 1 U	< 20 U	< 1 U	< 1 U	0.16 J	0.2 J
m,p-Xylene		ug/l	0.28 J	0.65 J	0.33 J	< 4 U	< 2 U	< 10 U	< 2 U	< 2 U	< 2 U	< 2 U	< 40 U	< 2 U	< 40 U	< 2 U	< 2 U	0.32 J	0.67 J
Methylene Chloride (Dichloromethane)	5	ug/l	< 1 U	< 1 U	< 1 U	< 2 U	< 1 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 20 U	< 1 U	< 20 U	< 1 U	< 1 U	< 1 U	< 1 U
o-Xylene		ug/l	< 1 U	0.23 J	0.11 J	< 2 U	< 1 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 20 U	< 1 U	< 20 U	< 1 U	< 1 U	0.11 J	0.23 J
Styrene	100	ug/l	< 1 U	< 1 U	< 1 U	< 2 U	< 1 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 20 U	< 1 U	< 20 U	< 1 U	< 1 U	< 1 U	< 1 U
Tetrachloroethene (PCE)	5	ug/l	0.29 J	0.27 J	1.6	< 2 U	6.1 *	1.4 J	23 *	0.78 J	240 *	0.59 J	410 *	0.57 J	590 *	0.75 J	0.9 J	0.24 J	< 1 U
Toluene	1000	ug/l	0.51 J	1.1	0.69 J	0.92 J	0.35 J	< 5 U	0.71 U	0.42 U	0.35 U	0.32 U	< 20 U	0.13 J	< 20 U	0.44 J	0.28 J	0.72 J	1.2
trans-1,2-Dichloroethene	100	ug/l	< 1 U	0.55 J	< 1 U	1.8 J	< 1 U	4 J	< 1 U	3.8	2.3	7.4	< 20 U	0.82 J	< 20 U	0.63 J	0.63 J	< 1 U	2
trans-1,3-Dichloropropene		ug/l	< 1 U	< 1 U	< 1 U	< 2 U	< 1 U	< 5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 20 U	< 1 U	< 20 U	< 1 U	< 1 U	< 1 U	< 1 U
Trichloroethene (TCE)	5	ug/l	4.1	15 *	23 *	52 *	6.2 *	98 *	13 *	170 *	57 *	88 *	30 *	31 *	31 *	22 *	23 *	0.49 J	34 *
Vinyl chloride	2	ug/l	< 2 U	< 2 U	< 2 U	1.7 J	< 2 U	2.7 J *	< 2 U	3.2 *	< 2 U	4.7 *	< 40 U	0.58 J	< 40 U	0.67 J	0.58 J	< 2 U	2.2 *
Xylenes (Total)	10000	ug/l	< 3 U	0.88 J	0.44 J	< 6 U	< 3 U	< 15 U	< 3 U	< 3 U	< 3 U	< 3 U	< 60 U	< 3 U	< 60 U	< 3 U	< 3 U	0.43 J	0.9 J
pH			7.2	7.1	7.1	7	7.1	7	7.4	7.6	7.3	7.2	7.1	7	6.8	7.2	7	7.3	7

1 = RSK non-residential groundwater pathway
* = exceeds RSK screening level

< # U = undetected at given value
J = estimated
R = rejected

Table 2
Soil Analytical Data Summary (VOCs)
December 3-4, 2003
Brenntag, Wichita, KS

			Location ID	NSB-2	NSB-4	NSB-6	NSB-6	NSB-7	NSB-8	SSB-1	SSB-10	SSB-11	SSB-12	SSB-13	SSB-15	SSB-15 DUP	SSB-3	SSB-4	SSB-6	SSB-6	SSB-7	SSB-8	SSB-9	SSB-9
			Depth Interval	3- 3.2	3- 3.2	3- 3.2	6- 6.3	3.4- 3.6	3.4- 3.6	4.3- 4.5	3.4- 3.6	3.4- 3.6	3.4- 3.6	6.2- 6.4	3.6- 3.8	3.6- 3.8	4- 4.2	6- 6.2	1.4- 1.6	6.5- 6.7	3.4- 3.6	3.4- 3.6	1- 1.2	5.8- 6
Chemical Name	**RSK [1]**	**RSK [2]**	**Unit**																					
1,1,1-Trichloroethane	1800000	5500	ug/kg	< 4.8 U	3 J	49	17	3.4 J	< 3.8 U	< 4.4 U	1.7 J	0.64 J	< 4.5 U	< 6.1 U	< 4.7 U	< 4.6 U	0.77 J	0.59 J	< 2400 U	< 990 U	5.9	< 450 U	< 480 U	1.2 J
1,1,2,2-Tetrachloroethane	12000	30	ug/kg	< 4.8 U	< 3.7 U	< 3.3 U	< 5.1 U	< 3.9 U	< 3.8 U	< 4.4 U	< 4.5 U	< 4.2 U	< 4.5 U	< 6.1 U	< 4.7 U	< 4.6 U	< 4.6 U	< 4.2 U	< 2400 U	< 990 U	< 5 U	< 450 U	< 480 U	< 4.7 U
1,1,2-Trichloroethane	20000	70	ug/kg	< 4.8 U	< 3.7 U	< 3.3 U	< 5.1 U	< 3.9 U	< 3.8 U	< 4.4 U	< 4.5 U	< 4.2 U	< 4.5 U	< 6.1 U	< 4.7 U	< 4.6 U	< 4.6 U	< 4.2 U	< 2400 U	< 990 U	< 5 U	< 450 U	< 480 U	< 4.7 U
1,1-Dichloroethane	2100000	13000	ug/kg	< 4.8 U	< 3.7 U	< 3.3 U	< 5.1 U	< 3.9 U	< 3.8 U	1.2 J	3.1 J	33	11	2.8 J	1.7 J	0.86 J	23	21	< 2400 U	< 990 U	1.4 J	< 450 U	< 480 U	44
1,1-Dichloroethene	1400	120	ug/kg	< 4.8 U	< 3.7 U	0.91 J	< 5.1 U	< 3.9 U	< 3.8 U	< 4.4 U	< 4.5 U	3 J	< 4.5 U	< 6.1 U	< 4.7 U	< 4.6 U	0.72 J	< 4.2 U	< 2400 U	< 990 U	< 5 U	< 450 U	< 480 U	1.6 J
1,2-Dichloroethane	7300	40	ug/kg	< 4.8 U	< 3.7 U	2.1 J	2.7 J	< 3.9 U	< 3.8 U	< 4.4 U	< 4.5 U	< 4.2 U	< 4.5 U	< 6.1 U	1 J	1.1 J	< 4.6 U	12	59000 * **	16000 * **	< 5 U	< 450 U	< 480 U	2.3 J
1,2-Dichloroethene (total)			ug/kg	< 9.6 U	< 7.4 U	< 6.5 U	< 10 U	< 7.8 U	< 7.6 U	6.5 J	8 J	130	430 J	28	99	67	74	120	2100 J	< 2000 U	31	1900	940 J	670 J
1,2-Dichloropropane	9300	60	ug/kg	< 4.8 U	< 3.7 U	< 3.3 U	< 5.1 U	< 3.9 U	< 3.8 U	< 4.4 U	< 4.5 U	< 4.2 U	< 4.5 U	< 6.1 U	< 4.7 U	< 4.6 U	< 4.6 U	< 4.2 U	< 2400 U	< 990 U	< 5 U	< 450 U	< 480 U	< 4.7 U
2-Butanone (MEK)	21000000	12000	ug/kg	< 19 U	11 J	< 13 U	< 20 U	< 16 U	< 15 U	< 18 U	< 18 U	< 17 U	< 18 U	< 24 U	< 19 U	< 19 U	< 18 U	< 17 U	< 9700 U	< 3900 U	< 20 U	< 1800 U	< 1900 U	< 19 U
2-Hexanone			ug/kg	< 9.6 U	< 7.4 U	< 6.5 U	< 10 U	< 7.8 U	< 7.6 U	< 8.8 U	< 9.1 U	< 8.4 U	< 9.1 U	< 12 U	< 9.4 U	< 9.3 U	< 9.2 U	< 8.5 U	< 4900 U	< 2000 U	< 10 U	< 900 U	< 970 U	< 9.4 U
4-Methyl-2-pentanone (MIBK)	3600000	1400	ug/kg	< 19 U	< 15 U	< 13 U	< 20 U	< 16 U	< 15 U	< 18 U	< 18 U	< 17 U	< 18 U	< 24 U	< 19 U	< 19 U	< 18 U	< 17 U	< 9700 U	< 3900 U	< 20 U	< 1800 U	< 1900 U	< 19 U
Acetone	6200000	3800	ug/kg	23 B	68 B	13 B	9.9 J B	5.2 J B	23 B	20 B	11 J	8 J	11 J	12 J	39	32	15 J B	11 J B	< 9700 U	< 3900 U	11 J	< 1800 U	< 1900 U	11 J
Benzene	17000	80	ug/kg	< 4.8 U	< 3.7 U	< 3.3 U	< 5.1 U	0.58 J	< 3.8 U	< 4.4 U	< 4.5 U	< 4.2 U	< 4.5 U	0.82 J	< 4.7 U	< 4.6 U	0.58 J	0.8 J	< 2400 U	< 990 U	< 5 U	< 450 U	< 480 U	1 J
Bromodichloromethane	23000	1500	ug/kg	< 4.8 U	< 3.7 U	< 3.3 U	< 5.1 U	< 3.9 U	< 3.8 U	< 4.4 U	< 4.5 U	< 4.2 U	< 4.5 U	< 6.1 U	< 4.7 U	< 4.6 U	< 4.6 U	< 4.2 U	< 2400 U	< 990 U	< 5 U	< 450 U	< 480 U	< 4.7 U
Bromoform	2400000	2100	ug/kg	< 4.8 U	< 3.7 U	< 3.3 U	< 5.1 U	< 3.9 U	< 3.8 U	< 4.4 U	< 4.5 U	< 4.2 U	< 4.5 U	< 6.1 U	< 4.7 U	< 4.6 U	< 4.6 U	< 4.2 U	< 2400 U	< 990 U	< 5 U	< 450 U	< 480 U	< 4.7 U
Bromomethane (Methyl bromide)	15000	90	ug/kg	< 9.6 U	< 7.4 U	< 6.5 U	< 10 U	< 7.8 U	< 7.6 U	< 8.8 U	< 9.1 U	< 8.4 U	< 9.1 U	< 12 U	< 9.4 U	< 9.3 U	< 9.2 U	< 8.5 U	< 4900 U	< 2000 U	< 10 U	< 900 U	< 970 U	< 9.4 U
Carbon disulfide	950000	450	ug/kg	< 4.8 U	< 3.7 U	< 3.3 U	< 5.1 U	< 3.9 U	< 3.8 U	< 4.4 U	< 4.5 U	1.9 J	5.2	< 6.1 U	< 4.7 U	< 4.6 U	< 4.6 U	< 4.2 U	< 2400 U	< 990 U	< 5 U	< 450 U	< 480 U	< 4.7 U
Carbon tetrachloride	7000	200	ug/kg	< 4.8 U	< 3.7 U	< 3.3 U	< 5.1 U	< 3.9 U	< 3.8 U	< 4.4 U	< 4.5 U	< 4.2 U	< 4.5 U	< 6.1 U	< 4.7 U	< 4.6 U	< 4.6 U	< 4.2 U	< 2400 U	< 990 U	< 5 U	< 450 U	< 480 U	< 4.7 U
Chlorobenzene	240000	4800	ug/kg	< 4.8 U	< 3.7 U	< 3.3 U	< 5.1 U	< 3.9 U	< 3.8 U	< 4.4 U	< 4.5 U	< 4.2 U	< 4.5 U	< 6.1 U	< 4.7 U	< 4.6 U	0.67 J	1.3 J	< 2400 U	< 990 U	< 5 U	< 450 U	< 480 U	< 4.7 U
Chloroethane			ug/kg	< 4.8 U	< 3.7 U	< 3.3 U	< 5.1 U	< 3.9 U	< 3.8 U	< 4.4 U	< 4.5 U	< 4.2 U	< 4.5 U	< 6.1 U	< 4.7 U	< 4.6 U	< 4.6 U	< 4.2 U	< 2400 U	< 990 U	< 5 U	< 450 U	< 480 U	< 4.7 U
Chloroform	6000	1200	ug/kg	< 4.8 U	< 3.7 U	0.36 J	< 5.1 U	< 3.9 U	< 3.8 U	0.61 J	7.7	< 4.2 U	0.29 J	< 6.1 U	< 4.7 U	< 4.6 U	12	0.78 J	< 2400 U	< 990 U	< 5 U	< 450 U	< 480 U	0.64 J
Chloromethane (Methyl chloride)	140000	220	ug/kg	< 9.6 U	< 7.4 U	< 6.5 U	< 10 U	< 7.8 U	< 7.6 U	< 8.8 U	< 9.1 U	< 8.4 U	< 9.1 U	< 12 U	< 9.4 U	< 9.3 U	< 9.2 U	< 8.5 U	< 4900 U	< 2000 U	< 10 U	< 900 U	< 970 U	< 9.4 U
cis-1,2-Dichloroethene	180000	800	ug/kg	< 4.8 U	< 3.7 U	< 3.3 U	< 5.1 U	< 3.9 U	< 3.8 U	6.5	8	130	430 J	28	98	67	74	120	2100 J **	< 990 U	30	1900 **	940 **	670
cis-1,3-Dichloropropene			ug/kg	< 4.8 U	< 3.7 U	< 3.3 U	< 5.1 U	< 3.9 U	< 3.8 U	< 4.4 U	< 4.5 U	< 4.2 U	< 4.5 U	< 6.1 U	< 4.7 U	< 4.6 U	< 4.6 U	< 4.2 U	< 2400 U	< 990 U	< 5 U	< 450 U	< 480 U	< 4.7 U
Dibromochloromethane	230000	1700	ug/kg	< 4.8 U	< 3.7 U	< 3.3 U	< 5.1 U	< 3.9 U	< 3.8 U	< 4.4 U	< 4.5 U	< 4.2 U	< 4.5 U	< 6.1 U	< 4.7 U	< 4.6 U	< 4.6 U	< 4.2 U	< 2400 U	< 990 U	< 5 U	< 450 U	< 480 U	< 4.7 U
Ethylbenzene	650000	55000	ug/kg	< 4.8 U	< 3.7 U	< 3.3 U	< 5.1 U	0.41 J	< 3.8 U	< 4.4 U	< 4.5 U	< 4.2 U	< 4.5 U	0.68 J	< 4.7 U	< 4.6 U	< 4.6 U	2.1 J	< 2400 U	< 990 U	< 5 U	460	< 480 U	20
m,p-Xylene			ug/kg	< 4.8 U	< 3.7 U	< 3.3 U	< 5.1 U	< 3.9 U	< 3.8 U	< 4.4 U	< 4.5 U	< 4.2 U	< 4.5 U	0.84 J	< 4.7 U	< 4.6 U	< 4.6 U	1.1 J	< 2400 U	< 990 U	< 5 U	1500	< 480 U	69
Methylene Chloride (Dichloromethane)	230000	30	ug/kg	< 4.8 U	< 3.7 U	< 3.3 U	< 5.1 U	< 3.9 U	< 3.8 U	< 4.4 U	< 4.5 U	< 4.2 U	< 4.5 U	< 6.1 U	< 4.7 U	< 4.6 U	< 4.6 U	< 4.2 U	< 2400 U	< 990 U	< 5 U	< 450 U	< 480 U	< 4.7 U
o-Xylene			ug/kg	< 4.8 U	< 3.7 U	< 3.3 U	< 5.1 U	< 3.9 U	< 3.8 U	< 4.4 U	< 4.5 U	< 4.2 U	< 4.5 U	< 6.1 U	< 4.7 U	< 4.6 U	< 4.6 U	0.44 J	< 2400 U	< 990 U	< 5 U	670	< 480 U	27
Styrene	2400000	16000	ug/kg	< 4.8 U	< 3.7 U	< 3.3 U	< 5.1 U	< 3.9 U	< 3.8 U	< 4.4 U	< 4.5 U	< 4.2 U	< 4.5 U	< 6.1 U	< 4.7 U	< 4.6 U	< 4.6 U	< 4.2 U	< 2400 U	< 990 U	< 5 U	< 450 U	< 480 U	< 4.7 U
Tetrachloroethene (PCE)	140000	180	ug/kg	7.9	150	93	84	51	3 J	14	16	33	440 J **	980 **	710 **	330 J **	180	580 **	950 J **	2300 **	36	< 450 U	< 480 U	670 **
Toluene	1000000	40000	ug/kg	< 4.8 U	< 3.7 U	< 3.3 U	< 5.1 U	1.2 J	< 3.8 U	< 4.4 U	0.62 J	< 4.2 U	< 4.5 U	2 J	< 4.7 U	< 4.6 U	0.79 J	3.6 J	< 2400 U	340 J	< 5 U	170 J	180 J	2.3 J
trans-1,2-Dichloroethene	290000	1500	ug/kg	< 4.8 U	< 3.7 U	< 3.3 U	< 5.1 U	< 3.9 U	< 3.8 U	< 4.4 U	< 4.5 U	< 4.2 U	0.53 J	< 6.1 U	0.7 J	< 4.6 U	< 4.6 U	0.57 J	< 2400 U	< 990 U	0.45 J	< 450 U	< 480 U	1.3 J
trans-1,3-Dichloropropene			ug/kg	< 4.8 U	< 3.7 U	< 3.3 U	< 5.1 U	< 3.9 U	< 3.8 U	< 4.4 U	< 4.5 U	< 4.2 U	< 4.5 U	< 6.1 U	< 4.7 U	< 4.6 U	< 4.6 U	< 4.2 U	< 2400 U	< 990 U	< 5 U	< 450 U	< 480 U	< 4.7 U
Trichloroethene (TCE)	98000	200	ug/kg	< 4.8 U	3.2 J	43	59	1.2 J	< 3.8 U	13	38	16	14	13	11	5.9	48	11	< 2400 U	< 990 U	410 **	< 450 U	< 480 U	13
Vinyl chloride	540	20	ug/kg	< 4.8 U	< 3.7 U	< 3.3 U	< 5.1 U	< 3.9 U	< 3.8 U	< 4.4 U	< 4.5 U	< 4.2 U	< 4.5 U	< 6.1 U	< 4.7 U	< 4.6 U	< 4.6 U	< 4.2 U	< 2400 U	< 990 U	< 5 U	< 450 U	< 480 U	< 4.7 U
Xylenes (Total)	700000	700000	ug/kg	< 9.6 U	< 7.4 U	< 6.5 U	< 10 U	< 7.8 U	< 7.6 U	< 8.8 U	< 9.1 U	< 8.4 U	< 9.1 U	< 12 U	< 9.4 U	< 9.3 U	< 9.2 U	1.5 J	< 4900 U	< 2000 U	< 10 U	2200	< 970 U	96

1 = RSK non-residential soil pathway
2 = RSK non-residential soil to groundwater pathway
* = exceeds RSK screening level

< # U = undetected at given value
J = estimated between RL and MDL
B = detected in method blank

Table 3
Soil Analytical Data Summary (pH)
December 3-4, 2003
Brenntag, Wichita, KS

	Chemical Name	pH
	Unit	pH units
Sample ID	Depth Interval	
NSB-2P	2- 2.2	4.5
NSB-4P	2- 2.2	4.6
NSB-6P	2- 2.2	7.6
NSB-7P	2- 2.2	6.7
NSB-8P	2- 2.2	6.7
SSB-10P	2- 2.2	8
SSB-11P	2- 2.2	8.2
SSB-12P	2- 2.2	7.9
SSB-13P	2- 2.2	7.4
SSB-14P	2- 2.2	7.6
SSB-15P	2- 2.2	7.3
SSB-1P	2.7- 2.9	8.5
SSB-2P	1.9- 2.1	7.7
SSB-3P	2- 2.2	8.4
SSB-4P	2.5- 2.7	8.2
SSB-6P	2- 2.2	7
SSB-7P	2- 2.2	7.6
SSB-8P	2- 2.2	7
SSB-9P	2- 2.2	7.5

Table 4
Equipment Blank and Trip Blank Analytical Data Summary
December 3-4, 2003
Brenntag, Wichita, KS

	Sample Type Code	EB	TB	TB	TB
	Sample ID	EB-1-031203	TB-1-031201	TB-1-031202	TB-1-031203
Chemical Name	**Unit**				
1,1,1-Trichloroethane	ug/l	< 1 U	< 1 U	< 1 U	< 1 U
1,1,2,2-Tetrachloroethane	ug/l	< 1 U	< 1 U	< 1 U	< 1 U
1,1,2-Trichloroethane	ug/l	< 1 U	< 1 U	< 1 U	< 1 U
1,1-Dichloroethane	ug/l	< 1 U	< 1 U	< 1 U	< 1 U
1,1-Dichloroethene	ug/l	< 1 U	< 1 U	< 1 U	< 1 U
1,2-Dichloroethane	ug/l	< 1 U	< 1 U	< 1 U	< 1 U
1,2-Dichloroethene (total)	ug/l	< 2 U	< 2 U	< 2 U	< 2 U
1,2-Dichloropropane	ug/l	< 1 U	< 1 U	< 1 U	< 1 U
2-Butanone (MEK)	ug/l	< 5 UR	< 5 UR	< 5 UR	< 5 UR
2-Hexanone	ug/l	< 5 U	< 5 U	< 5 U	< 5 U
4-Methyl-2-pentanone (MIBK)	ug/l	< 5 U	< 5 U	< 5 U	< 5 U
Acetone	ug/l	6.4 UR	2.3 J	< 2 UR	1.9 J
Benzene	ug/l	< 1 U	< 1 U	< 1 U	< 1 U
Bromodichloromethane	ug/l	< 1 U	< 1 U	< 1 U	< 1 U
Bromoform	ug/l	< 1 U	< 1 U	< 1 U	< 1 U
Bromomethane (Methyl bromide)	ug/l	< 2 UR	0.76 UR	< 2 UR	< 2 UR
Carbon disulfide	ug/l	0.87 J	< 1 U	< 1 U	< 1 U
Carbon tetrachloride	ug/l	< 1 U	< 1 U	< 1 U	< 1 U
Chlorobenzene	ug/l	< 1 U	< 1 U	< 1 U	< 1 U
Chloroethane	ug/l	< 2 U	< 2 U	< 2 U	< 2 U
Chloroform	ug/l	0.33 U	1.3	1.5	1.4
Chloromethane (Methyl chloride)	ug/l	< 2 U	0.45 U	0.33 U	< 2 U
cis-1,2-Dichloroethene	ug/l	< 1 U	< 1 U	0.073 J	< 1 U
cis-1,3-Dichloropropene	ug/l	< 1 U	< 1 U	< 1 U	< 1 U
Dibromochloromethane	ug/l	< 1 U	< 1 U	< 1 U	< 1 U
Ethylbenzene	ug/l	< 1 U	< 1 U	< 1 U	< 1 U
m,p-Xylene	ug/l	< 2 U	< 2 U	< 2 U	< 2 U
Methylene Chloride (Dichloromethane)	ug/l	< 1 U	< 1 U	< 1 U	< 1 U
o-Xylene	ug/l	< 1 U	< 1 U	< 1 U	< 1 U
Styrene	ug/l	< 1 U	< 1 U	< 1 U	< 1 U
Tetrachloroethene (PCE)	ug/l	< 1 U	< 1 U	< 1 U	< 1 U
Toluene	ug/l	0.37 J	< 1 U	< 1 U	< 1 U
trans-1,2-Dichloroethene	ug/l	< 1 U	< 1 U	< 1 U	< 1 U
trans-1,3-Dichloropropene	ug/l	< 1 U	< 1 U	< 1 U	< 1 U
Trichloroethene (TCE)	ug/l	< 1 U	< 1 U	< 1 U	< 1 U
Vinyl chloride	ug/l	< 2 U	< 2 U	< 2 U	< 2 U
Xylenes (Total)	ug/l	< 3 U	< 3 U	< 3 U	< 3 U

< # U = undetected at given value
J = estimated
R = rejected

APPENDIX D
LABORATORY DATA – ON ENCLOSED CD ROM

SEVERN TRENT STL

STL St. Louis
13715 Rider Trail North
Earth City, MO 63045

Tel: 314 298 8566 Fax: 314 298 8757
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 14770000

Brenntag
SDG #: GBD-1

Kim Adams

The Forrester Group
605 North Boonville Avenue
Springfield, MO 65806

SEVERN TRENT LABORATORIES, INC.

Chet Scheibel
Project Manager

December 19, 2003

Case Narrative
SDG NUMBER: **GBD-1**
LOT NUMBER: F3L020297
LOT NUMBER: F3L030153

This report contains the analytical results for the 30 samples received under chain of custody by STL St. Louis between December 2, 2003 and December 3, 2003. These samples are associated with your Brenntag project.

All applicable quality control procedures met method-specified acceptance criteria except as described below.

This report is incomplete without the case narrative.

Observations/Nonconformances

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

Volatiles by SW846 8260B

1. The CCV %D for Acrolein and Acrylonitrile is outside the established QC limits. This analyte is not part of the analysis request and thus this excursion does not effect the data. Sample results are reported.

Affected Samples: Batch 3347184
F3L020297 (1): GBD-1
F3L020297 (2): GBS-1
F3L020297 (3): TB-1-031201
F3L030153 (1): GBD-8
F3L030153 (2): GBS-8
F3L030153 (3): GBD-2
F3L030153 (4): GBS-2
F3L030153 (5): GBD-3
F3L030153 (6): GBS-3
F3L030153 (7): GBD-6
F3L030153 (8): GBS-6
F3L030153 (9): GBD-7
F3L030153 (11): TB-1-031202

2. These samples were analyzed at a dilution based upon laboratory screening information. The reporting limit has been adjusted for the dilution.

Affected Samples:
F3L030153 (2): GBS-8
F3L030153 (3): GBD-2
F3L030153 (4): GBS-2
F3L030153 (5): GBD-3
F3L030153 (6): GBS-3
F3L030153 (7): GBD-6
F3L030153 (8): GBS-6
F3L030153 (12): GBS-7

3. The CCV %D for Acrolein, Acrylonitrile, 2-Chloroethyl vinyl ether and Cyclohexanone is outside the established upper QC limits. These analytes are not part of the analysis request and thus this excursion does not effect the data. Sample results are reported.

4. The MS/MSD recovery for 1,2-Dichloroethane is outside the established QC limits. The RPD is within method acceptance criteria indicating a possible matrix interference. Method performance is demonstrated by acceptable LCS recovery.

5. The MS/MSD RPD is not within method acceptance criteria for Bromomethane. MS/MSD recoveries are within QC limits demonstrating good extraction performance in the sample matrix.

Affected Samples: Batch 3349183
F3L030153 (10): DUP-1-031202
F3L030153 (12): GBS-7

METHODS SUMMARY

GBD-1

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
pH Aqueous	SW846 9040	SW846 9040
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

GBD-1 : F3L020297

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
F5VQX	001	GBD-1	12/01/03	16:00
F5VQ2	002	GBS-1	12/01/03	16:35
F5VQ4	003	TB-1-031201	12/01/03	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

(Continued on next page)

SAMPLE SUMMARY

GBD-1 : F3L030153

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
F5WX2	001	GBD-8	12/02/03	08:55
F5W0G	002	GBS-8	12/02/03	09:35
F5W0J	003	GBD-2	12/02/03	10:20
F5W0L	004	GBS-2	12/02/03	10:55
F5W0M	005	GBD-3	12/02/03	11:55
F5W0N	006	GBS-3	12/02/03	12:25
F5W0Q	007	GBD-6	12/02/03	14:00
F5W0V	008	GBS-6	12/02/03	14:30
F5W0W	009	GBD-7	12/02/03	15:20
F5W02	010	DUP-1-031202	12/02/03	15:21
F5W04	011	TB-1-031202	12/02/03	
F5W05	012	GBS-7	12/02/03	15:55

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

THE FORRESTER GROUP

Client Sample ID: GBD-1

GC/MS Volatiles

Lot-Sample #...: F3L020297-001 Work Order #...: F5VQX1AA Matrix.....: WATER
Date Sampled...: 12/01/03 16:00 Date Received..: 12/02/03
Prep Date.....: 12/13/03 Analysis Date..: 12/13/03
Prep Batch #...: 3347184 Analysis Time..: 23:03
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	**20**	**1.0**	**ug/L**
trans-1,2-Dichloroethene	**0.55 J**	**1.0**	**ug/L**
o-Xylene	**0.23 J**	**1.0**	**ug/L**
m-Xylene & p-Xylene	**0.65 J**	**2.0**	**ug/L**
2-Butanone (MEK)	ND	5.0	ug/L
Xylenes (total)	**0.88 J**	**3.0**	**ug/L**
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**15**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**0.74 J**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	**0.27 J**	**1.0**	**ug/L**
Toluene	**1.1**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	**0.19 J**	**1.0**	**ug/L**
Styrene	ND	1.0	ug/L
Chloromethane	**0.44 J,B**	**2.0**	**ug/L**
Bromomethane	**0.64 J,B**	**2.0**	**ug/L**
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**3.6**	**2.0**	**ug/L**
Carbon disulfide	**1.3**	**1.0**	**ug/L**
1,1-Dichloroethene	**0.27 J**	**1.0**	**ug/L**
1,1-Dichloroethane	**1.0**	**1.0**	**ug/L**
1,2-Dichloroethene (total)	**20**	**2.0**	**ug/L**
Chloroform	**0.20 J**	**1.0**	**ug/L**
1,2-Dichloroethane	**0.097 J**	**1.0**	**ug/L**
1,1,1-Trichloroethane	**0.76 J**	**1.0**	**ug/L**
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L

(Continued on next page)

THE FORRESTER GROUP

Client Sample ID: GBD-1

GC/MS Volatiles

Lot-Sample #...: F3L020297-001 Work Order #...: F5VQX1AA Matrix.....: WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	100	(85 - 116)
Dibromofluoromethane	105	(83 - 125)
1,2-Dichloroethane-d4	102	(81 - 122)
4-Bromofluorobenzene	104	(82 - 118)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

THE FORRESTER GROUP

Client Sample ID: GBD-1

General Chemistry

Lot-Sample #...: F3L020297-001 **Work Order #...:** F5VQX **Matrix.....:** WATER
Date Sampled...: 12/01/03 16:00 **Date Received..:** 12/02/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)	**7.1**		**No Units**	**SW846 9040**	**12/02/03**	**3337434**

Dilution Factor: 1 Analysis Time..: 11:00

THE FORRESTER GROUP

Client Sample ID: GBS-1

GC/MS Volatiles

Lot-Sample #...: F3L020297-002 **Work Order #...:** F5VQ21AA **Matrix.....:** WATER
Date Sampled...: 12/01/03 16:35 **Date Received..:** 12/02/03
Prep Date.....: 12/13/03 **Analysis Date..:** 12/13/03
Prep Batch #...: 3347184 **Analysis Time..:** 23:36
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	**0.51 J**	**1.0**	**ug/L**
trans-1,2-Dichloroethene	ND	1.0	ug/L
o-Xylene	ND	1.0	ug/L
m-Xylene & p-Xylene	**0.28 J**	**2.0**	**ug/L**
2-Butanone (MEK)	ND	5.0	ug/L
Xylenes (total)	ND	3.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**4.1**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**0.071 J**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	**0.29 J**	**1.0**	**ug/L**
Toluene	**0.51 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Chloromethane	**0.43 J,B**	**2.0**	**ug/L**
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**2.9**	**2.0**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	**0.51 J**	**2.0**	**ug/L**
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L

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THE FORRESTER GROUP

Client Sample ID: GBS-1

GC/MS Volatiles

Lot-Sample #...: F3L020297-002 Work Order #...: F5VQ21AA Matrix.....: WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	100	(85 - 116)
Dibromofluoromethane	106	(83 - 125)
1,2-Dichloroethane-d4	107	(81 - 122)
4-Bromofluorobenzene	102	(82 - 118)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

THE FORRESTER GROUP

Client Sample ID: GBS-1

General Chemistry

Lot-Sample #...: F3L020297-002 **Work Order #...:** F5VQ2 **Matrix.....:** WATER
Date Sampled...: 12/01/03 16:35 **Date Received..:** 12/02/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)	**7.2**		**No Units**	**SW846 9040**	**12/02/03**	**3337434**

Dilution Factor: 1 Analysis Time...: 00:00

THE FORRESTER GROUP

Client Sample ID: TB-1-031201

GC/MS Volatiles

Lot-Sample #...: F3L020297-003 **Work Order #...:** F5VQ41AA **Matrix.....:** WATER
Date Sampled...: 12/01/03 **Date Received..:** 12/02/03
Prep Date.....: 12/13/03 **Analysis Date..:** 12/13/03
Prep Batch #...: 3347184 **Analysis Time..:** 22:31
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
o-Xylene	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
2-Butanone (MEK)	ND	5.0	ug/L
Xylenes (total)	ND	3.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Chloromethane	**0.45 J,B**	**2.0**	**ug/L**
Bromomethane	**0.76 J,B**	**2.0**	**ug/L**
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**2.3**	**2.0**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	2.0	ug/L
Chloroform	**1.3**	**1.0**	**ug/L**
1,2-Dichloroethane	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L

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THE FORRESTER GROUP

Client Sample ID: TB-1-031201

GC/MS Volatiles

Lot-Sample #...: F3L020297-003 **Work Order #...:** F5VQ41AA **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	105	(85 - 116)
Dibromofluoromethane	95	(83 - 125)
1,2-Dichloroethane-d4	91	(81 - 122)
4-Bromofluorobenzene	106	(82 - 118)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

THE FORRESTER GROUP

Client Sample ID: GBD-8

GC/MS Volatiles

Lot-Sample #...: F3L030153-001 Work Order #...: F5WX21AA Matrix.....: WATER
Date Sampled...: 12/02/03 08:55 Date Received..: 12/03/03
Prep Date.....: 12/13/03 Analysis Date..: 12/14/03
Prep Batch #...: 3347184 Analysis Time..: 00:42
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	**71 E**	**1.0**	**ug/L**
trans-1,2-Dichloroethene	**2.0**	**1.0**	**ug/L**
o-Xylene	**0.23 J**	**1.0**	**ug/L**
m-Xylene & p-Xylene	**0.67 J**	**2.0**	**ug/L**
2-Butanone (MEK)	ND	5.0	ug/L
Xylenes (total)	**0.90 J**	**3.0**	**ug/L**
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**34**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**1.3**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	**1.2**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	**0.20 J**	**1.0**	**ug/L**
Styrene	ND	1.0	ug/L
Chloromethane	**0.55 J,B**	**2.0**	**ug/L**
Bromomethane	ND	2.0	ug/L
Vinyl chloride	**2.2**	**2.0**	**ug/L**
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**1.8 J**	**2.0**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	**3.3**	**1.0**	**ug/L**
1,1-Dichloroethane	**2.7**	**1.0**	**ug/L**
1,2-Dichloroethene (total)	**73 E**	**2.0**	**ug/L**
Chloroform	**0.088 J**	**1.0**	**ug/L**
1,2-Dichloroethane	**0.19 J**	**1.0**	**ug/L**
1,1,1-Trichloroethane	**0.94 J**	**1.0**	**ug/L**
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L

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THE FORRESTER GROUP

Client Sample ID: GBD-8

GC/MS Volatiles

Lot-Sample #...: F3L030153-001 **Work Order #...:** F5WX21AA **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	96	(85 - 116)
Dibromofluoromethane	103	(83 - 125)
1,2-Dichloroethane-d4	98	(81 - 122)
4-Bromofluorobenzene	100	(82 - 118)

NOTE(S):

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

THE FORRESTER GROUP

Client Sample ID: GBD-8

GC/MS Volatiles

Lot-Sample #...: F3L030153-001 **Work Order #...:** F5WX22AA **Matrix.....:** WATER
Date Sampled...: 12/02/03 08:55 **Date Received..:** 12/03/03
Prep Date.....: 12/13/03 **Analysis Date..:** 12/14/03
Prep Batch #...: 3347184 **Analysis Time..:** 02:20
Dilution Factor: 5

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	**86 D**	**5.0**	**ug/L**
trans-1,2-Dichloroethene	**2.1 J**	**5.0**	**ug/L**
o-Xylene	ND	5.0	ug/L
m-Xylene & p-Xylene	ND	10	ug/L
2-Butanone (MEK)	ND	25	ug/L
Xylenes (total)	ND	15	ug/L
1,2-Dichloropropane	ND	5.0	ug/L
cis-1,3-Dichloropropene	ND	5.0	ug/L
Trichloroethene	**38**	**5.0**	**ug/L**
Dibromochloromethane	ND	5.0	ug/L
1,1,2-Trichloroethane	ND	5.0	ug/L
Benzene	**1.4 J**	**5.0**	**ug/L**
trans-1,3-Dichloropropene	ND	5.0	ug/L
Bromoform	ND	5.0	ug/L
4-Methyl-2-pentanone	ND	25	ug/L
2-Hexanone	ND	25	ug/L
Tetrachloroethene	ND	5.0	ug/L
Toluene	**1.2 J**	**5.0**	**ug/L**
Chlorobenzene	ND	5.0	ug/L
Ethylbenzene	ND	5.0	ug/L
Styrene	ND	5.0	ug/L
Chloromethane	**2.4 J,B**	**10**	**ug/L**
Bromomethane	ND	10	ug/L
Vinyl chloride	**2.0 J**	**10**	**ug/L**
Chloroethane	ND	10	ug/L
Methylene chloride	ND	5.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	5.0	ug/L
1,1-Dichloroethene	**3.3 J**	**5.0**	**ug/L**
1,1-Dichloroethane	**2.7 J**	**5.0**	**ug/L**
1,2-Dichloroethene (total)	**89 D**	**10**	**ug/L**
Chloroform	ND	5.0	ug/L
1,2-Dichloroethane	ND	5.0	ug/L
1,1,1-Trichloroethane	**0.89 J**	**5.0**	**ug/L**
Carbon tetrachloride	ND	5.0	ug/L
Bromodichloromethane	ND	5.0	ug/L
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L

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THE FORRESTER GROUP

Client Sample ID: GBD-8

GC/MS Volatiles

Lot-Sample #...: F3L030153-001 **Work Order #...:** F5WX22AA **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	95	(85 - 116)
Dibromofluoromethane	105	(83 - 125)
1,2-Dichloroethane-d4	106	(81 - 122)
4-Bromofluorobenzene	100	(82 - 118)

NOTE(S):

D Result was obtained from the analysis of a dilution.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

THE FORRESTER GROUP

Client Sample ID: GBD-8

General Chemistry

Lot-Sample #...: F3L030153-001 Work Order #...: F5WX2 Matrix.....: WATER
Date Sampled...: 12/02/03 08:55 Date Received..: 12/03/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)	7.0		No Units	SW846 9040	12/03/03	3337436

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: GBS-8

GC/MS Volatiles

Lot-Sample #...: F3L030153-002 **Work Order #...:** F5W0G1AA **Matrix.....:** WATER
Date Sampled...: 12/02/03 09:35 **Date Received..:** 12/03/03
Prep Date.....: 12/13/03 **Analysis Date..:** 12/14/03
Prep Batch #...: 3347184 **Analysis Time..:** 02:52
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	**0.11 J**	**1.0**	**ug/L**
trans-1,2-Dichloroethene	ND	1.0	ug/L
o-Xylene	**0.11 J**	**1.0**	**ug/L**
m-Xylene & p-Xylene	**0.32 J**	**2.0**	**ug/L**
2-Butanone (MEK)	ND	5.0	ug/L
Xylenes (total)	**0.43 J**	**3.0**	**ug/L**
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**0.49 J**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**0.12 J**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	**0.24 J**	**1.0**	**ug/L**
Toluene	**0.72 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	**0.16 J**	**1.0**	**ug/L**
Styrene	ND	1.0	ug/L
Chloromethane	**0.43 J,B**	**2.0**	**ug/L**
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	2.0	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	2.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L

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THE FORRESTER GROUP

Client Sample ID: GBS-8

GC/MS Volatiles

Lot-Sample #...: F3L030153-002 **Work Order #...:** F5W0G1AA **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	97	(85 - 116)
Dibromofluoromethane	105	(83 - 125)
1,2-Dichloroethane-d4	101	(81 - 122)
4-Bromofluorobenzene	103	(82 - 118)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

THE FORRESTER GROUP

Client Sample ID: GBS-8

General Chemistry

Lot-Sample #...: F3L030153-002 **Work Order #...:** F5W0G **Matrix.....:** WATER
Date Sampled...: 12/02/03 09:35 **Date Received..:** 12/03/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)	7.3		No Units	SW846 9040	12/03/03	3337436

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: GBD-2

GC/MS Volatiles

Lot-Sample #...: F3L030153-003 **Work Order #...:** F5W0J1AA **Matrix.....:** WATER
Date Sampled...: 12/02/03 10:20 **Date Received..:** 12/03/03
Prep Date.....: 12/13/03 **Analysis Date..:** 12/14/03
Prep Batch #...: 3347184 **Analysis Time..:** 03:25
Dilution Factor: 2

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	**58**	**2.0**	**ug/L**
trans-1,2-Dichloroethene	**1.8 J**	**2.0**	**ug/L**
o-Xylene	ND	2.0	ug/L
m-Xylene & p-Xylene	ND	4.0	ug/L
2-Butanone (MEK)	ND	10	ug/L
Xylenes (total)	ND	6.0	ug/L
1,2-Dichloropropane	ND	2.0	ug/L
cis-1,3-Dichloropropene	ND	2.0	ug/L
Trichloroethene	**52**	**2.0**	**ug/L**
Dibromochloromethane	ND	2.0	ug/L
1,1,2-Trichloroethane	ND	2.0	ug/L
Benzene	**1.2 J**	**2.0**	**ug/L**
trans-1,3-Dichloropropene	ND	2.0	ug/L
Bromoform	ND	2.0	ug/L
4-Methyl-2-pentanone	ND	10	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	2.0	ug/L
Toluene	**0.92 J**	**2.0**	**ug/L**
Chlorobenzene	ND	2.0	ug/L
Ethylbenzene	ND	2.0	ug/L
Styrene	ND	2.0	ug/L
Chloromethane	ND	4.0	ug/L
Bromomethane	ND	4.0	ug/L
Vinyl chloride	**1.7 J**	**4.0**	**ug/L**
Chloroethane	ND	4.0	ug/L
Methylene chloride	ND	2.0	ug/L
Acetone	ND	4.0	ug/L
Carbon disulfide	ND	2.0	ug/L
1,1-Dichloroethene	**2.9**	**2.0**	**ug/L**
1,1-Dichloroethane	**2.5**	**2.0**	**ug/L**
1,2-Dichloroethene (total)	**60**	**4.0**	**ug/L**
Chloroform	ND	2.0	ug/L
1,2-Dichloroethane	**0.32 J**	**2.0**	**ug/L**
1,1,1-Trichloroethane	**1.5 J**	**2.0**	**ug/L**
Carbon tetrachloride	ND	2.0	ug/L
Bromodichloromethane	ND	2.0	ug/L
1,1,2,2-Tetrachloroethane	ND	2.0	ug/L

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THE FORRESTER GROUP

Client Sample ID: GBD-2

GC/MS Volatiles

Lot-Sample #...: F3L030153-003 **Work Order #...:** F5W0J1AA **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	96	(85 - 116)
Dibromofluoromethane	105	(83 - 125)
1,2-Dichloroethane-d4	104	(81 - 122)
4-Bromofluorobenzene	103	(82 - 118)

NOTE(S):

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: GBD-2

General Chemistry

Lot-Sample #...: F3L030153-003 Work Order #...: F5W0J Matrix.....: WATER
Date Sampled...: 12/02/03 10:20 Date Received..: 12/03/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)	7.0		No Units	SW846 9040	12/03/03	3337436

Dilution Factor: 1 Analysis Time...: 10:00

THE FORRESTER GROUP

Client Sample ID: GBS-2

GC/MS Volatiles

Lot-Sample #...: F3L030153-004 **Work Order #...:** F5W0L1AA **Matrix.....:** WATER
Date Sampled...: 12/02/03 10:55 **Date Received..:** 12/03/03
Prep Date.....: 12/13/03 **Analysis Date..:** 12/14/03
Prep Batch #...: 3347184 **Analysis Time..:** 03:58
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	**0.096 J**	**1.0**	**ug/L**
trans-1,2-Dichloroethene	ND	1.0	ug/L
o-Xylene	**0.11 J**	**1.0**	**ug/L**
m-Xylene & p-Xylene	**0.33 J**	**2.0**	**ug/L**
2-Butanone (MEK)	ND	5.0	ug/L
Xylenes (total)	**0.44 J**	**3.0**	**ug/L**
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**23**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**0.12 J**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	**1.6**	**1.0**	**ug/L**
Toluene	**0.69 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Chloromethane	**0.36 J,B**	**2.0**	**ug/L**
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	2.0	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	2.0	ug/L
Chloroform	**0.18 J**	**1.0**	**ug/L**
1,2-Dichloroethane	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L

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THE FORRESTER GROUP

Client Sample ID: GBS-2

GC/MS Volatiles

Lot-Sample #...: F3L030153-004 **Work Order #...:** F5W0L1AA **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	97	(85 - 116)
Dibromofluoromethane	104	(83 - 125)
1,2-Dichloroethane-d4	101	(81 - 122)
4-Bromofluorobenzene	99	(82 - 118)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

THE FORRESTER GROUP

Client Sample ID: GBS-2

General Chemistry

Lot-Sample #...: F3L030153-004 Work Order #...: F5W0L Matrix.....: WATER
Date Sampled...: 12/02/03 10:55 Date Received..: 12/03/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)	7.1		No Units	SW846 9040	12/03/03	3337436

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: GBD-3

GC/MS Volatiles

Lot-Sample #...: F3L030153-005 **Work Order #...:** F5W0M1AA **Matrix.....:** WATER
Date Sampled...: 12/02/03 11:55 **Date Received..:** 12/03/03
Prep Date.....: 12/13/03 **Analysis Date..:** 12/14/03
Prep Batch #...: 3347184 **Analysis Time..:** 04:30
Dilution Factor: 5

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	**110**	**5.0**	**ug/L**
trans-1,2-Dichloroethene	**4.0 J**	**5.0**	**ug/L**
o-Xylene	ND	5.0	ug/L
m-Xylene & p-Xylene	ND	10	ug/L
2-Butanone (MEK)	ND	25	ug/L
Xylenes (total)	ND	15	ug/L
1,2-Dichloropropane	ND	5.0	ug/L
cis-1,3-Dichloropropene	ND	5.0	ug/L
Trichloroethene	**98**	**5.0**	**ug/L**
Dibromochloromethane	ND	5.0	ug/L
1,1,2-Trichloroethane	ND	5.0	ug/L
Benzene	**0.95 J**	**5.0**	**ug/L**
trans-1,3-Dichloropropene	ND	5.0	ug/L
Bromoform	ND	5.0	ug/L
4-Methyl-2-pentanone	ND	25	ug/L
2-Hexanone	ND	25	ug/L
Tetrachloroethene	**1.4 J**	**5.0**	**ug/L**
Toluene	ND	5.0	ug/L
Chlorobenzene	ND	5.0	ug/L
Ethylbenzene	ND	5.0	ug/L
Styrene	ND	5.0	ug/L
Chloromethane	**1.6 J,B**	**10**	**ug/L**
Bromomethane	ND	10	ug/L
Vinyl chloride	**2.7 J**	**10**	**ug/L**
Chloroethane	ND	10	ug/L
Methylene chloride	ND	5.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	5.0	ug/L
1,1-Dichloroethene	**3.4 J**	**5.0**	**ug/L**
1,1-Dichloroethane	**1.9 J**	**5.0**	**ug/L**
1,2-Dichloroethene (total)	**110**	**10**	**ug/L**
Chloroform	ND	5.0	ug/L
1,2-Dichloroethane	**0.64 J**	**5.0**	**ug/L**
1,1,1-Trichloroethane	ND	5.0	ug/L
Carbon tetrachloride	ND	5.0	ug/L
Bromodichloromethane	ND	5.0	ug/L
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L

(Continued on next page)

THE FORRESTER GROUP

Client Sample ID: GBD-3

GC/MS Volatiles

Lot-Sample #...: F3L030153-005 **Work Order #...:** F5W0M1AA **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	97	(85 - 116)
Dibromofluoromethane	105	(83 - 125)
1,2-Dichloroethane-d4	99	(81 - 122)
4-Bromofluorobenzene	101	(82 - 118)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

THE FORRESTER GROUP

Client Sample ID: GBD-3

General Chemistry

Lot-Sample #...: F3L030153-005 Work Order #...: F5W0M Matrix.....: WATER
Date Sampled...: 12/02/03 11:55 Date Received..: 12/03/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)	7.0		No Units	SW846 9040	12/03/03	3337436

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: GBS-3

GC/MS Volatiles

Lot-Sample #...: F3L030153-006 **Work Order #...:** F5W0N1AA **Matrix.....:** WATER
Date Sampled...: 12/02/03 12:25 **Date Received..:** 12/03/03
Prep Date.....: 12/13/03 **Analysis Date..:** 12/14/03
Prep Batch #...: 3347184 **Analysis Time..:** 05:03
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	**0.36 J**	**1.0**	**ug/L**
trans-1,2-Dichloroethene	ND	1.0	ug/L
o-Xylene	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
2-Butanone (MEK)	ND	5.0	ug/L
Xylenes (total)	ND	3.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**6.2**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**0.095 J**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	**6.1**	**1.0**	**ug/L**
Toluene	**0.35 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**1.6 J**	**2.0**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	**0.36 J**	**2.0**	**ug/L**
Chloroform	**0.19 J**	**1.0**	**ug/L**
1,2-Dichloroethane	ND	1.0	ug/L
1,1,1-Trichloroethane	**2.0**	**1.0**	**ug/L**
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L

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THE FORRESTER GROUP

Client Sample ID: GBS-3

GC/MS Volatiles

Lot-Sample #...: F3L030153-006 **Work Order #...:** F5W0N1AA **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	95	(85 - 116)
Dibromofluoromethane	105	(83 - 125)
1,2-Dichloroethane-d4	100	(81 - 122)
4-Bromofluorobenzene	99	(82 - 118)

NOTE(S):

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: GBS-3

General Chemistry

Lot-Sample #...: F3L030153-006 Work Order #...: F5W0N Matrix.....: WATER
Date Sampled...: 12/02/03 12:25 Date Received..: 12/03/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)	7.1		No Units	SW846 9040	12/03/03	3337436

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: GBD-6

GC/MS Volatiles

Lot-Sample #...: F3L030153-007 **Work Order #...:** F5W0Q1AA **Matrix.....:** WATER
Date Sampled...: 12/02/03 14:00 **Date Received..:** 12/03/03
Prep Date.....: 12/13/03 **Analysis Date..:** 12/14/03
Prep Batch #...: 3347184 **Analysis Time..:** 05:36
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	**23**	**1.0**	**ug/L**
trans-1,2-Dichloroethene	**0.82 J**	**1.0**	**ug/L**
o-Xylene	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
2-Butanone (MEK)	ND	5.0	ug/L
Xylenes (total)	ND	3.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**31**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**0.53 J**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	**0.57 J**	**1.0**	**ug/L**
Toluene	**0.13 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	**0.58 J**	**2.0**	**ug/L**
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**2.2**	**2.0**	**ug/L**
Carbon disulfide	**0.58 J**	**1.0**	**ug/L**
1,1-Dichloroethene	**1.1**	**1.0**	**ug/L**
1,1-Dichloroethane	**1.2**	**1.0**	**ug/L**
1,2-Dichloroethene (total)	**24**	**2.0**	**ug/L**
Chloroform	**0.21 J**	**1.0**	**ug/L**
1,2-Dichloroethane	**0.13 J**	**1.0**	**ug/L**
1,1,1-Trichloroethane	**1.1**	**1.0**	**ug/L**
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L

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THE FORRESTER GROUP

Client Sample ID: GBD-6

GC/MS Volatiles

Lot-Sample #...: F3L030153-007 **Work Order #...:** F5W0Q1AA **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	97	(85 - 116)
Dibromofluoromethane	106	(83 - 125)
1,2-Dichloroethane-d4	102	(81 - 122)
4-Bromofluorobenzene	98	(82 - 118)

NOTE(S):

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: GBD-6

General Chemistry

Lot-Sample #...: F3L030153-007 Work Order #...: F5W0Q Matrix.....: WATER
Date Sampled...: 12/02/03 14:00 Date Received..: 12/03/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)	7.0		No Units	SW846 9040	12/03/03	3337436

Dilution Factor: 1 Analysis Time...: 00:00

THE FORRESTER GROUP

Client Sample ID: GBS-6

GC/MS Volatiles

Lot-Sample #...: F3L030153-008 **Work Order #...:** F5W0V1AA **Matrix.....:** WATER
Date Sampled...: 12/02/03 14:30 **Date Received..:** 12/03/03
Prep Date.....: 12/13/03 **Analysis Date..:** 12/14/03
Prep Batch #...: 3347184 **Analysis Time..:** 06:08
Dilution Factor: 20

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	**200**	**20**	**ug/L**
trans-1,2-Dichloroethene	ND	20	ug/L
o-Xylene	ND	20	ug/L
m-Xylene & p-Xylene	ND	40	ug/L
2-Butanone (MEK)	ND	100	ug/L
Xylenes (total)	ND	60	ug/L
1,2-Dichloropropane	ND	20	ug/L
cis-1,3-Dichloropropene	ND	20	ug/L
Trichloroethene	**30**	**20**	**ug/L**
Dibromochloromethane	ND	20	ug/L
1,1,2-Trichloroethane	ND	20	ug/L
Benzene	ND	20	ug/L
trans-1,3-Dichloropropene	ND	20	ug/L
Bromoform	ND	20	ug/L
4-Methyl-2-pentanone	ND	100	ug/L
2-Hexanone	ND	100	ug/L
Tetrachloroethene	**410**	**20**	**ug/L**
Toluene	ND	20	ug/L
Chlorobenzene	ND	20	ug/L
Ethylbenzene	ND	20	ug/L
Styrene	ND	20	ug/L
Chloromethane	ND	40	ug/L
Bromomethane	ND	40	ug/L
Vinyl chloride	ND	40	ug/L
Chloroethane	ND	40	ug/L
Methylene chloride	ND	20	ug/L
Acetone	ND	40	ug/L
Carbon disulfide	ND	20	ug/L
1,1-Dichloroethene	ND	20	ug/L
1,1-Dichloroethane	**44**	**20**	**ug/L**
1,2-Dichloroethene (total)	**200**	**40**	**ug/L**
Chloroform	ND	20	ug/L
1,2-Dichloroethane	**2.9 J**	**20**	**ug/L**
1,1,1-Trichloroethane	ND	20	ug/L
Carbon tetrachloride	ND	20	ug/L
Bromodichloromethane	ND	20	ug/L
1,1,2,2-Tetrachloroethane	ND	20	ug/L

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THE FORRESTER GROUP

Client Sample ID: GBS-6

GC/MS Volatiles

Lot-Sample #...: F3L030153-008 **Work Order #...:** F5W0V1AA **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	94	(85 - 116)
Dibromofluoromethane	108	(83 - 125)
1,2-Dichloroethane-d4	103	(81 - 122)
4-Bromofluorobenzene	99	(82 - 118)

NOTE(S):

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: GBS-6

General Chemistry

Lot-Sample #...: F3L030153-008 **Work Order #...:** F5W0V **Matrix.....:** WATER
Date Sampled...: 12/02/03 14:30 **Date Received..:** 12/03/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)	7.1		No Units	SW846 9040	12/03/03	3337436

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: GBD-7

GC/MS Volatiles

Lot-Sample #...: F3L030153-009 **Work Order #...:** F5W0W1AA **Matrix.....:** WATER
Date Sampled...: 12/02/03 15:20 **Date Received..:** 12/03/03
Prep Date.....: 12/13/03 **Analysis Date..:** 12/14/03
Prep Batch #...: 3347184 **Analysis Time..:** 07:06
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	**21**	**1.0**	**ug/L**
trans-1,2-Dichloroethene	**0.63 J**	**1.0**	**ug/L**
o-Xylene	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
2-Butanone (MEK)	ND	5.0	ug/L
Xylenes (total)	ND	3.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**22**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**0.61 J**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	**0.75 J**	**1.0**	**ug/L**
Toluene	**0.44 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	**0.67 J**	**2.0**	**ug/L**
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	2.0	ug/L
Carbon disulfide	**0.66 J**	**1.0**	**ug/L**
1,1-Dichloroethene	**1.1**	**1.0**	**ug/L**
1,1-Dichloroethane	**1.1**	**1.0**	**ug/L**
1,2-Dichloroethene (total)	**22**	**2.0**	**ug/L**
Chloroform	**0.24 J**	**1.0**	**ug/L**
1,2-Dichloroethane	**0.093 J**	**1.0**	**ug/L**
1,1,1-Trichloroethane	**1.1**	**1.0**	**ug/L**
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L

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THE FORRESTER GROUP

Client Sample ID: GBD-7

GC/MS Volatiles

Lot-Sample #...: F3L030153-009 **Work Order #...:** F5W0W1AA **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	114	(85 - 116)
Dibromofluoromethane	94	(83 - 125)
1,2-Dichloroethane-d4	82	(81 - 122)
4-Bromofluorobenzene	106	(82 - 118)

NOTE(S):

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: GBD-7

General Chemistry

Lot-Sample #...: F3L030153-009 **Work Order #...:** F5W0W **Matrix.....:** WATER
Date Sampled...: 12/02/03 15:20 **Date Received..:** 12/03/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)	**7.2**		**No Units**	**SW846 9040**	**12/03/03**	**3337436**

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: DUP-1-031202

GC/MS Volatiles

Lot-Sample #...: F3L030153-010 Work Order #...: F5W021AA Matrix.....: WATER
Date Sampled...: 12/02/03 15:21 Date Received..: 12/03/03
Prep Date.....: 12/14/03 Analysis Date..: 12/14/03
Prep Batch #...: 3349183 Analysis Time..: 12:28
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	**24**	**1.0**	**ug/L**
trans-1,2-Dichloroethene	**0.63 J**	**1.0**	**ug/L**
o-Xylene	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
2-Butanone (MEK)	**2.7 J**	**5.0**	**ug/L**
Xylenes (total)	ND	3.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**23**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**0.67 J**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	**0.90 J**	**1.0**	**ug/L**
Toluene	**0.28 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	**0.58 J**	**2.0**	**ug/L**
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**6.6**	**2.0**	**ug/L**
Carbon disulfide	**0.64 J**	**1.0**	**ug/L**
1,1-Dichloroethene	**1.1**	**1.0**	**ug/L**
1,1-Dichloroethane	**1.3**	**1.0**	**ug/L**
1,2-Dichloroethene (total)	**24**	**2.0**	**ug/L**
Chloroform	**0.25 J**	**1.0**	**ug/L**
1,2-Dichloroethane	**0.13 J**	**1.0**	**ug/L**
1,1,1-Trichloroethane	**1.0**	**1.0**	**ug/L**
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L

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THE FORRESTER GROUP

Client Sample ID: DUP-1-031202

GC/MS Volatiles

Lot-Sample #...: F3L030153-010 **Work Order #...:** F5W021AA **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	97	(85 - 116)
Dibromofluoromethane	106	(83 - 125)
1,2-Dichloroethane-d4	103	(81 - 122)
4-Bromofluorobenzene	100	(82 - 118)

NOTE(S):

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: DUP-1-031202

General Chemistry

Lot-Sample #...: F3L030153-010 **Work Order #...:** F5W02 **Matrix.....:** WATER
Date Sampled...: 12/02/03 15:21 **Date Received..:** 12/03/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)	**7.0**		**No Units**	**SW846 9040**	**12/03/03**	**3337436**

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: TB-1-031202

GC/MS Volatiles

Lot-Sample #...: F3L030153-011 **Work Order #...:** F5W041AA **Matrix.....:** WATER
Date Sampled...: 12/02/03 **Date Received..:** 12/03/03
Prep Date.....: 12/13/03 **Analysis Date..:** 12/14/03
Prep Batch #...: 3347184 **Analysis Time..:** 00:09
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	**0.073 J**	**1.0**	**ug/L**
trans-1,2-Dichloroethene	ND	1.0	ug/L
o-Xylene	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
2-Butanone (MEK)	ND	5.0	ug/L
Xylenes (total)	ND	3.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Chloromethane	**0.33 J,B**	**2.0**	**ug/L**
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	2.0	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	2.0	ug/L
Chloroform	**1.5**	**1.0**	**ug/L**
1,2-Dichloroethane	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L

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THE FORRESTER GROUP

Client Sample ID: TB-1-031202

GC/MS Volatiles

Lot-Sample #...: F3L030153-011 **Work Order #...:** F5W041AA **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	100	(85 - 116)
Dibromofluoromethane	110	(83 - 125)
1,2-Dichloroethane-d4	108	(81 - 122)
4-Bromofluorobenzene	107	(82 - 118)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

THE FORRESTER GROUP

Client Sample ID: GBS-7

GC/MS Volatiles

Lot-Sample #...: F3L030153-012 **Work Order #...:** F5W051AA **Matrix.....:** WATER
Date Sampled...: 12/02/03 15:55 **Date Received..:** 12/03/03
Prep Date.....: 12/14/03 **Analysis Date..:** 12/14/03
Prep Batch #...: 3349183 **Analysis Time..:** 11:56
Dilution Factor: 20

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	**140**	**20**	**ug/L**
trans-1,2-Dichloroethene	ND	20	ug/L
o-Xylene	ND	20	ug/L
m-Xylene & p-Xylene	ND	40	ug/L
2-Butanone (MEK)	ND	100	ug/L
Xylenes (total)	ND	60	ug/L
1,2-Dichloropropane	ND	20	ug/L
cis-1,3-Dichloropropene	ND	20	ug/L
Trichloroethene	**31**	**20**	**ug/L**
Dibromochloromethane	ND	20	ug/L
1,1,2-Trichloroethane	ND	20	ug/L
Benzene	ND	20	ug/L
trans-1,3-Dichloropropene	ND	20	ug/L
Bromoform	ND	20	ug/L
4-Methyl-2-pentanone	ND	100	ug/L
2-Hexanone	ND	100	ug/L
Tetrachloroethene	**590**	**20**	**ug/L**
Toluene	ND	20	ug/L
Chlorobenzene	ND	20	ug/L
Ethylbenzene	ND	20	ug/L
Styrene	ND	20	ug/L
Chloromethane	ND	40	ug/L
Bromomethane	ND	40	ug/L
Vinyl chloride	ND	40	ug/L
Chloroethane	ND	40	ug/L
Methylene chloride	ND	20	ug/L
Acetone	ND	40	ug/L
Carbon disulfide	ND	20	ug/L
1,1-Dichloroethene	ND	20	ug/L
1,1-Dichloroethane	**26**	**20**	**ug/L**
1,2-Dichloroethene (total)	**140**	**40**	**ug/L**
Chloroform	ND	20	ug/L
1,2-Dichloroethane	**2.7 J**	**20**	**ug/L**
1,1,1-Trichloroethane	ND	20	ug/L
Carbon tetrachloride	ND	20	ug/L
Bromodichloromethane	ND	20	ug/L
1,1,2,2-Tetrachloroethane	ND	20	ug/L

(Continued on next page)

THE FORRESTER GROUP

Client Sample ID: GBS-7

GC/MS Volatiles

Lot-Sample #...: F3L030153-012 **Work Order #...:** F5W051AA **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	96	(85 - 116)
Dibromofluoromethane	101	(83 - 125)
1,2-Dichloroethane-d4	101	(81 - 122)
4-Bromofluorobenzene	102	(82 - 118)

NOTE(S):

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: GBS-7

General Chemistry

Lot-Sample #...: F3L030153-012 **Work Order #...:** F5W05 **Matrix.....:** WATER
Date Sampled...: 12/02/03 15:55 **Date Received..:** 12/03/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)	**6.8**		**No Units**	**SW846 9040**	**12/03/03**	**3337436**

Dilution Factor: 1 Analysis Time..: 00:00

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: GBD-1 **Work Order #...:** F6NLT1AA **Matrix.....:** WATER
MB Lot-Sample #: F3L130000-184

Prep Date.....: 12/13/03 **Analysis Time..:** 21:46
Analysis Date..: 12/13/03 **Prep Batch #...:** 3347184
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	2.0	ug/L	SW846 8260B
2-Butanone (MEK)	ND	5.0	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Chloromethane	**0.52 J**	**2.0**	**ug/L**	**SW846 8260B**
Bromomethane	**0.74 J**	**2.0**	**ug/L**	**SW846 8260B**
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Acetone	ND	2.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: GBD-1 **Work Order #...:** F6NLT1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	93	(85 - 116)
Dibromofluoromethane	99	(83 - 125)
1,2-Dichloroethane-d4	100	(81 - 122)
4-Bromofluorobenzene	107	(82 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: GBD-1
MB Lot-Sample #: F3L150000-183

Work Order #...: F6NWX1AA

Matrix.....: WATER

Prep Date.....: 12/14/03
Prep Batch #...: 3349183

Analysis Time..: 10:00

Analysis Date..: 12/14/03
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	2.0	ug/L	SW846 8260B
2-Butanone (MEK)	ND	5.0	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Acetone	ND	2.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: GBD-1 **Work Order #...:** F6NWX1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	97	(85 - 116)
Dibromofluoromethane	100	(83 - 125)
1,2-Dichloroethane-d4	101	(81 - 122)
4-Bromofluorobenzene	99	(82 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: GBD-1 Work Order #...: F6NLT1AC Matrix.....: WATER
LCS Lot-Sample#: F3L130000-184
Prep Date.....: 12/13/03 Analysis Date..: 12/13/03
Prep Batch #...: 3347184 Analysis Time..: 20:46
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2-Butanone (MEK)	102	(53 - 137)	SW846 8260B
m-Xylene & p-Xylene	105	(85 - 117)	SW846 8260B
o-Xylene	107	(85 - 117)	SW846 8260B
1,2-Dichloropropane	110	(80 - 118)	SW846 8260B
cis-1,3-Dichloropropene	116	(76 - 119)	SW846 8260B
Trichloroethene	100	(76 - 118)	SW846 8260B
Dibromochloromethane	112	(85 - 124)	SW846 8260B
1,1,2-Trichloroethane	109	(80 - 114)	SW846 8260B
Benzene	102	(85 - 115)	SW846 8260B
trans-1,3-Dichloropropene	124	(83 - 131)	SW846 8260B
Bromoform	99	(73 - 135)	SW846 8260B
4-Methyl-2-pentanone	118	(46 - 147)	SW846 8260B
2-Hexanone	112	(50 - 150)	SW846 8260B
Tetrachloroethene	96	(72 - 118)	SW846 8260B
Toluene	104	(85 - 115)	SW846 8260B
Chlorobenzene	104	(85 - 115)	SW846 8260B
Ethylbenzene	102	(85 - 116)	SW846 8260B
Styrene	110	(85 - 118)	SW846 8260B
Chloromethane	62	(10 - 150)	SW846 8260B
Bromomethane	46	(10 - 150)	SW846 8260B
Vinyl chloride	68	(10 - 150)	SW846 8260B
Chloroethane	72	(46 - 150)	SW846 8260B
Methylene chloride	75	(21 - 135)	SW846 8260B
Acetone	83	(25 - 150)	SW846 8260B
Carbon disulfide	98	(47 - 150)	SW846 8260B
1,1-Dichloroethene	92	(57 - 146)	SW846 8260B
1,1-Dichloroethane	100	(80 - 116)	SW846 8260B
1,2-Dichloroethene (total)	102	(84 - 120)	SW846 8260B
Chloroform	102	(85 - 117)	SW846 8260B
1,2-Dichloroethane	106	(78 - 116)	SW846 8260B
1,1,1-Trichloroethane	101	(82 - 128)	SW846 8260B
Carbon tetrachloride	101	(75 - 137)	SW846 8260B
Bromodichloromethane	107	(85 - 123)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: GBD-1 **Work Order #...:** F6NLT1AC **Matrix.....:** WATER
LCS Lot-Sample#: F3L130000-184

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1,2,2-Tetrachloroethane	**114**	**(74 - 123)**	**SW846 8260B**
1,3-Dichlorobenzene	**105**	**(85 - 115)**	**SW846 8260B**
1,4-Dichlorobenzene	**103**	**(85 - 115)**	**SW846 8260B**
1,2-Dichlorobenzene	**108**	**(85 - 115)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	100	(85 - 115)
Dibromofluoromethane	102	(85 - 121)
1,2-Dichloroethane-d4	100	(83 - 119)
4-Bromofluorobenzene	111	(84 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: GBD-1 Work Order #...: F6NWX1AC Matrix.....: WATER
LCS Lot-Sample#: F3L150000-183
Prep Date.....: 12/14/03 Analysis Date..: 12/14/03
Prep Batch #...: 3349183 Analysis Time..: 11:06
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2-Butanone (MEK)	96	(53 - 137)	SW846 8260B
m-Xylene & p-Xylene	100	(85 - 117)	SW846 8260B
o-Xylene	103	(85 - 117)	SW846 8260B
1,2-Dichloropropane	106	(80 - 118)	SW846 8260B
cis-1,3-Dichloropropene	110	(76 - 119)	SW846 8260B
Trichloroethene	97	(76 - 118)	SW846 8260B
Dibromochloromethane	112	(85 - 124)	SW846 8260B
1,1,2-Trichloroethane	103	(80 - 114)	SW846 8260B
Benzene	97	(85 - 115)	SW846 8260B
trans-1,3-Dichloropropene	116	(83 - 131)	SW846 8260B
Bromoform	106	(73 - 135)	SW846 8260B
4-Methyl-2-pentanone	107	(46 - 147)	SW846 8260B
2-Hexanone	100	(50 - 150)	SW846 8260B
Tetrachloroethene	97	(72 - 118)	SW846 8260B
Toluene	97	(85 - 115)	SW846 8260B
Chlorobenzene	102	(85 - 115)	SW846 8260B
Ethylbenzene	98	(85 - 116)	SW846 8260B
Styrene	106	(85 - 118)	SW846 8260B
Chloromethane	52	(10 - 150)	SW846 8260B
Bromomethane	43	(10 - 150)	SW846 8260B
Vinyl chloride	59	(10 - 150)	SW846 8260B
Chloroethane	67	(46 - 150)	SW846 8260B
Methylene chloride	77	(21 - 135)	SW846 8260B
Acetone	83	(25 - 150)	SW846 8260B
Carbon disulfide	89	(47 - 150)	SW846 8260B
1,1-Dichloroethene	86	(57 - 146)	SW846 8260B
1,1-Dichloroethane	99	(80 - 116)	SW846 8260B
1,2-Dichloroethene (total)	104	(84 - 120)	SW846 8260B
Chloroform	101	(85 - 117)	SW846 8260B
1,2-Dichloroethane	104	(78 - 116)	SW846 8260B
1,1,1-Trichloroethane	96	(82 - 128)	SW846 8260B
Carbon tetrachloride	96	(75 - 137)	SW846 8260B
Bromodichloromethane	106	(85 - 123)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: GBD-1 **Work Order #...:** F6NWX1AC **Matrix.....:** WATER
LCS Lot-Sample#: F3L150000-183

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1,2,2-Tetrachloroethane	**113**	**(74 - 123)**	**SW846 8260B**
1,3-Dichlorobenzene	**105**	**(85 - 115)**	**SW846 8260B**
1,4-Dichlorobenzene	**103**	**(85 - 115)**	**SW846 8260B**
1,2-Dichlorobenzene	**107**	**(85 - 115)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	96	(85 - 115)
Dibromofluoromethane	102	(85 - 121)
1,2-Dichloroethane-d4	98	(83 - 119)
4-Bromofluorobenzene	98	(84 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: GBD-1 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)		Work Order #: F5X4A1AA	LCS Lot-Sample#: F3L030000-434		
	100	(99 - 101)	SW846 9040	12/02/03	3337434
		Dilution Factor: 1	Analysis Time..: 00:00		
pH (liquid)		Work Order #: F5X431AA	LCS Lot-Sample#: F3L030000-436		
	100	(99 - 101)	SW846 9040	12/03/03	3337436
		Dilution Factor: 1	Analysis Time..: 00:00		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: GBD-1 Work Order #...: F5WX21AD-MS Matrix.....: WATER
MS Lot-Sample #: F3L030153-001 F5WX21AE-MSD
Date Sampled...: 12/02/03 08:55 Date Received..: 12/03/03
Prep Date.....: 12/13/03 Analysis Date..: 12/14/03
Prep Batch #...: 3347184 Analysis Time..: 01:14
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2-Butanone (MEK)	110	(45 - 134)			SW846 8260B
	115	(45 - 134)	4.3	(0-20)	SW846 8260B
m-Xylene & p-Xylene	102	(85 - 119)			SW846 8260B
	103	(85 - 119)	1.6	(0-20)	SW846 8260B
o-Xylene	104	(85 - 118)			SW846 8260B
	104	(85 - 118)	0.09	(0-20)	SW846 8260B
1,2-Dichloropropane	107	(76 - 118)			SW846 8260B
	109	(76 - 118)	1.6	(0-20)	SW846 8260B
cis-1,3-Dichloropropene	110	(73 - 118)			SW846 8260B
	111	(73 - 118)	0.81	(0-20)	SW846 8260B
Trichloroethene	88	(58 - 131)			SW846 8260B
	74	(58 - 131)	3.2	(0-20)	SW846 8260B
Dibromochloromethane	112	(84 - 129)			SW846 8260B
	115	(84 - 129)	2.3	(0-20)	SW846 8260B
1,1,2-Trichloroethane	105	(77 - 117)			SW846 8260B
	107	(77 - 117)	1.9	(0-20)	SW846 8260B
Benzene	99	(84 - 115)			SW846 8260B
	99	(84 - 115)	0.08	(0-20)	SW846 8260B
trans-1,3-Dichloropropene	117	(80 - 132)			SW846 8260B
	118	(80 - 132)	1.4	(0-20)	SW846 8260B
Bromoform	106	(74 - 139)			SW846 8260B
	109	(74 - 139)	3.0	(0-20)	SW846 8260B
4-Methyl-2-pentanone	101	(42 - 141)			SW846 8260B
	103	(42 - 141)	1.6	(0-20)	SW846 8260B
2-Hexanone	94	(42 - 145)			SW846 8260B
	97	(42 - 145)	3.2	(0-20)	SW846 8260B
Tetrachloroethene	100	(67 - 123)			SW846 8260B
	100	(67 - 123)	0.29	(0-20)	SW846 8260B
Toluene	97	(81 - 119)			SW846 8260B
	99	(81 - 119)	2.0	(0-20)	SW846 8260B
Chlorobenzene	101	(85 - 115)			SW846 8260B
	105	(85 - 115)	4.0	(0-20)	SW846 8260B
Ethylbenzene	99	(85 - 119)			SW846 8260B
	100	(85 - 119)	1.6	(0-20)	SW846 8260B
Styrene	106	(77 - 126)			SW846 8260B
	108	(77 - 126)	1.5	(0-20)	SW846 8260B
Chloromethane	47	(10 - 150)			SW846 8260B
	49	(10 - 150)	4.2	(0-20)	SW846 8260B
Bromomethane	39	(10 - 150)			SW846 8260B
	42	(10 - 150)	7.7	(0-20)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: GBD-1 Work Order #...: F5WX21AD-MS Matrix.....: WATER
MS Lot-Sample #: F3L030153-001 F5WX21AE-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Vinyl chloride	59	(10 - 150)			SW846 8260B
	58	(10 - 150)	1.1	(0-20)	SW846 8260B
Chloroethane	70	(42 - 150)			SW846 8260B
	72	(42 - 150)	1.8	(0-20)	SW846 8260B
Methylene chloride	75	(14 - 127)			SW846 8260B
	76	(14 - 127)	1.3	(0-20)	SW846 8260B
Acetone	74	(10 - 148)			SW846 8260B
	74	(10 - 148)	0.30	(0-20)	SW846 8260B
Carbon disulfide	101	(46 - 150)			SW846 8260B
	100	(46 - 150)	1.1	(0-20)	SW846 8260B
1,1-Dichloroethene	86	(56 - 149)			SW846 8260B
	83	(56 - 149)	2.6	(0-20)	SW846 8260B
1,1-Dichloroethane	98	(79 - 115)			SW846 8260B
	99	(79 - 115)	0.88	(0-20)	SW846 8260B
1,2-Dichloroethene (total)	89	(82 - 122)			SW846 8260B
	79 a	(82 - 122)	2.2	(0-20)	SW846 8260B
Chloroform	101	(82 - 122)			SW846 8260B
	103	(82 - 122)	1.9	(0-20)	SW846 8260B
1,2-Dichloroethane	102	(76 - 118)			SW846 8260B
	102	(76 - 118)	0.38	(0-20)	SW846 8260B
1,1,1-Trichloroethane	100	(82 - 131)			SW846 8260B
	102	(82 - 131)	1.1	(0-20)	SW846 8260B
Carbon tetrachloride	101	(77 - 140)			SW846 8260B
	103	(77 - 140)	2.2	(0-20)	SW846 8260B
Bromodichloromethane	107	(85 - 127)			SW846 8260B
	108	(85 - 127)	1.3	(0-20)	SW846 8260B
1,1,2,2-Tetrachloroethane	109	(72 - 124)			SW846 8260B
	111	(72 - 124)	1.8	(0-20)	SW846 8260B
1,3-Dichlorobenzene	105	(85 - 116)			SW846 8260B
	107	(85 - 116)	2.1	(0-20)	SW846 8260B
1,4-Dichlorobenzene	103	(85 - 115)			SW846 8260B
	104	(85 - 115)	1.3	(0-20)	SW846 8260B
1,2-Dichlorobenzene	107	(85 - 115)			SW846 8260B
	109	(85 - 115)	1.7	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	98	(85 - 116)
	102	(85 - 116)

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: GBD-1 **Work Order #...:** F5WX21AD-MS **Matrix.....:** WATER
MS Lot-Sample #: F3L030153-001 F5WX21AE-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	104	(83 - 125)
	109	(83 - 125)
1,2-Dichloroethane-d4	100	(81 - 122)
	104	(81 - 122)
4-Bromofluorobenzene	102	(82 - 118)
	106	(82 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F3L020297 **Work Order #...:** F5VQX-SMP F5VQX-DUP **Matrix.....:** WATER

Date Sampled...: 12/01/03 16:00 **Date Received..:** 12/02/03

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)						SD Lot-Sample #:	F3L020297-001	
	7.1	7.1	No Units	0.28	(0-20)	SW846 9040	12/02/03	3337434

Dilution Factor: 1 Analysis Time..: 11:00

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F3L020297 **Work Order #...:** F5W0J-SMP F5W0J-DUP **Matrix.....:** WATER

Date Sampled...: 12/02/03 10:20 **Date Received..:** 12/03/03

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)						SD Lot-Sample #:	F3L030153-003	
	7.0	7.0	No Units	0.14	(0-20)	SW846 9040	12/03/03	3337436

Dilution Factor: 1 Analysis Time..: 10:00

F3L190248

CLIENT ANALYSIS SUMMARY

Storage Loc: **RAD357**

Project Manager: WST Quote #: 38631 SDG:

Project: 276225018 MMR

PO#: 03-32S-75091 Report to: Jim Madison

Client: 200 STL BURLINGTON

#SMPS in LOT: 1

Date Received: 2003-12-19

Analytical Due Date: 2004-01-02

Report Due Date: 2004-01-05

Report Type: C CLP

EDD Code: 03

Please log in the 'EPA Number' on the COC for the client ID. DO NOT log in the OGDEN ID as the client ID.

For the gamma analysis. There is no prep. The sample bottle is to be analyzed with a minimum of disturbing of the sample. ANALYZE THE SAMPLE BOTTLE & DO NOT SHA
KE

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	I
1	10669	2003-12-18 / 1120	F64L8	WATER

SAMPLE COMMENTS:

XX	**Y9**	EPA	900.0 MOD	GROSS A/B BY GFPC EPA 900.0 MOD	**FR**	Evaporative Preparation, Total	**01**	STANDARD TEST SET	PROT: A	**WRK LOC**	06

F3L020297

CLIENT ANALYSIS SUMMARY

Storage Loc: VL3,T189

Project Manager: CDS
Quote #: 56001
SDG: GBD-1
Date Received: 2003-12-02

Project: 14770000
Brenntag
Analytical Due Date: 2003-12-15

PO#:
Report to: Kim Adams
Report Due Date: 2003-12-17

Client: 111552 THE FORRESTER GROUP
#SMPS in LOT: 3
Report Type: D2 xp Deliv - CD & Hardcopy
EDD Code: 99

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	I
1	GBD-1	2003-12-01 / 1600	F5VQX	WATER

SAMPLE COMMENTS:

XX	QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
XX	FJ	SW846 9040	pH (9040) - Aqueous	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	
X XX	FJ	SW846 9040	pH (9040) - Aqueous	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	I
2	GBS-1	2003-12-01 / 1635	F5VQ2	WATER

SAMPLE COMMENTS:

XX	QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
XX	FJ	SW846 9040	pH (9040) - Aqueous	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	I
3	TB-1-031201	2003-12-01 / 0	F5VQ4	WATER

SAMPLE COMMENTS:

XX	QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N

Chain of Custody Record

CWF 7651

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: The Forrester Group	Project Manager: Bob Kick	Date: 12-1-03	Chain of Custody Number: 120688
Address: 605 N. Boonville	Telephone Number (Area Code)/Fax Number: 417-864-6444 / fax 864-6445	Lab Number	Page 1 of 1
City: Springfield; State: MO; Zip Code: 65806	Site Contact	Lab Contact: Chet	
Project Name and Location (State): Brenntag - Wichita KS	Carrier/Waybill Number: Fed Ex / 842593712344		
Contract/Purchase Order/Quote No.: 14770000			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): VOCs by 8260B	pH by SW846 9040B	Special Instructions/ Conditions of Receipt
GBD-1	12-1-03	16:00		X				1			2				X	X	125P, 2x40
GBS-1	12-1-03	16:35		X				1			2				X	X	↓
TB-1_031201	12-1-03			X							2				X		↓

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☒ 14 Days ☐ 21 Days ☒ Other Level IV Report within 21 days

QC Requirements (Specify)

1. Relinquished By: Sandra L. Pettis	Date: 12-1-03	Time: 18:45	1. Received By: Chain-of-custody sealed in cooler which dropped off at Fed Ex	Date: 12-1-03	Time: 18:45
2. Relinquished By	Date	Time	2. Received By: [signature]	Date: 12.2.03	Time: 09:15
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: Level IV Report

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

N

SEVERN TRENT STL

Lot No.: F3L020291

Condition Upon Receipt Form
St. Louis Laboratory

Client: Forrester Group Date: 12.2.03 Time: 0915

Quote No: 56001 Initiated by: BV

Shipper/No: FedEx 842593712344 COC/RFA Numbers: 120688

Condition/Variance (Circle "Y" for yes and "N" for no. If "N" is circled, see notes for explanation):

1.	Y N	Sample received in undamaged condition.	5	Y N	Sample volume sufficient for analysis.
2.	Y N	Sample received within 4°C ± 2°C*	6	Y N	Sample received with Chain of Custody.
		Record temperature: 2°	7	Y N	Chain of Custody matches sample IDs on containers.
3.	Y N N/A	Sample received with proper pH**.	8	Y N	Custody seal received intact and tamper evident on cooler.
4.	Y N	Sample received in proper containers.	9.	Y N	Custody seal received intact and tamper evident on bottles.

*** Temperature Variance Does Not Affect the Following Analyses:** _____

**** For DOE-AL (Pantex, LANL, Sandia, Timet) sites, remember to pH all containers received, except for VOA, TOX, and soils.**

Notes:

Corrective Action:

☐ Client's Name: _____ Informed verbally on: _____ By: _____

☐ Client's Name: _____ Informed in writing on: _____ By: _____

☐ Sample(s) processed "as is": _____

☐ Sample(s) on hold until: _____ If released, notify: _____

Sample Control Supervisor (or designate) Review: [signature] Date: 12.2.03

Project Management Review: [signature] Date: 12-2-03

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE
THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED
IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIALS AND THE DATE NEXT TO THAT ITEM

F3L030153

CLIENT ANALYSIS SUMMARY

Storage Loc: VL3,T189

Project Manager: CDS | Quote #: 56001 | SDG: GBD-1

Date Received: 2003-12-03

Project: 14770000 | Brenntag

Analytical Due Date: 2003-12-16

PO#: | Report to: Kim Adams

Report Due Date: 2003-12-18

Report Type: D2 xp Deliv - CD & Hardcopy

Client: 111552 THE FORRESTER GROUP | #SMPS in LOT: 12 | EDD Code: 99

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	!
1	GBD-8	2003-12-02 / 855	F5WX2	WATER

SAMPLE COMMENTS:

	XX QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
	XX FJ	SW846 9040	pH (9040) - Aqueous	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	
D	XX QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
S	XX QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	!
2	GBS-8	2003-12-02 / 935	F5W0G	WATER

SAMPLE COMMENTS:

	XX QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
	XX FJ	SW846 9040	pH (9040) - Aqueous	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	!
3	GBD-2	2003-12-02 / 1020	F5W0J	WATER

SAMPLE COMMENTS:

	XX QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
	XX FJ	SW846 9040	pH (9040) - Aqueous	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	
X	XX FJ	SW846 9040	pH (9040) - Aqueous	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	!
4	GBS-2	2003-12-02 / 1055	F5W0L	WATER

SAMPLE COMMENTS:

	XX QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
	XX FJ	SW846 9040	pH (9040) - Aqueous	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	!
5	GBD-3	2003-12-02 / 1155	F5W0M	WATER

SAMPLE COMMENTS:

	XX QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
	XX FJ	SW846 9040	pH (9040) - Aqueous	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	!
6	GBS-3	2003-12-02 / 1225	F5W0N	WATER

SAMPLE COMMENTS:

	XX QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
	XX FJ	SW846 9040	pH (9040) - Aqueous	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	!
7	GBD-6	2003-12-02 / 1400	F5W0Q	WATER

SAMPLE COMMENTS:

F3L030153

CLIENT ANALYSIS SUMMARY

Storage Loc: VL3,T189

Date Received: 2003-12-03

Analytical Due Date: 2003-12-16

Report Due Date: 2003-12-18

Report Type: D2 xp Deliv - CD & Hardcopy

EDD Code: 99

Project Manager: CDS

Quote #: 56001

SDG: GBD-1

Project: 14770000

Brenntag

PO#:

Report to: Kim Adams

Client: 111552 THE FORRESTER GROUP

#SMPS in LOT: 12

XX QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
XX FJ	SW846 9040	pH (9040) - Aqueous	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	!
8	GBS-6	2003-12-02 / 1430	F5W0V	WATER

SAMPLE COMMENTS:

XX QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
XX FJ	SW846 9040	pH (9040) - Aqueous	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	!
9	GBD-7	2003-12-02 / 1520	F5W0W	WATER

SAMPLE COMMENTS:

XX QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
XX FJ	SW846 9040	pH (9040) - Aqueous	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	!
10	DUP-1-031202	2003-12-02 / 1521	F5W02	WATER

SAMPLE COMMENTS:

XX QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
XX FJ	SW846 9040	pH (9040) - Aqueous	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	!
11	TB-1-031202	2003-12-02 / 0	F5W04	WATER

SAMPLE COMMENTS:

XX QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	!
12	GBS-7	2003-12-02 / 1555	F5W05	WATER

SAMPLE COMMENTS:

XX QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
XX FJ	SW846 9040	pH (9040) - Aqueous	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

Chain of Custody Record

cert 7745

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
The Forrester Group	Bob Kick	12-2-03	120690
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	Page 1 of 1
605 N. Boonville Avenue	417-864-6444 / 417-864-6445 (fax)		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Springfield MO 65806		Chet	
Project Name and Location (State)	**Carrier/Waybill Number**		
Brenntag - Wichita, KS	Fed Ex / 842593712311		
Contract/Purchase Order/Quote No.			
14770000			

Analysis (Attach list if more space is needed): VOCs by 8260B; pH by SW846 9040B

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	VOCs by 8260B	pH by SW846 9040B			Special Instructions/ Conditions of Receipt
GBD-8	12-2-03	08:55		X			1			6			X	X		6x40, 125P	MS / MSD for VOCs
GBS-8	12-2-03	09:35		X			1			2			X	X		2x40,	
GBD-2	12-2-03	10:20		X			1			2			X	X			
GBS-2	12-2-03	10:55		X			1			2			X	X			
GBD-3	12-2-03	11:55		X			1			2			X	X			
GBS-3	12-2-03	12:25		X			1			2			X	X			
GBD-6	12-2-03	14:00		X			1			2			X	X			
GBS-6	12-2-03	14:30		X			1			2			X	X			
GBD-7	12-2-03	15:20		X			1			2			X	X			
Dup-1_031202	12-2-03	15:21		X			1			2			X	X			
TB-1_031202				X						2			X				
GBS-7	12-2-03	15:55		X			1			2			X	X			

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☒ 14 Days ☐ 21 Days ☒ Other Level IV Report within 21 days

QC Requirements (Specify)

1. Relinquished By	Date	Time	1. Received By	Date	Time
Sandra L. Potter	12-2-03	17:10	Chain-of-custody sealed in cooler when received by Fed-Ex	12-2-03	17:10
2. Relinquished By	**Date**	**Time**	**2. Received By**	**Date**	**Time**
			[signature]	12.3.03	0915
3. Relinquished By	**Date**	**Time**	**3. Received By**	**Date**	**Time**

Comments: Level IV Report. Groundwater sampling not complete; more samples tomorrow

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

SEVERN TRENT STL

Lot No.: F3L030153

Condition Upon Receipt Form
St. Louis Laboratory

Client: The Forrester Group

Date: 12-3-03 Time: 0915

Quote No: 56001

Initiated by: SN

Shipper/No: FedEx 842593712311

COC/RFA Numbers: 120690

Condition/Variance (Circle "Y" for yes and "N" for no. If "N" is circled, see notes for explanation):

1.	Y N	Sample received in undamaged condition.	5.	Y N	Sample volume sufficient for analysis.
2.	Y N	Sample received within 4°C ± 2°C*	6.	Y N	Sample received with Chain of Custody.
		Record temperature: 3°	7.	Y N	Chain of Custody matches sample IDs on containers.
3.	Y N N/A	Sample received with proper pH**.	8.	Y N	Custody seal received intact and tamper evident on cooler.
4.	Y N	Sample received in proper containers.	9.	Y N	Custody seal received intact and tamper evident on bottles.

* Temperature Variance Does Not Affect the Following Analyses: _____

** For DOE-AL (Pantex, LANL, Sandia, Timet) sites, remember to pH all containers received, except for VOA, TOX, and soils.

Notes:

Corrective Action:

- ☐ Client's Name: _____ Informed verbally on: _____ By: _____
- ☐ Client's Name: _____ Informed in writing on: _____ By: _____
- ☐ Sample(s) processed "as is".
- ☐ Sample(s) on hold until: _____ If released, notify: _____

Sample Control Supervisor (or designate) Review: [signature] Date: 12-3-03

Project Management Review: CD Schulel Date: 12-4-03

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE
THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED
IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIALS AND THE DATE NEXT TO THAT ITEM

SEVERN TRENT STL

STL St. Louis
13715 Rider Trail North
Earth City, MO 63045

Tel: 314 298 8566 Fax: 314 298 8757
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 14770000

Brenntag

Lot #: F3L040331

Kim Adams

The Forrester Group
605 North Boonville Avenue
Springfield, MO 65806

SEVERN TRENT LABORATORIES, INC.

Chet Scheibel
Project Manager

December 23, 2003

Case Narrative
LOT NUMBER: **F3L040331**

This report contains the analytical results for the 24 samples received under chain of custody by STL St. Louis on December 4, 2003. These samples are associated with your Brenntag project.

All applicable quality control procedures met method-specified acceptance criteria except as described below.

This report is incomplete without the case narrative. All chemical analysis results are based upon dry sample weight, unless noted otherwise.

Samples SSB-1B, SSB-3B, and SSB-4C were added to VOC analysis list per an e-mail memo from client representative on 12/05/03.

Observations/Nonconformances

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

Volatiles by SW846 8260B

The LCS/LCSD RPD is not within method acceptance criteria. LCS/LCSD recoveries are within QC limits demonstrating good extraction performance in the sample matrix.

There was insufficient sample volume to perform MS/MSD analysis. A LCS/LCSD were performed to demonstrate accuracy and replicate precision.

Affected Samples:
F3L040331 (12): SSB-4C

The surrogate recovery for DBFM is outside the established QC limits. There is insufficient amount of sample to rerun the analytical clock since the first batch of encore samples were spiked incorrectly. The lab will report the data with this comment.

There was insufficient sample volume to perform MS/MSD analysis. A LCS/LCSD were performed to demonstrate accuracy and replicate precision.

Affected Samples:
F3L040331 (2): SSB-1B
F3L040331 (8): SSB-3B
F3L040331 (12): SSB-4C
F3L040331 (20): NSB-2
F3L040331 (22): NSB-4
F3L040331 (24): NSB-6A
F3L040331 (25): NSB-6B
F3L040331 (27): NSB-7
F3L040331 (29): NSB-8

Sample surrogate recovery is outside established QC limits. There was insufficient sample to perform repreparation/reanalysis. The results are provided with this narrative.

Affected Samples:
F3L040331 (29): NSB-8

Sample surrogate recovery is outside established QC limits. Samples were reprepared within holding time and the reanalysis yielded comparable results indicating a matrix effect.

Affected Samples:
F3L040331 (20): NSB-2
F3L040331 (27): NSB-7

METHODS SUMMARY

F3L040331

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
pH Non-Aqueous	SW846 9045A	
Percent Moisture	MCAWW 160.3 MOD	MCAWW 160.3 MOD
Volatile Organics by GC/MS	SW846 8260B	SW846 5035

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

F3L040331

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
F52F6	002	SSB-1B	12/03/03	14:33
F52F8	003	SSB-1P	12/03/03	14:33
F52GH	006	SSB-2P	12/03/03	15:03
F52GM	008	SSB-3B	12/03/03	15:43
F52GN	009	SSB-3P	12/03/03	15:43
F52G0	012	SSB-4C	12/03/03	16:25
F52G1	013	SSB-4P	12/03/03	16:07
F52H0	020	NSB-2	12/03/03	08:50
F52H7	021	NSB-2P	12/03/03	08:50
F52JC	022	NSB-4	12/03/03	09:24
F52JD	023	NSB-4P	12/03/03	09:24
F52JF	024	NSB-6A	12/03/03	09:55
F52JJ	025	NSB-6B	12/03/03	10:12
F52JQ	026	NSB-6P	12/03/03	10:12
F52JV	027	NSB-7	12/03/03	10:34
F52J0	028	NSB-7P	12/03/03	10:34
F52J5	029	NSB-8	12/03/03	10:47
F52J6	030	NSB-8P	12/03/03	10:47

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

THE FORRESTER GROUP

Client Sample ID: SSB-1B

GC/MS Volatiles

Lot-Sample #...: F3L040331-002 **Work Order #...:** F52F61AD **Matrix.....:** SOLID
Date Sampled...: 12/03/03 14:33 **Date Received..:** 12/04/03
Prep Date.....: 12/16/03 **Analysis Date..:** 12/16/03
Prep Batch #...: 3351129 **Analysis Time..:** 19:41
Dilution Factor: 0.76
% Moisture.....: 14 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**20 B**	**18**	**ug/kg**
Benzene	ND	4.4	ug/kg
Bromodichloromethane	ND	4.4	ug/kg
Bromoform	ND	4.4	ug/kg
Bromomethane	ND	8.8	ug/kg
2-Butanone (MEK)	ND	18	ug/kg
Carbon disulfide	ND	4.4	ug/kg
Carbon tetrachloride	ND	4.4	ug/kg
Chlorobenzene	ND	4.4	ug/kg
Dibromochloromethane	ND	4.4	ug/kg
Chloroethane	ND	4.4	ug/kg
Chloroform	**0.61 J**	**4.4**	**ug/kg**
Chloromethane (Methyl Chloride)	ND	8.8	ug/kg
1,1-Dichloroethane	**1.2 J**	**4.4**	**ug/kg**
1,2-Dichloroethane	ND	4.4	ug/kg
cis-1,2-Dichloroethene	**6.5**	**4.4**	**ug/kg**
trans-1,2-Dichloroethene	ND	4.4	ug/kg
1,1-Dichloroethene	ND	4.4	ug/kg
1,2-Dichloroethene (total)	**6.5 J**	**8.8**	**ug/kg**
1,2-Dichloropropane	ND	4.4	ug/kg
cis-1,3-Dichloropropene	ND	4.4	ug/kg
trans-1,3-Dichloropropene	ND	4.4	ug/kg
Ethylbenzene	ND	4.4	ug/kg
2-Hexanone	ND	8.8	ug/kg
Methylene chloride	ND	4.4	ug/kg
4-Methyl-2-pentanone	ND	18	ug/kg
Styrene	ND	4.4	ug/kg
1,1,2,2-Tetrachloroethane	ND	4.4	ug/kg
Tetrachloroethene	**14**	**4.4**	**ug/kg**
Toluene	ND	4.4	ug/kg
1,1,1-Trichloroethane	ND	4.4	ug/kg
1,1,2-Trichloroethane	ND	4.4	ug/kg
Trichloroethene	**13**	**4.4**	**ug/kg**
Vinyl chloride	ND	4.4	ug/kg
m-Xylene & p-Xylene	ND	4.4	ug/kg
o-Xylene	ND	4.4	ug/kg

(Continued on next page)

THE FORRESTER GROUP

Client Sample ID: SSB-1B

GC/MS Volatiles

Lot-Sample #...: F3L040331-002 **Work Order #...:** F52F61AD **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	8.8	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	110	(76 - 129)
Dibromofluoromethane	119	(81 - 128)
1,2-Dichloroethane-d4	122	(77 - 130)
4-Bromofluorobenzene	99	(58 - 144)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: SSB-1B

General Chemistry

Lot-Sample #...: F3L040331-002 Work Order #...: F52F6 Matrix.....: SOLID
Date Sampled...: 12/03/03 14:33 Date Received..: 12/04/03
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	13.9	0.10	%	MCAWW 160.3 MOD	12/09-12/10/03	3343619

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: SSB-1P

General Chemistry

Lot-Sample #...: F3L040331-003 **Work Order #...:** F52F8 **Matrix.....:** SOLID
Date Sampled...: 12/03/03 14:33 **Date Received..:** 12/04/03
% Moisture.....:

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	**8.5**		**No Units**	**SW846 9045A**	**12/04/03**	**3339187**

Dilution Factor: 1 Analysis Time..: 11:30

THE FORRESTER GROUP

Client Sample ID: SSB-2P

General Chemistry

Lot-Sample #...: F3L040331-006 Work Order #...: F52GH Matrix.....: SOLID
Date Sampled...: 12/03/03 15:03 Date Received..: 12/04/03
% Moisture.....:

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	7.7		No Units	SW846 9045A	12/04/03	3339187

Dilution Factor: 1 Analysis Time...: 00:00

THE FORRESTER GROUP

Client Sample ID: SSB-3B

GC/MS Volatiles

Lot-Sample #...: F3L040331-008 **Work Order #...:** F52GM1AD **Matrix.....:** SOLID
Date Sampled...: 12/03/03 15:43 **Date Received..:** 12/04/03
Prep Date.....: 12/16/03 **Analysis Date..:** 12/16/03
Prep Batch #...: 3351129 **Analysis Time..:** 20:16
Dilution Factor: 0.74
% Moisture.....: 19 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**15 J,B**	**18**	**ug/kg**
Benzene	**0.58 J**	**4.6**	**ug/kg**
Bromodichloromethane	ND	4.6	ug/kg
Bromoform	ND	4.6	ug/kg
Bromomethane	ND	9.2	ug/kg
2-Butanone (MEK)	ND	18	ug/kg
Carbon disulfide	ND	4.6	ug/kg
Carbon tetrachloride	ND	4.6	ug/kg
Chlorobenzene	**0.67 J**	**4.6**	**ug/kg**
Dibromochloromethane	ND	4.6	ug/kg
Chloroethane	ND	4.6	ug/kg
Chloroform	**12**	**4.6**	**ug/kg**
Chloromethane (Methyl Chloride)	ND	9.2	ug/kg
1,1-Dichloroethane	**23**	**4.6**	**ug/kg**
1,2-Dichloroethane	ND	4.6	ug/kg
cis-1,2-Dichloroethene	**74**	**4.6**	**ug/kg**
trans-1,2-Dichloroethene	ND	4.6	ug/kg
1,1-Dichloroethene	**0.72 J**	**4.6**	**ug/kg**
1,2-Dichloroethene (total)	**74**	**9.2**	**ug/kg**
1,2-Dichloropropane	ND	4.6	ug/kg
cis-1,3-Dichloropropene	ND	4.6	ug/kg
trans-1,3-Dichloropropene	ND	4.6	ug/kg
Ethylbenzene	ND	4.6	ug/kg
2-Hexanone	ND	9.2	ug/kg
Methylene chloride	ND	4.6	ug/kg
4-Methyl-2-pentanone	ND	18	ug/kg
Styrene	ND	4.6	ug/kg
1,1,2,2-Tetrachloroethane	ND	4.6	ug/kg
Tetrachloroethene	**180**	**4.6**	**ug/kg**
Toluene	**0.79 J**	**4.6**	**ug/kg**
1,1,1-Trichloroethane	**0.77 J**	**4.6**	**ug/kg**
1,1,2-Trichloroethane	ND	4.6	ug/kg
Trichloroethene	**48**	**4.6**	**ug/kg**
Vinyl chloride	ND	4.6	ug/kg
m-Xylene & p-Xylene	ND	4.6	ug/kg
o-Xylene	ND	4.6	ug/kg

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THE FORRESTER GROUP

Client Sample ID: SSB-3B

GC/MS Volatiles

Lot-Sample #...: F3L040331-008 Work Order #...: F52GM1AD Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	9.2	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	116	(76 - 129)
Dibromofluoromethane	118	(81 - 128)
1,2-Dichloroethane-d4	125	(77 - 130)
4-Bromofluorobenzene	100	(58 - 144)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

THE FORRESTER GROUP

Client Sample ID: SSB-3B

General Chemistry

Lot-Sample #...: F3L040331-008 Work Order #...: F52GM Matrix.....: SOLID
Date Sampled...: 12/03/03 15:43 Date Received..: 12/04/03
% Moisture.....: 19

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	19.2	0.10	%	MCAWW 160.3 MOD	12/09-12/10/03	3343619
		Dilution Factor: 1		Analysis Time..: 00:00		

THE FORRESTER GROUP

Client Sample ID: SSB-3P

General Chemistry

Lot-Sample #...: F3L040331-009 Work Order #...: F52GN Matrix.....: SOLID
Date Sampled...: 12/03/03 15:43 Date Received..: 12/04/03
% Moisture.....:

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	8.4		No Units	SW846 9045A	12/04/03	3339187

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: SSB-4C

GC/MS Volatiles

Lot-Sample #...: F3L040331-012 **Work Order #...:** F52G01AD **Matrix.....:** SOLID
Date Sampled...: 12/03/03 16:25 **Date Received..:** 12/04/03
Prep Date.....: 12/16/03 **Analysis Date..:** 12/16/03
Prep Batch #...: 3351129 **Analysis Time..:** 14:55
Dilution Factor: 0.76
% Moisture.....: 11 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**11 J,B**	**17**	**ug/kg**
Benzene	**0.80 J**	**4.2**	**ug/kg**
Bromodichloromethane	ND	4.2	ug/kg
Bromoform	ND	4.2	ug/kg
Bromomethane	ND	8.5	ug/kg
2-Butanone (MEK)	ND	17	ug/kg
Carbon disulfide	ND	4.2	ug/kg
Carbon tetrachloride	ND	4.2	ug/kg
Chlorobenzene	**1.3 J**	**4.2**	**ug/kg**
Dibromochloromethane	ND	4.2	ug/kg
Chloroethane	ND	4.2	ug/kg
Chloroform	**0.78 J**	**4.2**	**ug/kg**
Chloromethane (Methyl Chloride)	ND	8.5	ug/kg
1,1-Dichloroethane	**21**	**4.2**	**ug/kg**
1,2-Dichloroethane	**12**	**4.2**	**ug/kg**
cis-1,2-Dichloroethene	**120**	**4.2**	**ug/kg**
trans-1,2-Dichloroethene	**0.57 J**	**4.2**	**ug/kg**
1,1-Dichloroethene	ND	4.2	ug/kg
1,2-Dichloroethene (total)	**120**	**8.5**	**ug/kg**
1,2-Dichloropropane	ND	4.2	ug/kg
cis-1,3-Dichloropropene	ND	4.2	ug/kg
trans-1,3-Dichloropropene	ND	4.2	ug/kg
Ethylbenzene	**2.1 J**	**4.2**	**ug/kg**
2-Hexanone	ND	8.5	ug/kg
Methylene chloride	ND	4.2	ug/kg
4-Methyl-2-pentanone	ND	17	ug/kg
Styrene	ND	4.2	ug/kg
1,1,2,2-Tetrachloroethane	ND	4.2	ug/kg
Tetrachloroethene	**290 E**	**4.2**	**ug/kg**
Toluene	**3.6 J**	**4.2**	**ug/kg**
1,1,1-Trichloroethane	**0.59 J**	**4.2**	**ug/kg**
1,1,2-Trichloroethane	ND	4.2	ug/kg
Trichloroethene	**11**	**4.2**	**ug/kg**
Vinyl chloride	ND	4.2	ug/kg
m-Xylene & p-Xylene	**1.1 J**	**4.2**	**ug/kg**
o-Xylene	**0.44 J**	**4.2**	**ug/kg**

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THE FORRESTER GROUP

Client Sample ID: SSB-4C

GC/MS Volatiles

Lot-Sample #...: F3L040331-012 Work Order #...: F52G01AD Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	1.5 J	8.5	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	118	(76 - 129)
Dibromofluoromethane	116	(81 - 128)
1,2-Dichloroethane-d4	128	(77 - 130)
4-Bromofluorobenzene	109	(58 - 144)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

E Estimated result. Result concentration exceeds the calibration range.

THE FORRESTER GROUP

Client Sample ID: SSB-4C

GC/MS Volatiles

Lot-Sample #...: F3L040331-012 **Work Order #...:** F52G02AD **Matrix.....:** SOLID
Date Sampled...: 12/03/03 16:25 **Date Received..:** 12/04/03
Prep Date.....: 12/18/03 **Analysis Date..:** 12/18/03
Prep Batch #...: 3353149 **Analysis Time..:** 13:10
Dilution Factor: 1.89
% Moisture.....: 11 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	2100	ug/kg
Benzene	ND	530	ug/kg
Bromodichloromethane	ND	530	ug/kg
Bromoform	ND	530	ug/kg
Bromomethane	ND	1100	ug/kg
2-Butanone (MEK)	ND	2100	ug/kg
Carbon disulfide	ND	530	ug/kg
Carbon tetrachloride	ND	530	ug/kg
Chlorobenzene	ND	530	ug/kg
Dibromochloromethane	ND	530	ug/kg
Chloroethane	ND	530	ug/kg
Chloroform	ND	530	ug/kg
Chloromethane (Methyl Chloride)	ND	1100	ug/kg
1,1-Dichloroethane	ND	530	ug/kg
1,2-Dichloroethane	ND	530	ug/kg
cis-1,2-Dichloroethene	ND	530	ug/kg
trans-1,2-Dichloroethene	ND	530	ug/kg
1,1-Dichloroethene	ND	530	ug/kg
1,2-Dichloroethene (total)	ND	1100	ug/kg
1,2-Dichloropropane	ND	530	ug/kg
cis-1,3-Dichloropropene	ND	530	ug/kg
trans-1,3-Dichloropropene	ND	530	ug/kg
Ethylbenzene	ND	530	ug/kg
2-Hexanone	ND	1100	ug/kg
Methylene chloride	ND	530	ug/kg
4-Methyl-2-pentanone	ND	2100	ug/kg
Styrene	ND	530	ug/kg
1,1,2,2-Tetrachloroethane	ND	530	ug/kg
Tetrachloroethene	**580**	**530**	**ug/kg**
Toluene	ND	530	ug/kg
1,1,1-Trichloroethane	ND	530	ug/kg
1,1,2-Trichloroethane	ND	530	ug/kg
Trichloroethene	ND	530	ug/kg
Vinyl chloride	ND	530	ug/kg
m-Xylene & p-Xylene	ND	530	ug/kg
o-Xylene	ND	530	ug/kg

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THE FORRESTER GROUP

Client Sample ID: SSB-4C

GC/MS Volatiles

Lot-Sample #...: F3L040331-012 **Work Order #...:** F52G02AD **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	1100	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	89	(52 - 132)
Dibromofluoromethane	95	(61 - 130)
1,2-Dichloroethane-d4	100	(55 - 136)
4-Bromofluorobenzene	104	(47 - 129)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

THE FORRESTER GROUP

Client Sample ID: SSB-4C

General Chemistry

Lot-Sample #...: F3L040331-012 Work Order #...: F52G0 Matrix.....: SOLID
Date Sampled...: 12/03/03 16:25 Date Received..: 12/04/03
% Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	10.6	0.10	%	MCAWW 160.3 MOD	12/09-12/10/03	3343619
		Dilution Factor: 1		Analysis Time..: 00:00		

THE FORRESTER GROUP

Client Sample ID: SSB-4P

General Chemistry

Lot-Sample #...: F3L040331-013 Work Order #...: F52G1 Matrix.....: SOLID
Date Sampled...: 12/03/03 16:07 Date Received..: 12/04/03
% Moisture.....:

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	8.2		No Units	SW846 9045A	12/04/03	3339187

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: NSB-2

GC/MS Volatiles

Lot-Sample #...: F3L040331-020 **Work Order #...:** F52H01AC **Matrix.....:** SOLID
Date Sampled...: 12/03/03 08:50 **Date Received..:** 12/04/03
Prep Date.....: 12/16/03 **Analysis Date..:** 12/16/03
Prep Batch #...: 3351129 **Analysis Time..:** 15:30
Dilution Factor: 0.83
% Moisture.....: 14 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**23 B**	**19**	**ug/kg**
Benzene	ND	4.8	ug/kg
Bromodichloromethane	ND	4.8	ug/kg
Bromoform	ND	4.8	ug/kg
Bromomethane	ND	9.6	ug/kg
2-Butanone (MEK)	ND	19	ug/kg
Carbon disulfide	ND	4.8	ug/kg
Carbon tetrachloride	ND	4.8	ug/kg
Chlorobenzene	ND	4.8	ug/kg
Dibromochloromethane	ND	4.8	ug/kg
Chloroethane	ND	4.8	ug/kg
Chloroform	ND	4.8	ug/kg
Chloromethane (Methyl Chloride)	ND	9.6	ug/kg
1,1-Dichloroethane	ND	4.8	ug/kg
1,2-Dichloroethane	ND	4.8	ug/kg
cis-1,2-Dichloroethene	ND	4.8	ug/kg
trans-1,2-Dichloroethene	ND	4.8	ug/kg
1,1-Dichloroethene	ND	4.8	ug/kg
1,2-Dichloroethene (total)	ND	9.6	ug/kg
1,2-Dichloropropane	ND	4.8	ug/kg
cis-1,3-Dichloropropene	ND	4.8	ug/kg
trans-1,3-Dichloropropene	ND	4.8	ug/kg
Ethylbenzene	ND	4.8	ug/kg
2-Hexanone	ND	9.6	ug/kg
Methylene chloride	ND	4.8	ug/kg
4-Methyl-2-pentanone	ND	19	ug/kg
Styrene	ND	4.8	ug/kg
1,1,2,2-Tetrachloroethane	ND	4.8	ug/kg
Tetrachloroethene	**7.9**	**4.8**	**ug/kg**
Toluene	ND	4.8	ug/kg
1,1,1-Trichloroethane	ND	4.8	ug/kg
1,1,2-Trichloroethane	ND	4.8	ug/kg
Trichloroethene	ND	4.8	ug/kg
Vinyl chloride	ND	4.8	ug/kg
m-Xylene & p-Xylene	ND	4.8	ug/kg
o-Xylene	ND	4.8	ug/kg

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THE FORRESTER GROUP

Client Sample ID: NSB-2

GC/MS Volatiles

Lot-Sample #...: F3L040331-020 Work Order #...: F52H01AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	9.6	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	117	(76 - 129)
Dibromofluoromethane	129 *	(81 - 128)
1,2-Dichloroethane-d4	139 *	(77 - 130)
4-Bromofluorobenzene	106	(58 - 144)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

THE FORRESTER GROUP

Client Sample ID: NSB-2

GC/MS Volatiles

Lot-Sample #...: F3L040331-020 **Work Order #...:** F52H02AC **Matrix.....:** SOLID
Date Sampled...: 12/03/03 08:50 **Date Received..:** 12/04/03
Prep Date.....: 12/16/03 **Analysis Date..:** 12/16/03
Prep Batch #...: 3351129 **Analysis Time..:** 21:54
Dilution Factor: 0.68
% Moisture.....: 14 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**54 B**	**16**	**ug/kg**
Benzene	ND	3.9	ug/kg
Bromodichloromethane	ND	3.9	ug/kg
Bromoform	ND	3.9	ug/kg
Bromomethane	ND	7.9	ug/kg
2-Butanone (MEK)	ND	16	ug/kg
Carbon disulfide	ND	3.9	ug/kg
Carbon tetrachloride	ND	3.9	ug/kg
Chlorobenzene	ND	3.9	ug/kg
Dibromochloromethane	ND	3.9	ug/kg
Chloroethane	ND	3.9	ug/kg
Chloroform	ND	3.9	ug/kg
Chloromethane (Methyl Chloride)	ND	7.9	ug/kg
1,1-Dichloroethane	ND	3.9	ug/kg
1,2-Dichloroethane	ND	3.9	ug/kg
cis-1,2-Dichloroethene	ND	3.9	ug/kg
trans-1,2-Dichloroethene	ND	3.9	ug/kg
1,1-Dichloroethene	**0.82 J**	**3.9**	**ug/kg**
1,2-Dichloroethene (total)	ND	7.9	ug/kg
1,2-Dichloropropane	ND	3.9	ug/kg
cis-1,3-Dichloropropene	ND	3.9	ug/kg
trans-1,3-Dichloropropene	ND	3.9	ug/kg
Ethylbenzene	ND	3.9	ug/kg
2-Hexanone	ND	7.9	ug/kg
Methylene chloride	**3.7 J**	**3.9**	**ug/kg**
4-Methyl-2-pentanone	ND	16	ug/kg
Styrene	ND	3.9	ug/kg
1,1,2,2-Tetrachloroethane	ND	3.9	ug/kg
Tetrachloroethene	**45**	**3.9**	**ug/kg**
Toluene	ND	3.9	ug/kg
1,1,1-Trichloroethane	**1.6 J**	**3.9**	**ug/kg**
1,1,2-Trichloroethane	ND	3.9	ug/kg
Trichloroethene	ND	3.9	ug/kg
Vinyl chloride	ND	3.9	ug/kg
m-Xylene & p-Xylene	ND	3.9	ug/kg
o-Xylene	ND	3.9	ug/kg

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THE FORRESTER GROUP

Client Sample ID: NSB-2

GC/MS Volatiles

Lot-Sample #...: F3L040331-020 **Work Order #...:** F52H02AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	7.9	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	155 *	(76 - 129)
Dibromofluoromethane	167 *	(81 - 128)
1,2-Dichloroethane-d4	176 *	(77 - 130)
4-Bromofluorobenzene	138	(58 - 144)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: NSB-2

General Chemistry

Lot-Sample #...: F3L040331-020 Work Order #...: F52H0 Matrix.....: SOLID
Date Sampled...: 12/03/03 08:50 Date Received..: 12/04/03
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	13.7	0.10	%	MCAWW 160.3 MOD	12/09-12/10/03	3343619
		Dilution Factor: 1		Analysis Time..: 00:00		

THE FORRESTER GROUP

Client Sample ID: NSB-2P

General Chemistry

Lot-Sample #...: F3L040331-021 Work Order #...: F52H7 Matrix.....: SOLID
Date Sampled...: 12/03/03 08:50 Date Received..: 12/04/03
% Moisture.....:

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	4.5		No Units	SW846 9045A	12/04/03	3339187

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: NSB-4

GC/MS Volatiles

Lot-Sample #...: F3L040331-022 **Work Order #...:** F52JC1AC **Matrix.....:** SOLID
Date Sampled...: 12/03/03 09:24 **Date Received..:** 12/04/03
Prep Date.....: 12/16/03 **Analysis Date..:** 12/16/03
Prep Batch #...: 3351129 **Analysis Time..:** 16:09
Dilution Factor: 0.63
% Moisture.....: 15 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**68 B**	**15**	**ug/kg**
Benzene	ND	3.7	ug/kg
Bromodichloromethane	ND	3.7	ug/kg
Bromoform	ND	3.7	ug/kg
Bromomethane	ND	7.4	ug/kg
2-Butanone (MEK)	**11 J**	**15**	**ug/kg**
Carbon disulfide	ND	3.7	ug/kg
Carbon tetrachloride	ND	3.7	ug/kg
Chlorobenzene	ND	3.7	ug/kg
Dibromochloromethane	ND	3.7	ug/kg
Chloroethane	ND	3.7	ug/kg
Chloroform	ND	3.7	ug/kg
Chloromethane (Methyl Chloride)	ND	7.4	ug/kg
1,1-Dichloroethane	ND	3.7	ug/kg
1,2-Dichloroethane	ND	3.7	ug/kg
cis-1,2-Dichloroethene	ND	3.7	ug/kg
trans-1,2-Dichloroethene	ND	3.7	ug/kg
1,1-Dichloroethene	ND	3.7	ug/kg
1,2-Dichloroethene (total)	ND	7.4	ug/kg
1,2-Dichloropropane	ND	3.7	ug/kg
cis-1,3-Dichloropropene	ND	3.7	ug/kg
trans-1,3-Dichloropropene	ND	3.7	ug/kg
Ethylbenzene	ND	3.7	ug/kg
2-Hexanone	ND	7.4	ug/kg
Methylene chloride	ND	3.7	ug/kg
4-Methyl-2-pentanone	ND	15	ug/kg
Styrene	ND	3.7	ug/kg
1,1,2,2-Tetrachloroethane	ND	3.7	ug/kg
Tetrachloroethene	**150**	**3.7**	**ug/kg**
Toluene	ND	3.7	ug/kg
1,1,1-Trichloroethane	**3.0 J**	**3.7**	**ug/kg**
1,1,2-Trichloroethane	ND	3.7	ug/kg
Trichloroethene	**3.2 J**	**3.7**	**ug/kg**
Vinyl chloride	ND	3.7	ug/kg
m-Xylene & p-Xylene	ND	3.7	ug/kg
o-Xylene	ND	3.7	ug/kg

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THE FORRESTER GROUP

Client Sample ID: NSB-4

GC/MS Volatiles

Lot-Sample #...: F3L040331-022 Work Order #...: F52JC1AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	7.4	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	87	(76 - 129)
Dibromofluoromethane	87	(81 - 128)
1,2-Dichloroethane-d4	91	(77 - 130)
4-Bromofluorobenzene	71	(58 - 144)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: NSB-4

General Chemistry

Lot-Sample #...: F3L040331-022 Work Order #...: F52JC Matrix.....: SOLID
Date Sampled...: 12/03/03 09:24 Date Received..: 12/04/03
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	15.0	0.10	%	MCAWW 160.3 MOD	12/09-12/10/03	3343619
		Dilution Factor: 1		Analysis Time..: 00:00		

THE FORRESTER GROUP

Client Sample ID: NSB-4P

General Chemistry

Lot-Sample #...: F3L040331-023 Work Order #...: F52JD Matrix.....: SOLID
Date Sampled...: 12/03/03 09:24 Date Received..: 12/04/03
% Moisture.....:

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	4.6		No Units	SW846 9045A	12/04/03	3339187

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: NSB-6A

GC/MS Volatiles

Lot-Sample #...: F3L040331-024 **Work Order #...:** F52JF1AC **Matrix.....:** SOLID
Date Sampled...: 12/03/03 09:55 **Date Received..:** 12/04/03
Prep Date.....: 12/16/03 **Analysis Date..:** 12/16/03
Prep Batch #...: 3351129 **Analysis Time..:** 16:44
Dilution Factor: 0.56
% Moisture.....: 14 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**13 B**	**13**	**ug/kg**
Benzene	ND	3.3	ug/kg
Bromodichloromethane	ND	3.3	ug/kg
Bromoform	ND	3.3	ug/kg
Bromomethane	ND	6.5	ug/kg
2-Butanone (MEK)	ND	13	ug/kg
Carbon disulfide	ND	3.3	ug/kg
Carbon tetrachloride	ND	3.3	ug/kg
Chlorobenzene	ND	3.3	ug/kg
Dibromochloromethane	ND	3.3	ug/kg
Chloroethane	ND	3.3	ug/kg
Chloroform	**0.36 J**	**3.3**	**ug/kg**
Chloromethane (Methyl Chloride)	ND	6.5	ug/kg
1,1-Dichloroethane	ND	3.3	ug/kg
1,2-Dichloroethane	**2.1 J**	**3.3**	**ug/kg**
cis-1,2-Dichloroethene	ND	3.3	ug/kg
trans-1,2-Dichloroethene	ND	3.3	ug/kg
1,1-Dichloroethene	**0.91 J**	**3.3**	**ug/kg**
1,2-Dichloroethene (total)	ND	6.5	ug/kg
1,2-Dichloropropane	ND	3.3	ug/kg
cis-1,3-Dichloropropene	ND	3.3	ug/kg
trans-1,3-Dichloropropene	ND	3.3	ug/kg
Ethylbenzene	ND	3.3	ug/kg
2-Hexanone	ND	6.5	ug/kg
Methylene chloride	ND	3.3	ug/kg
4-Methyl-2-pentanone	ND	13	ug/kg
Styrene	ND	3.3	ug/kg
1,1,2,2-Tetrachloroethane	ND	3.3	ug/kg
Tetrachloroethene	**93**	**3.3**	**ug/kg**
Toluene	ND	3.3	ug/kg
1,1,1-Trichloroethane	**49**	**3.3**	**ug/kg**
1,1,2-Trichloroethane	ND	3.3	ug/kg
Trichloroethene	**43**	**3.3**	**ug/kg**
Vinyl chloride	ND	3.3	ug/kg
m-Xylene & p-Xylene	ND	3.3	ug/kg
o-Xylene	ND	3.3	ug/kg

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THE FORRESTER GROUP

Client Sample ID: NSB-6A

GC/MS Volatiles

Lot-Sample #...: F3L040331-024 **Work Order #...:** F52JF1AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	6.5	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	114	(76 - 129)
Dibromofluoromethane	125	(81 - 128)
1,2-Dichloroethane-d4	130	(77 - 130)
4-Bromofluorobenzene	97	(58 - 144)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: NSB-6A

General Chemistry

Lot-Sample #...: F3L040331-024 **Work Order #...:** F52JF **Matrix.....:** SOLID
Date Sampled...: 12/03/03 09:55 **Date Received..:** 12/04/03
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**14.3**	**0.10**	**%**	**MCAWW 160.3 MOD**	**12/09-12/10/03**	**3343619**
		Dilution Factor: 1		Analysis Time..: 00:00		

THE FORRESTER GROUP

Client Sample ID: NSB-6B

GC/MS Volatiles

Lot-Sample #...: F3L040331-025 **Work Order #...:** F52JJ1AC **Matrix.....:** SOLID
Date Sampled...: 12/03/03 10:12 **Date Received..:** 12/04/03
Prep Date.....: 12/16/03 **Analysis Date..:** 12/16/03
Prep Batch #...: 3351129 **Analysis Time..:** 17:19
Dilution Factor: 0.88
% Moisture.....: 13 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**9.9 J,B**	**20**	**ug/kg**
Benzene	ND	5.1	ug/kg
Bromodichloromethane	ND	5.1	ug/kg
Bromoform	ND	5.1	ug/kg
Bromomethane	ND	10	ug/kg
2-Butanone (MEK)	ND	20	ug/kg
Carbon disulfide	ND	5.1	ug/kg
Carbon tetrachloride	ND	5.1	ug/kg
Chlorobenzene	ND	5.1	ug/kg
Dibromochloromethane	ND	5.1	ug/kg
Chloroethane	ND	5.1	ug/kg
Chloroform	ND	5.1	ug/kg
Chloromethane (Methyl Chloride)	ND	10	ug/kg
1,1-Dichloroethane	ND	5.1	ug/kg
1,2-Dichloroethane	**2.7 J**	**5.1**	**ug/kg**
cis-1,2-Dichloroethene	ND	5.1	ug/kg
trans-1,2-Dichloroethene	ND	5.1	ug/kg
1,1-Dichloroethene	ND	5.1	ug/kg
1,2-Dichloroethene (total)	ND	10	ug/kg
1,2-Dichloropropane	ND	5.1	ug/kg
cis-1,3-Dichloropropene	ND	5.1	ug/kg
trans-1,3-Dichloropropene	ND	5.1	ug/kg
Ethylbenzene	ND	5.1	ug/kg
2-Hexanone	ND	10	ug/kg
Methylene chloride	ND	5.1	ug/kg
4-Methyl-2-pentanone	ND	20	ug/kg
Styrene	ND	5.1	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.1	ug/kg
Tetrachloroethene	**84**	**5.1**	**ug/kg**
Toluene	ND	5.1	ug/kg
1,1,1-Trichloroethane	**17**	**5.1**	**ug/kg**
1,1,2-Trichloroethane	ND	5.1	ug/kg
Trichloroethene	**59**	**5.1**	**ug/kg**
Vinyl chloride	ND	5.1	ug/kg
m-Xylene & p-Xylene	ND	5.1	ug/kg
o-Xylene	ND	5.1	ug/kg

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THE FORRESTER GROUP

Client Sample ID: NSB-6B

GC/MS Volatiles

Lot-Sample #...: F3L040331-025 Work Order #...: F52JJ1AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	10	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	114	(76 - 129)
Dibromofluoromethane	122	(81 - 128)
1,2-Dichloroethane-d4	129	(77 - 130)
4-Bromofluorobenzene	97	(58 - 144)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

THE FORRESTER GROUP

Client Sample ID: NSB-6B

General Chemistry

Lot-Sample #...: F3L040331-025 Work Order #...: F52JJ Matrix.....: SOLID
Date Sampled...: 12/03/03 10:12 Date Received..: 12/04/03
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	13.0	0.10	%	MCAWW 160.3 MOD	12/09-12/10/03	3343619

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: NSB-6P

General Chemistry

Lot-Sample #...: F3L040331-026 Work Order #...: F52JQ Matrix.....: SOLID
Date Sampled...: 12/03/03 10:12 Date Received..: 12/04/03
% Moisture.....:

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	7.6		No Units	SW846 9045A	12/04/03	3339187

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: NSB-7

GC/MS Volatiles

Lot-Sample #...: F3L040331-027 **Work Order #...:** F52JV1AC **Matrix.....:** SOLID
Date Sampled...: 12/03/03 10:34 **Date Received..:** 12/04/03
Prep Date.....: 12/16/03 **Analysis Date..:** 12/16/03
Prep Batch #...: 3351129 **Analysis Time..:** 17:54
Dilution Factor: 0.65
% Moisture.....: 16 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**5.2 J,B**	**16**	**ug/kg**
Benzene	**0.58 J**	**3.9**	**ug/kg**
Bromodichloromethane	ND	3.9	ug/kg
Bromoform	ND	3.9	ug/kg
Bromomethane	ND	7.8	ug/kg
2-Butanone (MEK)	ND	16	ug/kg
Carbon disulfide	ND	3.9	ug/kg
Carbon tetrachloride	ND	3.9	ug/kg
Chlorobenzene	ND	3.9	ug/kg
Dibromochloromethane	ND	3.9	ug/kg
Chloroethane	ND	3.9	ug/kg
Chloroform	ND	3.9	ug/kg
Chloromethane (Methyl Chloride)	ND	7.8	ug/kg
1,1-Dichloroethane	ND	3.9	ug/kg
1,2-Dichloroethane	ND	3.9	ug/kg
cis-1,2-Dichloroethene	ND	3.9	ug/kg
trans-1,2-Dichloroethene	ND	3.9	ug/kg
1,1-Dichloroethene	ND	3.9	ug/kg
1,2-Dichloroethene (total)	ND	7.8	ug/kg
1,2-Dichloropropane	ND	3.9	ug/kg
cis-1,3-Dichloropropene	ND	3.9	ug/kg
trans-1,3-Dichloropropene	ND	3.9	ug/kg
Ethylbenzene	**0.41 J**	**3.9**	**ug/kg**
2-Hexanone	ND	7.8	ug/kg
Methylene chloride	ND	3.9	ug/kg
4-Methyl-2-pentanone	ND	16	ug/kg
Styrene	ND	3.9	ug/kg
1,1,2,2-Tetrachloroethane	ND	3.9	ug/kg
Tetrachloroethene	**51**	**3.9**	**ug/kg**
Toluene	**1.2 J**	**3.9**	**ug/kg**
1,1,1-Trichloroethane	**3.4 J**	**3.9**	**ug/kg**
1,1,2-Trichloroethane	ND	3.9	ug/kg
Trichloroethene	**1.2 J**	**3.9**	**ug/kg**
Vinyl chloride	ND	3.9	ug/kg
m-Xylene & p-Xylene	ND	3.9	ug/kg
o-Xylene	ND	3.9	ug/kg

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THE FORRESTER GROUP

Client Sample ID: NSB-7

GC/MS Volatiles

Lot-Sample #...: F3L040331-027 **Work Order #...:** F52JV1AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	7.8	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	112	(76 - 129)
Dibromofluoromethane	119	(81 - 128)
1,2-Dichloroethane-d4	131 *	(77 - 130)
4-Bromofluorobenzene	97	(58 - 144)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

THE FORRESTER GROUP

Client Sample ID: NSB-7

GC/MS Volatiles

Lot-Sample #...: F3L040331-027 **Work Order #...:** F52JV2AC **Matrix.....:** SOLID
Date Sampled...: 12/03/03 10:34 **Date Received..:** 12/04/03
Prep Date.....: 12/16/03 **Analysis Date..:** 12/16/03
Prep Batch #...: 3351129 **Analysis Time..:** 22:31
Dilution Factor: 0.77
% Moisture.....: 16 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**13 J,B**	**18**	**ug/kg**
Benzene	**0.96 J**	**4.6**	**ug/kg**
Bromodichloromethane	ND	4.6	ug/kg
Bromoform	ND	4.6	ug/kg
Bromomethane	ND	9.2	ug/kg
2-Butanone (MEK)	ND	18	ug/kg
Carbon disulfide	ND	4.6	ug/kg
Carbon tetrachloride	ND	4.6	ug/kg
Chlorobenzene	ND	4.6	ug/kg
Dibromochloromethane	ND	4.6	ug/kg
Chloroethane	ND	4.6	ug/kg
Chloroform	ND	4.6	ug/kg
Chloromethane (Methyl Chloride)	ND	9.2	ug/kg
1,1-Dichloroethane	ND	4.6	ug/kg
1,2-Dichloroethane	ND	4.6	ug/kg
cis-1,2-Dichloroethene	ND	4.6	ug/kg
trans-1,2-Dichloroethene	ND	4.6	ug/kg
1,1-Dichloroethene	ND	4.6	ug/kg
1,2-Dichloroethene (total)	ND	9.2	ug/kg
1,2-Dichloropropane	ND	4.6	ug/kg
cis-1,3-Dichloropropene	ND	4.6	ug/kg
trans-1,3-Dichloropropene	ND	4.6	ug/kg
Ethylbenzene	**0.80 J**	**4.6**	**ug/kg**
2-Hexanone	ND	9.2	ug/kg
Methylene chloride	ND	4.6	ug/kg
4-Methyl-2-pentanone	ND	18	ug/kg
Styrene	ND	4.6	ug/kg
1,1,2,2-Tetrachloroethane	ND	4.6	ug/kg
Tetrachloroethene	**100**	**4.6**	**ug/kg**
Toluene	**2.2 J**	**4.6**	**ug/kg**
1,1,1-Trichloroethane	**4.8**	**4.6**	**ug/kg**
1,1,2-Trichloroethane	ND	4.6	ug/kg
Trichloroethene	**1.8 J**	**4.6**	**ug/kg**
Vinyl chloride	ND	4.6	ug/kg
m-Xylene & p-Xylene	**0.64 J**	**4.6**	**ug/kg**
o-Xylene	ND	4.6	ug/kg

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THE FORRESTER GROUP

Client Sample ID: NSB-7

GC/MS Volatiles

Lot-Sample #...: F3L040331-027 Work Order #...: F52JV2AC Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	9.2	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	135 *	(76 - 129)
Dibromofluoromethane	108	(81 - 128)
1,2-Dichloroethane-d4	98	(77 - 130)
4-Bromofluorobenzene	118	(58 - 144)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

THE FORRESTER GROUP

Client Sample ID: NSB-7

General Chemistry

Lot-Sample #...: F3L040331-027 Work Order #...: F52JV Matrix.....: SOLID
Date Sampled...: 12/03/03 10:34 Date Received..: 12/04/03
% Moisture.....: 16

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	16.3	0.10	%	MCAWW 160.3 MOD	12/09-12/10/03	3343619
		Dilution Factor: 1		Analysis Time..: 00:00		

THE FORRESTER GROUP

Client Sample ID: NSB-7P

General Chemistry

Lot-Sample #...: F3L040331-028 Work Order #...: F52J0 Matrix.....: SOLID
Date Sampled...: 12/03/03 10:34 Date Received..: 12/04/03
% Moisture.....:

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	6.7		No Units	SW846 9045A	12/04/03	3339187

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: NSB-8

GC/MS Volatiles

Lot-Sample #...: F3L040331-029 **Work Order #...:** F52J51AC **Matrix.....:** SOLID
Date Sampled...: 12/03/03 10:47 **Date Received..:** 12/04/03
Prep Date.....: 12/16/03 **Analysis Date..:** 12/16/03
Prep Batch #...: 3351129 **Analysis Time..:** 18:29
Dilution Factor: 0.62
% Moisture.....: 19 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**23 B**	**15**	**ug/kg**
Benzene	ND	3.8	ug/kg
Bromodichloromethane	ND	3.8	ug/kg
Bromoform	ND	3.8	ug/kg
Bromomethane	ND	7.6	ug/kg
2-Butanone (MEK)	ND	15	ug/kg
Carbon disulfide	ND	3.8	ug/kg
Carbon tetrachloride	ND	3.8	ug/kg
Chlorobenzene	ND	3.8	ug/kg
Dibromochloromethane	ND	3.8	ug/kg
Chloroethane	ND	3.8	ug/kg
Chloroform	ND	3.8	ug/kg
Chloromethane (Methyl Chloride)	ND	7.6	ug/kg
1,1-Dichloroethane	ND	3.8	ug/kg
1,2-Dichloroethane	ND	3.8	ug/kg
cis-1,2-Dichloroethene	ND	3.8	ug/kg
trans-1,2-Dichloroethene	ND	3.8	ug/kg
1,1-Dichloroethene	ND	3.8	ug/kg
1,2-Dichloroethene (total)	ND	7.6	ug/kg
1,2-Dichloropropane	ND	3.8	ug/kg
cis-1,3-Dichloropropene	ND	3.8	ug/kg
trans-1,3-Dichloropropene	ND	3.8	ug/kg
Ethylbenzene	ND	3.8	ug/kg
2-Hexanone	ND	7.6	ug/kg
Methylene chloride	ND	3.8	ug/kg
4-Methyl-2-pentanone	ND	15	ug/kg
Styrene	ND	3.8	ug/kg
1,1,2,2-Tetrachloroethane	ND	3.8	ug/kg
Tetrachloroethene	**3.0 J**	**3.8**	**ug/kg**
Toluene	ND	3.8	ug/kg
1,1,1-Trichloroethane	ND	3.8	ug/kg
1,1,2-Trichloroethane	ND	3.8	ug/kg
Trichloroethene	ND	3.8	ug/kg
Vinyl chloride	ND	3.8	ug/kg
m-Xylene & p-Xylene	ND	3.8	ug/kg
o-Xylene	ND	3.8	ug/kg

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THE FORRESTER GROUP

Client Sample ID: NSB-8

GC/MS Volatiles

Lot-Sample #...: F3L040331-029 **Work Order #...:** F52J51AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	7.6	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	107	(76 - 129)
Dibromofluoromethane	120	(81 - 128)
1,2-Dichloroethane-d4	132 *	(77 - 130)
4-Bromofluorobenzene	96	(58 - 144)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: NSB-8

General Chemistry

Lot-Sample #...: F3L040331-029 Work Order #...: F52J5 Matrix.....: SOLID
Date Sampled...: 12/03/03 10:47 Date Received..: 12/04/03
% Moisture.....: 19

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	18.6	0.10	%	MCAWW 160.3 MOD	12/09-12/10/03	3343619
		Dilution Factor: 1		Analysis Time..: 00:00		

THE FORRESTER GROUP

Client Sample ID: NSB-8P

General Chemistry

Lot-Sample #...: F3L040331-030 Work Order #...: F52J6 Matrix.....: SOLID
Date Sampled...: 12/03/03 10:47 Date Received..: 12/04/03
% Moisture.....:

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	6.7		No Units	SW846 9045A	12/04/03	3339187

Dilution Factor: 1 Analysis Time...: 00:00

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F3L040331 **Work Order #...:** F6T8Q1AA **Matrix.....:** SOLID
MB Lot-Sample #: F3L170000-129

Prep Date.....: 12/16/03 **Analysis Time..:** 13:12
Analysis Date..: 12/16/03 **Prep Batch #...:** 3351129
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	**2.7 J**	**20**	**ug/kg**	**SW846 8260B**
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethene (total)	ND	10	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	10	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
o-Xylene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	10	ug/kg	SW846 8260B
m-Xylene & p-Xylene	ND	5.0	ug/kg	SW846 8260B
2-Butanone (MEK)	ND	20	ug/kg	SW846 8260B
Chloromethane (Methyl Chl	ND	10	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F3L040331 **Work Order #...:** F6T8Q1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	112	(76 - 129)
Dibromofluoromethane	121	(81 - 128)
1,2-Dichloroethane-d4	116	(77 - 130)
4-Bromofluorobenzene	98	(58 - 144)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F3L040331 **Work Order #...:** F63FL1AA **Matrix.....:** SOLID
MB Lot-Sample #: F3L190000-149

Prep Date.....: 12/18/03 **Analysis Time..:** 12:36

Analysis Date..: 12/18/03 **Prep Batch #...:** 3353149
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
m-Xylene & p-Xylene	ND	250	ug/kg	SW846 8260B
Acetone	**420 J**	**1000**	**ug/kg**	**SW846 8260B**
Benzene	ND	250	ug/kg	SW846 8260B
Bromodichloromethane	ND	250	ug/kg	SW846 8260B
Bromoform	ND	250	ug/kg	SW846 8260B
Bromomethane	ND	500	ug/kg	SW846 8260B
Carbon disulfide	ND	250	ug/kg	SW846 8260B
Carbon tetrachloride	ND	250	ug/kg	SW846 8260B
Chlorobenzene	ND	250	ug/kg	SW846 8260B
Dibromochloromethane	ND	250	ug/kg	SW846 8260B
Chloroethane	ND	250	ug/kg	SW846 8260B
Chloroform	ND	250	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	250	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	250	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	250	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	250	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	250	ug/kg	SW846 8260B
1,2-Dichloroethene (total)	ND	500	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	250	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	250	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	250	ug/kg	SW846 8260B
Ethylbenzene	ND	250	ug/kg	SW846 8260B
2-Hexanone	ND	500	ug/kg	SW846 8260B
Methylene chloride	ND	250	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	1000	ug/kg	SW846 8260B
Styrene	ND	250	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	250	ug/kg	SW846 8260B
Tetrachloroethene	ND	250	ug/kg	SW846 8260B
Toluene	ND	250	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	250	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	250	ug/kg	SW846 8260B
Trichloroethene	ND	250	ug/kg	SW846 8260B
Vinyl chloride	ND	250	ug/kg	SW846 8260B
o-Xylene	ND	250	ug/kg	SW846 8260B
Xylenes (total)	ND	500	ug/kg	SW846 8260B
2-Butanone (MEK)	ND	1000	ug/kg	SW846 8260B
Chloromethane (Methyl Chl	ND	500	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F3L040331 **Work Order #...:** F63FL1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	99	(52 - 132)
Dibromofluoromethane	114	(61 - 130)
1,2-Dichloroethane-d4	120	(55 - 136)
4-Bromofluorobenzene	114	(47 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F3L040331 Work Order #...: F6T8Q1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: F3L170000-129 F6T8Q1AD-LCSD
Prep Date.....: 12/16/03 Analysis Date..: 12/16/03
Prep Batch #...: 3351129 Analysis Time..: 11:42
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
cis-1,3-Dichloropropene	102	(78 - 116)			SW846 8260B
	103	(78 - 116)	1.5	(0-20)	SW846 8260B
Dibromochloromethane	104	(84 - 122)			SW846 8260B
	106	(84 - 122)	1.5	(0-20)	SW846 8260B
Chloromethane (Methyl Chlo	85	(10 - 150)			SW846 8260B
	79	(10 - 150)	6.9	(0-20)	SW846 8260B
Vinyl chloride	86	(10 - 150)			SW846 8260B
	81	(10 - 150)	6.1	(0-20)	SW846 8260B
Bromomethane	91	(19 - 150)			SW846 8260B
	87	(19 - 150)	5.5	(0-20)	SW846 8260B
Chloroethane	91	(50 - 150)			SW846 8260B
	84	(50 - 150)	7.6	(0-20)	SW846 8260B
Acetone	93	(31 - 150)			SW846 8260B
	78	(31 - 150)	18	(0-20)	SW846 8260B
1,1-Dichloroethene	101	(73 - 136)			SW846 8260B
	97	(73 - 136)	4.1	(0-20)	SW846 8260B
Methylene chloride	92	(39 - 128)			SW846 8260B
	89	(39 - 128)	3.4	(0-20)	SW846 8260B
Carbon disulfide	117	(56 - 150)			SW846 8260B
	113	(56 - 150)	3.5	(0-20)	SW846 8260B
1,1-Dichloroethane	96	(76 - 118)			SW846 8260B
	96	(76 - 118)	0.39	(0-20)	SW846 8260B
2-Butanone (MEK)	107	(73 - 145)			SW846 8260B
	100	(73 - 145)	6.8	(0-20)	SW846 8260B
1,2-Dichloroethene (total)	103	(83 - 123)			SW846 8260B
	101	(83 - 123)	1.9	(0-20)	SW846 8260B
Chloroform	97	(85 - 120)			SW846 8260B
	97	(85 - 120)	0.16	(0-20)	SW846 8260B
1,1,1-Trichloroethane	93	(84 - 124)			SW846 8260B
	95	(84 - 124)	1.5	(0-20)	SW846 8260B
Carbon tetrachloride	94	(81 - 122)			SW846 8260B
	95	(81 - 122)	1.2	(0-20)	SW846 8260B
1,2-Dichloroethane	95	(78 - 116)			SW846 8260B
	96	(78 - 116)	1.8	(0-20)	SW846 8260B
Benzene	94	(81 - 115)			SW846 8260B
	96	(81 - 115)	1.7	(0-20)	SW846 8260B
Trichloroethene	95	(76 - 115)			SW846 8260B
	96	(76 - 115)	1.5	(0-20)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F3L040331 Work Order #...: F6T8Q1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: F3L170000-129 F6T8Q1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dichloropropane	98	(78 - 119)			SW846 8260B
	102	(78 - 119)	3.4	(0-20)	SW846 8260B
Bromodichloromethane	96	(85 - 120)			SW846 8260B
	97	(85 - 120)	1.0	(0-20)	SW846 8260B
1,1,2-Trichloroethane	98	(78 - 116)			SW846 8260B
	99	(78 - 116)	1.4	(0-20)	SW846 8260B
trans-1,3-Dichloropropene	106	(79 - 131)			SW846 8260B
	109	(79 - 131)	2.3	(0-20)	SW846 8260B
Toluene	94	(79 - 116)			SW846 8260B
	96	(79 - 116)	2.4	(0-20)	SW846 8260B
m-Xylene & p-Xylene	94	(83 - 115)			SW846 8260B
	96	(83 - 115)	2.1	(0-20)	SW846 8260B
o-Xylene	96	(85 - 117)			SW846 8260B
	99	(85 - 117)	2.8	(0-20)	SW846 8260B
2-Hexanone	99	(60 - 143)			SW846 8260B
	96	(60 - 143)	3.3	(0-20)	SW846 8260B
4-Methyl-2-pentanone	95	(34 - 124)			SW846 8260B
	97	(34 - 124)	1.5	(0-20)	SW846 8260B
Chlorobenzene	98	(85 - 115)			SW846 8260B
	100	(85 - 115)	1.5	(0-20)	SW846 8260B
Bromoform	106	(77 - 134)			SW846 8260B
	108	(77 - 134)	1.4	(0-20)	SW846 8260B
Ethylbenzene	94	(84 - 115)			SW846 8260B
	96	(84 - 115)	1.4	(0-20)	SW846 8260B
Styrene	99	(84 - 115)			SW846 8260B
	101	(84 - 115)	2.0	(0-20)	SW846 8260B
1,1,2,2-Tetrachloroethane	98	(72 - 122)			SW846 8260B
	99	(72 - 122)	1.5	(0-20)	SW846 8260B
Tetrachloroethene	89	(71 - 115)			SW846 8260B
	89	(71 - 115)	0.85	(0-20)	SW846 8260B
1,3-Dichlorobenzene	99	(84 - 116)			SW846 8260B
	101	(84 - 116)	2.0	(0-20)	SW846 8260B
1,4-Dichlorobenzene	97	(83 - 115)			SW846 8260B
	98	(83 - 115)	1.6	(0-20)	SW846 8260B
1,2-Dichlorobenzene	101	(84 - 119)			SW846 8260B
	102	(84 - 119)	1.4	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	112	(85 - 115)
	113	(85 - 115)
Dibromofluoromethane	115	(85 - 118)
	115	(85 - 118)
1,2-Dichloroethane-d4	114	(82 - 120)
	116	(82 - 120)

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F3L040331 **Work Order #...:** F6T8Q1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: F3L170000-129 F6T8Q1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	110	(79 - 120)
	111	(79 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F3L040331 Work Order #...: F63FL1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: F3L190000-149 F63FL1AD-LCSD
Prep Date.....: 12/18/03 Analysis Date..: 12/18/03
Prep Batch #...: 3353149 Analysis Time..: 11:04
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
cis-1,3-Dichloropropene	103	(81 - 114)			SW846 8260B
	103	(81 - 114)	0.66	(0-20)	SW846 8260B
Dibromochloromethane	89	(82 - 120)			SW846 8260B
	95	(82 - 120)	6.7	(0-20)	SW846 8260B
Chloromethane (Methyl Chlo	59	(10 - 150)			SW846 8260B
	45 p	(10 - 150)	26	(0-20)	SW846 8260B
Vinyl chloride	70	(10 - 150)			SW846 8260B
	58	(10 - 150)	19	(0-20)	SW846 8260B
Bromomethane	72	(10 - 127)			SW846 8260B
	62	(10 - 127)	16	(0-20)	SW846 8260B
Chloroethane	103	(13 - 150)			SW846 8260B
	81 p	(13 - 150)	24	(0-20)	SW846 8260B
Acetone	96	(31 - 150)			SW846 8260B
	70 p	(31 - 150)	31	(0-20)	SW846 8260B
1,1-Dichloroethene	115	(65 - 133)			SW846 8260B
	95	(65 - 133)	19	(0-20)	SW846 8260B
Methylene chloride	94	(48 - 124)			SW846 8260B
	95	(48 - 124)	0.50	(0-20)	SW846 8260B
Carbon disulfide	97	(55 - 143)			SW846 8260B
	99	(55 - 143)	2.3	(0-20)	SW846 8260B
1,1-Dichloroethane	97	(75 - 119)			SW846 8260B
	100	(75 - 119)	2.7	(0-20)	SW846 8260B
2-Butanone (MEK)	83	(71 - 150)			SW846 8260B
	83	(71 - 150)	0.090	(0-20)	SW846 8260B
1,2-Dichloroethene (total)	101	(80 - 123)			SW846 8260B
	102	(80 - 123)	1.3	(0-20)	SW846 8260B
Chloroform	98	(85 - 120)			SW846 8260B
	101	(85 - 120)	3.0	(0-20)	SW846 8260B
1,1,1-Trichloroethane	101	(81 - 123)			SW846 8260B
	104	(81 - 123)	2.8	(0-20)	SW846 8260B
Carbon tetrachloride	99	(76 - 121)			SW846 8260B
	104	(76 - 121)	4.9	(0-20)	SW846 8260B
1,2-Dichloroethane	100	(73 - 121)			SW846 8260B
	103	(73 - 121)	3.1	(0-20)	SW846 8260B
Benzene	91	(81 - 114)			SW846 8260B
	93	(81 - 114)	2.4	(0-20)	SW846 8260B
Trichloroethene	95	(76 - 115)			SW846 8260B
	97	(76 - 115)	2.2	(0-20)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F3L040331 Work Order #...: F63FL1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: F3L190000-149 F63FL1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dichloropropane	98	(79 - 120)			SW846 8260B
	101	(79 - 120)	3.4	(0-20)	SW846 8260B
1,1,2-Trichloroethane	83	(76 - 118)			SW846 8260B
	86	(76 - 118)	4.0	(0-20)	SW846 8260B
trans-1,3-Dichloropropene	93	(77 - 132)			SW846 8260B
	100	(77 - 132)	6.7	(0-20)	SW846 8260B
Toluene	88	(76 - 117)			SW846 8260B
	95	(76 - 117)	7.7	(0-20)	SW846 8260B
m-Xylene & p-Xylene	110	(82 - 115)			SW846 8260B
	112	(82 - 115)	1.5	(0-20)	SW846 8260B
o-Xylene	113	(84 - 118)			SW846 8260B
	114	(84 - 118)	1.0	(0-20)	SW846 8260B
2-Hexanone	78	(62 - 137)			SW846 8260B
	79	(62 - 137)	0.91	(0-20)	SW846 8260B
4-Methyl-2-pentanone	62	(33 - 117)			SW846 8260B
	59	(33 - 117)	5.0	(0-20)	SW846 8260B
Chlorobenzene	105	(85 - 115)			SW846 8260B
	109	(85 - 115)	3.0	(0-20)	SW846 8260B
Tetrachloroethene	78	(69 - 115)			SW846 8260B
	83	(69 - 115)	5.8	(0-20)	SW846 8260B
Ethylbenzene	106	(80 - 118)			SW846 8260B
	113	(80 - 118)	6.7	(0-20)	SW846 8260B
Xylenes (total)	111	(84 - 115)			SW846 8260B
	112	(84 - 115)	1.3	(0-20)	SW846 8260B
Styrene	114	(83 - 117)			SW846 8260B
	116	(83 - 117)	1.1	(0-20)	SW846 8260B
Bromoform	104	(76 - 131)			SW846 8260B
	106	(76 - 131)	1.9	(0-20)	SW846 8260B
1,1,2,2-Tetrachloroethane	109	(69 - 125)			SW846 8260B
	110	(69 - 125)	1.8	(0-20)	SW846 8260B
Bromodichloromethane	98	(84 - 120)			SW846 8260B
	99	(84 - 120)	1.2	(0-20)	SW846 8260B
Bromochloromethane	91	(80 - 124)			SW846 8260B
	96	(80 - 124)	5.1	(0-20)	SW846 8260B
1,3-Dichlorobenzene	105	(82 - 117)			SW846 8260B
	106	(82 - 117)	1.2	(0-20)	SW846 8260B
1,4-Dichlorobenzene	101	(80 - 114)			SW846 8260B
	103	(80 - 114)	1.8	(0-20)	SW846 8260B
1,2-Dichlorobenzene	103	(81 - 119)			SW846 8260B
	105	(81 - 119)	1.4	(0-20)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F3L040331 **Work Order #...:** F63FL1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: F3L190000-149 F63FL1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	95	(79 - 119)
	92	(79 - 119)
Dibromofluoromethane	104	(80 - 120)
	95	(80 - 120)
1,2-Dichloroethane-d4	109	(75 - 126)
	98	(75 - 126)
4-Bromofluorobenzene	108	(75 - 121)
	102	(75 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: F3L040331 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)		Work Order #: F54AW1AA	LCS Lot-Sample#: F3L050000-187		
	100	(99 - 101)	SW846 9045A	12/04/03	3339187
		Dilution Factor: 1	Analysis Time..: 00:00		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F3L040331 **Work Order #...:** F52F8-SMP F52F8-DUP **Matrix.....:** SOLID

Date Sampled...: 12/03/03 14:33 **Date Received..:** 12/04/03

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)						SD Lot-Sample #:	F3L040331-003	
	8.5	8.5	No Units	0.12	(0-30)	SW846 9045A	12/04/03	3339187

Dilution Factor: 1 Analysis Time..: 11:30

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F3L040331 **Work Order #...:** F521V-SMP F521V-DUP **Matrix.....:** SOLID

Date Sampled...: 12/03/03 10:00 **Date Received..:** 12/03/03

% Moisture.....: 20

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #:	F3L040405-001	
	19.5	18.8	%	3.6	(0-30)	MCAWW 160.3 MOD	12/09-12/10/03	3343619

Dilution Factor: 1 Analysis Time..: 00:00

Chain of Custody Record

-WR7657

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: The Forrester Group	Project Manager: Bob Kick	Date: 12-3-03	Chain of Custody Number: 120693
Address: 1605 N. Boonville Ave	Telephone Number (Area Code)/Fax Number: 417-864-6444 / 417-864-6445	Lab Number	Page 1 of 2
City: Springfield; State: MO; Zip Code: 65806	Site Contact	Lab Contact: Chet Schiebel	
Project Name and Location (State): Brenntag - Wichita KS	Carrier/Waybill Number: Fed Ex / 8425 9371 2285		
Contract/Purchase Order/Quote No.: 14770000			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	SO3 T-bottle kit	VOCs by 8260B	pH by 9045A	Hold	Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt
SSB-1A	12-3-03	14:33				X							1			X		4x40 (2 is for moisture.)
SSB-1B	12-3-03	14:33				X							1			X		↓
SSB-1P	12-3-03	14:33				X	1								X			120G
SSB-2A	12-3-03	15:03				X							1			X		↓
SSB-2B	12-3-03	15:03				X							1			X		
SSB-2P	12-3-03	15:03				X	1								X			120G
SSB-3A	12-3-03	15:43				X							1			X		↓
SSB-3B	12-3-03	15:43				X							1			X		
SSB-3P	12-3-03	15:43				X	1								X			120G
SSB-4A	12-3-03	16:07				X							1			X		↓
SSB-4B	12-3-03	16:07				X							1			X		
SSB-4C	12-3-03	16:25				X							1			X		

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [X] 14 Days [ ] 21 Days [ ] Other ____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Sandra L. Potts	12-3-03	18:15	1. Received By: Chain-of-custody sealed in cooler at Fed-Ex dropoff location	12-3-03	18:15
2. Relinquished By			2. Received By: [signature]	12.4.03	0900
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: The Forrester Group	Project Manager: Bob Kick	Date: 12-3-03	Chain of Custody Number: 120695
Address: 605 N Boonville Ave	Telephone Number (Area Code)/Fax Number: 417-864-6444 / 417-864-6445	Lab Number	Page 2 of 2
City: Springfield; State: MO; Zip Code: 65806	Site Contact	Lab Contact: Chet Schiebel	
Project Name and Location (State): Brentay - Wichita, KS	Carrier/Waybill Number: Fed Ex / 8425 9371 2285		
Contract/Purchase Order/Quote No.: 14770000			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): pH by 9045A	Special Instructions/ Conditions of Receipt
SSB-4P	12-3-03	16:07				X	1						X	120G

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [X] 14 Days [ ] 21 Days [ ] Other ____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Sandra L. Potts	12-3-03	18:15	1. Received By: Chain-of-custody sealed in cooler at Fed-Ex drop off location	12-3-03	18:15
2. Relinquished By			2. Received By: [signature]	12.4.03	0900
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: The Forrester Group	Project Manager: Bob Kick	Date: 12-3-03	Chain of Custody Number: 120691
Address: 605 N Boonville	Telephone Number (Area Code)/Fax Number: 417-864-6444 / Fax 417-864-6445	Lab Number	Page 1 of 1
City: Springfield State: MO Zip Code: 65806	Site Contact	Lab Contact: Chet Schiebel	
Project Name and Location (State): Brennan - Wichita, KS	Carrier/Waybill Number: ~~[illegible]~~ SLP Fed Ex / 8425 9371 2296		
Contract/Purchase Order/Quote No.: 14770000			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Tedlar kit	VOCs by 8260B	pH by 9045A											Special Instructions/ Conditions of Receipt
NSB-2	12-2-03	8:50				X							1	X			4x40									
NSB-2P	12-3-03	8:50				X	1								X						1206					
NSB-4	12-3-03	9:24				X							1	X			↓									
NSB-4P	12-3-03	9:24				X	1								X						↓					
NSB-6A	12-3-03	9:55				X							1	X			↓									sample effervessed in sodium bi-sulfate
NSB-6B	12-3-03	10:12				X							1	X			↓									
NSB-6P	12-3-03	10:12				X	1								X						↓					
NSB-7	12-3-03	10:34				X							1	X			↓									
NSB-7P	12-3-03	10:34				X	1								X						↓					
NSB-8	12-3-03	10:47				X							1	X			↓									
NSB-8P	12-3-03	10:47				X	1								X						↓					

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [X] 14 Days [ ] 21 Days [ ] Other ____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Sandra L. Potter	12-3-03	18:15	1. Received By: Chain-of-Custody sealed in cooler at Fed Ex drop off location	12-3-03	18:15
2. Relinquished By			2. Received By: [signature]	12-4-03	0900
3. Relinquished By			3. Received By		

Comments: [redacted]

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Scheibel, Chester

From: Shiloh Kirkland [shiloh@forrestergroup.com]
Sent: Friday, December 05, 2003 5:20 PM
To: Scheibel, Chester
Cc: Bob Kick; Mannz, Rich
Subject: Additional Instructions for Brenntag soil samples

Hi Chet,

Regarding the VOC soil samples we sent to you this week and requested "HOLD":

Please analyze the following samples for VOCs by 8260B:

- SSB-1B
- SSB-3B
- SSB-4C
- SSB-6A
- SSB-6C
- SSB-7B
- SSB-8B
- SSB-9A
- SSB-9C
- SSB-10B
- SSB-11B
- SSB-12B
- SSB-13C
- SSB-15B
- DUP-1_031204

These samples are on the following Chain-of-Custody:

- COC #120693 and #120695 dated 12-3-03
- COC #120696, #120694, #120697, and #120707 dated 12-4-03

Please continue to hold the other samples. We will let you know early next week what to do with them. Let me or Bob Kick know if you have any questions.

Thank you.

Shiloh Kirkland

SHILOH KIRKLAND
ASSOCIATE
p 417.864.6444 ext 25
shiloh@forrestergroup.com

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SEVERN TRENT STL

STL St. Louis
13715 Rider Trail North
Earth City, MO 63045

Tel: 314 298 8566 Fax: 314 298 8757
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 14770000

Brenntag

Lot #: F3L050118
SDG #: GBD-4

Kim Adams

The Forrester Group
605 North Boonville Avenue
Springfield, MO 65806

SEVERN TRENT LABORATORIES, INC.

Chet Scheibel
Project Manager

December 16, 2003

Case Narrative
LOT NUMBER: **F3L050118**
SDG: GBD-4

This report contains the analytical results for the six samples received under chain of custody by STL St. Louis on December 4, 2003. These samples are associated with your Brenntag project.

All applicable quality control procedures met method-specified acceptance criteria except as described below.

This report is incomplete without the case narrative.

Observations/Nonconformances

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

Volatiles by SW846 8260B

1. The LCS/LCSD RPD is not within method acceptance criteria. LCS/LCSD recoveries are within QC limits demonstrating good extraction performance in the sample matrix.

2. The CCV %D for Acrolein and Cyclohexanone is outside the established QC limits. This analyte is not part of the analysis request and thus this excursion does not effect the data. No further action is required. Sample results are reported.

Affected Samples:
F3L050118 (1): GBD-4
F3L050118 (2): GBS-4
F3L050118 (3): GBD-5
F3L050118 (4): GBS-5
F3L050118 (5): EB-1-031203
F3L050118 (6): TB-1-031203

METHODS SUMMARY

F3L050118

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
pH Aqueous	SW846 9040	SW846 9040
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

F3L050118

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
F53E0	001	GBD-4	12/03/03	13:35
F53FG	002	GBS-4	12/03/03	13:55
F53FH	003	GBD-5	12/03/03	11:45
F53FK	004	GBS-5	12/03/03	12:13
F53FW	005	EB-1-031203	12/03/03	12:30
F53FX	006	TB-1-031203	12/03/03	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

THE FORRESTER GROUP

Client Sample ID: GBD-4

GC/MS Volatiles

Lot-Sample #...: F3L050118-001 **Work Order #...:** F53E01AA **Matrix.....:** WATER
Date Sampled...: 12/03/03 13:35 **Date Received..:** 12/04/03
Prep Date.....: 12/12/03 **Analysis Date..:** 12/12/03
Prep Batch #...: 3347182 **Analysis Time..:** 14:20
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	**87 E**	**1.0**	**ug/L**
trans-1,2-Dichloroethene	**3.8**	**1.0**	**ug/L**
o-Xylene	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
2-Butanone (MEK)	**2.2 J**	**5.0**	**ug/L**
Xylenes (total)	ND	3.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**120 E**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**0.60 J**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	**0.78 J**	**1.0**	**ug/L**
Toluene	**0.42 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	**3.2**	**2.0**	**ug/L**
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	2.0	ug/L
Carbon disulfide	**1.3**	**1.0**	**ug/L**
1,1-Dichloroethene	**1.2**	**1.0**	**ug/L**
1,1-Dichloroethane	**1.9**	**1.0**	**ug/L**
1,2-Dichloroethene (total)	**91 E**	**2.0**	**ug/L**
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	**0.62 J**	**1.0**	**ug/L**
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L

(Continued on next page)

THE FORRESTER GROUP

Client Sample ID: GBD-4

GC/MS Volatiles

Lot-Sample #...: F3L050118-001 **Work Order #...:** F53E01AA **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	100	(85 - 116)
Dibromofluoromethane	106	(83 - 125)
1,2-Dichloroethane-d4	102	(81 - 122)
4-Bromofluorobenzene	105	(82 - 118)

NOTE(S):

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: GBD-4

GC/MS Volatiles

Lot-Sample #...: F3L050118-001 **Work Order #...:** F53E02AA **Matrix.....:** WATER
Date Sampled...: 12/03/03 13:35 **Date Received..:** 12/04/03
Prep Date.....: 12/12/03 **Analysis Date..:** 12/12/03
Prep Batch #...: 3347182 **Analysis Time..:** 16:30
Dilution Factor: 5

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	**93 D**	**5.0**	**ug/L**
trans-1,2-Dichloroethene	**3.6 J**	**5.0**	**ug/L**
o-Xylene	ND	5.0	ug/L
m-Xylene & p-Xylene	ND	10	ug/L
2-Butanone (MEK)	ND	25	ug/L
Xylenes (total)	ND	15	ug/L
1,2-Dichloropropane	ND	5.0	ug/L
cis-1,3-Dichloropropene	ND	5.0	ug/L
Trichloroethene	**170 D**	**5.0**	**ug/L**
Dibromochloromethane	ND	5.0	ug/L
1,1,2-Trichloroethane	ND	5.0	ug/L
Benzene	**0.51 J**	**5.0**	**ug/L**
trans-1,3-Dichloropropene	ND	5.0	ug/L
Bromoform	ND	5.0	ug/L
4-Methyl-2-pentanone	ND	25	ug/L
2-Hexanone	ND	25	ug/L
Tetrachloroethene	**2.0 J**	**5.0**	**ug/L**
Toluene	ND	5.0	ug/L
Chlorobenzene	ND	5.0	ug/L
Ethylbenzene	ND	5.0	ug/L
Styrene	ND	5.0	ug/L
Chloromethane	ND	10	ug/L
Bromomethane	**4.4 J**	**10**	**ug/L**
Vinyl chloride	**2.8 J**	**10**	**ug/L**
Chloroethane	ND	10	ug/L
Methylene chloride	ND	5.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	5.0	ug/L
1,1-Dichloroethene	**1.1 J**	**5.0**	**ug/L**
1,1-Dichloroethane	**1.7 J**	**5.0**	**ug/L**
1,2-Dichloroethene (total)	**97 D**	**10**	**ug/L**
Chloroform	ND	5.0	ug/L
1,2-Dichloroethane	**0.69 J**	**5.0**	**ug/L**
1,1,1-Trichloroethane	ND	5.0	ug/L
Carbon tetrachloride	ND	5.0	ug/L
Bromodichloromethane	ND	5.0	ug/L
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L

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THE FORRESTER GROUP

Client Sample ID: GBD-4

GC/MS Volatiles

Lot-Sample #...: F3L050118-001 **Work Order #...:** F53E02AA **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	100	(85 - 116)
Dibromofluoromethane	105	(83 - 125)
1,2-Dichloroethane-d4	95	(81 - 122)
4-Bromofluorobenzene	106	(82 - 118)

NOTE(S):

D Result was obtained from the analysis of a dilution.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: GBD-4

General Chemistry

Lot-Sample #...: F3L050118-001 Work Order #...: F53E0 Matrix.....: WATER
Date Sampled...: 12/03/03 13:35 Date Received..: 12/04/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)	7.6		No Units	SW846 9040	12/04/03	3339186

Dilution Factor: 1 Analysis Time...: 00:00

THE FORRESTER GROUP

Client Sample ID: GBS-4

GC/MS Volatiles

Lot-Sample #...: F3L050118-002 **Work Order #...:** F53FG1AA **Matrix.....:** WATER
Date Sampled...: 12/03/03 13:55 **Date Received..:** 12/04/03
Prep Date.....: 12/12/03 **Analysis Date..:** 12/12/03
Prep Batch #...: 3347182 **Analysis Time..:** 14:53
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	**0.54 J**	**1.0**	**ug/L**
trans-1,2-Dichloroethene	ND	1.0	ug/L
o-Xylene	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
2-Butanone (MEK)	ND	5.0	ug/L
Xylenes (total)	ND	3.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**13**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**0.16 J**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	**23**	**1.0**	**ug/L**
Toluene	**0.71 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	**0.30 J**	**1.0**	**ug/L**
Styrene	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
Bromomethane	**1.5 J**	**2.0**	**ug/L**
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	2.0	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	**0.54 J**	**2.0**	**ug/L**
Chloroform	**0.34 J**	**1.0**	**ug/L**
1,2-Dichloroethane	**0.098 J**	**1.0**	**ug/L**
1,1,1-Trichloroethane	**2.8**	**1.0**	**ug/L**
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L

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THE FORRESTER GROUP

Client Sample ID: GBS-4

GC/MS Volatiles

Lot-Sample #...: F3L050118-002 **Work Order #...:** F53FG1AA **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	94	(85 - 116)
Dibromofluoromethane	97	(83 - 125)
1,2-Dichloroethane-d4	93	(81 - 122)
4-Bromofluorobenzene	98	(82 - 118)

NOTE(S):

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: GBS-4

General Chemistry

Lot-Sample #...: F3L050118-002 **Work Order #...:** F53FG **Matrix.....:** WATER
Date Sampled...: 12/03/03 13:55 **Date Received..:** 12/04/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)	**7.4**		**No Units**	**SW846 9040**	**12/04/03**	**3339186**

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: GBD-5

GC/MS Volatiles

Lot-Sample #...: F3L050118-003 **Work Order #...:** F53FH1AA **Matrix.....:** WATER
Date Sampled...: 12/03/03 11:45 **Date Received..:** 12/04/03
Prep Date.....: 12/12/03 **Analysis Date..:** 12/12/03
Prep Batch #...: 3347182 **Analysis Time..:** 15:25
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	**160 E**	**1.0**	**ug/L**
trans-1,2-Dichloroethene	**7.4**	**1.0**	**ug/L**
o-Xylene	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
2-Butanone (MEK)	ND	5.0	ug/L
Xylenes (total)	ND	3.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**76 E**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**0.57 J**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	**0.59 J**	**1.0**	**ug/L**
Toluene	**0.32 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	**4.7**	**2.0**	**ug/L**
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	2.0	ug/L
Carbon disulfide	**1.7**	**1.0**	**ug/L**
1,1-Dichloroethene	**2.5**	**1.0**	**ug/L**
1,1-Dichloroethane	**1.9**	**1.0**	**ug/L**
1,2-Dichloroethene (total)	**160 E**	**2.0**	**ug/L**
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	**6.8**	**1.0**	**ug/L**
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L

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THE FORRESTER GROUP

Client Sample ID: GBD-5

GC/MS Volatiles

Lot-Sample #...: F3L050118-003 **Work Order #...:** F53FH1AA **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	97	(85 - 116)
Dibromofluoromethane	102	(83 - 125)
1,2-Dichloroethane-d4	95	(81 - 122)
4-Bromofluorobenzene	105	(82 - 118)

NOTE(S):

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: GBD-5

GC/MS Volatiles

Lot-Sample #...: F3L050118-003 **Work Order #...:** F53FH2AA **Matrix.....:** WATER
Date Sampled...: 12/03/03 11:45 **Date Received..:** 12/04/03
Prep Date.....: 12/12/03 **Analysis Date..:** 12/12/03
Prep Batch #...: 3347182 **Analysis Time..:** 17:03
Dilution Factor: 10

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	**220 D**	**10**	**ug/L**
trans-1,2-Dichloroethene	**6.5 J**	**10**	**ug/L**
o-Xylene	ND	10	ug/L
m-Xylene & p-Xylene	ND	20	ug/L
2-Butanone (MEK)	ND	50	ug/L
Xylenes (total)	ND	30	ug/L
1,2-Dichloropropane	ND	10	ug/L
cis-1,3-Dichloropropene	ND	10	ug/L
Trichloroethene	**88 D**	**10**	**ug/L**
Dibromochloromethane	ND	10	ug/L
1,1,2-Trichloroethane	ND	10	ug/L
Benzene	ND	10	ug/L
trans-1,3-Dichloropropene	ND	10	ug/L
Bromoform	ND	10	ug/L
4-Methyl-2-pentanone	ND	50	ug/L
2-Hexanone	ND	50	ug/L
Tetrachloroethene	ND	10	ug/L
Toluene	ND	10	ug/L
Chlorobenzene	ND	10	ug/L
Ethylbenzene	ND	10	ug/L
Styrene	ND	10	ug/L
Chloromethane	ND	20	ug/L
Bromomethane	ND	20	ug/L
Vinyl chloride	**3.7 J**	**20**	**ug/L**
Chloroethane	ND	20	ug/L
Methylene chloride	ND	10	ug/L
Acetone	ND	20	ug/L
Carbon disulfide	ND	10	ug/L
1,1-Dichloroethene	**2.0 J**	**10**	**ug/L**
1,1-Dichloroethane	ND	10	ug/L
1,2-Dichloroethene (total)	**220 D**	**20**	**ug/L**
Chloroform	ND	10	ug/L
1,2-Dichloroethane	**7.0 J**	**10**	**ug/L**
1,1,1-Trichloroethane	ND	10	ug/L
Carbon tetrachloride	ND	10	ug/L
Bromodichloromethane	ND	10	ug/L
1,1,2,2-Tetrachloroethane	ND	10	ug/L

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THE FORRESTER GROUP

Client Sample ID: GBD-5

GC/MS Volatiles

Lot-Sample #...: F3L050118-003 **Work Order #...:** F53FH2AA **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	96	(85 - 116)
Dibromofluoromethane	105	(83 - 125)
1,2-Dichloroethane-d4	94	(81 - 122)
4-Bromofluorobenzene	103	(82 - 118)

NOTE(S):

D Result was obtained from the analysis of a dilution.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: GBD-5

General Chemistry

Lot-Sample #...: F3L050118-003 **Work Order #...:** F53FH **Matrix.....:** WATER
Date Sampled...: 12/03/03 11:45 **Date Received..:** 12/04/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)	**7.2**		**No Units**	**SW846 9040**	**12/04/03**	**3339186**

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: GBS-5

GC/MS Volatiles

Lot-Sample #...: F3L050118-004 **Work Order #...:** F53FK1AA **Matrix.....:** WATER
Date Sampled...: 12/03/03 12:13 **Date Received..:** 12/04/03
Prep Date.....: 12/12/03 **Analysis Date..:** 12/12/03
Prep Batch #...: 3347182 **Analysis Time..:** 15:58
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	**130 E**	**1.0**	**ug/L**
trans-1,2-Dichloroethene	**2.3**	**1.0**	**ug/L**
o-Xylene	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
2-Butanone (MEK)	ND	5.0	ug/L
Xylenes (total)	ND	3.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**65 E**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**0.20 J**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	**180 E**	**1.0**	**ug/L**
Toluene	**0.35 J**	**1.0**	**ug/L**
Chlorobenzene	**0.46 J**	**1.0**	**ug/L**
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Chloromethane	**0.92 J**	**2.0**	**ug/L**
Bromomethane	**1.8 J**	**2.0**	**ug/L**
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	2.0	ug/L
Carbon disulfide	**0.72 J**	**1.0**	**ug/L**
1,1-Dichloroethene	**1.9**	**1.0**	**ug/L**
1,1-Dichloroethane	**27**	**1.0**	**ug/L**
1,2-Dichloroethene (total)	**130 E**	**2.0**	**ug/L**
Chloroform	**1.3**	**1.0**	**ug/L**
1,2-Dichloroethane	**1.4**	**1.0**	**ug/L**
1,1,1-Trichloroethane	**2.0**	**1.0**	**ug/L**
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L

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THE FORRESTER GROUP

Client Sample ID: GBS-5

GC/MS Volatiles

Lot-Sample #...: F3L050118-004 **Work Order #...:** F53FK1AA **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	103	(85 - 116)
Dibromofluoromethane	109	(83 - 125)
1,2-Dichloroethane-d4	104	(81 - 122)
4-Bromofluorobenzene	108	(82 - 118)

NOTE(S):

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: GBS-5

GC/MS Volatiles

Lot-Sample #...: F3L050118-004 **Work Order #...:** F53FK2AA **Matrix.....:** WATER
Date Sampled...: 12/03/03 12:13 **Date Received..:** 12/04/03
Prep Date.....: 12/12/03 **Analysis Date..:** 12/12/03
Prep Batch #...: 3347182 **Analysis Time..:** 17:40
Dilution Factor: 10

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	**130 D**	**10**	**ug/L**
trans-1,2-Dichloroethene	ND	10	ug/L
o-Xylene	ND	10	ug/L
m-Xylene & p-Xylene	ND	20	ug/L
2-Butanone (MEK)	ND	50	ug/L
Xylenes (total)	ND	30	ug/L
1,2-Dichloropropane	ND	10	ug/L
cis-1,3-Dichloropropene	ND	10	ug/L
Trichloroethene	**57 D**	**10**	**ug/L**
Dibromochloromethane	ND	10	ug/L
1,1,2-Trichloroethane	ND	10	ug/L
Benzene	ND	10	ug/L
trans-1,3-Dichloropropene	ND	10	ug/L
Bromoform	ND	10	ug/L
4-Methyl-2-pentanone	ND	50	ug/L
2-Hexanone	ND	50	ug/L
Tetrachloroethene	**240 D**	**10**	**ug/L**
Toluene	ND	10	ug/L
Chlorobenzene	ND	10	ug/L
Ethylbenzene	ND	10	ug/L
Styrene	ND	10	ug/L
Chloromethane	**7.8 J**	**20**	**ug/L**
Bromomethane	**20**	**20**	**ug/L**
Vinyl chloride	ND	20	ug/L
Chloroethane	ND	20	ug/L
Methylene chloride	ND	10	ug/L
Acetone	ND	20	ug/L
Carbon disulfide	ND	10	ug/L
1,1-Dichloroethene	ND	10	ug/L
1,1-Dichloroethane	**21**	**10**	**ug/L**
1,2-Dichloroethene (total)	**130 D**	**20**	**ug/L**
Chloroform	**1.1 J**	**10**	**ug/L**
1,2-Dichloroethane	**1.6 J**	**10**	**ug/L**
1,1,1-Trichloroethane	ND	10	ug/L
Carbon tetrachloride	ND	10	ug/L
Bromodichloromethane	ND	10	ug/L
1,1,2,2-Tetrachloroethane	ND	10	ug/L

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THE FORRESTER GROUP

Client Sample ID: GBS-5

GC/MS Volatiles

Lot-Sample #...: F3L050118-004 **Work Order #...:** F53FK2AA **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	94	(85 - 116)
Dibromofluoromethane	99	(83 - 125)
1,2-Dichloroethane-d4	92	(81 - 122)
4-Bromofluorobenzene	100	(82 - 118)

NOTE(S):

D Result was obtained from the analysis of a dilution.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: GBS-5

General Chemistry

Lot-Sample #...: F3L050118-004 **Work Order #...:** F53FK **Matrix.....:** WATER
Date Sampled...: 12/03/03 12:13 **Date Received..:** 12/04/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)	**7.3**		**No Units**	**SW846 9040**	**12/04/03**	**3339186**

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: EB-1-031203

GC/MS Volatiles

Lot-Sample #...: F3L050118-005 **Work Order #...:** F53FW1AA **Matrix.....:** WATER
Date Sampled...: 12/03/03 12:30 **Date Received..:** 12/04/03
Prep Date.....: 12/12/03 **Analysis Date..:** 12/12/03
Prep Batch #...: 3347182 **Analysis Time..:** 13:15
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
o-Xylene	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
2-Butanone (MEK)	ND	5.0	ug/L
Xylenes (total)	ND	3.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	**0.37 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**6.4**	**2.0**	**ug/L**
Carbon disulfide	**0.87 J**	**1.0**	**ug/L**
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	2.0	ug/L
Chloroform	**0.33 J**	**1.0**	**ug/L**
1,2-Dichloroethane	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L

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THE FORRESTER GROUP

Client Sample ID: EB-1-031203

GC/MS Volatiles

Lot-Sample #...: F3L050118-005 **Work Order #...:** F53FW1AA **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	95	(85 - 116)
Dibromofluoromethane	92	(83 - 125)
1,2-Dichloroethane-d4	88	(81 - 122)
4-Bromofluorobenzene	100	(82 - 118)

NOTE(S):

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: TB-1-031203

GC/MS Volatiles

Lot-Sample #...: F3L050118-006 **Work Order #...:** F53FX1AA **Matrix.....:** WATER
Date Sampled...: 12/03/03 **Date Received..:** 12/04/03
Prep Date.....: 12/12/03 **Analysis Date..:** 12/12/03
Prep Batch #...: 3347182 **Analysis Time..:** 13:48
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
o-Xylene	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
2-Butanone (MEK)	ND	5.0	ug/L
Xylenes (total)	ND	3.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**1.9 J**	**2.0**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	2.0	ug/L
Chloroform	**1.4**	**1.0**	**ug/L**
1,2-Dichloroethane	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L

(Continued on next page)

THE FORRESTER GROUP

Client Sample ID: TB-1-031203

GC/MS Volatiles

Lot-Sample #...: F3L050118-006 **Work Order #...:** F53FX1AA **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	96	(85 - 116)
Dibromofluoromethane	98	(83 - 125)
1,2-Dichloroethane-d4	94	(81 - 122)
4-Bromofluorobenzene	101	(82 - 118)

NOTE(S):

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F3L050118 **Work Order #...:** F6NLV1AA **Matrix.....:** WATER
MB Lot-Sample #: F3L130000-182

Prep Date.....: 12/12/03 **Analysis Time..:** 09:27
Analysis Date..: 12/12/03 **Prep Batch #...:** 3347182
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2-Butanone (MEK)	ND	5.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	2.0	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Acetone	ND	2.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F3L050118 **Work Order #...:** F6NLV1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	100	(85 - 116)
Dibromofluoromethane	100	(83 - 125)
1,2-Dichloroethane-d4	98	(81 - 122)
4-Bromofluorobenzene	106	(82 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F3L050118 Work Order #...: F6NLV1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: F3L130000-182 F6NLV1AD-LCSD
Prep Date.....: 12/12/03 Analysis Date..: 12/12/03
Prep Batch #...: 3347182 Analysis Time..: 10:00
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2-Butanone (MEK)	98	(53 - 137)			SW846 8260B
	76 p	(53 - 137)	26	(0-20)	SW846 8260B
m-Xylene & p-Xylene	102	(85 - 117)			SW846 8260B
	104	(85 - 117)	2.9	(0-20)	SW846 8260B
o-Xylene	99	(85 - 117)			SW846 8260B
	102	(85 - 117)	3.1	(0-20)	SW846 8260B
1,2-Dichloropropane	101	(80 - 118)			SW846 8260B
	94	(80 - 118)	6.8	(0-20)	SW846 8260B
cis-1,3-Dichloropropene	106	(76 - 119)			SW846 8260B
	97	(76 - 119)	8.9	(0-20)	SW846 8260B
Trichloroethene	98	(76 - 118)			SW846 8260B
	96	(76 - 118)	2.4	(0-20)	SW846 8260B
Dibromochloromethane	110	(85 - 124)			SW846 8260B
	100	(85 - 124)	10	(0-20)	SW846 8260B
1,1,2-Trichloroethane	105	(80 - 114)			SW846 8260B
	92	(80 - 114)	14	(0-20)	SW846 8260B
Benzene	97	(85 - 115)			SW846 8260B
	94	(85 - 115)	3.3	(0-20)	SW846 8260B
trans-1,3-Dichloropropene	124	(83 - 131)			SW846 8260B
	107	(83 - 131)	15	(0-20)	SW846 8260B
Bromoform	104	(73 - 135)			SW846 8260B
	93	(73 - 135)	12	(0-20)	SW846 8260B
4-Methyl-2-pentanone	98	(46 - 147)			SW846 8260B
	84	(46 - 147)	16	(0-20)	SW846 8260B
2-Hexanone	104	(50 - 150)			SW846 8260B
	85	(50 - 150)	20	(0-20)	SW846 8260B
Tetrachloroethene	102	(72 - 118)			SW846 8260B
	101	(72 - 118)	1.1	(0-20)	SW846 8260B
Toluene	105	(85 - 115)			SW846 8260B
	102	(85 - 115)	3.0	(0-20)	SW846 8260B
Chlorobenzene	101	(85 - 115)			SW846 8260B
	101	(85 - 115)	0.69	(0-20)	SW846 8260B
Ethylbenzene	99	(85 - 116)			SW846 8260B
	102	(85 - 116)	3.1	(0-20)	SW846 8260B
Styrene	101	(85 - 118)			SW846 8260B
	100	(85 - 118)	0.89	(0-20)	SW846 8260B
Chloromethane	96	(10 - 150)			SW846 8260B
	93	(10 - 150)	2.9	(0-20)	SW846 8260B
Bromomethane	59	(10 - 150)			SW846 8260B
	81 p	(10 - 150)	31	(0-20)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F3L050118 Work Order #...: F6NLV1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: F3L130000-182 F6NLV1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Vinyl chloride	93	(10 - 150)			SW846 8260B
	97	(10 - 150)	4.1	(0-20)	SW846 8260B
Chloroethane	88	(46 - 150)			SW846 8260B
	90	(46 - 150)	2.3	(0-20)	SW846 8260B
Methylene chloride	77	(21 - 135)			SW846 8260B
	71	(21 - 135)	8.1	(0-20)	SW846 8260B
Acetone	101	(25 - 150)			SW846 8260B
	72 p	(25 - 150)	33	(0-20)	SW846 8260B
Carbon disulfide	122	(47 - 150)			SW846 8260B
	123	(47 - 150)	1.1	(0-20)	SW846 8260B
1,1-Dichloroethene	102	(57 - 146)			SW846 8260B
	105	(57 - 146)	2.4	(0-20)	SW846 8260B
1,1-Dichloroethane	100	(80 - 116)			SW846 8260B
	96	(80 - 116)	4.7	(0-20)	SW846 8260B
1,2-Dichloroethene (total)	106	(84 - 120)			SW846 8260B
	102	(84 - 120)	3.8	(0-20)	SW846 8260B
Chloroform	99	(85 - 117)			SW846 8260B
	93	(85 - 117)	6.6	(0-20)	SW846 8260B
1,2-Dichloroethane	98	(78 - 116)			SW846 8260B
	89	(78 - 116)	9.4	(0-20)	SW846 8260B
1,1,1-Trichloroethane	102	(82 - 128)			SW846 8260B
	101	(82 - 128)	1.4	(0-20)	SW846 8260B
Carbon tetrachloride	103	(75 - 137)			SW846 8260B
	103	(75 - 137)	0.090	(0-20)	SW846 8260B
Bromodichloromethane	98	(85 - 123)			SW846 8260B
	91	(85 - 123)	7.6	(0-20)	SW846 8260B
1,1,2,2-Tetrachloroethane	99	(74 - 123)			SW846 8260B
	92	(74 - 123)	7.2	(0-20)	SW846 8260B
1,3-Dichlorobenzene	104	(85 - 115)			SW846 8260B
	104	(85 - 115)	0.19	(0-20)	SW846 8260B
1,4-Dichlorobenzene	101	(85 - 115)			SW846 8260B
	100	(85 - 115)	1.1	(0-20)	SW846 8260B
1,2-Dichlorobenzene	102	(85 - 115)			SW846 8260B
	100	(85 - 115)	2.1	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	102	(85 - 115)
	103	(85 - 115)
Dibromofluoromethane	100	(85 - 121)
	98	(85 - 121)
1,2-Dichloroethane-d4	97	(83 - 119)
	89	(83 - 119)

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F3L050118 **Work Order #...:** F6NLV1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: F3L130000-182 F6NLV1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	108	(84 - 117)
	107	(84 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: F3L050118 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)		Work Order #: F54AN1AA	LCS Lot-Sample#: F3L050000-186		
	100	(99 - 101)	SW846 9040	12/04/03	3339186

Dilution Factor: 1 Analysis Time..: 00:00

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

F3L050118

CLIENT ANALYSIS SUMMARY

Storage Loc: T190,VL3

Project Manager: CDS | Quote #: 56001 | SDG: GBD-4

Date Received: 2003-12-04

Project: 14770000 | Brenntag

Analytical Due Date: 2003-12-16

PO#: | Report to: Kim Adams

Report Due Date: 2003-12-18

Client: 111552 THE FORRESTER GROUP

Report Type: D2 xp Deliv - CD & Hardcopy

#SMPS in LOT: 6

EDD Code: 99

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	I
1	GBD-4	2003-12-03 / 1335	F53E0	WATER

SAMPLE COMMENTS:

XX QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
XX FJ	SW846 9040	pH (9040) - Aqueous	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	I
2	GBS-4	2003-12-03 / 1355	F53FG	WATER

SAMPLE COMMENTS:

XX QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
XX FJ	SW846 9040	pH (9040) - Aqueous	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	I
3	GBD-5	2003-12-03 / 1145	F53FH	WATER

SAMPLE COMMENTS:

XX QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
XX FJ	SW846 9040	pH (9040) - Aqueous	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	I
4	GBS-5	2003-12-03 / 1213	F53FK	WATER

SAMPLE COMMENTS:

XX QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
XX FJ	SW846 9040	pH (9040) - Aqueous	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	I
5	EB-1-031203	2003-12-03 / 1230	F53FW	WATER

SAMPLE COMMENTS:

XX QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	I
6	TB-1-031203	2003-12-03 / 0	F53FX	WATER

SAMPLE COMMENTS:

XX QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: The Forrester Group	Project Manager: Bob Kick	Date: 12-3-03	Chain of Custody Number: 120692
Address: 605 N. Boonville Ave	Telephone Number (Area Code)/Fax Number: 417-864-6444 / fax 864-6445	Lab Number	Page 1 of 1
City: Springfield; State: MO; Zip Code: 65806	Site Contact	Lab Contact: Chet Schiebel	
Project Name and Location (State): Brenntag - Wichita KS	Carrier/Waybill Number: FedEx 842593712300		
Contract/Purchase Order/Quote No: 14770000			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	VOCs by 8240B	pH by SW846-9040B	Special Instructions/ Conditions of Receipt
GBD-4	12-3-03	13:35		X			1			2			X	X	2x40, 125P
GBS-4	12-3-03	13:55		X			1			2			X	X	
GBD-5	12-3-03	11:45		X			1			2			X	X	
GBS-5	12-3-03	12:13		X			1			2			X	X	
EB-1-031203	12-3-03	12:30		X						2			X		
TB-1-031203	12-3-03	—		X						2			X		

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [X] 14 Days [ ] 21 Days [X] Other Level IV Report within 21 days

QC Requirements (Specify)

1. Relinquished By: Sandra L. Pette	Date: 12-3-03	Time: 18:15	1. Received By: Chain-of-Custody sealed in cooler when dropped at Fed Ex	Date: 12-3-03	Time: 18:15
2. Relinquished By	Date	Time	2. Received By: [signature]	Date: 12-4-03	Time: 0900
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: Level IV Report

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

SEVERN TRENT STL

F3L050118

Lot No.: ~~F3L040331~~

842593712296

Condition Upon Receipt Form
St. Louis Laboratory

Client: The Forrester Group

Date: 12-4-03 Time: 0900

Quote No: 56001 842593712285

Initiated by: SV

Shipper/No: FedX 842593712300

COC/RFA Numbers: 120623, 120695

Condition/Variance (Circle "Y" for yes and "N" for no. If "N" is circled, see notes for explanation):

1.	Y N	Sample received in undamaged condition.	5.	Y N	Sample volume sufficient for analysis.
2.	Y N	Sample received within 4°C ± 2°C*	6.	Y N	Sample received with Chain of Custody
		Record temperature: 3°, 2°, 3°	7.	Y N	Chain of Custody matches sample IDs on containers
3.	Y N N/A	Sample received with proper pH**.	8.	Y N	Custody seal received intact and tamper evident on cooler
4.	Y N	Sample received in proper containers.	9.	Y N	Custody seal received intact and tamper evident on bottles

* Temperature Variance Does Not Affect the Following Analyses: _____

** For DOE-AL (Pantex, LANL, Sandia, Timet) sites, remember to pH all containers received, except for VOA, TOX, and soils.

Notes:

Corrective Action:

☐ Client's Name: _____ Informed verbally on: _____ By: _____

☐ Client's Name: _____ Informed in writing on: _____ By: _____

☐ Sample(s) processed "as is" _____

☐ Sample(s) on hold until: _____ If released, notify: _____

Sample Control Supervisor (or designate) Review: [signature] Date: 12-4-03

Project Management Review: [signature] Date: 12-5-03

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE
THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED
IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIALS AND THE DATE NEXT TO THAT ITEM.

SEVERN TRENT STL

STL St. Louis
13715 Rider Trail North
Earth City, MO 63045

Tel: 314 298 8566 Fax: 314 298 8757
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 14770000

Brenntag

Lot #: F3L080125

Kim Adams

The Forrester Group
605 North Boonville Avenue
Springfield, MO 65806

SEVERN TRENT LABORATORIES, INC.

Chet Scheibel
Project Manager

January 2, 2004

Case Narrative
LOT NUMBER: **F3L080125**

This report contains the analytical results for the 40 samples received under chain of custody by STL St. Louis on December 5, 2003. These samples are associated with your Brenntag project.

All applicable quality control procedures met method-specified acceptance criteria except as described below.

This report is incomplete without the case narrative. All chemical analysis results are based upon dry sample weight, unless noted otherwise.

Observations/Nonconformances

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

Volatiles (Water) by SW846 8260B

1. The surrogates recovery are outside the upper QC limit, indicating a potential positive bias. There were no target analytes observed above the reporting limit in the sample; therefore the sample data was not adversely affected by this excursion. The original sample results are provided.

2. The MS surrogate recovery for 4-BFB is outside the QC limits. The sample did not have hits above the reporting limit therefore this excursion does not affect the data results. Sample results will be reported.

Affected Samples:
F3L080125 (39): WS-1-031204

3. The sample was analyzed at a dilution due to foaming of the sample in the purge vessel even with the antifoam added. The reporting limit has been adjusted for the dilution.

4. The Internal Standard recovery is low resulting in a positive bias result for the target analytes associated with the Internal Standard. This excursion is attributed to a matrix interference which is physically evident in the sample. The sample was reprepared/reanalysed at a dilution. The lab will report both results with this comment.

Affected Samples:
F3L080125 (40): WW-1-031204

Volatiles (Soil) by SW846 8260B

1. The LCS/LCSD RPD is not within method acceptance criteria. LCS/LCSD recoveries are within QC limits demonstrating good extraction performance in the sample matrix. No further action is required.

2. There was insufficient sample volume to perform MS/MSD analysis. A LCS/LCSD were performed to demonstrate accuracy and replicate precision.

Affected Samples: Batch 3353149
F3L080125 (1): SSB-6A
F3L080125 (2): SSB-6C
F3L080125 (4): SSB-8B
F3L080125 (5): SSB-9A
F3L080125 (12): DUP-1-031204

3. Sample surrogate recovery is outside established QC limits. The sample was reprepared as a medium-level extraction due to high target concentrations and the reanalysis of the medium level extraction yielded acceptable results. Both reports will be reported. No further action is required.

Affected Samples:
F3L080125 (12): DUP-1-031204

4. There was insufficient sample volume to perform MS/MSD analysis. A LCS/LCSD were performed to demonstrate accuracy and replicate precision.

Affected Samples: Batch 3353155
F3L080125 (3): SSB-7B
F3L080125 (6): SSB-9C
F3L080125 (7): SSB-10B
F3L080125 (8): SSB-11B
F3L080125 (9): SSB-12B
F3L080125 (10): SSB-13C
F3L080125 (11): SSB-15B
F3L080125 (12): DUP-1-031204

5. There was insufficient sample volume to perform MS/MSD analysis. A LCS/LCSD were performed to demonstrate accuracy and replicate precision.

Affected Samples: Batch 3353164
F3L080125 (3): SSB-7B
F3L080125 (6): SSB-9C
F3L080125 (9): SSB-12B
F3L080125 (10): SSB-13C
F3L080125 (11): SSB-15B

METHODS SUMMARY

F3L080125

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
pH Non-Aqueous	SW846 9045A	
Percent Moisture	MCAWW 160.3 MOD	MCAWW 160.3 MOD
Volatile Organics by GC/MS	SW846 8260B	SW846 1311/5030
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826
Volatile Organics by GC/MS	SW846 8260B	SW846 5035

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

F3L080125

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
F57MN	001	SSB-6A	12/04/03	09:53
F57MP	002	SSB-6C	12/04/03	10:10
F57MQ	003	SSB-7B	12/04/03	10:45
F57MR	004	SSB-8B	12/04/03	11:10
F57MW	005	SSB-9A	12/04/03	12:05
F57MX	006	SSB-9C	12/04/03	12:45
F57M0	007	SSB-10B	12/04/03	13:05
F57M1	008	SSB-11B	12/04/03	13:30
F57M2	009	SSB-12B	12/04/03	13:55
F57M3	010	SSB-13C	12/04/03	15:15
F57M4	011	SSB-15B	12/04/03	16:00
F57M5	012	DUP-1-031204	12/04/03	16:00
F57Q0	029	SSB-6P	12/04/03	09:53
F57Q3	030	SSB-7P	12/04/03	10:45
F57Q7	031	SSB-8P	12/04/03	11:35
F57Q8	032	SSB-9P	12/04/03	12:45
F57RA	033	SSB-10P	12/04/03	13:05
F57RC	034	SSB-11P	12/04/03	13:30
F57RE	035	SSB-12P	12/04/03	13:55
F57RF	036	SSB-13P	12/04/03	15:05
F57RH	037	SSB-14P	12/04/03	15:40
F57RM	038	SSB-15P	12/04/03	16:00
F57RN	039	WS-1-031204	12/04/03	16:55
F57RW	040	WW-1-031204	12/04/03	16:50

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

THE FORRESTER GROUP

Client Sample ID: SSB-6A

GC/MS Volatiles

Lot-Sample #...: F3L080125-001 **Work Order #...:** F57MN1AC **Matrix.....:** SOLID
Date Sampled...: 12/04/03 09:53 **Date Received..:** 12/05/03
Prep Date.....: 12/18/03 **Analysis Date..:** 12/18/03
Prep Batch #...: 3353149 **Analysis Time..:** 13:44
Dilution Factor: 7.93
% Moisture.....: 19 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	9700	ug/kg
Benzene	ND	2400	ug/kg
Bromodichloromethane	ND	2400	ug/kg
Bromoform	ND	2400	ug/kg
Bromomethane	ND	4900	ug/kg
2-Butanone (MEK)	ND	9700	ug/kg
Carbon disulfide	ND	2400	ug/kg
Carbon tetrachloride	ND	2400	ug/kg
Chlorobenzene	ND	2400	ug/kg
Dibromochloromethane	ND	2400	ug/kg
Chloroethane	ND	2400	ug/kg
Chloroform	ND	2400	ug/kg
Chloromethane (Methyl Chloride)	ND	4900	ug/kg
1,1-Dichloroethane	ND	2400	ug/kg
1,2-Dichloroethane	**59000**	**2400**	**ug/kg**
cis-1,2-Dichloroethene	**2100 J**	**2400**	**ug/kg**
trans-1,2-Dichloroethene	ND	2400	ug/kg
1,1-Dichloroethene	ND	2400	ug/kg
1,2-Dichloroethene (total)	**2100 J**	**4900**	**ug/kg**
1,2-Dichloropropane	ND	2400	ug/kg
cis-1,3-Dichloropropene	ND	2400	ug/kg
trans-1,3-Dichloropropene	ND	2400	ug/kg
Ethylbenzene	ND	2400	ug/kg
2-Hexanone	ND	4900	ug/kg
Methylene chloride	ND	2400	ug/kg
4-Methyl-2-pentanone	ND	9700	ug/kg
Styrene	ND	2400	ug/kg
1,1,2,2-Tetrachloroethane	ND	2400	ug/kg
Tetrachloroethene	**950 J**	**2400**	**ug/kg**
Toluene	ND	2400	ug/kg
1,1,1-Trichloroethane	ND	2400	ug/kg
1,1,2-Trichloroethane	ND	2400	ug/kg
Trichloroethene	ND	2400	ug/kg
Vinyl chloride	ND	2400	ug/kg
m-Xylene & p-Xylene	ND	2400	ug/kg
o-Xylene	ND	2400	ug/kg

(Continued on next page)

THE FORRESTER GROUP

Client Sample ID: SSB-6A

GC/MS Volatiles

Lot-Sample #...: F3L080125-001 **Work Order #...:** F57MN1AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	4900	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	83	(52 - 132)
Dibromofluoromethane	89	(61 - 130)
1,2-Dichloroethane-d4	94	(55 - 136)
4-Bromofluorobenzene	98	(47 - 129)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: SSB-6A

General Chemistry

Lot-Sample #...: F3L080125-001 **Work Order #...:** F57MN **Matrix.....:** SOLID
Date Sampled...: 12/04/03 09:53 **Date Received..:** 12/05/03
% Moisture.....: 19

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	18.5	0.10	%	MCAWW 160.3 MOD	12/09/03	3343096

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: SSB-6C

GC/MS Volatiles

Lot-Sample #...: F3L080125-002 **Work Order #...:** F57MP1AC **Matrix.....:** SOLID
Date Sampled...: 12/04/03 10:10 **Date Received..:** 12/05/03
Prep Date.....: 12/18/03 **Analysis Date..:** 12/18/03
Prep Batch #...: 3353149 **Analysis Time..:** 14:18
Dilution Factor: 3.25
% Moisture.....: 18 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	3900	ug/kg
Benzene	ND	990	ug/kg
Bromodichloromethane	ND	990	ug/kg
Bromoform	ND	990	ug/kg
Bromomethane	ND	2000	ug/kg
2-Butanone (MEK)	ND	3900	ug/kg
Carbon disulfide	ND	990	ug/kg
Carbon tetrachloride	ND	990	ug/kg
Chlorobenzene	ND	990	ug/kg
Dibromochloromethane	ND	990	ug/kg
Chloroethane	ND	990	ug/kg
Chloroform	ND	990	ug/kg
Chloromethane (Methyl Chloride)	ND	2000	ug/kg
1,1-Dichloroethane	ND	990	ug/kg
1,2-Dichloroethane	**16000**	**990**	**ug/kg**
cis-1,2-Dichloroethene	ND	990	ug/kg
trans-1,2-Dichloroethene	ND	990	ug/kg
1,1-Dichloroethene	ND	990	ug/kg
1,2-Dichloroethene (total)	ND	2000	ug/kg
1,2-Dichloropropane	ND	990	ug/kg
cis-1,3-Dichloropropene	ND	990	ug/kg
trans-1,3-Dichloropropene	ND	990	ug/kg
Ethylbenzene	ND	990	ug/kg
2-Hexanone	ND	2000	ug/kg
Methylene chloride	ND	990	ug/kg
4-Methyl-2-pentanone	ND	3900	ug/kg
Styrene	ND	990	ug/kg
1,1,2,2-Tetrachloroethane	ND	990	ug/kg
Tetrachloroethene	**2300**	**990**	**ug/kg**
Toluene	**340 J**	**990**	**ug/kg**
1,1,1-Trichloroethane	ND	990	ug/kg
1,1,2-Trichloroethane	ND	990	ug/kg
Trichloroethene	ND	990	ug/kg
Vinyl chloride	ND	990	ug/kg
m-Xylene & p-Xylene	ND	990	ug/kg
o-Xylene	ND	990	ug/kg

(Continued on next page)

THE FORRESTER GROUP

Client Sample ID: SSB-6C

GC/MS Volatiles

Lot-Sample #...: F3L080125-002 **Work Order #...:** F57MP1AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	2000	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	85	(52 - 132)
Dibromofluoromethane	89	(61 - 130)
1,2-Dichloroethane-d4	94	(55 - 136)
4-Bromofluorobenzene	101	(47 - 129)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: SSB-6C

General Chemistry

Lot-Sample #...: F3L080125-002 **Work Order #...:** F57MP **Matrix.....:** SOLID
Date Sampled...: 12/04/03 10:10 **Date Received..:** 12/05/03
% Moisture.....: 18

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	17.7	0.10	%	MCAWW 160.3 MOD	12/09/03	3343096

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: SSB-7B

GC/MS Volatiles

Lot-Sample #...: F3L080125-003 **Work Order #...:** F57MQ1AC **Matrix.....:** SOLID
Date Sampled...: 12/04/03 10:45 **Date Received..:** 12/05/03
Prep Date.....: 12/18/03 **Analysis Date..:** 12/18/03
Prep Batch #...: 3353155 **Analysis Time..:** 18:17
Dilution Factor: 0.86
% Moisture.....: 15 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**11 J**	**20**	**ug/kg**
Benzene	ND	5.0	ug/kg
Bromodichloromethane	ND	5.0	ug/kg
Bromoform	ND	5.0	ug/kg
Bromomethane	ND	10	ug/kg
2-Butanone (MEK)	ND	20	ug/kg
Carbon disulfide	ND	5.0	ug/kg
Carbon tetrachloride	ND	5.0	ug/kg
Chlorobenzene	ND	5.0	ug/kg
Dibromochloromethane	ND	5.0	ug/kg
Chloroethane	ND	5.0	ug/kg
Chloroform	ND	5.0	ug/kg
Chloromethane (Methyl Chloride)	ND	10	ug/kg
1,1-Dichloroethane	**1.4 J**	**5.0**	**ug/kg**
1,2-Dichloroethane	ND	5.0	ug/kg
cis-1,2-Dichloroethene	**30**	**5.0**	**ug/kg**
trans-1,2-Dichloroethene	**0.45 J**	**5.0**	**ug/kg**
1,1-Dichloroethene	ND	5.0	ug/kg
1,2-Dichloroethene (total)	**31**	**10**	**ug/kg**
1,2-Dichloropropane	ND	5.0	ug/kg
cis-1,3-Dichloropropene	ND	5.0	ug/kg
trans-1,3-Dichloropropene	ND	5.0	ug/kg
Ethylbenzene	ND	5.0	ug/kg
2-Hexanone	ND	10	ug/kg
Methylene chloride	ND	5.0	ug/kg
4-Methyl-2-pentanone	ND	20	ug/kg
Styrene	ND	5.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg
Tetrachloroethene	**36**	**5.0**	**ug/kg**
Toluene	ND	5.0	ug/kg
1,1,1-Trichloroethane	**5.9**	**5.0**	**ug/kg**
1,1,2-Trichloroethane	ND	5.0	ug/kg
Trichloroethene	**240 E**	**5.0**	**ug/kg**
Vinyl chloride	ND	5.0	ug/kg
m-Xylene & p-Xylene	ND	5.0	ug/kg
o-Xylene	ND	5.0	ug/kg

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THE FORRESTER GROUP

Client Sample ID: SSB-7B

GC/MS Volatiles

Lot-Sample #...: F3L080125-003 **Work Order #...:** [illegible] **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	10	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	97	(76 - 129)
Dibromofluoromethane	107	(81 - 128)
1,2-Dichloroethane-d4	111	(77 - 130)
4-Bromofluorobenzene	91	(58 - 144)

NOTE(S):

Result [illegible]

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

THE FORRESTER GROUP

Client Sample ID: SSB-7B

GC/MS Volatiles

Lot-Sample #...: F3L080125-003 **Work Order #...:** F57MQ2AC **Matrix.....:** SOLID
Date Sampled...: 12/04/03 10:45 **Date Received..:** 12/05/03
Prep Date.....: 12/18/03 **Analysis Date..:** 12/19/03
Prep Batch #...: 3353164 **Analysis Time..:** 03:36
Dilution Factor: 1.22
% Moisture.....: 15 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	1400	ug/kg
Benzene	ND	360	ug/kg
Bromodichloromethane	ND	360	ug/kg
Bromoform	ND	360	ug/kg
Bromomethane	ND	720	ug/kg
2-Butanone (MEK)	ND	1400	ug/kg
Carbon disulfide	ND	360	ug/kg
Carbon tetrachloride	ND	360	ug/kg
Chlorobenzene	ND	360	ug/kg
Dibromochloromethane	ND	360	ug/kg
Chloroethane	ND	360	ug/kg
Chloroform	ND	360	ug/kg
Chloromethane (Methyl Chloride)	ND	720	ug/kg
1,1-Dichloroethane	ND	360	ug/kg
1,2-Dichloroethane	ND	360	ug/kg
cis-1,2-Dichloroethene	ND	360	ug/kg
trans-1,2-Dichloroethene	ND	360	ug/kg
1,1-Dichloroethene	ND	360	ug/kg
1,2-Dichloroethene (total)	ND	720	ug/kg
1,2-Dichloropropane	ND	360	ug/kg
cis-1,3-Dichloropropene	ND	360	ug/kg
trans-1,3-Dichloropropene	ND	360	ug/kg
Ethylbenzene	ND	360	ug/kg
2-Hexanone	ND	720	ug/kg
Methylene chloride	ND	360	ug/kg
4-Methyl-2-pentanone	ND	1400	ug/kg
Styrene	ND	360	ug/kg
1,1,2,2-Tetrachloroethane	ND	360	ug/kg
Tetrachloroethene	ND	360	ug/kg
Toluene	ND	360	ug/kg
1,1,1-Trichloroethane	ND	360	ug/kg
1,1,2-Trichloroethane	ND	360	ug/kg
Trichloroethene	**410**	**360**	**ug/kg**
Vinyl chloride	ND	360	ug/kg
m-Xylene & p-Xylene	ND	360	ug/kg
o-Xylene	ND	360	ug/kg

(Continued on next page)

THE FORRESTER GROUP

Client Sample ID: SSB-7B

GC/MS Volatiles

Lot-Sample #...: F3L080125-003 **Work Order #...:** F57MQ2AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	720	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	93	(52 - 132)
Dibromofluoromethane	99	(61 - 130)
1,2-Dichloroethane-d4	103	(55 - 136)
4-Bromofluorobenzene	110	(47 - 129)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

THE FORRESTER GROUP

Client Sample ID: SSB-7B

General Chemistry

Lot-Sample #...: F3L080125-003 **Work Order #...:** F57MQ **Matrix.....:** SOLID
Date Sampled...: 12/04/03 10:45 **Date Received..:** 12/05/03
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	14.8	0.10	%	MCANW 160.3 MOD	12/09/03	3343096

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: SSB-8B

GC/MS Volatiles

Lot-Sample #...: F3L080125-004 **Work Order #...:** F57MR1AC **Matrix.....:** SOLID
Date Sampled...: 12/04/03 11:10 **Date Received..:** 12/05/03
Prep Date.....: 12/18/03 **Analysis Date..:** 12/18/03
Prep Batch #...: 3353149 **Analysis Time..:** 14:52
Dilution Factor: 1.54
% Moisture.....: 15 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	1800	ug/kg
Benzene	ND	450	ug/kg
Bromodichloromethane	ND	450	ug/kg
Bromoform	ND	450	ug/kg
Bromomethane	ND	900	ug/kg
2-Butanone (MEK)	ND	1800	ug/kg
Carbon disulfide	ND	450	ug/kg
Carbon tetrachloride	ND	450	ug/kg
Chlorobenzene	ND	450	ug/kg
Dibromochloromethane	ND	450	ug/kg
Chloroethane	ND	450	ug/kg
Chloroform	ND	450	ug/kg
Chloromethane (Methyl Chloride)	ND	900	ug/kg
1,1-Dichloroethane	ND	450	ug/kg
1,2-Dichloroethane	ND	450	ug/kg
cis-1,2-Dichloroethene	**1900**	**450**	**ug/kg**
trans-1,2-Dichloroethene	ND	450	ug/kg
1,1-Dichloroethene	ND	450	ug/kg
1,2-Dichloroethene (total)	**1900**	**900**	**ug/kg**
1,2-Dichloropropane	ND	450	ug/kg
cis-1,3-Dichloropropene	ND	450	ug/kg
trans-1,3-Dichloropropene	ND	450	ug/kg
Ethylbenzene	**460**	**450**	**ug/kg**
2-Hexanone	ND	900	ug/kg
Methylene chloride	ND	450	ug/kg
4-Methyl-2-pentanone	ND	1800	ug/kg
Styrene	ND	450	ug/kg
1,1,2,2-Tetrachloroethane	ND	450	ug/kg
Tetrachloroethene	ND	450	ug/kg
Toluene	**170 J**	**450**	**ug/kg**
1,1,1-Trichloroethane	ND	450	ug/kg
1,1,2-Trichloroethane	ND	450	ug/kg
Trichloroethene	ND	450	ug/kg
Vinyl chloride	ND	450	ug/kg
m-Xylene & p-Xylene	**1500**	**450**	**ug/kg**
o-Xylene	**670**	**450**	**ug/kg**

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THE FORRESTER GROUP

Client Sample ID: SSB-8B

GC/MS Volatiles

Lot-Sample #...: F3L080125-004 **Work Order #...:** F57MR1AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	**2200**	**900**	**ug/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	86	(52 - 132)
Dibromofluoromethane	87	(61 - 130)
1,2-Dichloroethane-d4	92	(55 - 136)
4-Bromofluorobenzene	99	(47 - 129)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: SSB-8B

General Chemistry

Lot-Sample #...: F3L080125-004 **Work Order #...:** F57MR **Matrix.....:** SOLID
Date Sampled...: 12/04/03 11:10 **Date Received..:** 12/05/03
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	14.7	0.10	%	MCAWW 160.3 MOD	12/09/03	3343096

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: SSB-9A

GC/MS Volatiles

Lot-Sample #...: F3L080125-005 **Work Order #...:** F57MW1AC **Matrix.....:** SOLID
Date Sampled...: 12/04/03 12:05 **Date Received..:** 12/05/03
Prep Date.....: 12/18/03 **Analysis Date..:** 12/18/03
Prep Batch #...: 3353149 **Analysis Time..:** 15:26
Dilution Factor: 1.65
% Moisture.....: 15 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	1900	ug/kg
Benzene	ND	480	ug/kg
Bromodichloromethane	ND	480	ug/kg
Bromoform	ND	480	ug/kg
Bromomethane	ND	970	ug/kg
2-Butanone (MEK)	ND	1900	ug/kg
Carbon disulfide	ND	480	ug/kg
Carbon tetrachloride	ND	480	ug/kg
Chlorobenzene	ND	480	ug/kg
Dibromochloromethane	ND	480	ug/kg
Chloroethane	ND	480	ug/kg
Chloroform	ND	480	ug/kg
Chloromethane (Methyl Chloride)	ND	970	ug/kg
1,1-Dichloroethane	ND	480	ug/kg
1,2-Dichloroethane	ND	480	ug/kg
cis-1,2-Dichloroethene	**940**	**480**	**ug/kg**
trans-1,2-Dichloroethene	ND	480	ug/kg
1,1-Dichloroethene	ND	480	ug/kg
1,2-Dichloroethene (total)	**940 J**	**970**	**ug/kg**
1,2-Dichloropropane	ND	480	ug/kg
cis-1,3-Dichloropropene	ND	480	ug/kg
trans-1,3-Dichloropropene	ND	480	ug/kg
Ethylbenzene	ND	480	ug/kg
2-Hexanone	ND	970	ug/kg
Methylene chloride	ND	480	ug/kg
4-Methyl-2-pentanone	ND	1900	ug/kg
Styrene	ND	480	ug/kg
1,1,2,2-Tetrachloroethane	ND	480	ug/kg
Tetrachloroethene	ND	480	ug/kg
Toluene	**180 J**	**480**	**ug/kg**
1,1,1-Trichloroethane	ND	480	ug/kg
1,1,2-Trichloroethane	ND	480	ug/kg
Trichloroethene	ND	480	ug/kg
Vinyl chloride	ND	480	ug/kg
m-Xylene & p-Xylene	ND	480	ug/kg
o-Xylene	ND	480	ug/kg

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THE FORRESTER GROUP

Client Sample ID: SSB-9A

GC/MS Volatiles

Lot-Sample #...: F3L080125-005 **Work Order #...:** F57MW1AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	970	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	84	(52 - 132)
Dibromofluoromethane	88	(61 - 130)
1,2-Dichloroethane-d4	93	(55 - 136)
4-Bromofluorobenzene	113	(47 - 129)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: SSB-9A

General Chemistry

Lot-Sample #...: F3L080125-005 **Work Order #...:** F57MW **Matrix.....:** SOLID
Date Sampled...: 12/04/03 12:05 **Date Received..:** 12/05/03
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**14.5**	**0.10**	**%**	**MCAWW 160.3 MOD**	**12/09/03**	**3343096**

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: SSB-9C

GC/MS Volatiles

Lot-Sample #...: F3L080125-006 **Work Order #...:** F57MX1AC **Matrix.....:** SOLID
Date Sampled...: 12/04/03 12:45 **Date Received..:** 12/05/03
Prep Date.....: 12/18/03 **Analysis Date..:** 12/18/03
Prep Batch #...: 3353155 **Analysis Time..:** 18:50
Dilution Factor: 0.79
% Moisture.....: 16 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**11 J**	**19**	**ug/kg**
Benzene	**1.0 J**	**4.7**	**ug/kg**
Bromodichloromethane	ND	4.7	ug/kg
Bromoform	ND	4.7	ug/kg
Bromomethane	ND	9.4	ug/kg
2-Butanone (MEK)	ND	19	ug/kg
Carbon disulfide	ND	4.7	ug/kg
Carbon tetrachloride	ND	4.7	ug/kg
Chlorobenzene	ND	4.7	ug/kg
Dibromochloromethane	ND	4.7	ug/kg
Chloroethane	ND	4.7	ug/kg
Chloroform	**0.64 J**	**4.7**	**ug/kg**
Chloromethane (Methyl Chloride)	ND	9.4	ug/kg
1,1-Dichloroethane	**44**	**4.7**	**ug/kg**
1,2-Dichloroethane	**2.3 J**	**4.7**	**ug/kg**
cis-1,2-Dichloroethene	**250 E**	**4.7**	**ug/kg**
trans-1,2-Dichloroethene	**1.3 J**	**4.7**	**ug/kg**
1,1-Dichloroethene	**1.6 J**	**4.7**	**ug/kg**
1,2-Dichloroethene (total)	**250 E**	**9.4**	**ug/kg**
1,2-Dichloropropane	ND	4.7	ug/kg
cis-1,3-Dichloropropene	ND	4.7	ug/kg
trans-1,3-Dichloropropene	ND	4.7	ug/kg
Ethylbenzene	**20**	**4.7**	**ug/kg**
2-Hexanone	ND	9.4	ug/kg
Methylene chloride	ND	4.7	ug/kg
4-Methyl-2-pentanone	ND	19	ug/kg
Styrene	ND	4.7	ug/kg
1,1,2,2-Tetrachloroethane	ND	4.7	ug/kg
Tetrachloroethene	**190 E**	**4.7**	**ug/kg**
Toluene	**2.3 J**	**4.7**	**ug/kg**
1,1,1-Trichloroethane	**1.2 J**	**4.7**	**ug/kg**
1,1,2-Trichloroethane	ND	4.7	ug/kg
Trichloroethene	**13**	**4.7**	**ug/kg**
Vinyl chloride	ND	4.7	ug/kg
m-Xylene & p-Xylene	**69**	**4.7**	**ug/kg**
o-Xylene	**27**	**4.7**	**ug/kg**

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THE FORRESTER GROUP

Client Sample ID: SSB-9C

GC/MS Volatiles

Lot-Sample #...: F3L080125-006 **Work Order #...:** F57MX1AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	**96**	**9.4**	**ug/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	106	(76 - 129)
Dibromofluoromethane	94	(81 - 128)
1,2-Dichloroethane-d4	101	(77 - 130)
4-Bromofluorobenzene	90	(58 - 144)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

THE FORRESTER GROUP

Client Sample ID: SSB-9C

GC/MS Volatiles

Lot-Sample #...: F3L080125-006 **Work Order #...:** F57MX2AC **Matrix.....:** SOLID
Date Sampled...: 12/04/03 12:45 **Date Received..:** 12/05/03
Prep Date.....: 12/18/03 **Analysis Date..:** 12/19/03
Prep Batch #...: 3353164 **Analysis Time..:** 04:10
Dilution Factor: 1.6
% Moisture.....: 16 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	1900	ug/kg
Benzene	ND	470	ug/kg
Bromodichloromethane	ND	470	ug/kg
Bromoform	ND	470	ug/kg
Bromomethane	ND	950	ug/kg
2-Butanone (MEK)	ND	1900	ug/kg
Carbon disulfide	ND	470	ug/kg
Carbon tetrachloride	ND	470	ug/kg
Chlorobenzene	ND	470	ug/kg
Dibromochloromethane	ND	470	ug/kg
Chloroethane	ND	470	ug/kg
Chloroform	ND	470	ug/kg
Chloromethane (Methyl Chloride)	ND	950	ug/kg
1,1-Dichloroethane	ND	470	ug/kg
1,2-Dichloroethane	ND	470	ug/kg
cis-1,2-Dichloroethene	**670**	**470**	**ug/kg**
trans-1,2-Dichloroethene	ND	470	ug/kg
1,1-Dichloroethene	ND	470	ug/kg
1,2-Dichloroethene (total)	**670 J**	**950**	**ug/kg**
1,2-Dichloropropane	ND	470	ug/kg
cis-1,3-Dichloropropene	ND	470	ug/kg
trans-1,3-Dichloropropene	ND	470	ug/kg
Ethylbenzene	ND	470	ug/kg
2-Hexanone	ND	950	ug/kg
Methylene chloride	ND	470	ug/kg
4-Methyl-2-pentanone	ND	1900	ug/kg
Styrene	ND	470	ug/kg
1,1,2,2-Tetrachloroethane	ND	470	ug/kg
Tetrachloroethene	**670**	**470**	**ug/kg**
Toluene	ND	470	ug/kg
1,1,1-Trichloroethane	ND	470	ug/kg
1,1,2-Trichloroethane	ND	470	ug/kg
Trichloroethene	ND	470	ug/kg
Vinyl chloride	ND	470	ug/kg
m-Xylene & p-Xylene	ND	470	ug/kg
o-Xylene	ND	470	ug/kg

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THE FORRESTER GROUP

Client Sample ID: SSB-9C

GC/MS Volatiles

Lot-Sample #...: F3L080125-006 **Work Order #...:** F57MX2AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	950	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	90	(52 - 132)
Dibromofluoromethane	93	(61 - 130)
1,2-Dichloroethane-d4	99	(55 - 136)
4-Bromofluorobenzene	108	(47 - 129)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: SSB-9C

General Chemistry

Lot-Sample #...: F3L080125-006 **Work Order #...:** F57MX **Matrix.....:** SOLID
Date Sampled...: 12/04/03 12:45 **Date Received..:** 12/05/03
% Moisture.....: 16

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**15.6**	**0.10**	**%**	**MCAWW 160.3 MOD**	**12/09-12/10/03**	**3343621**
		Dilution Factor: 1		Analysis Time..: 00:00		

THE FORRESTER GROUP

Client Sample ID: SSB-10B

GC/MS Volatiles

Lot-Sample #...: F3L080125-007 **Work Order #...:** F57M01AC **Matrix.....:** SOLID
Date Sampled...: 12/04/03 13:05 **Date Received..:** 12/05/03
Prep Date.....: 12/18/03 **Analysis Date..:** 12/18/03
Prep Batch #...: 3353155 **Analysis Time..:** 19:24
Dilution Factor: 0.75
% Moisture.....: 17 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**11 J**	**18**	**ug/kg**
Benzene	ND	4.5	ug/kg
Bromodichloromethane	ND	4.5	ug/kg
Bromoform	ND	4.5	ug/kg
Bromomethane	ND	9.1	ug/kg
2-Butanone (MEK)	ND	18	ug/kg
Carbon disulfide	ND	4.5	ug/kg
Carbon tetrachloride	ND	4.5	ug/kg
Chlorobenzene	ND	4.5	ug/kg
Dibromochloromethane	ND	4.5	ug/kg
Chloroethane	ND	4.5	ug/kg
Chloroform	**7.7**	**4.5**	**ug/kg**
Chloromethane (Methyl Chloride)	ND	9.1	ug/kg
1,1-Dichloroethane	**3.1 J**	**4.5**	**ug/kg**
1,2-Dichloroethane	ND	4.5	ug/kg
cis-1,2-Dichloroethene	**8.0**	**4.5**	**ug/kg**
trans-1,2-Dichloroethene	ND	4.5	ug/kg
1,1-Dichloroethene	ND	4.5	ug/kg
1,2-Dichloroethene (total)	**8.0 J**	**9.1**	**ug/kg**
1,2-Dichloropropane	ND	4.5	ug/kg
cis-1,3-Dichloropropene	ND	4.5	ug/kg
trans-1,3-Dichloropropene	ND	4.5	ug/kg
Ethylbenzene	ND	4.5	ug/kg
2-Hexanone	ND	9.1	ug/kg
Methylene chloride	ND	4.5	ug/kg
4-Methyl-2-pentanone	ND	18	ug/kg
Styrene	ND	4.5	ug/kg
1,1,2,2-Tetrachloroethane	ND	4.5	ug/kg
Tetrachloroethene	**16**	**4.5**	**ug/kg**
Toluene	**0.62 J**	**4.5**	**ug/kg**
1,1,1-Trichloroethane	**1.7 J**	**4.5**	**ug/kg**
1,1,2-Trichloroethane	ND	4.5	ug/kg
Trichloroethene	**38**	**4.5**	**ug/kg**
Vinyl chloride	ND	4.5	ug/kg
m-Xylene & p-Xylene	ND	4.5	ug/kg
o-Xylene	ND	4.5	ug/kg

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THE FORRESTER GROUP

Client Sample ID: SSB-10B

GC/MS Volatiles

Lot-Sample #...: F3L080125-007 **Work Order #...:** F57M01AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	9.1	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	95	(76 - 129)
Dibromofluoromethane	100	(81 - 128)
1,2-Dichloroethane-d4	109	(77 - 130)
4-Bromofluorobenzene	88	(58 - 144)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: SSB-10B

General Chemistry

Lot-Sample #...: F3L080125-007 **Work Order #...:** F57M0 **Matrix.....:** SOLID
Date Sampled...: 12/04/03 13:05 **Date Received..:** 12/05/03
% Moisture.....: 17

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**17.5**	**0.10**	**%**	**MCAWW 160.3 MOD**	**12/09/03**	**3343096**
		Dilution Factor: 1		Analysis Time..: 00:00		

THE FORRESTER GROUP

Client Sample ID: SSB-11B

GC/MS Volatiles

Lot-Sample #...: F3L080125-008 **Work Order #...:** F57M11AC **Matrix.....:** SOLID
Date Sampled...: 12/04/03 13:30 **Date Received..:** 12/05/03
Prep Date.....: 12/18/03 **Analysis Date..:** 12/18/03
Prep Batch #...: 3353155 **Analysis Time..:** 19:57
Dilution Factor: 0.71
% Moisture.....: 15 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**8.0 J**	**17**	**ug/kg**
Benzene	ND	4.2	ug/kg
Bromodichloromethane	ND	4.2	ug/kg
Bromoform	ND	4.2	ug/kg
Bromomethane	ND	8.4	ug/kg
2-Butanone (MEK)	ND	17	ug/kg
Carbon disulfide	**1.9 J**	**4.2**	**ug/kg**
Carbon tetrachloride	ND	4.2	ug/kg
Chlorobenzene	ND	4.2	ug/kg
Dibromochloromethane	ND	4.2	ug/kg
Chloroethane	ND	4.2	ug/kg
Chloroform	ND	4.2	ug/kg
Chloromethane (Methyl Chloride)	ND	8.4	ug/kg
1,1-Dichloroethane	**33**	**4.2**	**ug/kg**
1,2-Dichloroethane	ND	4.2	ug/kg
cis-1,2-Dichloroethene	**130**	**4.2**	**ug/kg**
trans-1,2-Dichloroethene	ND	4.2	ug/kg
1,1-Dichloroethene	**3.0 J**	**4.2**	**ug/kg**
1,2-Dichloroethene (total)	**130**	**8.4**	**ug/kg**
1,2-Dichloropropane	ND	4.2	ug/kg
cis-1,3-Dichloropropene	ND	4.2	ug/kg
trans-1,3-Dichloropropene	ND	4.2	ug/kg
Ethylbenzene	ND	4.2	ug/kg
2-Hexanone	ND	8.4	ug/kg
Methylene chloride	ND	4.2	ug/kg
4-Methyl-2-pentanone	ND	17	ug/kg
Styrene	ND	4.2	ug/kg
1,1,2,2-Tetrachloroethane	ND	4.2	ug/kg
Tetrachloroethene	**33**	**4.2**	**ug/kg**
Toluene	ND	4.2	ug/kg
1,1,1-Trichloroethane	**0.64 J**	**4.2**	**ug/kg**
1,1,2-Trichloroethane	ND	4.2	ug/kg
Trichloroethene	**16**	**4.2**	**ug/kg**
Vinyl chloride	ND	4.2	ug/kg
m-Xylene & p-Xylene	ND	4.2	ug/kg
o-Xylene	ND	4.2	ug/kg

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THE FORRESTER GROUP

Client Sample ID: SSB-11B

GC/MS Volatiles

Lot-Sample #...: F3L080125-008 **Work Order #...:** F57M11AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	8.4	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	99	(76 - 129)
Dibromofluoromethane	100	(81 - 128)
1,2-Dichloroethane-d4	113	(77 - 130)
4-Bromofluorobenzene	92	(58 - 144)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: SSB-11B

General Chemistry

Lot-Sample #...: F3L080125-008 **Work Order #...:** F57M1 **Matrix.....:** SOLID
Date Sampled...: 12/04/03 13:30 **Date Received..:** 12/05/03
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**15.3**	**0.10**	**%**	**MCAWW 160.3 MOD**	**12/09/03**	**3343096**

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: SSB-12B

GC/MS Volatiles

Lot-Sample #...: F3L080125-009 **Work Order #...:** F57M21AC **Matrix.....:** SOLID
Date Sampled...: 12/04/03 13:55 **Date Received..:** 12/05/03
Prep Date.....: 12/18/03 **Analysis Date..:** 12/18/03
Prep Batch #...: 3353155 **Analysis Time..:** 20:31
Dilution Factor: 0.74
% Moisture.....: 19 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**11 J**	**18**	**ug/kg**
Benzene	ND	4.5	ug/kg
Bromodichloromethane	ND	4.5	ug/kg
Bromoform	ND	4.5	ug/kg
Bromomethane	ND	9.1	ug/kg
2-Butanone (MEK)			
Carbon disulfide	**5.2**	**4.5**	**ug/kg**
Carbon tetrachloride	ND	4.5	ug/kg
Chlorobenzene	ND	4.5	ug/kg
Dibromochloromethane	ND	4.5	ug/kg
Chloroethane	ND	4.5	ug/kg
Chloroform	**0.29 J**	**4.5**	**ug/kg**
Chloromethane (Methyl Chloride)	ND	9.1	ug/kg
1,1-Dichloroethane	**11**	**4.5**	**ug/kg**
1,2-Dichloroethane	ND	4.5	ug/kg
cis-1,2-Dichloroethene	**190 E**	**4.5**	**ug/kg**
trans-1,2-Dichloroethene	**0.53 J**	**4.5**	**ug/kg**
1,1-Dichloroethene	ND	4.5	ug/kg
1,2-Dichloroethene (total)	**190 E**	**9.1**	**ug/kg**
1,2-Dichloropropane	ND	4.5	ug/kg
cis-1,3-Dichloropropene	ND	4.5	ug/kg
trans-1,3-Dichloropropene	ND	4.5	ug/kg
Ethylbenzene	ND	4.5	ug/kg
2-Hexanone	ND	9.1	ug/kg
Methylene chloride	ND	4.5	ug/kg
4-Methyl-2-pentanone	ND	18	ug/kg
Styrene	ND	4.5	ug/kg
1,1,2,2-Tetrachloroethane	ND	4.5	ug/kg
Tetrachloroethene	**200 E**	**4.5**	**ug/kg**
Toluene	ND	4.5	ug/kg
1,1,1-Trichloroethane	ND	4.5	ug/kg
1,1,2-Trichloroethane	ND	4.5	ug/kg
Trichloroethene	**14**	**4.5**	**ug/kg**
Vinyl chloride	ND	4.5	ug/kg
m-Xylene & p-Xylene	ND	4.5	ug/kg
o-Xylene	ND	4.5	ug/kg

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THE FORRESTER GROUP

Client Sample ID: SSB-12B

GC/MS Volatiles

Lot-Sample #...: F3L080125-009 **Work Order #...:** F57M21AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	9.1	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	100	(76 - 129)
Dibromofluoromethane	99	(81 - 128)
1,2-Dichloroethane-d4	110	(77 - 130)
4-Bromofluorobenzene	88	(58 - 144)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

THE FORRESTER GROUP

Client Sample ID: SSB-12B

GC/MS Volatiles

Lot-Sample #...: F3L080125-009 **Work Order #...:** F57M22AC **Matrix.....:** SOLID
Date Sampled...: 12/04/03 13:55 **Date Received..:** 12/05/03
Prep Date.....: 12/18/03 **Analysis Date..:** 12/19/03
Prep Batch #...: 3353164 **Analysis Time..:** 04:43
Dilution Factor: 1.64
% Moisture.....: 19 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	2000	ug/kg
Benzene	ND	500	ug/kg
Bromodichloromethane	ND	500	ug/kg
Bromoform	ND	500	ug/kg
Bromomethane	ND	1000	ug/kg
2-Butanone (MEK)	ND	2000	ug/kg
Carbon disulfide	ND	500	ug/kg
Carbon tetrachloride	ND	500	ug/kg
Chlorobenzene	ND	500	ug/kg
Dibromochloromethane	ND	500	ug/kg
Chloroethane	ND	500	ug/kg
Chloroform	ND	500	ug/kg
Chloromethane (Methyl Chloride)	ND	1000	ug/kg
1,1-Dichloroethane	ND	500	ug/kg
1,2-Dichloroethane	ND	500	ug/kg
cis-1,2-Dichloroethene	**430 J**	**500**	**ug/kg**
trans-1,2-Dichloroethene	ND	500	ug/kg
1,1-Dichloroethene	ND	500	ug/kg
1,2-Dichloroethene (total)	**430 J**	**1000**	**ug/kg**
1,2-Dichloropropane	ND	500	ug/kg
cis-1,3-Dichloropropene	ND	500	ug/kg
trans-1,3-Dichloropropene	ND	500	ug/kg
Ethylbenzene	ND	500	ug/kg
2-Hexanone	ND	1000	ug/kg
Methylene chloride	ND	500	ug/kg
4-Methyl-2-pentanone	ND	2000	ug/kg
Styrene	ND	500	ug/kg
1,1,2,2-Tetrachloroethane	ND	500	ug/kg
Tetrachloroethene	**440 J**	**500**	**ug/kg**
Toluene	ND	500	ug/kg
1,1,1-Trichloroethane	ND	500	ug/kg
1,1,2-Trichloroethane	ND	500	ug/kg
Trichloroethene	ND	500	ug/kg
Vinyl chloride	ND	500	ug/kg
m-Xylene & p-Xylene	ND	500	ug/kg
o-Xylene	ND	500	ug/kg

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THE FORRESTER GROUP

Client Sample ID: SSB-12B

GC/MS Volatiles

Lot-Sample #...: F3L080125-009 **Work Order #...:** F57M22AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	1000	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	95	(52 - 132)
Dibromofluoromethane	101	(61 - 130)
1,2-Dichloroethane-d4	105	(55 - 136)
4-Bromofluorobenzene	115	(47 - 129)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: SSB-12B

General Chemistry

Lot-Sample #...: F3L080125-009 **Work Order #...:** F57M2 **Matrix.....:** SOLID
Date Sampled...: 12/04/03 13:55 **Date Received..:** 12/05/03
% Moisture.....: 19

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	18.6	0.10	%	MCAWW 160.3 MOD	12/09/03	3343096

Dilution Factor: 1 Analysis Time..: 00:00

THR FORRESTER GROUP

Client Sample ID: SSB-13C

GC/MS Volatiles

Lot-Sample #...: F3L080125-010 Work Order #...: F57M31AC Matrix.....: SOLID
Date Sampled...: 12/04/03 15:15 Date Received..: 12/05/03
Prep Date.....: 12/18/03 Analysis Date..: 12/18/03
Prep Batch #...: 3353155 Analysis Time..: 21:04
Dilution Factor: 1.06
% Moisture.....: 13 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**12 J**	**24**	**ug/kg**
Benzene	**0.82 J**	**6.1**	**ug/kg**
Bromodichloromethane	ND	6.1	ug/kg
Bromoform	ND	6.1	ug/kg
Bromomethane	ND	12	ug/kg
2-Butanone (MEK)	ND	24	ug/kg
Carbon disulfide	ND	6.1	ug/kg
Carbon tetrachloride	ND	6.1	ug/kg
Chlorobenzene	ND	6.1	ug/kg
Dibromochloromethane	ND	6.1	ug/kg
Chloroethane	ND	6.1	ug/kg
Chloroform	ND	6.1	ug/kg
Chloromethane (Methyl Chloride)	ND	12	ug/kg
1,1-Dichloroethane	**2.8 J**	**6.1**	**ug/kg**
1,2-Dichloroethane	ND	6.1	ug/kg
cis-1,2-Dichloroethene	**28**	**6.1**	**ug/kg**
trans-1,2-Dichloroethene	ND	6.1	ug/kg
1,1-Dichloroethene	ND	6.1	ug/kg
1,2-Dichloroethene (total)	**28**	**12**	**ug/kg**
1,2-Dichloropropane	ND	6.1	ug/kg
cis-1,3-Dichloropropene	ND	6.1	ug/kg
trans-1,3-Dichloropropene	ND	6.1	ug/kg
Ethylbenzene	**0.68 J**	**6.1**	**ug/kg**
2-Hexanone	ND	12	ug/kg
Methylene chloride	ND	6.1	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
Styrene	ND	6.1	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.1	ug/kg
Tetrachloroethene	**470 E**	**6.1**	**ug/kg**
Toluene	**2.0 J**	**6.1**	**ug/kg**
1,1,1-Trichloroethane	ND	6.1	ug/kg
1,1,2-Trichloroethane	ND	6.1	ug/kg
Trichloroethene	**13**	**6.1**	**ug/kg**
Vinyl chloride	ND	6.1	ug/kg
m-Xylene & p-Xylene	**0.84 J**	**6.1**	**ug/kg**
o-Xylene	ND	6.1	ug/kg

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THE FORRESTER GROUP

Client Sample ID: SSB-13C

GC/MS Volatiles

Lot-Sample #...: F3L080125-010 **Work Order #...:** F57M31AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	12	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	108	(76 - 129)
Dibromofluoromethane	105	(81 - 128)
1,2-Dichloroethane-d4	115	(77 - 130)
4-Bromofluorobenzene	97	(58 - 144)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

THE FORRESTER GROUP

Client Sample ID: SSB-13C

GC/MS Volatiles

Lot-Sample #...: F3L080125-010 **Work Order #...:** F57M32AC **Matrix.....:** SOLID
Date Sampled...: 12/04/03 15:15 **Date Received..:** 12/05/03
Prep Date.....: 12/18/03 **Analysis Date..:** 12/19/03
Prep Batch #...: 3353164 **Analysis Time..:** 05:17
Dilution Factor: 1.79
% Moisture.....: 13 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	2100	ug/kg
Benzene	ND	520	ug/kg
Bromodichloromethane	ND	520	ug/kg
Bromoform	ND	520	ug/kg
Bromomethane	ND	1000	ug/kg
2-Butanone (MEK)	ND	2100	ug/kg
Carbon disulfide	ND	520	ug/kg
Carbon tetrachloride	ND	520	ug/kg
Chlorobenzene	ND	520	ug/kg
Dibromochloromethane	ND	520	ug/kg
Chloroethane	ND	520	ug/kg
Chloroform	ND	520	ug/kg
Chloromethane (Methyl Chloride)	ND	1000	ug/kg
1,1-Dichloroethane	ND	520	ug/kg
1,2-Dichloroethane	ND	520	ug/kg
cis-1,2-Dichloroethene	ND	520	ug/kg
trans-1,2-Dichloroethene	ND	520	ug/kg
1,1-Dichloroethene	ND	520	ug/kg
1,2-Dichloroethene (total)	ND	1000	ug/kg
1,2-Dichloropropane	ND	520	ug/kg
cis-1,3-Dichloropropene	ND	520	ug/kg
trans-1,3-Dichloropropene	ND	520	ug/kg
Ethylbenzene	ND	520	ug/kg
2-Hexanone	ND	1000	ug/kg
Methylene chloride	ND	520	ug/kg
4-Methyl-2-pentanone	ND	2100	ug/kg
Styrene	ND	520	ug/kg
1,1,2,2-Tetrachloroethane	ND	520	ug/kg
Tetrachloroethene	**980**	**520**	**ug/kg**
Toluene	ND	520	ug/kg
1,1,1-Trichloroethane	ND	520	ug/kg
1,1,2-Trichloroethane	ND	520	ug/kg
Trichloroethene	ND	520	ug/kg
Vinyl chloride	ND	520	ug/kg
m-Xylene & p-Xylene	ND	520	ug/kg
o-Xylene	ND	520	ug/kg

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THE FORRESTER GROUP

Client Sample ID: SSB-13C

GC/MS Volatiles

Lot-Sample #...: F3L080125-010 **Work Order #...:** F57M32AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	1000	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	92	(52 - 132)
Dibromofluoromethane	95	(61 - 130)
1,2-Dichloroethane-d4	100	(55 - 136)
4-Bromofluorobenzene	113	(47 - 129)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

THE FORRESTER GROUP

Client Sample ID: SSB-13C

General Chemistry

Lot-Sample #...: F3L080125-010 **Work Order #...:** F57M3 **Matrix.....:** SOLID
Date Sampled...: 12/04/03 15:15 **Date Received..:** 12/05/03
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**13.3**	**0.10**	**%**	**MCAWW 160.3 MOD**	**12/09/03**	**3343096**

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: SSB-15B

GC/MS Volatiles

Lot-Sample #...: F3L080125-011 **Work Order #...:** F57M41AC **Matrix.....:** SOLID
Date Sampled...: 12/04/03 16:00 **Date Received..:** 12/05/03
Prep Date.....: 12/18/03 **Analysis Date..:** 12/18/03
Prep Batch #...: 3353155 **Analysis Time..:** 21:38
Dilution Factor: 0.77
% Moisture.....: 18 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**39**	**19**	**ug/kg**
Benzene	ND	4.7	ug/kg
Bromodichloromethane	ND	4.7	ug/kg
Bromoform	ND	4.7	ug/kg
Bromomethane	ND	9.4	ug/kg
2-Butanone (MEK)	ND	19	ug/kg
Carbon disulfide	ND	4.7	ug/kg
Carbon tetrachloride	ND	4.7	ug/kg
Chlorobenzene	ND	4.7	ug/kg
Dibromochloromethane	ND	4.7	ug/kg
Chloroethane	ND	4.7	ug/kg
Chloroform	ND	4.7	ug/kg
Chloromethane (Methyl Chloride)	ND	9.4	ug/kg
1,1-Dichloroethane	**1.7 J**	**4.7**	**ug/kg**
1,2-Dichloroethane	**1.0 J**	**4.7**	**ug/kg**
cis-1,2-Dichloroethene	**98**	**4.7**	**ug/kg**
trans-1,2-Dichloroethene	**0.70 J**	**4.7**	**ug/kg**
1,1-Dichloroethene	ND	4.7	ug/kg
1,2-Dichloroethene (total)	**99**	**9.4**	**ug/kg**
1,2-Dichloropropane	ND	4.7	ug/kg
cis-1,3-Dichloropropene	ND	4.7	ug/kg
trans-1,3-Dichloropropene	ND	4.7	ug/kg
Ethylbenzene	ND	4.7	ug/kg
2-Hexanone	ND	9.4	ug/kg
Methylene chloride	ND	4.7	ug/kg
4-Methyl-2-pentanone	ND	19	ug/kg
Styrene	ND	4.7	ug/kg
1,1,2,2-Tetrachloroethane	ND	4.7	ug/kg
Tetrachloroethene	**320 E**	**4.7**	**ug/kg**
Toluene	ND	4.7	ug/kg
1,1,1-Trichloroethane	ND	4.7	ug/kg
1,1,2-Trichloroethane	ND	4.7	ug/kg
Trichloroethene	**11**	**4.7**	**ug/kg**
Vinyl chloride	ND	4.7	ug/kg
m-Xylene & p-Xylene	ND	4.7	ug/kg
o-Xylene	ND	4.7	ug/kg

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THE FORRESTER GROUP

Client Sample ID: SSB-15B

GC/MS Volatiles

Lot-Sample #...: F3L080125-011 **Work Order #...:** F57M41AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	9.4	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	103	(76 - 129)
Dibromofluoromethane	100	(81 - 128)
1,2-Dichloroethane-d4	108	(77 - 130)
4-Bromofluorobenzene	90	(58 - 144)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

THE FORRESTER GROUP

Client Sample ID: SSB-15B

GC/MS Volatiles

Lot-Sample #...: F3L080125-011 **Work Order #...:** F57M42AC **Matrix.....:** SOLID
Date Sampled...: 12/04/03 16:00 **Date Received..:** 12/05/03
Prep Date.....: 12/18/03 **Analysis Date..:** 12/19/03
Prep Batch #...: 3353164 **Analysis Time..:** 05:50
Dilution Factor: 1.57
% Moisture.....: 18 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	1900	ug/kg
Benzene	ND	480	ug/kg
Bromodichloromethane	ND	480	ug/kg
Bromoform	ND	480	ug/kg
Bromomethane	ND	950	ug/kg
2-Butanone (MEK)	ND	1900	ug/kg
Carbon disulfide	ND	480	ug/kg
Carbon tetrachloride	ND	480	ug/kg
Chlorobenzene	ND	480	ug/kg
Dibromochloromethane	ND	480	ug/kg
Chloroethane	ND	480	ug/kg
Chloroform	ND	480	ug/kg
Chloromethane (Methyl Chloride)	ND	950	ug/kg
1,1-Dichloroethane	ND	480	ug/kg
1,2-Dichloroethane	ND	480	ug/kg
cis-1,2-Dichloroethene	ND	480	ug/kg
trans-1,2-Dichloroethene	ND	480	ug/kg
1,1-Dichloroethene	ND	480	ug/kg
1,2-Dichloroethene (total)	ND	950	ug/kg
1,2-Dichloropropane	ND	480	ug/kg
cis-1,3-Dichloropropene	ND	480	ug/kg
trans-1,3-Dichloropropene	ND	480	ug/kg
Ethylbenzene	ND	480	ug/kg
2-Hexanone	ND	950	ug/kg
Methylene chloride	ND	480	ug/kg
4-Methyl-2-pentanone	ND	1900	ug/kg
Styrene	ND	480	ug/kg
1,1,2,2-Tetrachloroethane	ND	480	ug/kg
Tetrachloroethene	**710**	**480**	**ug/kg**
Toluene	ND	480	ug/kg
1,1,1-Trichloroethane	ND	480	ug/kg
1,1,2-Trichloroethane	ND	480	ug/kg
Trichloroethene	ND	480	ug/kg
Vinyl chloride	ND	480	ug/kg
m-Xylene & p-Xylene	ND	480	ug/kg
o-Xylene	ND	480	ug/kg

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THE FORRESTER GROUP

Client Sample ID: SSB-15B

GC/MS Volatiles

Lot-Sample #...: F3L080125-011 **Work Order #...:** F57M42AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	950	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	90	(52 - 132)
Dibromofluoromethane	94	(61 - 130)
1,2-Dichloroethane-d4	95	(55 - 136)
4-Bromofluorobenzene	112	(47 - 129)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

THE FORRESTER GROUP

Client Sample ID: SSB-15B

General Chemistry

Lot-Sample #...: F3L080125-011 **Work Order #...:** F57M4 **Matrix.....:** SOLID
Date Sampled...: 12/04/03 16:00 **Date Received..:** 12/05/03
% Moisture.....: 18

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**17.7**	**0.10**	**%**	**MCAWW 160.3 MOD**	**12/09/03**	**3343096**

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: DUP-1-031204

GC/MS Volatiles

Lot-Sample #...: F3L080125-012 Work Order #...: F57M51AC Matrix.....: SOLID
Date Sampled...: 12/04/03 16:00 Date Received..: 12/05/03
Prep Date.....: 12/18/03 Analysis Date..: 12/18/03
Prep Batch #...: 3353155 Analysis Time..: 22:12
Dilution Factor: 0.76
% Moisture.....: 18 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**32**	**19**	**ug/kg**
Benzene	ND	4.6	ug/kg
Bromodichloromethane	ND	4.6	ug/kg
Bromoform	ND	4.6	ug/kg
Bromomethane	ND	9.3	ug/kg
2-Butanone (MEK)	ND	19	ug/kg
Carbon disulfide	ND	4.6	ug/kg
Carbon tetrachloride	ND	4.6	ug/kg
Chlorobenzene	ND	4.6	ug/kg
Dibromochloromethane	ND	4.6	ug/kg
Chloroethane	ND	4.6	ug/kg
Chloroform	ND	4.6	ug/kg
Chloromethane (Methyl Chloride)	ND	9.3	ug/kg
1,1-Dichloroethane	**0.86 J**	**4.6**	**ug/kg**
1,2-Dichloroethane	**1.1 J**	**4.6**	**ug/kg**
cis-1,2-Dichloroethene	**67**	**4.6**	**ug/kg**
trans-1,2-Dichloroethene	ND	4.6	ug/kg
1,1-Dichloroethene	ND	4.6	ug/kg
1,2-Dichloroethene (total)	**67**	**9.3**	**ug/kg**
1,2-Dichloropropane	ND	4.6	ug/kg
cis-1,3-Dichloropropene	ND	4.6	ug/kg
trans-1,3-Dichloropropene	ND	4.6	ug/kg
Ethylbenzene	ND	4.6	ug/kg
2-Hexanone	ND	9.3	ug/kg
Methylene chloride	ND	4.6	ug/kg
4-Methyl-2-pentanone	ND	19	ug/kg
Styrene	ND	4.6	ug/kg
1,1,2,2-Tetrachloroethane	ND	4.6	ug/kg
Tetrachloroethene	**190 E**	**4.6**	**ug/kg**
Toluene	ND	4.6	ug/kg
1,1,1-Trichloroethane	ND	4.6	ug/kg
1,1,2-Trichloroethane	ND	4.6	ug/kg
Trichloroethene	**5.9**	**4.6**	**ug/kg**
Vinyl chloride	ND	4.6	ug/kg
m-Xylene & p-Xylene	ND	4.6	ug/kg
o-Xylene	ND	4.6	ug/kg

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THE FORRESTER GROUP

Client Sample ID: DUP-1-031204

GC/MS Volatiles

Lot-Sample #...: F3L080125-012 **Work Order #...:** F57M51AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	9.3	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	132 *	(76 - 129)
Dibromofluoromethane	138 *	(81 - 128)
1,2-Dichloroethane-d4	148 *	(77 - 130)
4-Bromofluorobenzene	113	(58 - 144)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

THE FORRESTER GROUP

Client Sample ID: DUP-1-031204

GC/MS Volatiles

Lot-Sample #...: F3L080125-012 **Work Order #...:** F57M52AC **Matrix.....:** SOLID
Date Sampled...: 12/04/03 16:00 **Date Received..:** 12/05/03
Prep Date.....: 12/18/03 **Analysis Date..:** 12/18/03
Prep Batch #...: 3353149 **Analysis Time..:** 15:59
Dilution Factor: 1.59
% Moisture.....: 18 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	1900	ug/kg
Benzene	ND	480	ug/kg
Bromodichloromethane	ND	480	ug/kg
Bromoform	ND	480	ug/kg
Bromomethane	ND	970	ug/kg
2-Butanone (MEK)	ND	1900	ug/kg
Carbon disulfide	ND	480	ug/kg
Carbon tetrachloride	ND	480	ug/kg
Chlorobenzene	ND	480	ug/kg
Dibromochloromethane	ND	480	ug/kg
Chloroethane	ND	480	ug/kg
Chloroform	ND	480	ug/kg
Chloromethane (Methyl Chloride)	ND	970	ug/kg
1,1-Dichloroethane	ND	480	ug/kg
1,2-Dichloroethane	ND	480	ug/kg
cis-1,2-Dichloroethene	ND	480	ug/kg
trans-1,2-Dichloroethene	ND	480	ug/kg
1,1-Dichloroethene	ND	480	ug/kg
1,2-Dichloroethene (total)	ND	970	ug/kg
1,2-Dichloropropane	ND	480	ug/kg
cis-1,3-Dichloropropene	ND	480	ug/kg
trans-1,3-Dichloropropene	ND	480	ug/kg
Ethylbenzene	ND	480	ug/kg
2-Hexanone	ND	970	ug/kg
Methylene chloride	ND	480	ug/kg
4-Methyl-2-pentanone	ND	1900	ug/kg
Styrene	ND	480	ug/kg
1,1,2,2-Tetrachloroethane	ND	480	ug/kg
Tetrachloroethene	**330 J**	**480**	**ug/kg**
Toluene	ND	480	ug/kg
1,1,1-Trichloroethane	ND	480	ug/kg
1,1,2-Trichloroethane	ND	480	ug/kg
Trichloroethene	ND	480	ug/kg
Vinyl chloride	ND	480	ug/kg
m-Xylene & p-Xylene	ND	480	ug/kg
o-Xylene	ND	480	ug/kg

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THE FORRESTER GROUP

Client Sample ID: DUP-1-031204

GC/MS Volatiles

Lot-Sample #...: F3L080125-012 **Work Order #...:** F57M52AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	970	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	81	(52 - 132)
Dibromofluoromethane	86	(61 - 130)
1,2-Dichloroethane-d4	92	(55 - 136)
4-Bromofluorobenzene	99	(47 - 129)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: DUP-1-031204

General Chemistry

Lot-Sample #...: F3L080125-012 Work Order #...: F57M5 Matrix.....: SOLID
Date Sampled...: 12/04/03 16:00 Date Received..: 12/05/03
% Moisture.....: 18

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	18.0	0.10	%	MCAWW 160.3 MOD	12/09-12/10/03	3343621
		Dilution Factor: 1		Analysis Time..: 00:00		

THE FORRESTER GROUP

Client Sample ID: SSB-6P

General Chemistry

Lot-Sample #...: F3L080125-029 **Work Order #...:** F57Q0 **Matrix.....:** SOLID
Date Sampled...: 12/04/03 09:53 **Date Received..:** 12/05/03
% Moisture.....:

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	**7.0**		**No Units**	**SW846 9045A**	**12/05/03**	**3343146**

Dilution Factor: 1 Analysis Time..: 11:00

THE FORRESTER GROUP

Client Sample ID: SSB-7P

General Chemistry

Lot-Sample #...: F3L080125-030 Work Order #...: F57Q3 Matrix.....: SOLID
Date Sampled...: 12/04/03 10:45 Date Received..: 12/05/03
% Moisture.....:

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	7.6		No Units	SW846 9045A	12/05/03	3343146

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: SSB-8P

General Chemistry

Lot-Sample #...: F3L080125-031 **Work Order #...:** F57Q7 **Matrix.....:** SOLID
Date Sampled...: 12/04/03 11:35 **Date Received..:** 12/05/03
% Moisture.....:

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	7.0		No Units	SW846 9045A	12/05/03	3343146

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: SSB-9P

General Chemistry

Lot-Sample #...: F3L080125-032 **Work Order #...:** F57Q8 **Matrix.....:** SOLID
Date Sampled...: 12/04/03 12:45 **Date Received..:** 12/05/03
% Moisture.....:

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	7.5		No Units	SW846 9045A	12/05/03	3343146

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: SSB-10P

General Chemistry

Lot-Sample #...: F3L080125-033 **Work Order #...:** F57RA **Matrix.....:** SOLID
Date Sampled...: 12/04/03 13:05 **Date Received..:** 12/05/03
% Moisture.....:

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	**8.0**		**No Units**	**SW846 9045A**	**12/05/03**	**3343146**

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: SSB-11P

General Chemistry

Lot-Sample #...: F3L080125-034 Work Order #...: F57RC Matrix.....: SOLID
Date Sampled...: 12/04/03 13:30 Date Received..: 12/05/03
% Moisture.....:

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	8.2		No Units	SW846 9045A	12/05/03	3343146

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: SSB-12P

General Chemistry

Lot-Sample #...: F3L080125-035 **Work Order #...:** F57RE **Matrix.....:** SOLID
Date Sampled...: 12/04/03 13:55 **Date Received..:** 12/05/03
% Moisture.....:

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	7.9		No Units	SW846 9045A	12/05/03	3343146

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: SSB-13P

General Chemistry

Lot-Sample #...: F3L080125-036 Work Order #...: F57RF Matrix.....: SOLID
Date Sampled...: 12/04/03 15:05 Date Received..: 12/05/03
% Moisture.....:

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	7.4		No Units	SW846 9045A	12/05/03	3343146

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: SSB-14P

General Chemistry

Lot-Sample #...: F3L080125-037 **Work Order #...:** F57RH **Matrix.....:** SOLID
Date Sampled...: 12/04/03 15:40 **Date Received..:** 12/05/03
% Moisture.....:

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	**7.6**		**No Units**	**SW846 9045A**	**12/05/03**	**3343146**

Dilution Factor: 1 Analysis Time..: 00:00

THE FORRESTER GROUP

Client Sample ID: SSB-15P

General Chemistry

Lot-Sample #...: F3L080125-038 Work Order #...: F57RM Matrix.....: SOLID
Date Sampled...: 12/04/03 16:00 Date Received..: 12/05/03
% Moisture.....: 19

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	7.3		No Units	SW846 9045A	12/05/03	3343146
		Dilution Factor: 1		Analysis Time..: 00:00		
Percent Moisture	19.3	0.10	%	MCAWW 160.3 MOD	12/09-12/10/03	3343621
		Dilution Factor: 1		Analysis Time..: 00:00		

THE FORRESTER GROUP

Client Sample ID: WS-1-031204

TCLP GC/MS Volatiles

Lot-Sample #...: F3L080125-039 **Work Order #...:** F57RN1AD **Matrix.....:** SOLID
Date Sampled...: 12/04/03 16:55 **Date Received..:** 12/05/03
Leach Date.....: **Prep Date.....:** 12/22/03 **Analysis Date..:** 12/22/03
Leach Batch #..: P334315 **Prep Batch #...:** 3357223 **Analysis Time..:** 22:59
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Vinyl chloride	ND	100	ug/L
1,1-Dichloroethene	ND	50	ug/L
2-Butanone	ND	50	ug/L
Chloroform	ND	50	ug/L
Carbon tetrachloride	ND	50	ug/L
1,2-Dichloroethane	**6.5 J**	**50**	**ug/L**
Benzene	ND	50	ug/L
Trichloroethene	**5.9 J**	**50**	**ug/L**
Tetrachloroethene	**3.8 J**	**50**	**ug/L**
Chlorobenzene	ND	50	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(84 - 125)
Toluene-d8	134 *	(85 - 115)
4-Bromofluorobenzene	102	(76 - 117)
1,2-Dichloroethane-d4	111	(82 - 128)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: WS-1-031204

General Chemistry

Lot-Sample #...: F3L080125-039 **Work Order #...:** F57RN **Matrix.....:** SOLID
Date Sampled...: 12/04/03 16:55 **Date Received..:** 12/05/03
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	8.9		No Units	SW846 9045A	12/05/03	3343146
		Dilution Factor: 1		Analysis Time..: 00:00		
Percent Moisture	14.9	0.10	%	MCAWW 160.3 MOD	12/09-12/10/03	3343621
		Dilution Factor: 1		Analysis Time..: 00:00		

THE FORRESTER GROUP

Client Sample ID: WW-1-031204

GC/MS Volatiles

Lot-Sample #...: F3L080125-040 **Work Order #...:** F57RW1AA **Matrix.....:** WATER
Date Sampled...: 12/04/03 16:50 **Date Received..:** 12/05/03
Prep Date.....: 12/15/03 **Analysis Date..:** 12/15/03
Prep Batch #...: 3350163 **Analysis Time..:** 19:56
Dilution Factor: 1

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	**3.7**	**1.0**	**ug/L**
trans-1,2-Dichloroethene	ND	1.0	ug/L
o-Xylene	**2.1**	**1.0**	**ug/L**
m-Xylene & p-Xylene	**4.6**	**2.0**	**ug/L**
2-Butanone (MEK)	ND	5.0	ug/L
Xylenes (total)	**6.6**	**3.0**	**ug/L**
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	**3.2**	**1.0**	**ug/L**
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	**0.40 J**	**1.0**	**ug/L**
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	**4.9**	**1.0**	**ug/L**
Toluene	**0.81 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	**1.4**	**1.0**	**ug/L**
Styrene	ND	1.0	ug/L
Chloromethane	ND	2.0	ug/L
Bromomethane	ND	2.0	ug/L
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	2.0	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	**3.7**	**2.0**	**ug/L**
Chloroform	**0.87 J**	**1.0**	**ug/L**
1,2-Dichloroethane	**6.6**	**1.0**	**ug/L**
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	**0.48 J**	**1.0**	**ug/L**
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L

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THE FORRESTER GROUP

Client Sample ID: WW-1-031204

GC/MS Volatiles

Lot-Sample #...: F3L080125-040 **Work Order #...:** F57RW1AA **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	68 *	(85 - 116)
Dibromofluoromethane	111	(83 - 125)
1,2-Dichloroethane-d4	135 *	(81 - 122)
4-Bromofluorobenzene	100	(82 - 118)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: WW-1-031204

GC/MS Volatiles

Lot-Sample #...: F3L080125-040 **Work Order #...:** F57RW2AA **Matrix.....:** WATER
Date Sampled...: 12/04/03 16:50 **Date Received..:** 12/05/03
Prep Date.....: 12/15/03 **Analysis Date..:** 12/15/03
Prep Batch #...: 3350163 **Analysis Time..:** 18:18
Dilution Factor: 5

Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
cis-1,2-Dichloroethene	**5.1**	**5.0**	**ug/L**
trans-1,2-Dichloroethene	ND	5.0	ug/L
o-Xylene	**2.8 J**	**5.0**	**ug/L**
m-Xylene & p-Xylene	**8.2 J**	**10**	**ug/L**
2-Butanone (MEK)	ND	25	ug/L
Xylenes (total)	**11 J**	**15**	**ug/L**
1,2-Dichloropropane	ND	5.0	ug/L
cis-1,3-Dichloropropene	ND	5.0	ug/L
Trichloroethene	**2.0 J**	**5.0**	**ug/L**
Dibromochloromethane	ND	5.0	ug/L
1,1,2-Trichloroethane	ND	5.0	ug/L
Benzene	ND	5.0	ug/L
trans-1,3-Dichloropropene	ND	5.0	ug/L
Bromoform	ND	5.0	ug/L
4-Methyl-2-pentanone	ND	25	ug/L
2-Hexanone	ND	25	ug/L
Tetrachloroethene	**4.8 J**	**5.0**	**ug/L**
Toluene	**1.1 J**	**5.0**	**ug/L**
Chlorobenzene	ND	5.0	ug/L
Ethylbenzene	**2.2 J**	**5.0**	**ug/L**
Styrene	ND	5.0	ug/L
Chloromethane	**3.8 J,B**	**10**	**ug/L**
Bromomethane	**4.1 J**	**10**	**ug/L**
Vinyl chloride	ND	10	ug/L
Chloroethane	ND	10	ug/L
Methylene chloride	**3.0 J**	**5.0**	**ug/L**
Acetone	**31**	**10**	**ug/L**
Carbon disulfide	ND	5.0	ug/L
1,1-Dichloroethene	ND	5.0	ug/L
1,1-Dichloroethane	ND	5.0	ug/L
1,2-Dichloroethene (total)	**5.1 J**	**10**	**ug/L**
Chloroform	**0.72 J**	**5.0**	**ug/L**
1,2-Dichloroethane	**6.8**	**5.0**	**ug/L**
1,1,1-Trichloroethane	ND	5.0	ug/L
Carbon tetrachloride	ND	5.0	ug/L
Bromodichloromethane	ND	5.0	ug/L
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L

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THE FORRESTER GROUP

Client Sample ID: WW-1-031204

GC/MS Volatiles

Lot-Sample #...: F3L080125-040 **Work Order #...:** F57RW2AA **Matrix.....:** WATER

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	91	(85 - 116)
Dibromofluoromethane	102	(83 - 125)
1,2-Dichloroethane-d4	111	(81 - 122)
4-Bromofluorobenzene	108	(82 - 118)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F3L080125 **Work Order #...:** F622P1AA **Matrix.....:** WATER
MB Lot-Sample #: F3L160000-163
Prep Date.....: 12/15/03 **Analysis Time..:** 10:44
Analysis Date..: 12/15/03 **Prep Batch #...:** 3350163
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2-Butanone (MEK)	ND	5.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	2.0	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Chloromethane	**1.2 J**	**2.0**	**ug/L**	**SW846 8260B**
Bromomethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Acetone	ND	2.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F3L080125 **Work Order #...:** F622P1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	100	(85 - 116)
Dibromofluoromethane	100	(83 - 125)
1,2-Dichloroethane-d4	103	(81 - 122)
4-Bromofluorobenzene	105	(82 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F3L080125 **Work Order #...:** F63FL1AA **Matrix.....:** SOLID
MB Lot-Sample #: F3L190000-149

Prep Date.....: 12/18/03 **Analysis Time..:** 12:36

Analysis Date..: 12/18/03 **Prep Batch #...:** 3353149
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
m-Xylene & p-Xylene	ND	250	ug/kg	SW846 8260B
Acetone	**420 J**	**1000**	**ug/kg**	**SW846 8260B**
Benzene	ND	250	ug/kg	SW846 8260B
Bromodichloromethane	ND	250	ug/kg	SW846 8260B
Bromoform	ND	250	ug/kg	SW846 8260B
Bromomethane	ND	500	ug/kg	SW846 8260B
Carbon disulfide	ND	250	ug/kg	SW846 8260B
Carbon tetrachloride	ND	250	ug/kg	SW846 8260B
Chlorobenzene	ND	250	ug/kg	SW846 8260B
Dibromochloromethane	ND	250	ug/kg	SW846 8260B
Chloroethane	ND	250	ug/kg	SW846 8260B
Chloroform	ND	250	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	250	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	250	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	250	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	250	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	250	ug/kg	SW846 8260B
1,2-Dichloroethene (total)	ND	500	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	250	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	250	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	250	ug/kg	SW846 8260B
Ethylbenzene	ND	250	ug/kg	SW846 8260B
2-Hexanone	ND	500	ug/kg	SW846 8260B
Methylene chloride	ND	250	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	1000	ug/kg	SW846 8260B
Styrene	ND	250	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	250	ug/kg	SW846 8260B
Tetrachloroethene	ND	250	ug/kg	SW846 8260B
Toluene	ND	250	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	250	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	250	ug/kg	SW846 8260B
Trichloroethene	ND	250	ug/kg	SW846 8260B
Vinyl chloride	ND	250	ug/kg	SW846 8260B
o-Xylene	ND	250	ug/kg	SW846 8260B
Xylenes (total)	ND	500	ug/kg	SW846 8260B
2-Butanone (MEK)	ND	1000	ug/kg	SW846 8260B
Chloromethane (Methyl Chl	ND	500	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F3L080125 **Work Order #...:** F63FL1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	99	(52 - 132)
Dibromofluoromethane	114	(61 - 130)
1,2-Dichloroethane-d4	120	(55 - 136)
4-Bromofluorobenzene	114	(47 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F3L080125 **Work Order #...:** F63FT1AA **Matrix.....:** SOLID
MB Lot-Sample #: F3L190000-155
Prep Date.....: 12/18/03 **Analysis Time..:** 17:09
Analysis Date..: 12/18/03 **Prep Batch #...:** 3353155
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	20	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethene (total)	ND	10	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	10	ug/kg	SW846 8260B
Methylene chloride	**3.0 J**	**5.0**	**ug/kg**	**SW846 8260B**
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
o-Xylene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	10	ug/kg	SW846 8260B
m-Xylene & p-Xylene	ND	5.0	ug/kg	SW846 8260B
2-Butanone (MEK)	ND	20	ug/kg	SW846 8260B
Chloromethane (Methyl Chl	ND	10	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F3L080125 **Work Order #...:** F63FT1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	103	(76 - 129)
Dibromofluoromethane	100	(81 - 128)
1,2-Dichloroethane-d4	95	(77 - 130)
4-Bromofluorobenzene	92	(58 - 144)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F3L080125 **Work Order #...:** F63F91AA **Matrix.....:** SOLID
MB Lot-Sample #: F3L190000-164
Prep Date.....: 12/18/03 **Analysis Time..:** 02:47
Analysis Date..: 12/19/03 **Prep Batch #...:** 3353164
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	**340 J**	**1000**	**ug/kg**	**SW846 8260B**
Benzene	ND	250	ug/kg	SW846 8260B
Bromodichloromethane	ND	250	ug/kg	SW846 8260B
Bromoform	ND	250	ug/kg	SW846 8260B
Bromomethane	ND	500	ug/kg	SW846 8260B
Carbon disulfide	ND	250	ug/kg	SW846 8260B
Carbon tetrachloride	ND	250	ug/kg	SW846 8260B
Chlorobenzene	ND	250	ug/kg	SW846 8260B
Dibromochloromethane	ND	250	ug/kg	SW846 8260B
Chloroethane	ND	250	ug/kg	SW846 8260B
Chloroform	ND	250	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	250	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	250	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	250	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	250	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	250	ug/kg	SW846 8260B
1,2-Dichloroethene (total)	ND	500	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	250	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	250	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	250	ug/kg	SW846 8260B
Ethylbenzene	ND	250	ug/kg	SW846 8260B
2-Hexanone	ND	500	ug/kg	SW846 8260B
Methylene chloride	ND	250	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	1000	ug/kg	SW846 8260B
Styrene	ND	250	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	250	ug/kg	SW846 8260B
Tetrachloroethene	ND	250	ug/kg	SW846 8260B
Toluene	ND	250	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	250	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	250	ug/kg	SW846 8260B
Trichloroethene	ND	250	ug/kg	SW846 8260B
Vinyl chloride	ND	250	ug/kg	SW846 8260B
o-Xylene	ND	250	ug/kg	SW846 8260B
Xylenes (total)	ND	500	ug/kg	SW846 8260B
m-Xylene & p-Xylene	ND	250	ug/kg	SW846 8260B
2-Butanone (MEK)	ND	1000	ug/kg	SW846 8260B
Chloromethane (Methyl Chl	ND	500	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F3L080125 **Work Order #...:** F63F91AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	85	(52 - 132)
Dibromofluoromethane	98	(61 - 130)
1,2-Dichloroethane-d4	101	(55 - 136)
4-Bromofluorobenzene	101	(47 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F3L080125 **Work Order #...:** F6AP71AA **Matrix.....:** SOLID
MB Lot-Sample #: F3L090000-471

Prep Date.....: 12/22/03 **Analysis Time..:** 21:17
Analysis Date..: 12/22/03 **Prep Batch #...:** 3357223
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Vinyl chloride	ND	100	ug/L	SW846 8260B
1,1-Dichloroethene	ND	50	ug/L	SW846 8260B
2-Butanone	ND	50	ug/L	SW846 8260B
Chloroform	ND	50	ug/L	SW846 8260B
Carbon tetrachloride	ND	50	ug/L	SW846 8260B
1,2-Dichloroethane	ND	50	ug/L	SW846 8260B
Benzene	ND	50	ug/L	SW846 8260B
Trichloroethene	ND	50	ug/L	SW846 8260B
Tetrachloroethene	ND	50	ug/L	SW846 8260B
Chlorobenzene	ND	50	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	104	(84 - 125)
Toluene-d8	106	(85 - 115)
4-Bromofluorobenzene	105	(76 - 117)
1,2-Dichloroethane-d4	109	(82 - 128)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F3L080125 **Work Order #...:** F6QX81AA **Matrix.....:** SOLID
MB Lot-Sample #: F3L160000-284

Prep Date.....: 12/22/03 **Analysis Time..:** 22:25
Analysis Date..: 12/22/03 **Prep Batch #...:** 3357223
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Vinyl chloride	ND	100	ug/L	SW846 8260B
1,1-Dichloroethene	ND	50	ug/L	SW846 8260B
2-Butanone	ND	50	ug/L	SW846 8260B
Chloroform	ND	50	ug/L	SW846 8260B
Carbon tetrachloride	ND	50	ug/L	SW846 8260B
1,2-Dichloroethane	ND	50	ug/L	SW846 8260B
Benzene	ND	50	ug/L	SW846 8260B
Trichloroethene	ND	50	ug/L	SW846 8260B
Tetrachloroethene	ND	50	ug/L	SW846 8260B
Chlorobenzene	ND	50	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	105	(84 - 125)
Toluene-d8	104	(85 - 115)
4-Bromofluorobenzene	102	(76 - 117)
1,2-Dichloroethane-d4	108	(82 - 128)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F3L080125
MB Lot-Sample #: F3L180000-541
Analysis Date..: 12/23/03
Dilution Factor: 1

Work Order #...: F62K41AA
Prep Date.....: 12/22/03
Prep Batch #...: 3357223

Matrix.....: SOLID
Analysis Time..: 04:50

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Vinyl chloride	ND	100	ug/L	SW846 8260B
1,1-Dichloroethene	ND	50	ug/L	SW846 8260B
2-Butanone	ND	50	ug/L	SW846 8260B
Chloroform	ND	50	ug/L	SW846 8260B
Carbon tetrachloride	ND	50	ug/L	SW846 8260B
1,2-Dichloroethane	ND	50	ug/L	SW846 8260B
Benzene	ND	50	ug/L	SW846 8260B
Trichloroethene	ND	50	ug/L	SW846 8260B
Tetrachloroethene	ND	50	ug/L	SW846 8260B
Chlorobenzene	ND	50	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(84 - 125)
Toluene-d8	105	(85 - 115)
4-Bromofluorobenzene	132 *	(76 - 117)
1,2-Dichloroethane-d4	113	(82 - 128)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

* Surrogate recovery is outside stated control limits.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F3L080125
MB Lot-Sample #: F3L230000-223
Analysis Date..: 12/22/03
Dilution Factor: 1

Work Order #...: F69AW1AD
Prep Date.....: 12/22/03
Prep Batch #...: 3357223

Matrix.....: SOLID
Analysis Time..: 19:55

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Vinyl chloride	ND	100	ug/L	SW846 8260B
1,1-Dichloroethene	ND	50	ug/L	SW846 8260B
2-Butanone	ND	50	ug/L	SW846 8260B
Chloroform	ND	50	ug/L	SW846 8260B
Carbon tetrachloride	ND	50	ug/L	SW846 8260B
1,2-Dichloroethane	ND	50	ug/L	SW846 8260B
Benzene	ND	50	ug/L	SW846 8260B
Trichloroethene	ND	50	ug/L	SW846 8260B
Tetrachloroethene	ND	50	ug/L	SW846 8260B
Chlorobenzene	ND	50	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(84 - 125)
Toluene-d8	101	(85 - 115)
4-Bromofluorobenzene	98	(76 - 117)
1,2-Dichloroethane-d4	95	(82 - 128)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F3L080125 Work Order #...: F622P1AC Matrix.....: WATER
LCS Lot-Sample#: F3L160000-163
Prep Date.....: 12/15/03 Analysis Date..: 12/15/03
Prep Batch #...: 3350163 Analysis Time..: 11:17
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2-Butanone (MEK)	98	(53 - 137)	SW846 8260B
m-Xylene & p-Xylene	104	(85 - 117)	SW846 8260B
o-Xylene	104	(85 - 117)	SW846 8260B
1,2-Dichloropropane	104	(80 - 118)	SW846 8260B
cis-1,3-Dichloropropene	105	(76 - 119)	SW846 8260B
Trichloroethene	93	(76 - 118)	SW846 8260B
Dibromochloromethane	109	(85 - 124)	SW846 8260B
1,1,2-Trichloroethane	103	(80 - 114)	SW846 8260B
Benzene	98	(85 - 115)	SW846 8260B
trans-1,3-Dichloropropene	118	(83 - 131)	SW846 8260B
Bromoform	95	(73 - 135)	SW846 8260B
4-Methyl-2-pentanone	101	(46 - 147)	SW846 8260B
2-Hexanone	104	(50 - 150)	SW846 8260B
Tetrachloroethene	96	(72 - 118)	SW846 8260B
Toluene	102	(85 - 115)	SW846 8260B
Chlorobenzene	100	(85 - 115)	SW846 8260B
Ethylbenzene	101	(85 - 116)	SW846 8260B
Styrene	106	(85 - 118)	SW846 8260B
Chloromethane	66	(10 - 150)	SW846 8260B
Bromomethane	39	(10 - 150)	SW846 8260B
Vinyl chloride	58	(10 - 150)	SW846 8260B
Chloroethane	77	(46 - 150)	SW846 8260B
Methylene chloride	85	(21 - 135)	SW846 8260B
Acetone	100	(25 - 150)	SW846 8260B
Carbon disulfide	101	(47 - 150)	SW846 8260B
1,1-Dichloroethene	92	(57 - 146)	SW846 8260B
1,1-Dichloroethane	100	(80 - 116)	SW846 8260B
1,2-Dichloroethene (total)	102	(84 - 120)	SW846 8260B
Chloroform	100	(85 - 117)	SW846 8260B
1,2-Dichloroethane	101	(78 - 116)	SW846 8260B
1,1,1-Trichloroethane	100	(82 - 128)	SW846 8260B
Carbon tetrachloride	99	(75 - 137)	SW846 8260B
Bromodichloromethane	102	(85 - 123)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F3L080125 **Work Order #...:** F622P1AC **Matrix.....:** WATER
LCS Lot-Sample#: F3L160000-163

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1,2,2-Tetrachloroethane	**108**	**(74 - 123)**	**SW846 8260B**
1,3-Dichlorobenzene	**105**	**(85 - 115)**	**SW846 8260B**
1,4-Dichlorobenzene	**103**	**(85 - 115)**	**SW846 8260B**
1,2-Dichlorobenzene	**104**	**(85 - 115)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	100	(85 - 115)
Dibromofluoromethane	101	(85 - 121)
1,2-Dichloroethane-d4	99	(83 - 119)
4-Bromofluorobenzene	108	(84 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F3L080125 Work Order #...: F63FL1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: F3L190000-149 F63FL1AD-LCSD
Prep Date.....: 12/18/03 Analysis Date..: 12/18/03
Prep Batch #...: 3353149 Analysis Time..: 11:04
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
cis-1,3-Dichloropropene	103	(81 - 114)			SW846 8260B
	103	(81 - 114)	0.66	(0-20)	SW846 8260B
Dibromochloromethane	89	(82 - 120)			SW846 8260B
	95	(82 - 120)	6.7	(0-20)	SW846 8260B
Chloromethane (Methyl Chlo	59	(10 - 150)			SW846 8260B
	45 p	(10 - 150)	26	(0-20)	SW846 8260B
Vinyl chloride	70	(10 - 150)			SW846 8260B
	58	(10 - 150)	19	(0-20)	SW846 8260B
Bromomethane	72	(10 - 127)			SW846 8260B
	62	(10 - 127)	16	(0-20)	SW846 8260B
Chloroethane	103	(13 - 150)			SW846 8260B
	81 p	(13 - 150)	24	(0-20)	SW846 8260B
Acetone	96	(31 - 150)			SW846 8260B
	70 p	(31 - 150)	31	(0-20)	SW846 8260B
1,1-Dichloroethene	115	(65 - 133)			SW846 8260B
	95	(65 - 133)	19	(0-20)	SW846 8260B
Methylene chloride	94	(48 - 124)			SW846 8260B
	95	(48 - 124)	0.50	(0-20)	SW846 8260B
Carbon disulfide	97	(55 - 143)			SW846 8260B
	99	(55 - 143)	2.3	(0-20)	SW846 8260B
1,1-Dichloroethane	97	(75 - 119)			SW846 8260B
	100	(75 - 119)	2.7	(0-20)	SW846 8260B
2-Butanone (MEK)	83	(71 - 150)			SW846 8260B
	83	(71 - 150)	0.090	(0-20)	SW846 8260B
1,2-Dichloroethene (total)	101	(80 - 123)			SW846 8260B
	102	(80 - 123)	1.3	(0-20)	SW846 8260B
Chloroform	98	(85 - 120)			SW846 8260B
	101	(85 - 120)	3.0	(0-20)	SW846 8260B
1,1,1-Trichloroethane	101	(81 - 123)			SW846 8260B
	104	(81 - 123)	2.8	(0-20)	SW846 8260B
Carbon tetrachloride	99	(76 - 121)			SW846 8260B
	104	(76 - 121)	4.9	(0-20)	SW846 8260B
1,2-Dichloroethane	100	(73 - 121)			SW846 8260B
	103	(73 - 121)	3.1	(0-20)	SW846 8260B
Benzene	91	(81 - 114)			SW846 8260B
	93	(81 - 114)	2.4	(0-20)	SW846 8260B
Trichloroethene	95	(76 - 115)			SW846 8260B
	97	(76 - 115)	2.2	(0-20)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F3L080125 **Work Order #...:** F63FL1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: F3L190000-149 F63FL1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dichloropropane	98	(79 - 120)			SW846 8260B
	101	(79 - 120)	3.4	(0-20)	SW846 8260B
1,1,2-Trichloroethane	83	(76 - 118)			SW846 8260B
	86	(76 - 118)	4.0	(0-20)	SW846 8260B
trans-1,3-Dichloropropene	93	(77 - 132)			SW846 8260B
	100	(77 - 132)	6.7	(0-20)	SW846 8260B
Toluene	88	(76 - 117)			SW846 8260B
	95	(76 - 117)	7.7	(0-20)	SW846 8260B
m-Xylene & p-Xylene	110	(82 - 115)			SW846 8260B
	112	(82 - 115)	1.5	(0-20)	SW846 8260B
o-Xylene	113	(84 - 118)			SW846 8260B
	114	(84 - 118)	1.0	(0-20)	SW846 8260B
2-Hexanone	78	(62 - 137)			SW846 8260B
	79	(62 - 137)	0.91	(0-20)	SW846 8260B
4-Methyl-2-pentanone	62	(33 - 117)			SW846 8260B
	59	(33 - 117)	5.0	(0-20)	SW846 8260B
Chlorobenzene	105	(85 - 115)			SW846 8260B
	109	(85 - 115)	3.0	(0-20)	SW846 8260B
Tetrachloroethene	78	(69 - 115)			SW846 8260B
	83	(69 - 115)	5.8	(0-20)	SW846 8260B
Ethylbenzene	106	(80 - 118)			SW846 8260B
	113	(80 - 118)	6.7	(0-20)	SW846 8260B
Xylenes (total)	111	(84 - 115)			SW846 8260B
	112	(84 - 115)	1.3	(0-20)	SW846 8260B
Styrene	114	(83 - 117)			SW846 8260B
	116	(83 - 117)	1.1	(0-20)	SW846 8260B
Bromoform	104	(76 - 131)			SW846 8260B
	106	(76 - 131)	1.9	(0-20)	SW846 8260B
1,1,2,2-Tetrachloroethane	109	(69 - 125)			SW846 8260B
	110	(69 - 125)	1.8	(0-20)	SW846 8260B
Bromodichloromethane	98	(84 - 120)			SW846 8260B
	99	(84 - 120)	1.2	(0-20)	SW846 8260B
Bromochloromethane	91	(80 - 124)			SW846 8260B
	96	(80 - 124)	5.1	(0-20)	SW846 8260B
1,3-Dichlorobenzene	105	(82 - 117)			SW846 8260B
	106	(82 - 117)	1.2	(0-20)	SW846 8260B
1,4-Dichlorobenzene	101	(80 - 114)			SW846 8260B
	103	(80 - 114)	1.8	(0-20)	SW846 8260B
1,2-Dichlorobenzene	103	(81 - 119)			SW846 8260B
	105	(81 - 119)	1.4	(0-20)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F3L080125 **Work Order #...:** F63FL1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: F3L190000-149 F63FL1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	95	(79 - 119)
	92	(79 - 119)
Dibromofluoromethane	104	(80 - 120)
	95	(80 - 120)
1,2-Dichloroethane-d4	109	(75 - 126)
	98	(75 - 126)
4-Bromofluorobenzene	108	(75 - 121)
	102	(75 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F3L080125 Work Order #...: F63FT1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: F3L190000-155 F63FT1AD-LCSD
Prep Date.....: 12/18/03 Analysis Date..: 12/18/03
Prep Batch #...: 3353155 Analysis Time..: 16:02
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
cis-1,3-Dichloropropene	102	(78 - 116)			SW846 8260B
	90	(78 - 116)	12	(0-20)	SW846 8260B
Dibromochloromethane	108	(84 - 122)			SW846 8260B
	96	(84 - 122)	12	(0-20)	SW846 8260B
Chloromethane (Methyl Chlo	46	(10 - 150)			SW846 8260B
	41	(10 - 150)	11	(0-20)	SW846 8260B
Vinyl chloride	62	(10 - 150)			SW846 8260B
	59	(10 - 150)	4.2	(0-20)	SW846 8260B
Bromomethane	62	(19 - 150)			SW846 8260B
	57	(19 - 150)	8.2	(0-20)	SW846 8260B
Chloroethane	103	(50 - 150)			SW846 8260B
	83 p	(50 - 150)	22	(0-20)	SW846 8260B
Acetone	88	(31 - 150)			SW846 8260B
	64 p	(31 - 150)	31	(0-20)	SW846 8260B
1,1-Dichloroethene	107	(73 - 136)			SW846 8260B
	101	(73 - 136)	5.3	(0-20)	SW846 8260B
Methylene chloride	77	(39 - 128)			SW846 8260B
	63	(39 - 128)	20	(0-20)	SW846 8260B
Carbon disulfide	103	(56 - 150)			SW846 8260B
	104	(56 - 150)	0.32	(0-20)	SW846 8260B
1,1-Dichloroethane	102	(76 - 118)			SW846 8260B
	97	(76 - 118)	4.8	(0-20)	SW846 8260B
2-Butanone (MEK)	104	(73 - 145)			SW846 8260B
	83 p	(73 - 145)	23	(0-20)	SW846 8260B
1,2-Dichloroethene (total)	107	(83 - 123)			SW846 8260B
	101	(83 - 123)	5.3	(0-20)	SW846 8260B
Chloroform	99	(85 - 120)			SW846 8260B
	95	(85 - 120)	4.9	(0-20)	SW846 8260B
1,1,1-Trichloroethane	100	(84 - 124)			SW846 8260B
	106	(84 - 124)	6.1	(0-20)	SW846 8260B
Carbon tetrachloride	101	(81 - 122)			SW846 8260B
	108	(81 - 122)	6.3	(0-20)	SW846 8260B
1,2-Dichloroethane	96	(78 - 116)			SW846 8260B
	82	(78 - 116)	15	(0-20)	SW846 8260B
Benzene	98	(81 - 115)			SW846 8260B
	97	(81 - 115)	1.2	(0-20)	SW846 8260B
Trichloroethene	99	(76 - 115)			SW846 8260B
	102	(76 - 115)	2.6	(0-20)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F3L080125 Work Order #...: F63FT1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: F3L190000-155 F63FT1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dichloropropane	100	(78 - 119)			SW846 8260B
	95	(78 - 119)	5.1	(0-20)	SW846 8260B
Bromodichloromethane	97	(85 - 120)			SW846 8260B
	87	(85 - 120)	10	(0-20)	SW846 8260B
1,1,2-Trichloroethane	105	(78 - 116)			SW846 8260B
	91	(78 - 116)	15	(0-20)	SW846 8260B
trans-1,3-Dichloropropene	109	(79 - 131)			SW846 8260B
	93	(79 - 131)	16	(0-20)	SW846 8260B
Toluene	100	(79 - 116)			SW846 8260B
	106	(79 - 116)	5.9	(0-20)	SW846 8260B
m-Xylene & p-Xylene	105	(83 - 115)			SW846 8260B
	110	(83 - 115)	4.6	(0-20)	SW846 8260B
o-Xylene	108	(85 - 117)			SW846 8260B
	112	(85 - 117)	3.6	(0-20)	SW846 8260B
2-Hexanone	107	(60 - 143)			SW846 8260B
	82 p	(60 - 143)	26	(0-20)	SW846 8260B
4-Methyl-2-pentanone	72	(34 - 124)			SW846 8260B
	56 p	(34 - 124)	25	(0-20)	SW846 8260B
Chlorobenzene	106	(85 - 115)			SW846 8260B
	105	(85 - 115)	0.72	(0-20)	SW846 8260B
Bromoform	114	(77 - 134)			SW846 8260B
	96	(77 - 134)	18	(0-20)	SW846 8260B
Ethylbenzene	104	(84 - 115)			SW846 8260B
	113	(84 - 115)	8.3	(0-20)	SW846 8260B
Styrene	107	(84 - 115)			SW846 8260B
	106	(84 - 115)	0.99	(0-20)	SW846 8260B
1,1,2,2-Tetrachloroethane	115	(72 - 122)			SW846 8260B
	97	(72 - 122)	17	(0-20)	SW846 8260B
Tetrachloroethene	96	(71 - 115)			SW846 8260B
	106	(71 - 115)	9.6	(0-20)	SW846 8260B
1,3-Dichlorobenzene	107	(84 - 116)			SW846 8260B
	110	(84 - 116)	2.5	(0-20)	SW846 8260B
1,4-Dichlorobenzene	104	(83 - 115)			SW846 8260B
	102	(83 - 115)	1.3	(0-20)	SW846 8260B
1,2-Dichlorobenzene	109	(84 - 119)			SW846 8260B
	107	(84 - 119)	1.6	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	100	(85 - 115)
	107	(85 - 115)
Dibromofluoromethane	99	(85 - 118)
	93	(85 - 118)
1,2-Dichloroethane-d4	95	(82 - 120)
	83	(82 - 120)

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F3L080125 **Work Order #...:** F63FT1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: F3L190000-155 F63FT1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	101	(79 - 120)
	103	(79 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F3L080125 Work Order #...: F63F91AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: F3L190000-164 F63F91AD-LCSD
Prep Date.....: 12/18/03 Analysis Date..: 12/19/03
Prep Batch #...: 3353164 Analysis Time..: 01:47
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
cis-1,3-Dichloropropene	101	(81 - 114)			SW846 8260B
	99	(81 - 114)	2.5	(0-20)	SW846 8260B
Dibromochloromethane	89	(82 - 120)			SW846 8260B
	92	(82 - 120)	3.1	(0-20)	SW846 8260B
Chloromethane (Methyl Chlo	105	(10 - 150)			SW846 8260B
	90	(10 - 150)	15	(0-20)	SW846 8260B
Vinyl chloride	117	(10 - 150)			SW846 8260B
	100	(10 - 150)	15	(0-20)	SW846 8260B
Bromomethane	89	(10 - 127)			SW846 8260B
	80	(10 - 127)	11	(0-20)	SW846 8260B
Chloroethane	111	(13 - 150)			SW846 8260B
	100	(13 - 150)	10	(0-20)	SW846 8260B
Acetone	57	(31 - 150)			SW846 8260B
	58	(31 - 150)	1.6	(0-20)	SW846 8260B
1,1-Dichloroethene	105	(65 - 133)			SW846 8260B
	109	(65 - 133)	3.6	(0-20)	SW846 8260B
Methylene chloride	97	(48 - 124)			SW846 8260B
	98	(48 - 124)	1.1	(0-20)	SW846 8260B
Carbon disulfide	115	(55 - 143)			SW846 8260B
	116	(55 - 143)	1.3	(0-20)	SW846 8260B
1,1-Dichloroethane	99	(75 - 119)			SW846 8260B
	100	(75 - 119)	1.4	(0-20)	SW846 8260B
2-Butanone (MEK)	79	(71 - 150)			SW846 8260B
	82	(71 - 150)	3.4	(0-20)	SW846 8260B
1,2-Dichloroethene (total)	100	(80 - 123)			SW846 8260B
	101	(80 - 123)	0.91	(0-20)	SW846 8260B
Chloroform	99	(85 - 120)			SW846 8260B
	100	(85 - 120)	1.1	(0-20)	SW846 8260B
1,1,1-Trichloroethane	103	(81 - 123)			SW846 8260B
	104	(81 - 123)	1.7	(0-20)	SW846 8260B
Carbon tetrachloride	102	(76 - 121)			SW846 8260B
	104	(76 - 121)	2.6	(0-20)	SW846 8260B
1,2-Dichloroethane	101	(73 - 121)			SW846 8260B
	102	(73 - 121)	1.3	(0-20)	SW846 8260B
Benzene	90	(81 - 114)			SW846 8260B
	93	(81 - 114)	3.2	(0-20)	SW846 8260B
Trichloroethene	94	(76 - 115)			SW846 8260B
	95	(76 - 115)	1.1	(0-20)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F3L080125 Work Order #...: F63F91AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: F3L190000-164 F63F91AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dichloropropane	98	(79 - 120)			SW846 8260B
	100	(79 - 120)	1.7	(0-20)	SW846 8260B
1,1,2-Trichloroethane	81	(76 - 118)			SW846 8260B
	86	(76 - 118)	6.6	(0-20)	SW846 8260B
trans-1,3-Dichloropropene	94	(77 - 132)			SW846 8260B
	95	(77 - 132)	1.4	(0-20)	SW846 8260B
Toluene	87	(76 - 117)			SW846 8260B
	96	(76 - 117)	9.8	(0-20)	SW846 8260B
m-Xylene & p-Xylene	104	(82 - 115)			SW846 8260B
	111	(82 - 115)	6.0	(0-20)	SW846 8260B
o-Xylene	110	(84 - 118)			SW846 8260B
	114	(84 - 118)	3.9	(0-20)	SW846 8260B
2-Hexanone	71	(62 - 137)			SW846 8260B
	73	(62 - 137)	2.5	(0-20)	SW846 8260B
4-Methyl-2-pentanone	55	(33 - 117)			SW846 8260B
	54	(33 - 117)	1.7	(0-20)	SW846 8260B
Chlorobenzene	103	(85 - 115)			SW846 8260B
	108	(85 - 115)	4.8	(0-20)	SW846 8260B
Tetrachloroethene	77	(69 - 115)			SW846 8260B
	80	(69 - 115)	4.1	(0-20)	SW846 8260B
Ethylbenzene	106	(80 - 118)			SW846 8260B
	110	(80 - 118)	3.6	(0-20)	SW846 8260B
Xylenes (total)	106	(84 - 115)			SW846 8260B
	112	(84 - 115)	5.3	(0-20)	SW846 8260B
Styrene	112	(83 - 117)			SW846 8260B
	114	(83 - 117)	2.3	(0-20)	SW846 8260B
Bromoform	105	(76 - 131)			SW846 8260B
	101	(76 - 131)	3.2	(0-20)	SW846 8260B
1,1,2,2-Tetrachloroethane	106	(69 - 125)			SW846 8260B
	107	(69 - 125)	1.2	(0-20)	SW846 8260B
Bromodichloromethane	103	(84 - 120)			SW846 8260B
	99	(84 - 120)	3.9	(0-20)	SW846 8260B
Bromochloromethane	91	(80 - 124)			SW846 8260B
	94	(80 - 124)	3.4	(0-20)	SW846 8260B
1,3-Dichlorobenzene	103	(82 - 117)			SW846 8260B
	106	(82 - 117)	3.1	(0-20)	SW846 8260B
1,4-Dichlorobenzene	98	(80 - 114)			SW846 8260B
	101	(80 - 114)	3.0	(0-20)	SW846 8260B
1,2-Dichlorobenzene	103	(81 - 119)			SW846 8260B
	106	(81 - 119)	3.2	(0-20)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F3L080125 **Work Order #...:** F63F91AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: F3L190000-164 F63F91AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	83	(79 - 119)
	91	(79 - 119)
Dibromofluoromethane	92	(80 - 120)
	93	(80 - 120)
1,2-Dichloroethane-d4	93	(75 - 126)
	95	(75 - 126)
4-Bromofluorobenzene	100	(75 - 121)
	111	(75 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F3L080125 **Work Order #...:** F69AW1AC **Matrix.....:** SOLID
LCS Lot-Sample#: F3L230000-223
Prep Date.....: 12/22/03 **Analysis Date..:** 12/22/03
Prep Batch #...: 3357223 **Analysis Time..:** 18:50
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Vinyl chloride	**109**	**(10 - 150)**	**SW846 8260B**
1,1-Dichloroethene	**126**	**(71 - 130)**	**SW846 8260B**
2-Butanone	**105**	**(64 - 150)**	**SW846 8260B**
Chloroform	**102**	**(85 - 119)**	**SW846 8260B**
Carbon tetrachloride	**103**	**(75 - 124)**	**SW846 8260B**
1,2-Dichloroethane	**103**	**(76 - 115)**	**SW846 8260B**
Benzene	**102**	**(83 - 115)**	**SW846 8260B**
Trichloroethene	**102**	**(73 - 115)**	**SW846 8260B**
Tetrachloroethene	**93**	**(70 - 115)**	**SW846 8260B**
Chlorobenzene	**107**	**(85 - 115)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(85 - 117)
Toluene-d8	101	(85 - 115)
4-Bromofluorobenzene	99	(84 - 117)
1,2-Dichloroethane-d4	99	(82 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: F3L080125 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)		Work Order #: F587N1AA	LCS Lot-Sample#: F3L090000-146		
	100	(99 - 101)	SW846 9045A	12/05/03	3343146
		Dilution Factor: 1	Analysis Time..: 00:00		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F3L080125 **Work Order #...:** F6HA81AG-MS **Matrix.....:** SOLID
MS Lot-Sample #: F3L110349-001 F6HA81AH-MSD
Date Sampled...: 12/09/03 10:55 **Date Received..:** 12/11/03
Prep Date.....: 12/22/03 **Analysis Date..:** 12/23/03
Prep Batch #...: 3357223 **Analysis Time..:** 00:47
Dilution Factor: 1 **% Moisture.....:** 4.0

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Vinyl chloride	**86**	**(12 - 150)**			**SW846 8260B**
	87	**(12 - 150)**	**1.6**	**(0-30)**	**SW846 8260B**
1,1-Dichloroethene	**100**	**(60 - 143)**			**SW846 8260B**
	101	**(60 - 143)**	**0.81**	**(0-30)**	**SW846 8260B**
2-Butanone	**123**	**(62 - 150)**			**SW846 8260B**
	121	**(62 - 150)**	**1.4**	**(0-30)**	**SW846 8260B**
Chloroform	**108**	**(83 - 126)**			**SW846 8260B**
	108	**(83 - 126)**	**0.09**	**(0-30)**	**SW846 8260B**
Carbon tetrachloride	**103**	**(71 - 129)**			**SW846 8260B**
	105	**(71 - 129)**	**1.7**	**(0-30)**	**SW846 8260B**
1,2-Dichloroethane	**115**	**(79 - 119)**			**SW846 8260B**
	111	**(79 - 119)**	**3.1**	**(0-30)**	**SW846 8260B**
Benzene	**104**	**(81 - 118)**			**SW846 8260B**
	103	**(81 - 118)**	**0.27**	**(0-30)**	**SW846 8260B**
Trichloroethene	**102**	**(69 - 116)**			**SW846 8260B**
	101	**(69 - 116)**	**1.1**	**(0-30)**	**SW846 8260B**
Tetrachloroethene	**87**	**(64 - 115)**			**SW846 8260B**
	86	**(64 - 115)**	**0.76**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**104**	**(84 - 117)**			**SW846 8260B**
	105	**(84 - 117)**	**0.82**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	115	(84 - 125)
	112	(84 - 125)
Toluene-d8	105	(85 - 115)
	102	(85 - 115)
4-Bromofluorobenzene	137 *	(76 - 117)
	105	(76 - 117)
1,2-Dichloroethane-d4	116	(82 - 128)
	110	(82 - 128)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F3L080125 **Work Order #...:** F529M-SMP F529M-DUP **Matrix.....:** SOLID

Date Sampled...: 12/03/03 11:15 **Date Received..:** 12/04/03

% Moisture.....: 3.6

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #:	F3L050101-001	
	3.6	3.6	%	1.1	(0-30)	MCAWW 160.3 MOD	12/09/03	3343096

Dilution Factor: 1 Analysis Time..: 00:00

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F3L080125 **Work Order #...:** F57Q0-SMP F57Q0-DUP **Matrix.....:** SOLID

Date Sampled...: 12/04/03 09:53 **Date Received..:** 12/05/03

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)						SD Lot-Sample #:	F3L080125-029	
	7.0	7.0	No Units	0.14	(0-30)	SW846 9045A	12/05/03	3343146

Dilution Factor: 1 Analysis Time..: 11:00

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F3L080125 **Work Order #...:** F57RM-SMP F57RM-DUP **Matrix.....:** SOLID

Date Sampled...: 12/04/03 16:00 **Date Received..:** 12/05/03

% Moisture.....: 19

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
						SD Lot-Sample #:	F3L080125-038	
Percent Moisture	19.3	19.5	%	1.1	(0-30)	MCAWW 160.3 MOD	12/09-12/10/03	3343621

Dilution Factor: 1 Analysis Time..: 00:00

F3L080125 CLIENT ANALYSIS SUMMARY

Storage Loc: VL3,S151

Project Manager: CDS | Quote #: 56001 | SDG:

Date Received: 2003-12-05

Project: 14770000 | Brenntag

Analytical Due Date: 2003-12-19

PO#: | Report to: Kim Adams

Report Due Date: 2003-12-22

Client: 111552 THE FORRESTER GROUP

Report Type: D2 xp Deliv - CD & Hardcopy

#SMPS in LOT: 40 | EDD Code: 99

Report Ground Water samples by SDG. Soils can be reported by LoL

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
1	SSB-6A	2003-12-04 / 953	F57MN	SOLID

SAMPLE COMMENTS:

XX	QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	4P	ENCORE (COLD PRESERVATION)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
XX	WM	MCAW W 160.3 MOD	Moisture, Percent (160.3)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
2	SSB-6C	2003-12-04 / 1010	F57MP	SOLID

SAMPLE COMMENTS:

XX	QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	4P	ENCORE (COLD PRESERVATION)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
XX	WM	MCAW W 160.3 MOD	Moisture, Percent (160.3)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
3	SSB-7B	2003-12-04 / 1045	F57MQ	SOLID

SAMPLE COMMENTS:

XX	QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	4P	ENCORE (COLD PRESERVATION)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
XX	WM	MCAW W 160.3 MOD	Moisture, Percent (160.3)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
4	SSB-8B	2003-12-04 / 1110	F57MR	SOLID

SAMPLE COMMENTS:

XX	QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	4P	ENCORE (COLD PRESERVATION)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
XX	WM	MCAW W 160.3 MOD	Moisture, Percent (160.3)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
5	SSB-9A	2003-12-04 / 1205	F57MW	SOLID

SAMPLE COMMENTS:

XX	QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	4P	ENCORE (COLD PRESERVATION)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
XX	WM	MCAW W 160.3 MOD	Moisture, Percent (160.3)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
6	SSB-9C	2003-12-04 / 1245	F57MX	SOLID

SAMPLE COMMENTS:

XX	QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	4P	ENCORE (COLD PRESERVATION)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
XX	WM	MCAW W 160.3 MOD	Moisture, Percent (160.3)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
7	SSB-10B	2003-12-04 / 1305	F57M0	SOLID

SAMPLE COMMENTS:

XX	QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	4P	ENCORE (COLD PRESERVATION)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
XX	WM	MCAW W 160.3 MOD	Moisture, Percent (160.3)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

F3L080125

CLIENT ANALYSIS SUMMARY

Storage Loc: VL3,S151

Project Manager: CDS | Quote #: 56001 | SDG:

Project: 14770000 | Brenntag

PO#: | Report to: Kim Adams

Client: 111552 THE FORRESTER GROUP

Date Received: 2003-12-05
Analytical Due Date: 2003-12-19
Report Due Date: 2003-12-22
Report Type: D2 xp Deliv - CD & Hardcopy
#SMPS in LOT: 40 | EDD Code: 99

Report Ground Water samples by SDG. Soils can be reported by Lot.

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
8	SSB-11B	2003-12-04 / 1330	F57M1	SOLID

SAMPLE COMMENTS:

XX	QK	SW846	8260B	Volatile Organics, GC/MS (8260B)	4P	ENCORE (COLD PRESERVATION)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
XX	WM	MCAW W	160.3 MOD	Moisture, Percent (160.3)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
9	SSB-12B	2003-12-04 / 1355	F57M2	SOLID

SAMPLE COMMENTS:

XX	QK	SW846	8260B	Volatile Organics, GC/MS (8260B)	4P	ENCORE (COLD PRESERVATION)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
XX	WM	MCAW W	160.3 MOD	Moisture, Percent (160.3)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
10	SSB-13C	2003-12-04 / 1515	F57M3	SOLID

SAMPLE COMMENTS:

XX	QK	SW846	8260B	Volatile Organics, GC/MS (8260B)	4P	ENCORE (COLD PRESERVATION)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
XX	WM	MCAW W	160.3 MOD	Moisture, Percent (160.3)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
11	SSB-15B	2003-12-04 / 1600	F57M4	SOLID

SAMPLE COMMENTS:

XX	QK	SW846	8260B	Volatile Organics, GC/MS (8260B)	4P	ENCORE (COLD PRESERVATION)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
XX	WM	MCAW W	160.3 MOD	Moisture, Percent (160.3)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
12	DUP-1-031204	2003-12-04 / 1600	F57M5	SOLID

SAMPLE COMMENTS:

XX	QK	SW846	8260B	Volatile Organics, GC/MS (8260B)	4P	ENCORE (COLD PRESERVATION)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
XX	WM	MCAW W	160.3 MOD	Moisture, Percent (160.3)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
13	SSB-5A	2003-12-04 / 910	F57M6	SOLID

SAMPLE COMMENTS:

XX	ZZ	NONE	NONE	Archive	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06		

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
14	SSB-5B	2003-12-04 / 923	F57M8	SOLID

SAMPLE COMMENTS:

XX	ZZ	NONE	NONE	Archive	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06		

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
15	SSB-6B	2003-12-04 / 953	F57M9	SOLID

SAMPLE COMMENTS:

F3L080125

CLIENT ANALYSIS SUMMARY

Storage Loc: VL3,S151
Date Received: 2003-12-05
Analytical Due Date: 2003-12-19
Report Due Date: 2003-12-22
Report Type: D2 xp Deliv - CD & Hardcopy
EDD Code: 99

Project Manager: CDS
Quote #: 56001
SDG:
Project: 14770000
Brenntag
PO#:
Report to: Kim Adams
Client: 111552 THE FORRESTER GROUP
#SMPS in LOT: 40

Report Ground Water samples by SDG. Soils can be reported by Lot.

XX ZZ NONE NONE Archive 88 NO SAMPLE PREPARATION PERFORMED / DIRECT 01 STANDARD TEST SET PROT: A WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
16	SSB-7A	2003-12-04 / 1045	F57NC	SOLID

SAMPLE COMMENTS:
XX ZZ NONE NONE Archive 88 NO SAMPLE PREPARATION PERFORMED / DIRECT 01 STANDARD TEST SET PROT: A WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
17	SSB-8A	2003-12-04 / 1110	F57NF	SOLID

SAMPLE COMMENTS:
XX ZZ NONE NONE Archive 88 NO SAMPLE PREPARATION PERFORMED / DIRECT 01 STANDARD TEST SET PROT: A WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
18	SSB-8C	2003-12-04 / 1135	F57NH	SOLID

SAMPLE COMMENTS:
XX ZZ NONE NONE Archive 88 NO SAMPLE PREPARATION PERFORMED / DIRECT 01 STANDARD TEST SET PROT: A WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
19	SSB-9B	2003-12-04 / 1205	F57NL	SOLID

SAMPLE COMMENTS:
XX ZZ NONE NONE Archive 88 NO SAMPLE PREPARATION PERFORMED / DIRECT 01 STANDARD TEST SET PROT: A WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
20	SSB-10A	2003-12-04 / 1305	F57NM	SOLID

SAMPLE COMMENTS:
XX ZZ NONE NONE Archive 88 NO SAMPLE PREPARATION PERFORMED / DIRECT 01 STANDARD TEST SET PROT: A WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
21	SSB-11A	2003-12-04 / 1330	F57NN	SOLID

SAMPLE COMMENTS:
XX ZZ NONE NONE Archive 88 NO SAMPLE PREPARATION PERFORMED / DIRECT 01 STANDARD TEST SET PROT: A WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
22	SSB-12A	2003-12-04 / 1355	F57NP	SOLID

SAMPLE COMMENTS:
XX ZZ NONE NONE Archive 88 NO SAMPLE PREPARATION PERFORMED / DIRECT 01 STANDARD TEST SET PROT: A WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
23	SSB-12C	2003-12-04 / 1410	F57NV	SOLID

SAMPLE COMMENTS:
XX ZZ NONE NONE Archive 88 NO SAMPLE PREPARATION PERFORMED / DIRECT 01 STANDARD TEST SET PROT: A WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A

F3L080125 CLIENT ANALYSIS SUMMARY

Storage Loc: VL3,S151
Date Received: 2003-12-05
Analytical Due Date: 2003-12-19
Report Due Date: 2003-12-22
Report Type: D2 xp Deliv - CD & Hardcopy
EDD Code: 99

Project Manager: CDS
Quote #: 56001
SDG:
Project: 14770000
Brenntag
PO#:
Report to: Kim Adams
Client: 111552 THE FORRESTER GROUP
#SMPS in LOT: 40

Report Ground Water samples by SDG. Soils can be reported by Lot.

24	SSB-13A			2003-12-04 / 1505				F57NW		SOLID	
SAMPLE COMMENTS:											
XX ZZ	NONE NONE	Archive	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET		PROT: A	WRK LOC	06	
SAMPLE #	CLIENT SAMPLE ID			DATE/TIME SAMPLED				WORKORDER		A	
25	SSB-13B			2003-12-04 / 1505				F57NX		SOLID	
SAMPLE COMMENTS:											
XX ZZ	NONE NONE	Archive	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET		PROT: A	WRK LOC	06	
SAMPLE #	CLIENT SAMPLE ID			DATE/TIME SAMPLED				WORKORDER		A	
26	SSB-14A			2003-12-04 / 1540				F57N0		SOLID	
SAMPLE COMMENTS:											
XX ZZ	NONE NONE	Archive	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET		PROT: A	WRK LOC	06	
SAMPLE #	CLIENT SAMPLE ID			DATE/TIME SAMPLED				WORKORDER		I	
27	SSB-14B			2003-12-04 / 1540				F57N2		WATER	
SAMPLE COMMENTS:											
XX ZZ	NONE NONE	Archive	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET		PROT: A	WRK LOC	06	
SAMPLE #	CLIENT SAMPLE ID			DATE/TIME SAMPLED				WORKORDER		A	
28	SSB-15A			2003-12-04 / 1600				F57N4		SOLID	
SAMPLE COMMENTS:											
XX ZZ	NONE NONE	Archive	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET		PROT: A	WRK LOC	06	
SAMPLE #	CLIENT SAMPLE ID			DATE/TIME SAMPLED				WORKORDER		A	
29	SSB-6P			2003-12-04 / 953				F57Q0		SOLID	
SAMPLE COMMENTS:											
XX FK	SW846 9045A	pH (9045) - Non-Aqueous	82	LEACHATE, DI (Routine)	01	STANDARD TEST SET		PROT: A	WRK LOC	06	
SAMPLE #	CLIENT SAMPLE ID			DATE/TIME SAMPLED				WORKORDER		A	
30	SSB-7P			2003-12-04 / 1045				F57Q3		SOLID	
SAMPLE COMMENTS:											
XX FK	SW846 9045A	pH (9045) - Non-Aqueous	82	LEACHATE, DI (Routine)	01	STANDARD TEST SET		PROT: A	WRK LOC	06	
SAMPLE #	CLIENT SAMPLE ID			DATE/TIME SAMPLED				WORKORDER		A	
31	SSB-8P			2003-12-04 / 1135				F57Q7		SOLID	
SAMPLE COMMENTS:											
XX FK	SW846 9045A	pH (9045) - Non-Aqueous	82	LEACHATE, DI (Routine)	01	STANDARD TEST SET		PROT: A	WRK LOC	06	
SAMPLE #	CLIENT SAMPLE ID			DATE/TIME SAMPLED				WORKORDER		A	
32	SSB-9P			2003-12-04 / 1245				F57Q8		SOLID	
SAMPLE COMMENTS:											
XX FK	SW846 9045A	pH (9045) - Non-Aqueous	82	LEACHATE, DI (Routine)	01	STANDARD TEST SET		PROT: A	WRK LOC	06	
SAMPLE #	CLIENT SAMPLE ID			DATE/TIME SAMPLED				WORKORDER		A	

F3L080125

CLIENT ANALYSIS SUMMARY

Storage Loc: S151
Date Received: 2003-12-05
Analytical Due Date: 2003-12-19
Report Due Date: 2003-12-22
Report Type: D2 xp Deliv - CD & Hardcopy
EDD Code: 99

Project Manager: CDS
Quote #: 56001
SDG:
Project: 14770000
Brenntag
PO#:
Report to: Kim Adams
Client: 111552 THE FORRESTER GROUP
#SMPS in LOT: 40

Report Ground Water samples by SDG. Soils can be reported by Lot.

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
33	SSB-10P	2003-12-04 / 1305	F57RA	SOLID

SAMPLE COMMENTS:

XX FK	SW846 9045A	pH (9045) - Non-Aqueous	82	LEACHATE, DI (Routine)	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
34	SSB-11P	2003-12-04 / 1330	F57RC	SOLID

SAMPLE COMMENTS:

XX FK	SW846 9045A	pH (9045) - Non-Aqueous	82	LEACHATE, DI (Routine)	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
35	SSB-12P	2003-12-04 / 1355	F57RE	SOLID

SAMPLE COMMENTS:

XX FK	SW846 9045A	pH (9045) - Non-Aqueous	82	LEACHATE, DI (Routine)	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
36	SSB-13P	2003-12-04 / 1505	F57RF	SOLID

SAMPLE COMMENTS:

XX FK	SW846 9045A	pH (9045) - Non-Aqueous	82	LEACHATE, DI (Routine)	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
37	SSB-14P	2003-12-04 / 1540	F57RH	SOLID

SAMPLE COMMENTS:

XX FK	SW846 9045A	pH (9045) - Non-Aqueous	82	LEACHATE, DI (Routine)	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
38	SSB-15P	2003-12-04 / 1600	F57RM	SOLID

SAMPLE COMMENTS:

XX FK	SW846 9045A	pH (9045) - Non-Aqueous	82	LEACHATE, DI (Routine)	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX WM	MCAW W 160.3 MOD	Moisture, Percent (160.3)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	A
39	WS-1-031204	2003-12-04 / 1655	F57RN	SOLID

SAMPLE COMMENTS:

XX QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	56	TCLP(1311-ZHE/filter) -> PURGE-AND-TRAP (Low Level)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N
XX FK	SW846 9045A	pH (9045) - Non-Aqueous	82	LEACHATE, DI (Routine)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	
XX WM	MCAW W 160.3 MOD	Moisture, Percent (160.3)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06	

SAMPLE #	CLIENT SAMPLE ID	DATE/TIME SAMPLED	WORKORDER	!
40	WW-1-031204	2003-12-04 / 1650	F57RW	WATER

SAMPLE COMMENTS:

XX QK	SW846 8260B	Volatile Organics, GC/MS (8260B)	25	PURGE AND TRAP - 25 mL purge (Waters)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: N

LOT # F3L080125

STL ST. LOUIS

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: The Forrester Group	Project Manager: Bob Kick	Date: 12-4-03	Chain of Custody Number: 120696
Address: 605 N. Boonville Ave.	Telephone Number (Area Code)/Fax Number: 417-864-6444 / 417-864-6445	Lab Number	Page 1 of 4
City: Springfield; State: MO; Zip Code: 65806	Site Contact	Lab Contact: Chet Schiebel	
Project Name and Location (State): Brenntag - Wichita, KS	Carrier/Waybill Number: Fed Ex / 830354544841, 830354544863, 830354544852		
Contract/Purchase Order/Quote No.: 14770000			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	5035 T-kable kit	VOCs by 8260B	pH by 9045A	Hold	Special Instructions/ Conditions of Receipt
SSB-5A	12-4-03	9:10				X							1			X	Note 1
SSB-5B	12-4-03	9:23				X							1			X	Note 1
SSB-6A	12-4-03	9:53				X							1			X	
SSB-6B	12-4-03	9:53				X							1			X	
SSB-6C	12-4-03	10:10				X							1			X	Note 1
SSB-6P	12-4-03	9:53				X	1								X		
SSB-7A	12-4-03	10:45				X							1			X	
SSB-7B	12-4-03	10:45				X							1			X	
SSB-7P	12-4-03	10:45				X	1								X		
SSB-8A	12-4-03	11:10				X							1			X	
SSB-8B	12-4-03	11:10				X							1			X	
SSB-8C	12-4-03	11:35				X							1			X	

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [X] 14 Days [ ] 21 Days [ ] Other ____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Sandra L. Potter	12-4-03	20:00	1. Received By: Chain-of-custody sealed in cooler at Fed-Ex drop off location	12-4-03	20:00
2. Relinquished By			2. Received By: Kris Akers	12/5/03	1100
3. Relinquished By			3. Received By		

Comments: Note 1: Sample bubbled upon contact w/ preservative in Vials #1 & #2

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

LOT # F3L080125

STL ST. LOUIS

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: The Forrester Group	Project Manager: Bob Kick	Date: 12-4-03	Chain of Custody Number: 120694
Address: 605 N. Boonville Avenue	Telephone Number (Area Code)/Fax Number: 417-864-6444 / 417-864-6445	Lab Number	Page 2 of 4
City: Springfield, State: MO, Zip Code: 65806	Site Contact	Lab Contact: Chet Schiebel	
Project Name and Location (State): Brownfield - Wichita, KS	Carrier/Waybill Number: Fed Ex / 830 254 544 841, 830 354 544 863, 830 354 544 852		
Contract/Purchase Order/Quote No.: 14770000			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	SOIL Sample kit	VOCs by 8260B	pH by 9045A	Hold	Special Instructions/ Conditions of Receipt
SSB-8P	12-4-03	11:35				X	1								X		
SSB-9A	12-4-03	12:05				X							1			X	
SSB-9B	12-4-03	12:05				X							1			X	
SSB-9C	12-4-03	12:45				X							1			X	Note 1
SSB-9P	12-4-03	12:45				X	1								X		
SSB-10A	12-4-03	13:05				X							1			X	
SSB-10B	12-4-03	13:05				X							1			X	
SSB-10P	12-4-03	13:05				X	1								X		
SSB-11A	12-4-03	13:30				X							1			X	
SSB-11B	12-4-03	13:30				X							1			X	
SSB-11P	12-4-03	13:30				X	1								X		
SSB-12A	12-4-03	13:55				X							1			X	

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [X] 14 Days [ ] 21 Days [ ] Other ____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Sandra L. Potter	12-4-03	20:00	1. Received By: Chain-of-custody sealed in cooler at Fed-Ex dropoff location	12-4-03	20:00
2. Relinquished By			2. Received By: Kris Ochers	12/5/03	1100
3. Relinquished By			3. Received By		

Comments: Note 1: Sample bubbled upon contact with preservative in Vials #1 & #2

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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LOT # F3L080125

STL ST. LOUIS

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: The Forrester Group	Project Manager: Bob Kick	Date: 12-4-03	Chain of Custody Number: 120697
Address: 605 N. Boonville Ave.	Telephone Number (Area Code)/Fax Number: 417-864-6444 / 417-864-6445	Lab Number:	Page 3 of 4
City: Springfield; State: MO; Zip Code: 65806	Site Contact:	Lab Contact: Chet Schiebel	
Project Name and Location (State): Brenntag - Wichita, KS	Carrier/Waybill Number: Fed Ex / 830 354 544 841, 830 354 544 863, 830 354 544 852		
Contract/Purchase Order/Quote No.: 14770000			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	5035 T-handle kit	Analysis (Attach list if more space is needed): VOCs by 8260B	pH by 9045A	Hold	Special Instructions/ Conditions of Receipt
SSB-12B	12-4-03	13:55				X							1			X	
SSB-12C	12-4-03	14:10				X							1			X	Note 1
SSB-12P	12-4-03	13:55				X	1								X		
SSB-13A	12-4-03	15:05				X							1			X	
SSB-13B	12-4-03	15:05				X							1			X	
SSB-13C	12-4-03	15:15				X							1			X	Note 1
SSB-13P	12-4-03	15:05				X	1								X		
SSB-14A	12-4-03	15:40				X							1			X	Note 1
SSB-14B	12-4-03	15:40				X							1			X	
SSB-14P	12-4-03	15:40				X	1								X		
SSB-15A	12-4-03	16:00				X							1			X	
SSB-15B	12-4-03	16:00				X							1			X	

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [X] 14 Days [ ] 21 Days [ ] Other ____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: Sandra L. Potter	12-4-03	20:00	1. Received By: Chain-of-custody sealed in cooler at Fed-Ex drop-off location	12-4-03	20:00
2. Relinquished By:			2. Received By: [signature]	12/5/03	1100
3. Relinquished By:			3. Received By:		

Comments: Note 1: Sample bubbled upon contact w/ preservative in Vials #1 & #2.

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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LOT # F3L080125

STL ST. LOUIS

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: The Forrester Group	Project Manager: Bob Kick	Date: 12-4-03	Chain of Custody Number: 120707
Address: 605 N. Boonville Ave.	Telephone Number (Area Code)/Fax Number: 417-864-6444 / 417-864-6445	Lab Number:	Page 4 of 4
City: Springfield; State: MO; Zip Code: 65806	Site Contact:	Lab Contact: Chet Schiebel	
Project Name and Location (State): Brenntag - Wichita, KS	Carrier/Waybill Number: Fed Ex / 830 354 544 841, 830 354 544 863, 830 354 544 852		
Contract/Purchase Order/Quote No.: 14770000			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	5035 T-bottle kit	VOCs by 8260B	pH by 9045A	TCLP VOCs by 1311, 8260B		Hold	Special Instructions/ Conditions of Receipt
SSB-15P	12-4-03	16:00				X	1								X				
WS-1_031204	12-4-03	16:55				X	2								X	X			
WW-1_031204	12-4-03	16:50	X							2				X					
Dup-1_031204	12-4-03	16:00				X							1					X	

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [X] 14 Days [ ] 21 Days [ ] Other ____

QC Requirements (Specify):

1. Relinquished By: Sandra L. Potter	Date: 12-4-03	Time: 20:00	1. Received By: Chain-of-custody sealed in cooler at Fed-Ex dropoff location	Date: 12-4-03	Time: 20:00
2. Relinquished By:	Date:	Time:	2. Received By: Kris Ahers	Date: 12/5/03	Time: 1100
3. Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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Scheibel, Chester

From: Shiloh Kirkland [shiloh@forrestergroup.com]
Sent: Friday, December 05, 2003 5:20 PM
To: Scheibel, Chester
Cc: Bob Kick; Mannz, Rich
Subject: Additional Instructions for Brenntag soil samples

Hi Chet,

Regarding the VOC soil samples we sent to you this week and requested "HOLD":

Please analyze the following samples for VOCs by 8260B:

- SSB-1B
- SSB-3B
- SSB-4C
- SSB-6A
- SSB-6C
- SSB-7B
- SSB-8B
- SSB-9A
- SSB-9C
- SSB-10B
- SSB-11B
- SSB-12B
- SSB-13C
- SSB-15B
- DUP-1_031204

These samples are on the following Chain-of-Custody:

- COC #120693 and #120695 dated 12-3-03
- COC #120696, #120694, #120697, and #120707 dated 12-4-03

Please continue to hold the other samples. We will let you know early next week what to do with them. Let me or Bob Kick know if you have any questions.

Thank you.

Shiloh Kirkland

SHILOH KIRKLAND
ASSOCIATE
p 417.864.6444 ext 25
shiloh@forrestergroup.com

THE FORRESTER GROUP
Insightful Environmental Solutions
605 North Boonville Avenue
Springfield, Missouri 65806
p 417.864.6444 f 417.864.6445
www.forrestergroup.com

12/5/2003

STL ST SEVERN TRENT STL

Lot No.: F3L080125

Condition Upon Receipt Form
St. Louis Laboratory

Client: Forrester

Date: 12/5/03 Time: 1100

Quote No: 560001

Initiated by: KA

Shipper/No: 830354544863 4811 4852

COC/RFA Numbers: 120696 120697 120694 120707

Condition/Variance (Circle "Y" for yes and "N" for no. If "N" is circled, see notes for explanation):

1.	Y N	Sample received in undamaged condition.	5.	Y N	Sample volume sufficient for analysis.
2.	Y N	Sample received within 4°C ± 2°C*	6.	Y N	Sample received with Chain of Custody.
		Record temperature: 2° all	7.	Y N	Chain of Custody matches sample IDs on containers.
3.	Y N N/A	Sample received with proper pH**.	8.	Y N	Custody seal received intact and tamper evident on cooler.
4.	Y N	Sample received in proper containers.	9.	Y N	Custody seal received intact and tamper evident on bottles.

* Temperature Variance Does Not Affect the Following Analyses: _____

** For DOE-AL (Pantex, LANL, Sandia, Timet) sites, remember to pH all containers received, except for VOA, TOX, and soils.

Notes:

Corrective Action:

☐ Client's Name: _____ Informed verbally on: _____ By: _____

☐ Client's Name: _____ Informed in writing on: _____ By: _____

☐ Sample(s) processed "as is". _____

☐ Sample(s) on hold until: _____ If released, notify: _____

Sample Control Supervisor (or designate) Review: [signature] Date: 12/5/03

Project Management Review: [signature] Date: 12/8/03

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE
THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED
IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIALS AND THE DATE NEXT TO THAT ITEM

7742

SL-ADMIN-0004, Revised 6/5/03
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DIANE SHORT & ASSOCIATES, INC.

1985 S. Depew St. #10
Denver, CO 80227
303-271-9642 Fax 988-4027
dsa@eazy.net

ORGANIC DATA QUALITY REVIEW REPORT
VOLATILE ORGANICS SW-846 METHOD 8260B

SDG: GBD-4 and GBD-1 LOT #: F3L050118, F3L020297 and F3L031153

PROJECT: Brenntag Site, Wichita KS – Forrester Group

LABORATORY: Severn Trent Laboratories, Inc., Earth City, MO

SAMPLE MATRIX: Water SAMPLING DATE (Month/Year): December, 2003

ANALYSES REQUESTED: SW-846 8260B

SAMPLE NO.: 21 waters, including 3 trip blanks, 1 equipment blanks, 1 field duplicates

DATA REVIEWER: Leewaphath Xaiyasang (WXY Consulting)

QA REVIEWER: Diane Short and Associates Inc. INITIALS/DATE: DS 1/21/04

Telephone Logs included Yes____ No__X__

Contractual Violations Yes____ No__X__

The project Quality Assurance Project Plan (QAPP), the EPA Contract Laboratory Program National Functional Guidelines for Organic Review, 1999, and the SW-846 Method 8260B has been referenced by the reviewer to perform this data validation review. The EPA qualifiers have been expanded to include a descriptor code and value to define QC violations and their values, per the approval of the Project Manager. Per the Scope of Work, the review includes validation of all QC forms referencing the above documents. Ten percent of the data are further reviewed for the calculation algorithms and submitted chromatograms and mass spectra as determined by the project manager. General comments regarding the data/ analytical quality are part of the review when raw data are submitted.

I. DELIVERABLES

A. All deliverables were present as specified in the Statement of Work (SOW), SW-846, or in the project contract.
Yes__X__ No____

B. Chain of Custody Documentation was complete and accurate.
Yes__X__ No____

The chain of custody documentation is correct, and signatures are appended properly.
Laboratory Condition upon Receipt Form is properly documented.

C. Samples were received at the required temperature, preservation and intact with no bubbles.
Yes__X__ No____

II. ANALYTICAL REPORT FORMS

A. The Analytical Report or Data Sheets are present and complete for all requested analyses.
Yes__X__ No__

B. Holding Times
1. The contract holding times were met for all analyses (Time of sample receipt to time of analysis (VOA) or extraction and from extraction to analysis).
Yes__X__ No____

2. The Clean Water Act (40 CFR 136) holding times were met for all analyses (14 days from time of sample collection).
Yes__X__ No____

III. INSTRUMENT CALIBRATION - GC/MS

A. Initial Calibration
1. The Response (RF) and Relative Response Factors (RRF) and average RRF for all compounds for all analyses met the contract criteria of >0.05.
Yes____ No__X__ NA____

SDG: GBD-4 and GBD-1

Most calibrations did meet the minimum response requirements. However, in some instances Bromomethane, Acetone, and 2-Butanone had response factors less than the minimum. In these cases, results were qualified for these compounds. For nondetected values, results are qualified as RC#, where # is the value of the low response observed. Such results are considering to be rejected due to the fact that the low response could result in false negatives. For detected values, results are qualified as JC# indicating that the low response could bias the result.
All analyses included the re-injection data are affected by this qualification.

Calibrations having such low response factors are summarized in the table below.

SDG/Lot #	Date/Time	RRFs Out
GBD-4: F3L050118 GBD-1: F3L020297 and F3L031153	11/19/2003 12:37 – 16:22	Bromomethane = 0.04814 Acetone = 0.03163 2-Butanone = 0.0412

2a. The relative standard deviation (RSD) for the five-point calibration was within the 30% limit for the CCCs.

Yes _____ No__X__ NA____

2b. The relative standard deviation (RSD) for the five-point calibration was within the 30% limit for all other compounds or a linear curve was used.
Yes____ No__X__ NA____

SDG: GBD-4 and GBD-1
The %RSD for Methylene chloride was 36.33%, which was outside the acceptance limit. Methylene chloride was not detected in any of the associated samples; therefore, no qualifications were required.

3. The percent recoveries for Initial Calibration Verification Check were within the laboratory window.
Yes____ No__X__ NA____

SDG: GBD-4 and GBD-1
The outliers here appear to follow the pattern of the initial calibrations, and the %D variations observed are not large enough to suggest a significant increase or decline in sensitivity for any target compared to the initial calibrations. These outliers compounds are qualified as the initial calibration.
The %D for Chloromethane was 27.2872%, which was outside the 25% control limit for ICV 11/19/02 20:27. This compound is detected in sample GBS-5 at a level of 0.92 ug/L, and it was qualified as JC27 on this associated sample.

4. The 12 hour system Performance Check was performed as required in SW-846 including a check for column degradation (DDT breakdown < 20%).
Yes__X__ No_____ NA____

DDT breakdown only applies to Method 8270.

B. Continuing Calibration
1. The midpoint standard was analyzed for each analysis at the required frequency and the QC criteria of > 0.05 were met
Yes_____ No__X__ NA____

SDG: GBD-4
The outliers here appear to follow the pattern of the initial calibrations, and the %D variations observed are not large enough to suggest a significant increase or decline in sensitivity for any target compared to the initial calibrations. These outliers compounds are qualified as the initial calibration.

2. The percent difference (%D) limits of ± 25% were met.
Yes__X__ No____ NA___

SDG: GBD-4
The %Ds for all compounds was within control limits, and no qualifications were required.

SDG: GBD-1
F3L020297
The %D for Methylene chloride was 26.08656%, which was outside the 25% control limit, for CCC 12/13/03 20:01. Methylene chloride was not detected in any of the associated samples; therefore, no qualifications were assigned.

F3L031153
The %D for Methylene chloride was 26.08656%, which was outside the 25% control limit, for CCC 12/13/03 20:01. Methylene chloride was not detected in any of the associated samples; therefore, no qualifications were assigned.

The %D for all compounds was within the 25% control limit for CCC 12/14/03 08:30. No qualifications were required.

IV. GC/MS INSTRUMENT PERFORMANCE CHECK

The BFB performance check was injected once at the beginning of each 12-hour period and relative abundance criteria for the ions were met.
Yes__X__ No____ NA____

V. INTERNAL STANDARDS

The Internal Standards met the 100% upper and -50% lower limits criteria and the Retention times were within the required windows.
Yes__X__ No____ NA____

The IS area count for Fluorobenzene was 22175, which was below the acceptance limits of (871255 – 3485020) on sample GBS-7. This sample was reanalyzed on 12/14/03 and all IS recoveries were within the control limit. The laboratory used the 12/14/03 data for sample GBS-7. No further qualifications were required.

VI. SURROGATE

Surrogate spikes were analyzed with every sample.
Yes___X__ No____

And met the recovery limits defined in the current contract, which are the current laboratory limits.
Yes__X__ No____

Surrogate recoveries were within the acceptance window for both original and re-injection data. No qualifications were required.

VII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A. Matrix spike (MS) and matrix spike duplicates (MSD) were analyzed for every analysis performed and for every 20 samples or for every matrix whichever is more frequent.
Yes__X__ No____

The client specified MS/MSD samples and all were analyzed as specified. Note that the short (CLP) spiking list is used.

SDG: GBD-4
No MS/MSD sample was assigned.

SDG: GBD-1
MS/MSD was assigned on sample GBD-8.

B. The MS and MSD percent recoveries were within the limits defined in the contract, which are the current laboratory control chart limits.
Yes___ No__X__ NA____

SDG: GBD-1

The percent recovery for 1,2-Dichloroethene 79%, which was below the control limit of (82 – 122) on the MS. It was within the control limit on the MSD. 1,2-Dichloroethene was qualified as JS79 on the parent sample GBD-8. There could be a very slight low bias to the data.

C. The MSD relative percent differences (RPD) were within the defined contract limits.
Yes__X__ No____ NA____

D. The MS/MSDs were client samples.
Yes__X__ No____ NA____

VIII. LABORATORY CONTROL SAMPLE

A. A Laboratory Control Samples (LCS) and LCS Duplicate run was analyzed for every analysis performed and for every 20 samples.
Yes __X__ No ____

B. The LCS percent recoveries were within the limits defined in the contract (the MS limits are used as a reference or laboratory-specific limits for this matrix are defined).
Yes __X__ No_____

The entire target list is spiked but CLP list is reported. All LCS runs are in control with the exception of the following:

SDG: GBD-4

The % Rs for all compounds was within the acceptance window. However, the %RPDs for the following compounds was outside the control limit. No qualification is added as the recoveries were acceptable. Note that these are the same compounds that show poor or variable response in the calibrations and the deviations are presumed to be due to this same variability in response.

Compound:	%RSD:	Limit:
2-Butanone	26%	20%
Bromomethane	31%	20%
Acetone	33%	20%

SDG: GBD-1

The percent recoveries for all spiked compounds were within the acceptance window.

IX. BLANKS

A. Method Blanks were analyzed at the required frequency and for each matrix and analysis.
Yes__X__ No____

B. No blank contamination was found in the Method Blank..
Yes____ No__X__

SDG: GBD-1

The following compounds were contaminated on method blank 12/13/03 21:46. They were qualified as shown in the table.

Compound:	**Detect level:**	**Lot #: Sample #**	**Qualifier:**
Chloromethane	0.52 ug/L	F3L020297: GBD-1(0.44 ug/L), GBS-1(0.43 ug/L), and TB-1-	UB0.52

		031201(0.45 ug/L) F3L031153: GBD-8(0.55 ug/L), GBS-8(0.43 ug/L), GBS-2(0.36 ug/L), GBD-3(1.6 ug/L), and TB-1-031202(0.33 ug/L)	
Bromomethane	0.74 ug/L	F3L020297: GBD-1(0.64 ug/L) and TB-1-031201(0.76 ug/L)	UB0.74

Note that the laboratory reports results only to the quantitation limit.

C. If Field Blanks were identified, no blank contamination was found.
Yes____ No__X__

SDG: GBD-4
There was one trip blank and one equipment blank associated with this SDG.
The trip blank (TB-1-031203) had a detection reported of Acetone at 1.9 ug/L and Chloroform at 1.4 ug/L. Acetone was contaminated on sample EB-1-031203 at 6.4 ug/L, which <5X the reporting limit and the trip blank contamination level. Therefore, Acetone was qualified as UB1.9 on this associated sample.
Chloroform was contaminated on samples GBS-4 at 0.34 ug/L, GBS-5 at 1.3 ug/L, and EB-1-031203 at 0.33 ug/L, which <5X the reporting limit. Therefore, Chloroform was qualified as UB1.4 on these associated samples.

SDG: GBD-1
There were two trip blanks associated with this SDG.
F3L020297
The trip blank (TB-1-031201) had detection reported of Acetone at 2.3 ug/L and Chloroform at 1.3 ug/L. Acetone was contaminated on samples GBD-1 at 3.6 ug/L and GBS-1 at 2.9 ug/L, which <5X the reporting limit and the trip blank contamination level. Therefore, Acetone was qualified as UB2.3 on these associated samples.
Chloroform was contaminated on sample GBD-1 at 0.20 ug/L, which <5X the reporting limit. Therefore, Chloroform was qualified as UB1.3 on this associated sample.

F3L031153
The following compounds were detected in the trip blank (TB-1-031202), they were qualified as in the table.

Compound:	Detect level:	Sample #	Qualifier:
cis-1,2-Dichloroethene	0.073 ug/L	GBD-8(86 ug/L), GBD-2(58 ug/L), GBD-3(110 ug/L), GBD-6(23 ug/L), GBS-6(200 ug/L), GBD-7(21 ug/L), DUP-1-031202(24 ug/L), and GBS-7(140 ug/L) GBS-8(0.11 ug/L), GBS-2(0.096 ug/L), and GBS-3(0.36 ug/L)	None, sample > 5 x blank UB0.073
Chloroform	1.5 ug/L	GBD-8(0.088 ug/L), GBS-2(1.8 ug/L), GBS-3(0.19 ug/L), GBD-6(0.21 ug/L), GBD-7(0.24 ug/L), and DUP-1-031202(0.25 ug/L)	UB1.5

Data have been qualified UB#, where # is the blank value, for the compound that contaminated < 5X of the trip blank contamination . Some samples were diluted and the (blank x dilution) was still less than 5 x blank and no qualifications were added to diluted sample data.

X. FIELD QC

If Field duplicates were identified, they met a guidance RPD of < 35% for water or < 50% for soils. For values reported at < 5 x the reporting limit (RL), a difference of 2 x RL is used as guidance (4 x RL for soils). Data are not qualified for field duplicates as these are evaluated for the total project by the client.
Yes__X__ No____ NA_____

The duplicate samples were assigned on samples GBD-7 and DUP-1-031202.
Acetone was detected at 6.6 ug/L, which <5X of the reporting limit of 2.0 ug/L on the sample DUP-1-021202. However, It was not detected on sample GBD-7. Therefore, no qualifications were required.

XI. SYSTEM PERFORMANCE

A. The RICs, chromatograms, tunes and general system performance were acceptable for all instruments and analytical systems.
Yes___X__ No____ NA____

B. The suggested EQL's for the sample matrices in this set were met.
Yes__X__ No____ NA____

EQLs are typical for most of these analyses.

SDG: GBD-4

Dilutions were necessary in many cases but both the undiluted and diluted results have been reported in most instances. The reporting limit has been adjusted for the dilution.

SDG: GBD-1

Both the undiluted and diluted results have been reported in sample GBD-8.
Several samples were analyzed at a dilution based upon laboratory screening information, so no undiluted data available. The reporting limit has been adjusted for the dilution.

Please note that results are reported to the quantitation limit rather than to the MDL. This is acceptable practice as long as the quantitation limit is low enough to meet project requirements.

XII. TCL COMPOUNDS

A. The identification is accurate and all retention times, library spectra and reconstructed ion chromatograms (RIC) were evaluated for all detected compounds.
Yes___X__ No____ NA____

Per the 10% review: This review was conducted on samples GBD-1 and GBD-8.

B. Quantitation was checked to determine the accuracy of calculations for representative compounds in each internal standards quantitation set.
Yes__X__ No____ NA____

Per the 10% review
The chromatographs and TICs for these samples were acceptable. The retention times for surrogate, spiked compounds, and detects compounds were within control limits. The control limit window for some spiked compounds were too wide. Reviewer suggests that the laboratory may need to re-evaluate these windows.

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

TICs were properly identified and met the library identification criteria.

Yes____ No____ NA__X__

No tics reported or requested.

XIV. OVERALL ASSESSMENT OF THE CASE

The laboratory has complied with the requested method. Data are fully usable after consideration of qualifiers. The following is noted:

Initial Calibrations:
Most calibrations did meet the minimum response requirements. However, in some instances Bromomethane, Acetone, and 2-Butanone had response factors less than the minimum. In these cases, results were qualified for these compounds. For nondetected values, results are qualified as RC#, where # is the value of the low response observed. Such results are considering to be rejected due to the fact that the low response could result in false negatives. For detected values, results are qualified as JC# indicating that the low response could bias the result.
All analyses included the re-injection data are affected by this qualification.
Calibrations having such low response factors are summarized in the table below.

SDG/Lot #	Date/Time	RRFs Out
GBD-4: F3L050118 GBD-1: F3L020297 and F3L031153	11/19/2003 12:37 – 16:22	Bromomethane = 0.04814 Acetone = 0.03163 2-Butanone = 0.0412

The %RSD for Methylene chloride was 36.33%, which was outside the acceptance limit. Methylene chloride was not detected in any of the associated samples; therefore, no qualifications were required.

The %D for Chloromethane was 27.2872%, which was outside the 25% control limit for ICV 11/19/02 20:27. This compound is detected in sample GBS-5 at a level of 0.92 ug/L, and it was qualified as JC27 on this associated sample. The qualifier indicates a variability in the instrument response to this compound and therefore, possible variability in reported values.

Continuing Calibrations
The RRF outliers here appear to follow the pattern of the initial calibrations, and the %D variations observed are not large enough to suggest a significant increase or decline in sensitivity for any target compared to the initial calibrations. These outliers compounds are qualified as the initial calibration.

SDG: GBD-4
The %Ds for all compounds was within control limits, and no qualifications were required.

SDG: GBD-1
The %D for Methylene chloride was 26.08656%, which was outside the 25% control limit, for CCC 12/13/03 20:01. Methylene chloride was not detected in any of the associated samples; therefore, no qualifications were assigned. The %D for all compounds was within the 25% control limit for CCC 12/14/03 08:30. No qualifications were required.

Internal Standards
The IS area count for Fluorobenzene was 22175, which was below the acceptance limits of (871255 – 3485020) on sample GBS-7. This sample was reanalyzed on 12/14/03 and all IS recoveries were within the control limit. The laboratory used the 12/14/03 data for sample GBS-7. No further qualifications were required.

Matrix Spikes
The client specified MS/MSD samples and all were analyzed as specified. Note that the short (CLP) spiking list is used.

SDG: GBD-4
No MS/MSD sample was assigned.
SDG: GBD-1
MS/MSD was assigned on sample GBD-8.

The percent recovery for 1,2-Dichloroethene 79%, which was below the control limit of (82 – 122) on the MS. It was within the control limit on the MSD. 1,2-Dichloroethene was qualified as JS79 on the parent sample GBD-8. There could be a very slight low bias to the data.

Laboratory Control Samples
The entire target list is spiked but CLP list is reported. All LCS runs are in control with the exception of the following:
SDG: GBD-4
The % Rs for all compounds was within the acceptance window. However, the %RPDs for the three compounds waere outside the control limit. No qualification is added as the recoveries were acceptable. Note that these are the same compounds that show poor or variable response in the calibrations and the deviations are presumed to be due to this same variability in response.

Field Blanks
Method Blank:
SDG: GBD-1
As noted above, a few compounds were contaminated on method blank 12/13/03 21:46. They were qualified as UB#, where # is the contamination on the method blank, to the associated samples that contained these compounds but <5X the reporting limits.

Trip Blank:
SDG: GBD-4
There was one trip blank and one equipment blank associated with this SDG.
The trip blank (TB-1-031203) had detection reported of Acetone at 1.9 ug/L and Chloroform at 1.4 ug/L. Acetone was a contaminate in sample EB-1-031203 at 6.4 ug/L, at <5X the reporting limit and the trip blank contamination level. Therefore, Acetone was qualified as UB1.9 on this associated sample. Data are fully usable as undetected values.

Chloroform was a contaminate in samples GBS-4 at 0.34 ug/L, GBS-5 at 1.3 ug/L, and EB-1-031203 at 0.33 ug/L, at <5X the reporting limit. Therefore, Chloroform was qualified as UB1.4 on these associated samples. Data are fully usable as undetected values.

SDG: GBD-1
There were two trip blanks associated with this SDG.
F3L020297
The trip blank (TB-1-031201) had detection reported of Acetone at 2.3 ug/L and Chloroform at 1.3 ug/L. Acetone was a contaminate in samples GBD-1 at 3.6 ug/L and GBS-1 at 2.9 ug/L, at <5X the reporting limit and the trip blank contamination level. Therefore, Acetone was qualified as UB2.3 on these associated samples.
Chloroform was a contaminate oin sample GBD-1 at 0.20 ug/L, at <5X the reporting limit. Therefore, Chloroform was qualified as UB1.3 on this associated sample.

F3L031153
cis-1,2-Dichloroethene and Chloroform were detected in the trip blank TB-1-031202.

Data have been qualified UB#, where # is the blank value, for the compound that contaminated < 5X of the trip blank contamination . Some samples were diluted and the (blank x dilution) was still less than 5 x blank and no qualifications were added to diluted sample data.

For all 'UB' qualified values, data are fully usable as undetected values.

Field Duplicates

The duplicate samples were assigned on samples GBD-7 and DUP-1-031202.
Acetone was detected at 6.6 ug/L, which <5X of the reporting limit of 2.0 ug/L on the sample DUP-1-021202.
However, It was not detected on sample GBD-7. Therefore, no qualifications were required.

Compound Identification and Quantification:

As noted above:
Dilutions were necessary in many cases but both the undiluted and diluted results have been reported in most instances. The reporting limit has been adjusted for the dilution.

Several samples were analyzed at a dilution based upon laboratory screening information, so no undiluted data available. The reporting limit has been adjusted for the dilution.

Please note that results are reported to the quantitation limit rather than to the MDL. This is acceptable practice as long as the quantitation limit is low enough to meet project requirements.

Per the 10% review
This review was conducted on samples GBD-1 and GBD-8.
The chromatographs and TICs for these samples were acceptable. The retention times for surrogate, spiked compounds, and detects compounds were within control limits. The control limit window for some spiked compounds were too wide. Reviewer suggests that the laboratory may need to re-evaluate these windows.

Appendix C

Piezometers and Additional Soil Sampling Report,

September 30, 2004

ROBERT M. KICK
LICENSED
556
KANSAS
GEOLOGIST

Robert M. Kick

9-30-04

PIEZOMETERS AND ADDITIONAL SOIL SAMPLNG

Brenntag Southwest Inc.
Wichita, Kansas

Prepared for

BRENNTAG, INC.
Pottsville Pike and Huller Lane
Reading, PA., 19605

Prepared by

THE FORRESTER GROUP
605 North Boonville Avenue
Springfield, Missouri 65806
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417-864-6444

September 30, 2004
Project Number 14770000

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APPENDIX C LABORATORY DATA

1 INVESTIGATION METHODOLOGY

1.1 PURPOSE

The purpose of this report is to summarize the field activities that were conducted in August and September 2004 at the Brenntag Southwest, Inc., ("Brenntag") facility in Wichita, Kansas. These activities were performed in accordance with the May 28, 2004, Work Plan for Piezometers and Additional Soil Sampling, Brenntag Southwest, Inc., Wichita, Kansas and the October 13, 2003, Revised Comprehensive Investigation/Corrective Action Study ("CI/CAS") Work Plan for Brenntag Southwest, Inc., Wichita, Kansas. The purpose of the investigation was to define the extent of soil impact on the south side of the facility and to confirm the direction of groundwater flow. The Revised CI/CAS Work Plan presented a description of the site location, history, geology and hydrogeology that will not be repeated in this report. Figures 1 and 2 in Appendix A show the location of the Brenntag site.

1.2 APPROACH

The field work consisted of the following activities: (1) installation of three piezometers, (2) installation and sampling of six soil borings, and (3) monitoring of water levels within the three piezometers. Direct push technology ("DPT") was performed by GSI/Handex of Wichita, Kansas, (Kansas Water Well Contractor's License Number 705) using a van-mounted Geoprobe® Model 5400 with a 4-foot core barrel.

Drilling locations were selected based upon previous investigation results and utility locations. The field crew also selected drilling locations based upon traffic flow patterns in order to avoid disruption of daily facility activities as much as possible. In some cases, the actual drilling locations did not correspond to the proposed locations in the May 28, 2004, Work Plan due to utilities, traffic flow, and/or storage containers that could not be moved. Detailed measurements of on-site structures and boring locations were made on the last day of field activities. The location and elevation of the three piezometers were determined by Mr. Curtis Luttrell of MKEC Engineering Consultants, Inc. (Kansas Land Surveyor License Number LS-1238). These measurements were used to generate a scaled map of drilling locations, utilities, and facility structures (Figure 3 in Appendix A).

All work was conducted under the written health and safety plan ("HASP") that was part of the Revised CI/CAS Work Plan. This HASP was updated to include the installation of the piezometers and modifications to safety procedures based upon the December 2003 field activity.

Decontamination of sampling and drilling equipment was performed prior to use at each location. Investigation-derived wastes ("IDW") were managed according to the May 28, 2004, Work Plan and the Revised CI/CAS Work Plan. The off-site disposal of soil and waste water IDW is pending.

Soil samples were placed in clean, laboratory-approved sample containers as specified in Table 2-2 of the Revised Field Sampling Plan (Appendix B of the Revised CI/CAS Work Plan) and labeled with the boring location name, the date and time of sample collection, unique sample number, and analysis to be performed. These samples were stored on ice in coolers and shipped to Severn Trent Laboratory in Earth City, Missouri, in ice-filled coolers using an overnight delivery service. Chain-of-custody procedures were followed. Field activities including drilling, sample collection, sample handling, sample shipping, equipment decontamination, and management of investigation derived wastes were performed in accordance with the procedures specified in the Revised Field Sampling Plan (Appendix B of the Revised CI/CAS Work Plan).

1.3 SOIL BORINGS

Six soil borings were drilled on August 10, 2004, by GSI/Handex using DPT. The borings were drilled on the south side of the facility. The purpose of these soil borings was to determine the extent of in-situ soil impact. The total depth of each boring was 8 feet. Soil types were consistent with those noted in the December 2003 investigation event (from ground surface: silty clay, clay, and typically at 6 to 8 feet - fine sand). The soil cores were screened with a photoionization detector ("PID") after soil samples were collected, and no elevated readings were noted. PID readings are presented in Table 1 in Appendix B. All borings were backfilled with bentonite chips. Soil cuttings were contained in a labeled 55-gallon drum.

1.4 SOIL SAMPLING

Soil samples were collected at each boring location following the methodology presented in the May 28, 2004, Work Plan and the Revised CI/CAS Work Plan. Two to three samples were

collected from each boring, typically within the 0.9-3.1, 3.0-4.0, and 5.8-7.3 feet below ground surface ("bgs") intervals. Samples were placed within the Method 5035 field preservation kit immediately after the acetate liner was opened. Soil samples were not collected from sand.

1.5 PIEZOMETER INSTALLATION

Three piezometers were installed on August 10, 2004, by GSI/Handex using DPT. Three narrow-gauge piezometers (1-inch outer diameter, PVC construction) were installed. At each location, the piezometer was installed approximately 20 feet bgs with 10 feet of screen from 10 to 20 feet bgs. Silica sand (10/20) was placed from the base of the borehole to two feet above the screen. A one foot bentonite plug was installed above the sandpack and the remaining interval was grouted. The piezometers were completed with a flush mount. The piezometers were installed without associated soil sampling. The piezometers were developed until clear water was produced. Development water was contained in a labeled 55-gallon drum.

1.6 PIEZOMETER GAUGING

Water levels were measured in the piezometers to confirm groundwater flow direction. Water levels were measured on August 11, August 24, and September 7, 2004. Water level information is presented in Table 2 in Appendix B.

2 INVESTIGATION RESULTS

Fourteen soil samples from the property were analyzed for volatile organic compounds ("VOCs"), and the results are presented in Table 3 in Appendix B. Laboratory data sheets are presented in Appendix C.

Soil analytical results were compared to the KDHE Tier 2 Risk-Based Summary Table found in Appendix A of the Risk-Based Standards for Kansas (RSK Manual – 3rd Version, March 1, 2003). The soil protection pathway and soil to groundwater pathway for non-residential scenarios were used in the comparison. The following observations are made regarding the data:

- SSB-17 contained had a PCE concentration of 1,300 ug/kg. This exceeds the non-residential soil to groundwater protection pathway of 180 ug/kg for PCE.
- The remaining soil samples were either non-detect for VOCs or were below the soil protection pathway and soil to groundwater pathway for non-residential scenarios values.

Thus the extent of VOC-impacted soil has essentially been determined. Final delineation can be addressed during corrective action implementation.

Groundwater levels were measured within the 3 piezometers on August 11, August 24, and September 7, 2004. As shown on Figures 4, 5, and 6 in Appendix A, the groundwater flow direction was confirmed to be toward the southeast.

This investigation event supports the preliminary conceptual model presented in the February 20, 2004, Phase 1 Technical Memorandum, Brenntag Southwest, Inc., Wichita, Kansas.

3 RECOMMENDATIONS

Based upon the results of this event, the following recommendations are made for additional field activities:

- Collect groundwater from the upper and lower parts of the water bearing zone on the Brenntag property (south of the tanks in secondary containment) and at off-site locations. Proposed off-site locations include the Cargill property south of Brenntag and the city of Wichita right-of-way along the south side of 13th street (between Barwise and Washington). Figure 7 in Appendix A shows the ownership of properties in the area of the Brenntag facility. Final locations will depend upon receiving access to Cargill property and field conditions including utilities and the right-of-way locations.

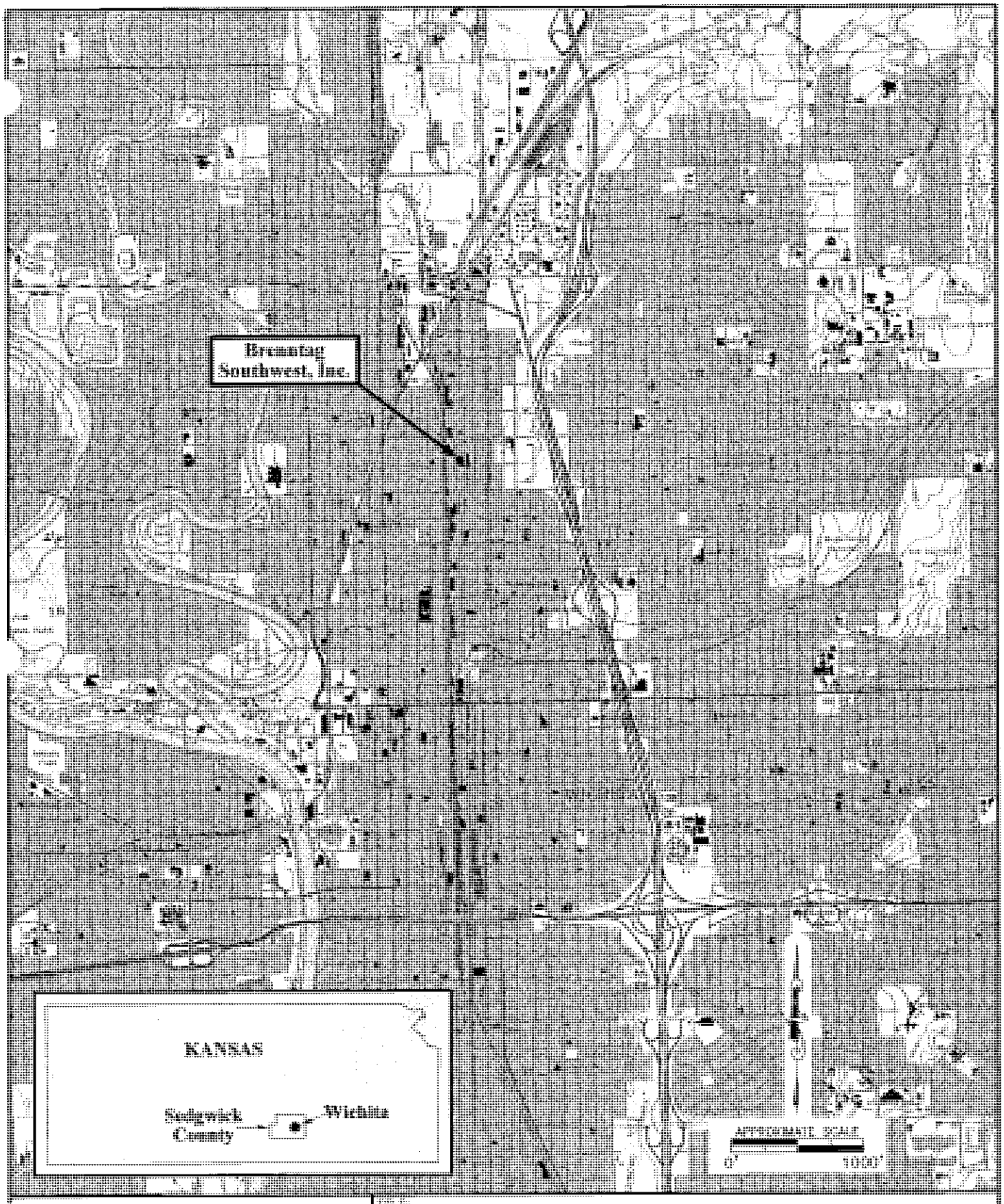
- The groundwater samples will be collected from DPT in a manner consistent with the Revised CI/CAS Work Plan. The samples will be analyzed for VOCs to further characterize groundwater chemistry.

- Collect, if possible, groundwater samples from selected NIC wells near the Brenntag facility.

- Samples and IDW will be collected and managed in accordance with the Revised CI/CAS Work Plan.

A letter work plan for the above activities will be submitted to Brenntag and KDHE for approval.

APPENDIX A
FIGURES



THE FORRESTER GROUP

Geotechnical Environmental Consultants

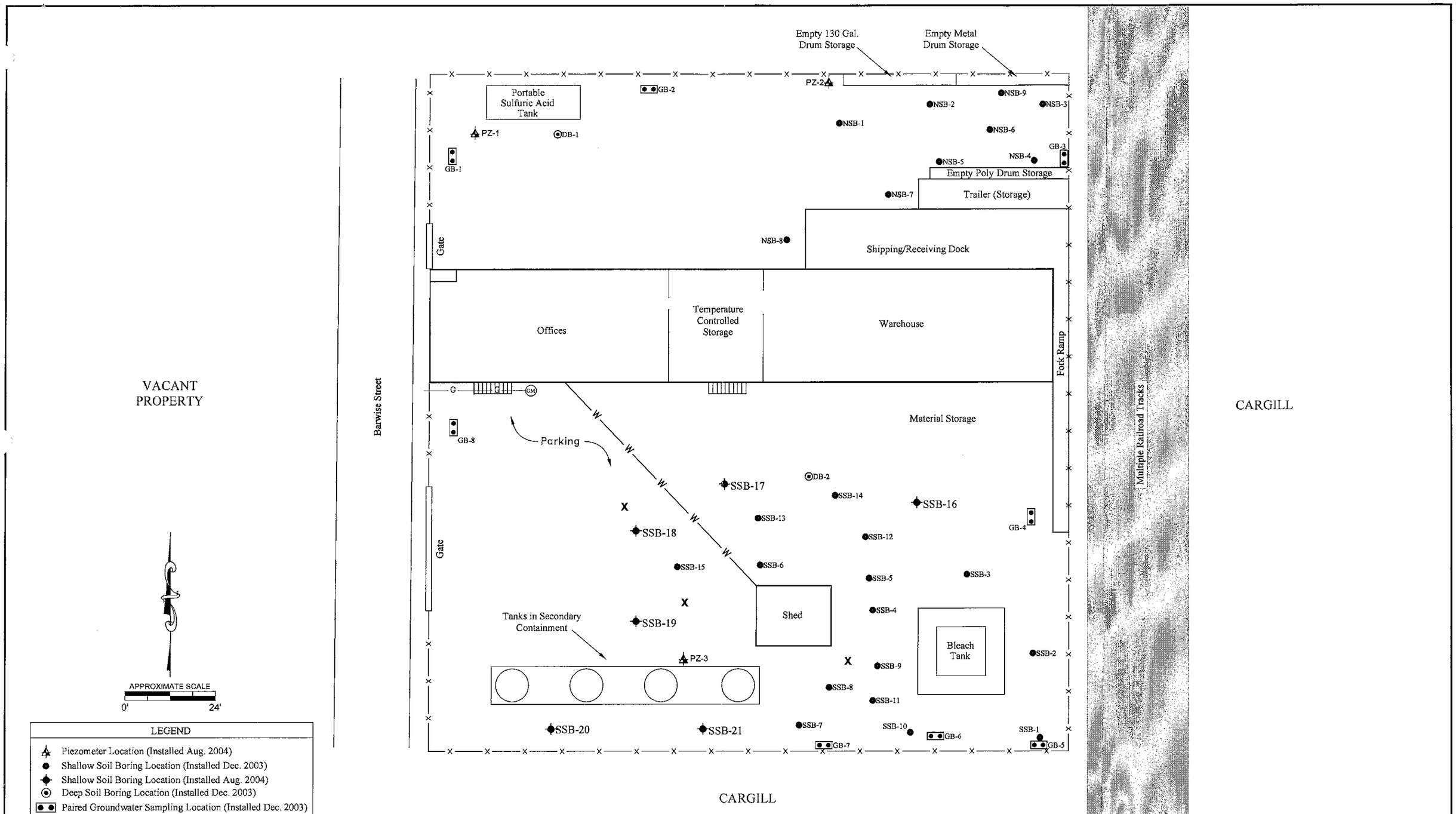
FIGURE 1
SITE LOCATION MAP
BRENNTAG SOUTHWEST, INC.
WICHITA, KANSAS

1477-02

THE FORRESTER GROUP

TITLE:

FIGURE 2
SITE AERIAL PHOTOGRAPH
BRENNTAG SOUTHWEST, INC.
WICHITA, KANSAS



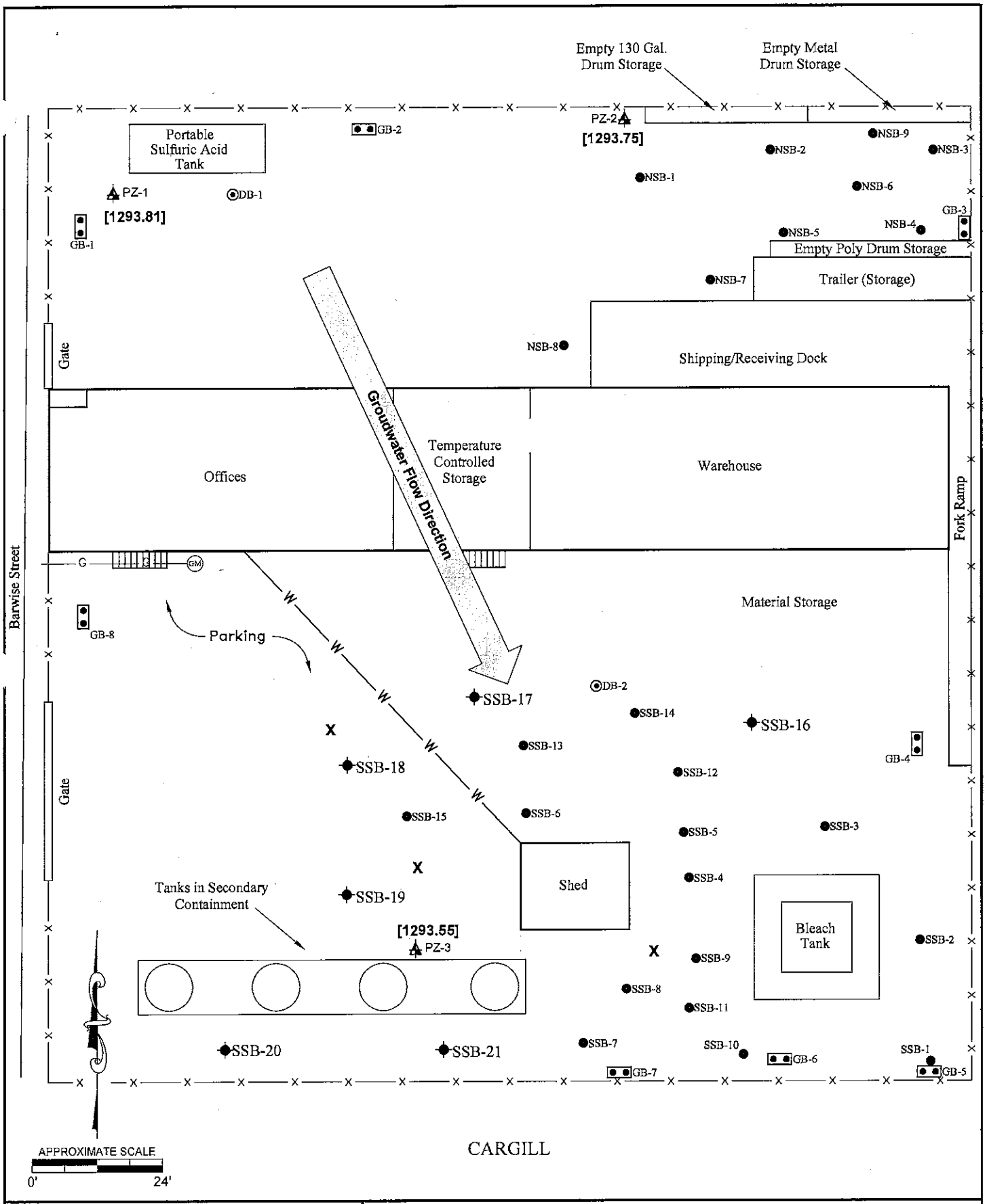
Note: A buried electric line connects the main office to the shed, but the exact location is unknown.

THE FORRESTER GROUP
INSIGHTFUL ENVIRONMENTAL SOLUTIONS™

TITLE:

FIGURE 3
MONITORING WELL & PIEZOMETER LOCATIONS
BRENNTAG SOUTHWEST, INC.
1520 N. BARWISE
WICHITA, KANSAS

1477-A1.dwg 2453279.38408198



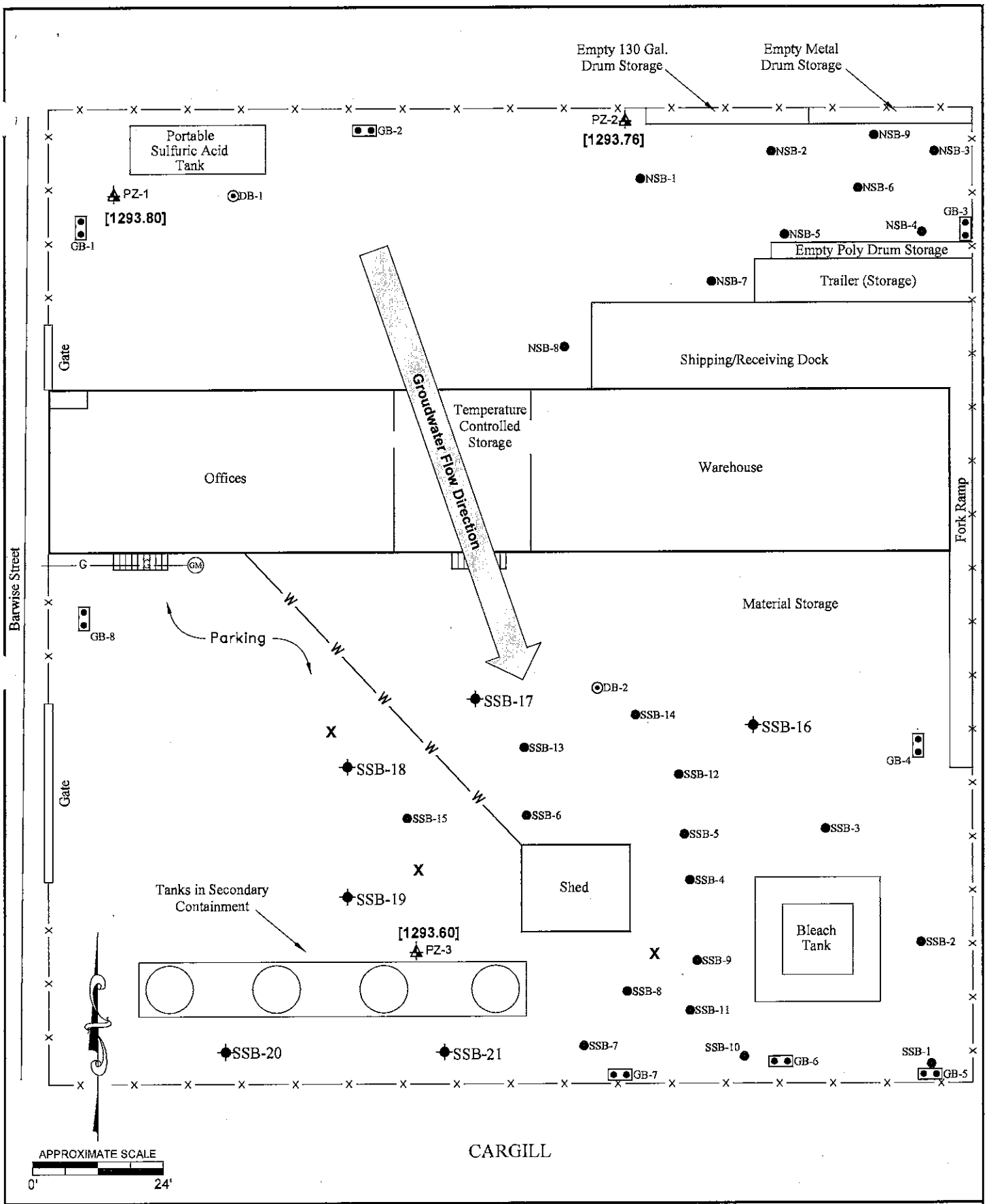
THE FORRESTER GROUP

INSIGHTFUL ENVIRONMENTAL SOLUTIONS™

TITLE:

FIGURE 4
GROUNDWATER FLOW DIRECTION
AUGUST 11, 2004
BRENNTAG SOUTHWEST. INC.
WICHITA, KANSAS

1477-A1



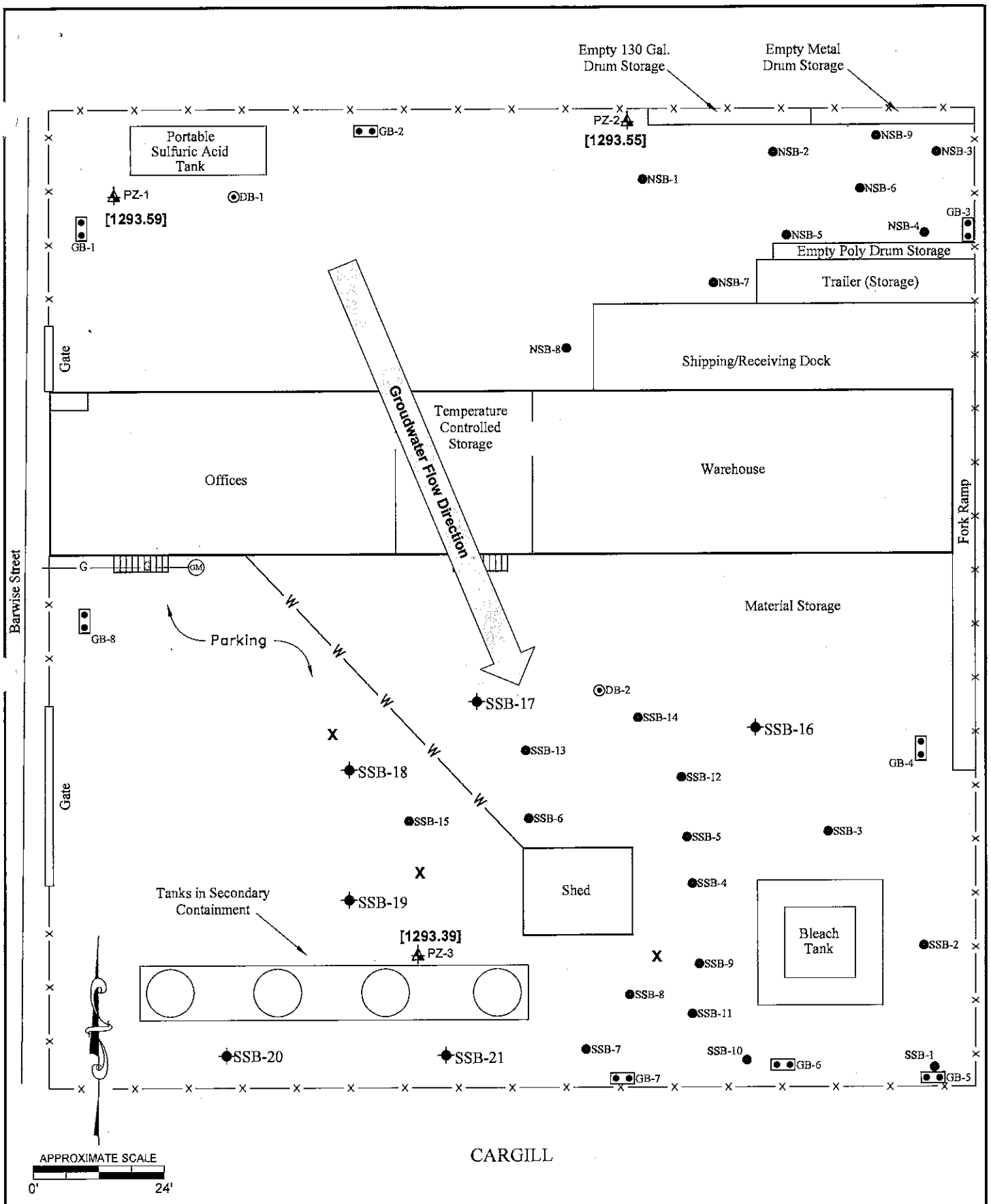
THE FORRESTER GROUP

INSIGHTFUL ENVIRONMENTAL SOLUTIONS℠

TITLE:

FIGURE 5
GROUNDWATER FLOW DIRECTION
AUGUST 24, 2004
BRENNTAG SOUTHWEST. INC.
WICHITA, KANSAS

1477-A1



THE FORRESTER GROUP

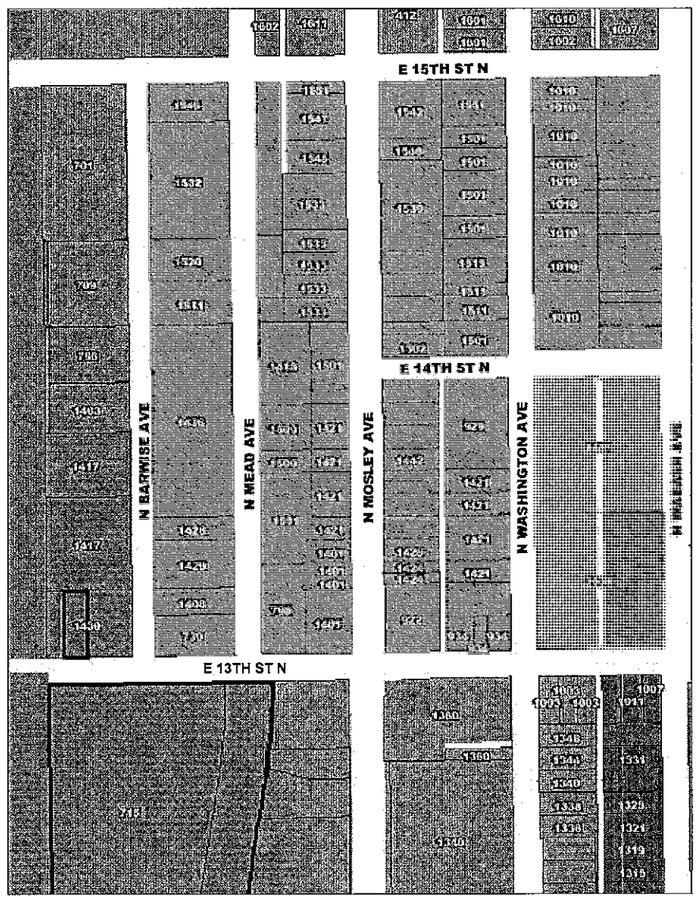
INSIGHTFUL ENVIRONMENTAL SOLUTIONS™

TITLE:

FIGURE 6
GROUNDWATER FLOW DIRECTION
SEPTEMBER 7, 2004
BRENNTAG SOUTHWEST. INC.
WICHITA, KANSAS

1477-A1

Address	Pin #	Owner	City	State	Zip
N. Mosely St.					
1542	122090340100100B	Industrial Supply Products	Wichita	Ks	67214
1540	122090340100100C	Rodriquez, Enrigue	Wichita	Ks	67214
1530	122090340100300A	Hammel Scale Co.,Inc	Wichita	Ks	67214
	122090340100400A	Midwest Diversified Properties	Wichita	Ks	67214
	122090340100400B	Midwest Diversified Properties	Wichita	Ks	67214
	122090340100400C	Midwest Diversified Properties	Wichita	Ks	67214
	122090340100400D	Midwest Diversified Properties	Wichita	Ks	67214
1502	122090340100500	Midwest Diversified Properties	Wichita	Ks	67214
	122090340500200	Lusco Brick & Stone Co	Wichita	Ks	67214
	122090340500300	Lusco Brick & Stone Co	Wichita	Ks	67214
	122090340500400A	Tike Investments	Wichita	Ks	67214
1442	122090340500400B	Tike Investments	Wichita	Ks	67214
	122090340500400C	Tike Investments	Wichita	Ks	67214
	122090340500400D	Tike Investments	Wichita	Ks	67214
	122090340500400E	Tike Investments	Wichita	Ks	67214
	122090340500400F	Tike Investments	Wichita	Ks	67214
1428	122090340500400G	Tike Investments	Wichita	Ks	67214
1424	122090340500400H	Tike Investments	Wichita	Ks	67214
1424	122090340500400I	Tike Investments	Wichita	Ks	67214
922	122090340500600	Davison, William C	Wichita	Ks	67214
1551	122090340200100B	United Meth Urban Ministry	Wichita	Ks	67214
1547	122090340200100A	Bowers Plumbing Co	Wichita	Ks	67214
1545	122090340200500A	United Meth Urban Ministry	Wichita	Ks	67214
1533	122090340200200T	Cargill INC	Wichita	Ks	67214
1533	122090340200200S	Cargill INC	Wichita	Ks	67214
1533	122090340200200R	Cargill INC	Wichita	Ks	67214
1533	122090340200200P	Cargill INC	Wichita	Ks	67214
1533	122090340200200Q	Cargill INC	Wichita	Ks	67214
1501	122090340200200O	Cargill INC	Wichita	Ks	67214
1421	122090340200200N	Cargill INC	Wichita	Ks	67214
1421	122090340200200M	Cargill INC	Wichita	Ks	67214
1421	122090340200200L	Cargill INC	Wichita	Ks	67214
1421	122090340200200K	Cargill INC	Wichita	Ks	67214
1401	122090340200200J	Cargill INC	Wichita	Ks	67214
1401	122090340200200I	Cargill INC	Wichita	Ks	67214
1401	122090340200400	Cargill INC	Wichita	Ks	67214
1401	122090340200300	Cargill INC	Wichita	Ks	67214
N. Mead St.					
	122090340200200A	Cargill INC	Wichita	Ks	67214
	122090340200200B	Cargill INC	Wichita	Ks	67214
	122090340200200C	Cargill INC	Wichita	Ks	67214
1418	122090340200200D	Cargill INC	Wichita	Ks	67214
1500	122090340200200E	Cargill INC	Wichita	Ks	67214
1500	122090340200200F	Cargill INC	Wichita	Ks	67214
1501	122090340200200G	Cargill INC	Wichita	Ks	67214
790	122090340200200H	Cargill INC	Wichita	Ks	67214
1548	122090340300100	Prater, Ronald	Wichita	Ks	67214
1532	122090340300200	Prater, Ronald	Wichita	Ks	67214
1520	122090340300300A	Advanced Chemical Dist	Wichita	Ks	67214
1511	122090340300300B	Advanced Chemical Dist	Wichita	Ks	67214
1436	122090340300400	Cargill INC	Wichita	Ks	67214
1428	122090340300500A	Cargill INC	Wichita	Ks	67214
1420	122090340300500B	Cargill INC	Wichita	Ks	67214
1408	122090340300600	Cargill INC	Wichita	Ks	67214
730	122090340300700	Cargill INC	Wichita	Ks	67214
N. Barwise Ave.					
701	122090340400100	Lies, Frank	Wichita	Ks	67214
709	122090340400200A	Cargill INC	Wichita	Ks	67214
755	122090340400200D	Cargill INC	Wichita	Ks	67214
1463	122090340400201B	Cargill INC	Wichita	Ks	67214
1417	122090340400500A	Cargill INC	Wichita	Ks	67214
1417	122090340400500B	Cargill INC	Wichita	Ks	67214
1430	122090340400500C	Cargill INC	Wichita	Ks	67214
N. Washington Ave.					
1551	122090340100100A	Industrial Supply Products	Wichita	Ks	67214
1501	122090340100600H	Midwest Diversified Properties	Wichita	Ks	67214
1501	122090340100600G	Midwest Diversified Properties	Wichita	Ks	67214
1501	122090340100600F	Midwest Diversified Properties	Wichita	Ks	67214
1501	122090340100600E	Midwest Diversified Properties	Wichita	Ks	67214
1515	122090340100600D	Midwest Diversified Properties	Wichita	Ks	67214
1511	122090340100600C	Midwest Diversified Properties	Wichita	Ks	67214
1511	122090340100600B	Midwest Diversified Properties	Wichita	Ks	67214
1501	122090340100600A	Midwest Diversified Properties	Wichita	Ks	67214
929	122090340500100E	Lusco Brick & Stone Co	Wichita	Ks	67214
1421	122090340500100D	Lusco Brick & Stone Co	Wichita	Ks	67214
1421	122090340500100C	Lusco Brick & Stone Co	Wichita	Ks	67214
1421	122090340500100B	Lusco Brick & Stone Co	Wichita	Ks	67214
1421	122090340500100A	Lusco Brick & Stone Co	Wichita	Ks	67214
	122090340500800C	Bell Management	Wichita	Ks	67214
934	122090340500800B	Bell Management	Wichita	Ks	67214
934	122090340500800A	Bell Management	Wichita	Ks	67214
934	122090340500700	Bell Management	Wichita	Ks	67214
E. 13th St.					
715	125160210300 10A	Cargill INC	Wichita	Ks	67214
1360	125116021010010 0B	?	Wichita	Ks	67214



THE FORRESTER GROUP
INSIGHTFUL ENVIRONMENTAL SOLUTIONS™

TITLE:

FIGURE 7
SURROUNDING PROPERTIES

BRENNTAG SOUTHWEST, INC.
WICHITA, KANSAS

1477-00.dwg 2453279.39133638

APPENDIX B
TABLES

Table 1
PID Results
Brenntag Southwest Inc., Wichita, Kansas

Sample Location	Depth (ft bgs)	PID Reading (ppm)	Sample ID
SSB-16	1.2 - 1.5	1	SSB-A-16
SSB-16	3.0 - 3.3	3.3	SSB-B-16
SSB-16	7.0 - 7.3	3	SSB-C-16
SSB-17	1.8 - 2.0	4.4	SSB-A-17
SSB-18	1.9 - 2.1	3.1	SSB-A-18
SSB-18	3.6 - 4.0	3.8	SSB-B-18
SSB-18	5.8 - 6.3	2.7	SSB-C-18
SSB-19	0.9 - 1.0	0.6	SSB-A-19
SSB-19	6.3 - 6.7	0.8	SSB-B-19
SSB-20	1.3 - 1.7	3.4	SSB-A-20
SSB-20	3.0 - 3.4	3.1	SSB-B-20
SSB-21	1.0 - 1.9	3.2	SSB-A-21
SSB-21	3.1 - 3.6	3.3	SSB-B-21
SSB-21	6.0 - 6.4	3.3	SSB-C-21

Notes:
Soil depths given in PID readings given in parts per million ("ppm")
PID readings given in parts per million ("ppm")

Table2
Groundwater Levels
Brenntag Southwest Inc., Wichita, Kansas

Location	Date	X-Coord	Y-Coord	Measuring Point Elevation	Depth to Water	Groundwater Elevation
PZ-1	8/11/2004	1651009.46	1694585.41	1304.88	11.07	1293.81
PZ-2	8/11/2004	1651099.15	1694595.91	1305.43	11.68	1293.75
PZ-3	8/11/2004	1651054.55	1694440.81	1305.72	12.17	1293.55
PZ-1	8/24/2004	1651009.46	1694585.41	1304.88	11.08	1293.80
PZ-2	8/24/2004	1651099.15	1694595.91	1305.43	11.67	1293.76
PZ-3	8/24/2004	1651054.55	1694440.81	1305.72	12.12	1293.60
PZ-1	9/7/2004	1651009.46	1694585.41	1304.88	11.29	1293.59
PZ-2	9/7/2004	1651099.15	1694595.91	1305.43	11.88	1293.55
PZ-3	9/7/2004	1651054.55	1694440.81	1305.72	12.33	1293.39

Table 3
Soil Analytical Data Summary (VOC's and Percent Moisture)
August 10, 2004
Brenntag, Wichita, Kansas

		Location ID		SSB-16	SSB-16	SSB-16	SSB-17	SSB-18
		Sample Type Code		N	N	N	N	N
		Depth Interval		1.2 - 1.5	3.0 - 3.3	7.0 - 7.3	1.8 - 2.0	1.9 - 2.1
Chemical Name	**RSK[1]**	**RSK[2]**	**Unit**					
1,1,1-Trichloroethane	1800000	5500	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U
1,1,2,2-Tetrachloroethane	12000	30	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U
1,1,2-Trichloroethane	20000	70	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U
1,1-Dichloroethane	2100000	13000	ug/kg	0.29 J	< 6 U	0.39 J	20	< 6.1 U
1,1-Dichloroethene	1400	120	ug/kg	< 6.1 U	< 6 U	< 5.8 U	1.9 J	< 6.1 U
1,2-Dichloroethane	7300	40	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U
1,2-Dichloroethene (total)			ug/kg	6.1 J	5.4 J	6.9 J	30	2 J
1,2-Dichloropropane	9300	60	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U
2-Butanone (MEK)	21000000	12000	ug/kg	< 24 U	< 24 U	< 23 U	< 25 U	< 24 U
2-Hexanone			ug/kg	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U
4-Methyl-2-pentanone (MIBK)	3600000	1400	ug/kg	< 24 U	< 24 U	< 23 U	< 25 U	< 24 U
Acetone	6200000	3800	ug/kg	29	6.3 J	7.3 J	33	21 J
Benzene	17000	80	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U
Bromodichloromethane	23000	1500	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U
Bromoform	2400000	2100	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U
Bromomethane (Methyl bromide)	15000	90	ug/kg	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U
Carbon disulfide	950000	450	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U
Carbon tetrachloride	7000	200	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U
Chlorobenzene	240000	4800	ug/kg	< 6.1 U	< 6 U	< 5.8 U	1.3 J	< 6.1 U
Chloroethane			ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U
Chloroform	6000	1200	ug/kg	0.33 J	0.34 J	0.58 J	< 6.2 U	< 6.1 U
Chloromethane (Methyl chloride)	140000	220	ug/kg	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U
cis-1,2-Dichloroethene	180000	800	ug/kg	6.1	5.4 J	6.9	30	1.7 J
cis-1,3-Dichloropropene			ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U
Dibromochloromethane	230000	1700	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U
Ethylbenzene	650000	55000	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U
Methylene Chloride (Dichloromethane)	230000	30	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U
m-Xylene & p-Xylene			ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U
o-Xylene			ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U
Styrene	2400000	16000	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U
Tetrachloroethene (PCE)	140000	180	ug/kg	13	12	15	1300 E *	0.26 J
Toluene	1000000	40000	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U
trans-1,2-Dichloroethene	290000	1500	ug/kg	< 6.1 U	< 6 U	< 5.8 U	0.44 J	< 6.1 U
trans-1,3-Dichloropropene			ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U
Trichloroethene (TCE)	98000	200	ug/kg	4.6 J	2.9 J	2.7 J	24	2.8 J
Vinyl chloride	540	20	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U
Xylenes (Total)	700000	700000	ug/kg	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U
Moisture, Percent			%	17.9	17.1	13.4	19.2	18.1

< # U=undetected at given value
J=estimated
E=Exceeds calibration range of GC/MS instrument
B=Found in method blank

1=RSK non-residential soil pathway
2=RSK non-residential soil to groundwater pathway
*=exceeds action level

Table 3
Soil Analytical Data Summary (VOC's and Percent Moisture)
August 10, 2004
Brenntag, Wichita, Kansas

		Location ID		SSB-18	SSB-18	SSB-18	SSB-19	SSB-19
		Sample Type Code		N	N	FD	N	N
		Depth Interval		3.6 - 4.0	5.8 - 6.3	5.8 - 6.3	0.9 - 1.0	6.3 - 6.7
Chemical Name	**RSK[1]**	**RSK[2]**	**Unit**					
1,1,1-Trichloroethane	1800000	5500	ug/kg	< 6.1 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
1,1,2,2-Tetrachloroethane	12000	30	ug/kg	< 6.1 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
1,1,2-Trichloroethane	20000	70	ug/kg	< 6.1 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
1,1-Dichloroethane	2100000	13000	ug/kg	< 6.1 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
1,1-Dichloroethene	1400	120	ug/kg	< 6.1 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
1,2-Dichloroethane	7300	40	ug/kg	< 6.1 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
1,2-Dichloroethene (total)			ug/kg	< 12 U	3.4 J	< 12 U	< 12 U	< 12 U
1,2-Dichloropropane	9300	60	ug/kg	< 6.1 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
2-Butanone (MEK)	21000000	12000	ug/kg	< 24 U	< 24 U	< 24 U	< 23 U	< 24 U
2-Hexanone			ug/kg	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U
4-Methyl-2-pentanone (MIBK)	3600000	1400	ug/kg	< 24 U	< 24 U	< 24 U	< 23 U	< 24 U
Acetone	6200000	3800	ug/kg	7.4 J	17 J	9.2 J	11 J	10 J B
Benzene	17000	80	ug/kg	< 6.1 U	< 5.9 U	0.34 J	< 5.8 U	< 6 U
Bromodichloromethane	23000	1500	ug/kg	< 6.1 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
Bromoform	2400000	2100	ug/kg	< 6.1 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
Bromomethane (Methyl bromide)	15000	90	ug/kg	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U
Carbon disulfide	950000	450	ug/kg	< 6.1 U	2.5 J	< 5.9 U	1.2 J	< 6 U
Carbon tetrachloride	7000	200	ug/kg	< 6.1 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
Chlorobenzene	240000	4800	ug/kg	< 6.1 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
Chloroethane			ug/kg	< 6.1 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
Chloroform	6000	1200	ug/kg	< 6.1 U	< 5.9 U	0.14 J	< 5.8 U	< 6 U
Chloromethane (Methyl chloride)	140000	220	ug/kg	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U
cis-1,2-Dichloroethene	180000	800	ug/kg	< 6.1 U	2.9 J	0.4 J	< 5.8 U	0.67 J
cis-1,3-Dichloropropene			ug/kg	< 6.1 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
Dibromochloromethane	230000	1700	ug/kg	< 6.1 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
Ethylbenzene	650000	55000	ug/kg	< 6.1 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
Methylene Chloride (Dichloromethane)	230000	30	ug/kg	< 6.1 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
m-Xylene & p-Xylene			ug/kg	< 6.1 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
o-Xylene			ug/kg	< 6.1 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
Styrene	2400000	16000	ug/kg	< 6.1 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
Tetrachloroethene (PCE)	140000	180	ug/kg	39	7.8	100	< 5.8 U	65
Toluene	1000000	40000	ug/kg	< 6.1 U	< 5.9 U	0.78 J	< 5.8 U	< 6 U
trans-1,2-Dichloroethene	290000	1500	ug/kg	< 6.1 U	0.47 J	< 5.9 U	< 5.8 U	< 6 U
trans-1,3-Dichloropropene			ug/kg	< 6.1 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
Trichloroethene (TCE)	98000	200	ug/kg	0.99 J	8	3 J	< 5.8 U	2.6 J
Vinyl chloride	540	20	ug/kg	< 6.1 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
Xylenes (Total)	700000	700000	ug/kg	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U
Moisture, Percent			%	17.4	15.9	15.1	13.5	17.2

< # U=undetected at given value
J=estimated
E=Exceeds calibration range of GC/MS instrument
B=Found in method blank

1=RSK non-residential soil pathway
2=RSK non-residential soil to groundwater pathway
*=exceeds action level

Table 3
Soil Analytical Data Summary (VOC's and Percent Moisture)
August 10, 2004
Brenntag, Wichita, Kansas

		Location ID		SSB-20	SSB-20	SSB-21	SSB-21	SSB-21
		Sample Type Code		N	N	N	N	N
		Depth Interval		1.3 - 1.7	3.0 - 3.4	1.0 - 1.9	3.1 - 3.6	6.0 - 6.4
Chemical Name	**RSK[1]**	**RSK[2]**	**Unit**					
1,1,1-Trichloroethane	1800000	5500	ug/kg	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U	< 5.8 U
1,1,2,2-Tetrachloroethane	12000	30	ug/kg	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U	< 5.8 U
1,1,2-Trichloroethane	20000	70	ug/kg	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U	< 5.8 U
1,1-Dichloroethane	2100000	13000	ug/kg	< 5.9 U	< 6.2 U	0.63 J	1.2 J	0.67 J
1,1-Dichloroethene	1400	120	ug/kg	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U	< 5.8 U
1,2-Dichloroethane	7300	40	ug/kg	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U	< 5.8 U
1,2-Dichloroethene (total)			ug/kg	< 12 U	< 12 U	1.2 J	1.7 J	1.5 J
1,2-Dichloropropane	9300	60	ug/kg	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U	< 5.8 U
2-Butanone (MEK)	21000000	12000	ug/kg	< 23 U	15 J	< 24 U	< 24 U	< 23 U
2-Hexanone			ug/kg	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U
4-Methyl-2-pentanone (MIBK)	3600000	1400	ug/kg	< 23 U	< 25 U	< 24 U	< 24 U	< 23 U
Acetone	6200000	3800	ug/kg	16 J B	76 B	8 J	12 J B	8.3 J B
Benzene	17000	80	ug/kg	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U	< 5.8 U
Bromodichloromethane	23000	1500	ug/kg	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U	< 5.8 U
Bromoform	2400000	2100	ug/kg	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U	< 5.8 U
Bromomethane (Methyl bromide)	15000	90	ug/kg	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U
Carbon disulfide	950000	450	ug/kg	1 J	0.46 J	< 6.1 U	2.4 J	< 5.8 U
Carbon tetrachloride	7000	200	ug/kg	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U	< 5.8 U
Chlorobenzene	240000	4800	ug/kg	0.47 J	0.21 J	0.54 J	0.44 J	0.31 J
Chloroethane			ug/kg	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U	< 5.8 U
Chloroform	6000	1200	ug/kg	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U	< 5.8 U
Chloromethane (Methyl chloride)	140000	220	ug/kg	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U
cis-1,2-Dichloroethene	180000	800	ug/kg	< 5.9 U	< 6.2 U	1.2 J	1.7 J	1.5 J
cis-1,3-Dichloropropene			ug/kg	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U	< 5.8 U
Dibromochloromethane	230000	1700	ug/kg	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U	< 5.8 U
Ethylbenzene	650000	55000	ug/kg	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U	< 5.8 U
Methylene Chloride (Dichloromethane)	230000	30	ug/kg	< 5.9 U	< 6.2 U	< 6.1 U	5.9 J B	3.2 J B
m-Xylene & p-Xylene			ug/kg	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U	< 5.8 U
o-Xylene			ug/kg	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U	< 5.8 U
Styrene	2400000	16000	ug/kg	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U	< 5.8 U
Tetrachloroethene (PCE)	140000	180	ug/kg	< 5.9 U	0.62 J	4.7 J	48	36
Toluene	1000000	40000	ug/kg	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U	< 5.8 U
trans-1,2-Dichloroethene	290000	1500	ug/kg	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U	< 5.8 U
trans-1,3-Dichloropropene			ug/kg	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U	< 5.8 U
Trichloroethene (TCE)	98000	200	ug/kg	< 5.9 U	< 6.2 U	3.1 J	5.5 J	1.7 J
Vinyl chloride	540	20	ug/kg	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U	< 5.8 U
Xylenes (Total)	700000	700000	ug/kg	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U
Moisture, Percent			%	14.7	19.8	17.8	18.3	13.7

< # U=undetected at given value
J=estimated
E=Exceeds calibration range of GC/MS instrument
B=Found in method blank

1=RSK non-residential soil pathway
2=RSK non-residential soil to groundwater pathway
*=exceeds action level

APPENDIX C
LABORATORY DATA

INCLUDED ON CD ROM

SEVERN TRENT STL

STL St. Louis
13715 Rider Trail North
Earth City, MO 63045

Tel: 314 298 8566 Fax: 314 298 8757
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ANALYTICAL REPORT

PROJECT NO. 477

Brentag

Lot #: F4H110275

Bob Kick

The Forrester Group
605 North Boonville Avenue
Springfield, MO 65806

SEVERN TRENT LABORATORIES, INC.

MARTI WARD
Project Manager

August 30, 2004

Case Narrative
LOT NUMBER: F4H110275

This report contains the analytical results for the 15 samples received under chain of custody by STL St. Louis on August 11, 2004. These samples are associated with your Brentag project.

The analytical results included in this report meet all applicable quality control procedure requirements except as noted on the following page.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by STL St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise.

Observations/Nonconformances

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

8260 Volatiles

The LCS recoveries are outside QC limits for less than 10% of the compounds spiked. Laboratory QC practices, based on federal guidance documents, allow for up to 10% of the spike compounds to be outside QC criteria without necessitating re-preparation/re-analysis. Sample purge efficiency and compliance is demonstrated by the remaining acceptable LCS recoveries.

The MS/MSD recoveries are outside QC limits for less than 10% of the compounds spiked. Laboratory QC practices, based on federal guidance documents, allow for up to 10% of the spike compounds to be outside QC criteria without necessitating re-preparation/re-analysis. Sample purge efficiency and compliance is demonstrated by the remaining acceptable MS/MSD recoveries.

The RPD for Hexachlorobutadiene is outside the QC limit. The individual spike recoveries for the compound are within the limits in both MS and MSD demonstrating an acceptable instrument performance.

The surrogate recovery for DBFM is outside the upper QC limit, indicating a potential positive bias. There were no target analytes associated with this surrogate observed above the reporting limit in the sample; therefore the sample data was not adversely affected by this excursion.
Affected Samples:
F4H110275 (13): SSB-A-21

Case Narrative
LOT NUMBER: F4H110275

Sample surrogate recoveries are above the established QC limits in the initial run because the Internal Standard recoveries are low. The sample was re-prepared/re-analyzed within the holding time and the surrogate recovery for d8-Toluene is low (the Internal Standard met criteria). This may have been caused by too much soil in both the Encore vials for this sample (there should only be about 5 grams and this sample had significantly more than that). The purge may not be homogeneous, explaining the variance in the sample results. Only Tetrachloroethene was found above the reporting limit in both runs of the sample. Both sets of results are included in the report.
Affected Samples:
F4H110275 (8): DUP-1

The Method Blank surrogate recovery of DBFM in batch 4238082 is outside acceptance limits. Samples associated with this method blank demonstrated acceptable surrogate recoveries for DBFM indicating the surrogate excursion for DBFM is isolated to the method blank and not indicative of the batch.

The surrogate recovery for 1,2-dichloroethane is outside the upper QC limit, indicating a potential positive bias. There were no target analytes, associated with this surrogate, observed above the reporting limit in the samples; therefore the sample data was not adversely affected by this excursion.
Affected Samples:
F4H110275 (11): SSB-A-20
F4H110275 (15): SSB-C-21

SAMPLE SUMMARY

F4H110275

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GMXJE	001	SSB-A-16	08/10/04	14:37
GMXJQ	002	SSB-B-16	08/10/04	14:41
GMXJT	003	SSB-C-16	08/10/04	14:52
GMXJW	004	SSB-A-17	08/10/04	13:05
GMXJX	005	SSB-A-18	08/10/04	12:24
GMXJ0	006	SSB-B-18	08/10/04	12:34
GMXJ3	007	SSB-C-18	08/10/04	12:49
GMXJ7	008	DUP-1	08/10/04	
GMXKC	009	SSB-A-19	08/10/04	11:58
GMXKF	010	SSB-B-19	08/10/04	12:07
GMXKH	011	SSB-A-20	08/10/04	15:14
GMXKK	012	SSB-B-20	08/10/04	15:19
GMXKP	013	SSB-A-21	08/10/04	15:39
GMXK0	014	SSB-B-21	08/10/04	15:48
GMXK2	015	SSB-C-21	08/10/04	16:03

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

METHODS SUMMARY

F4H110275

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Percent Moisture	MCAWW 160.3 MOD	MCAWW 160.3 MOD
Volatile Organics by GC/MS	SW846 8260B	SW846 5035

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

THE FORRESTER GROUP

Client Sample ID: SSB-A-16

GC/MS Volatiles

Lot-Sample #...: F4H110275-001 **Work Order #...:** GMXJE1AC **Matrix.....:** SOLID
Date Sampled...: 08/10/04 14:37 **Date Received..:** 08/11/04
Prep Date.....: 08/22/04 **Analysis Date..:** 08/23/04
Prep Batch #...: 4236094 **Analysis Time..:** 00:25
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**29**	**24**	**ug/kg**
Benzene	ND	6.1	ug/kg
Bromodichloromethane	ND	6.1	ug/kg
Bromoform	ND	6.1	ug/kg
Bromomethane	ND	12	ug/kg
2-Butanone (MEK)	ND	24	ug/kg
Carbon disulfide	ND	6.1	ug/kg
Carbon tetrachloride	ND	6.1	ug/kg
Chlorobenzene	ND	6.1	ug/kg
Dibromochloromethane	ND	6.1	ug/kg
Chloroethane	ND	6.1	ug/kg
Chloroform	**0.33 J**	**6.1**	**ug/kg**
1,1-Dichloroethane	**0.29 J**	**6.1**	**ug/kg**
1,2-Dichloroethane	ND	6.1	ug/kg
cis-1,2-Dichloroethene	**6.1**	**6.1**	**ug/kg**
trans-1,2-Dichloroethene	ND	6.1	ug/kg
1,1-Dichloroethene	ND	6.1	ug/kg
1,2-Dichloroethene (total)	**6.1 J**	**12**	**ug/kg**
1,2-Dichloropropane	ND	6.1	ug/kg
cis-1,3-Dichloropropene	ND	6.1	ug/kg
trans-1,3-Dichloropropene	ND	6.1	ug/kg
Ethylbenzene	ND	6.1	ug/kg
2-Hexanone	ND	12	ug/kg
Methylene chloride	ND	6.1	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
Styrene	ND	6.1	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.1	ug/kg
Tetrachloroethene	**13**	**6.1**	**ug/kg**
Toluene	ND	6.1	ug/kg
1,1,1-Trichloroethane	ND	6.1	ug/kg
1,1,2-Trichloroethane	ND	6.1	ug/kg
Trichloroethene	**4.6 J**	**6.1**	**ug/kg**
Vinyl chloride	ND	6.1	ug/kg
m-Xylene & p-Xylene	ND	6.1	ug/kg
o-Xylene	ND	6.1	ug/kg
Xylenes (total)	ND	12	ug/kg
Chloromethane	ND	12	ug/kg

(Continued on next page)

THE FORRESTER GROUP

Client Sample ID: SSB-A-16

GC/MS Volatiles

Lot-Sample #...: F4H110275-001 **Work Order #...:** GMXJE1AC **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	98	(80 - 130)
Dibromofluoromethane	112	(78 - 130)
1,2-Dichloroethane-d4	114	(72 - 134)
4-Bromofluorobenzene	114	(68 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: SSB-B-16

GC/MS Volatiles

Lot-Sample #...: F4H110275-002 **Work Order #...:** GMXJQ1AC **Matrix.....:** SOLID
Date Sampled...: 08/10/04 14:41 **Date Received..:** 08/11/04
Prep Date.....: 08/22/04 **Analysis Date..:** 08/23/04
Prep Batch #...: 4236094 **Analysis Time..:** 00:59
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**6.3 J**	**24**	**ug/kg**
Benzene	ND	6.0	ug/kg
Bromodichloromethane	ND	6.0	ug/kg
Bromoform	ND	6.0	ug/kg
Bromomethane	ND	12	ug/kg
2-Butanone (MEK)	ND	24	ug/kg
Carbon disulfide	ND	6.0	ug/kg
Carbon tetrachloride	ND	6.0	ug/kg
Chlorobenzene	ND	6.0	ug/kg
Dibromochloromethane	ND	6.0	ug/kg
Chloroethane	ND	6.0	ug/kg
Chloroform	**0.34 J**	**6.0**	**ug/kg**
1,1-Dichloroethane	ND	6.0	ug/kg
1,2-Dichloroethane	ND	6.0	ug/kg
cis-1,2-Dichloroethene	**5.4 J**	**6.0**	**ug/kg**
trans-1,2-Dichloroethene	ND	6.0	ug/kg
1,1-Dichloroethene	ND	6.0	ug/kg
1,2-Dichloroethene (total)	**5.4 J**	**12**	**ug/kg**
1,2-Dichloropropane	ND	6.0	ug/kg
cis-1,3-Dichloropropene	ND	6.0	ug/kg
trans-1,3-Dichloropropene	ND	6.0	ug/kg
Ethylbenzene	ND	6.0	ug/kg
2-Hexanone	ND	12	ug/kg
Methylene chloride	ND	6.0	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
Styrene	ND	6.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.0	ug/kg
Tetrachloroethene	**12**	**6.0**	**ug/kg**
Toluene	ND	6.0	ug/kg
1,1,1-Trichloroethane	ND	6.0	ug/kg
1,1,2-Trichloroethane	ND	6.0	ug/kg
Trichloroethene	**2.9 J**	**6.0**	**ug/kg**
Vinyl chloride	ND	6.0	ug/kg
m-Xylene & p-Xylene	ND	6.0	ug/kg
o-Xylene	ND	6.0	ug/kg
Xylenes (total)	ND	12	ug/kg
Chloromethane	ND	12	ug/kg

(Continued on next page)

THE FORRESTER GROUP

Client Sample ID: SSB-B-16

GC/MS Volatiles

Lot-Sample #...: F4H110275-002 **Work Order #...:** GMXJQ1AC **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	100	(80 - 130)
Dibromofluoromethane	113	(78 - 130)
1,2-Dichloroethane-d4	118	(72 - 134)
4-Bromofluorobenzene	112	(68 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: SSB-C-16

GC/MS Volatiles

Lot-Sample #...: F4H110275-003 **Work Order #...:** GMXJT1AC **Matrix.....:** SOLID
Date Sampled...: 08/10/04 14:52 **Date Received..:** 08/11/04
Prep Date.....: 08/22/04 **Analysis Date..:** 08/23/04
Prep Batch #...: 4236094 **Analysis Time..:** 01:33
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**7.3 J**	**23**	**ug/kg**
Benzene	ND	5.8	ug/kg
Bromodichloromethane	ND	5.8	ug/kg
Bromoform	ND	5.8	ug/kg
Bromomethane	ND	12	ug/kg
2-Butanone (MEK)	ND	23	ug/kg
Carbon disulfide	ND	5.8	ug/kg
Carbon tetrachloride	ND	5.8	ug/kg
Chlorobenzene	ND	5.8	ug/kg
Dibromochloromethane	ND	5.8	ug/kg
Chloroethane	ND	5.8	ug/kg
Chloroform	**0.58 J**	**5.8**	**ug/kg**
1,1-Dichloroethane	**0.39 J**	**5.8**	**ug/kg**
1,2-Dichloroethane	ND	5.8	ug/kg
cis-1,2-Dichloroethene	**6.9**	**5.8**	**ug/kg**
trans-1,2-Dichloroethene	ND	5.8	ug/kg
1,1-Dichloroethene	ND	5.8	ug/kg
1,2-Dichloroethene (total)	**6.9 J**	**12**	**ug/kg**
1,2-Dichloropropane	ND	5.8	ug/kg
cis-1,3-Dichloropropene	ND	5.8	ug/kg
trans-1,3-Dichloropropene	ND	5.8	ug/kg
Ethylbenzene	ND	5.8	ug/kg
2-Hexanone	ND	12	ug/kg
Methylene chloride	ND	5.8	ug/kg
4-Methyl-2-pentanone	ND	23	ug/kg
Styrene	ND	5.8	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg
Tetrachloroethene	**15**	**5.8**	**ug/kg**
Toluene	ND	5.8	ug/kg
1,1,1-Trichloroethane	ND	5.8	ug/kg
1,1,2-Trichloroethane	ND	5.8	ug/kg
Trichloroethene	**2.7 J**	**5.8**	**ug/kg**
Vinyl chloride	ND	5.8	ug/kg
m-Xylene & p-Xylene	ND	5.8	ug/kg
o-Xylene	ND	5.8	ug/kg
Xylenes (total)	ND	12	ug/kg
Chloromethane	ND	12	ug/kg

(Continued on next page)

THE FORRESTER GROUP

Client Sample ID: SSB-C-16

GC/MS Volatiles

Lot-Sample #...: F4H110275-003 **Work Order #...:** GMXJT1AC **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	103	(80 - 130)
Dibromofluoromethane	113	(78 - 130)
1,2-Dichloroethane-d4	125	(72 - 134)
4-Bromofluorobenzene	108	(68 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: SSB-A-17

GC/MS Volatiles

Lot-Sample #...: F4H110275-004 **Work Order #...:** GMXJW1AC **Matrix.....:** SOLID
Date Sampled...: 08/10/04 13:05 **Date Received..:** 08/11/04
Prep Date.....: 08/22/04 **Analysis Date..:** 08/23/04
Prep Batch #...: 4236094 **Analysis Time..:** 02:07
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**33**	**25**	**ug/kg**
Benzene	ND	6.2	ug/kg
Bromodichloromethane	ND	6.2	ug/kg
Bromoform	ND	6.2	ug/kg
Bromomethane	ND	12	ug/kg
2-Butanone (MEK)	ND	25	ug/kg
Carbon disulfide	ND	6.2	ug/kg
Carbon tetrachloride	ND	6.2	ug/kg
Chlorobenzene	**1.3 J**	**6.2**	**ug/kg**
Dibromochloromethane	ND	6.2	ug/kg
Chloroethane	ND	6.2	ug/kg
Chloroform	ND	6.2	ug/kg
1,1-Dichloroethane	**20**	**6.2**	**ug/kg**
1,2-Dichloroethane	ND	6.2	ug/kg
cis-1,2-Dichloroethene	**30**	**6.2**	**ug/kg**
trans-1,2-Dichloroethene	**0.44 J**	**6.2**	**ug/kg**
1,1-Dichloroethene	**1.9 J**	**6.2**	**ug/kg**
1,2-Dichloroethene (total)	**30**	**12**	**ug/kg**
1,2-Dichloropropane	ND	6.2	ug/kg
cis-1,3-Dichloropropene	ND	6.2	ug/kg
trans-1,3-Dichloropropene	ND	6.2	ug/kg
Ethylbenzene	ND	6.2	ug/kg
2-Hexanone	ND	12	ug/kg
Methylene chloride	ND	6.2	ug/kg
4-Methyl-2-pentanone	ND	25	ug/kg
Styrene	ND	6.2	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.2	ug/kg
Tetrachloroethene	**270 E**	**6.2**	**ug/kg**
Toluene	ND	6.2	ug/kg
1,1,1-Trichloroethane	ND	6.2	ug/kg
1,1,2-Trichloroethane	ND	6.2	ug/kg
Trichloroethene	**24**	**6.2**	**ug/kg**
Vinyl chloride	ND	6.2	ug/kg
m-Xylene & p-Xylene	ND	6.2	ug/kg
o-Xylene	ND	6.2	ug/kg
Xylenes (total)	ND	12	ug/kg
Chloromethane	ND	12	ug/kg

(Continued on next page)

THE FORRESTER GROUP

Client Sample ID: SSB-A-17

GC/MS Volatiles

Lot-Sample #...: F4H110275-004 **Work Order #...:** GMXJW1AC **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	98	(80 - 130)
Dibromofluoromethane	116	(78 - 130)
1,2-Dichloroethane-d4	125	(72 - 134)
4-Bromofluorobenzene	112	(68 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

THE FORRESTER GROUP

Client Sample ID: SSB-A-17

GC/MS Volatiles

Lot-Sample #...: F4H110275-004 **Work Order #...:** GMXJW2AC **Matrix.....:** SOLID
Date Sampled...: 08/10/04 13:05 **Date Received..:** 08/11/04
Prep Date.....: 08/26/04 **Analysis Date..:** 08/27/04
Prep Batch #...: 4240243 **Analysis Time..:** 00:07
Dilution Factor: 2
% Moisture.....: 19 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Tetrachloroethene	**1300 E**	**620**	**ug/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	97	(46 - 139)
Dibromofluoromethane	99	(26 - 149)
1,2-Dichloroethane-d4	95	(47 - 130)
4-Bromofluorobenzene	98	(40 - 147)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

E Estimated result. Result concentration exceeds the calibration range.

THE FORRESTER GROUP

Client Sample ID: SSB-A-18

GC/MS Volatiles

Lot-Sample #...: F4H110275-005 **Work Order #...:** GMXJX1AC **Matrix.....:** SOLID
Date Sampled...: 08/10/04 12:24 **Date Received..:** 08/11/04
Prep Date.....: 08/22/04 **Analysis Date..:** 08/23/04
Prep Batch #...: 4236094 **Analysis Time..:** 02:42
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**21 J**	**24**	**ug/kg**
Benzene	ND	6.1	ug/kg
Bromodichloromethane	ND	6.1	ug/kg
Bromoform	ND	6.1	ug/kg
Bromomethane	ND	12	ug/kg
2-Butanone (MEK)	ND	24	ug/kg
Carbon disulfide	ND	6.1	ug/kg
Carbon tetrachloride	ND	6.1	ug/kg
Chlorobenzene	ND	6.1	ug/kg
Dibromochloromethane	ND	6.1	ug/kg
Chloroethane	ND	6.1	ug/kg
Chloroform	ND	6.1	ug/kg
1,1-Dichloroethane	ND	6.1	ug/kg
1,2-Dichloroethane	ND	6.1	ug/kg
cis-1,2-Dichloroethene	**1.7 J**	**6.1**	**ug/kg**
trans-1,2-Dichloroethene	ND	6.1	ug/kg
1,1-Dichloroethene	ND	6.1	ug/kg
1,2-Dichloroethene (total)	**2.0 J**	**12**	**ug/kg**
1,2-Dichloropropane	ND	6.1	ug/kg
cis-1,3-Dichloropropene	ND	6.1	ug/kg
trans-1,3-Dichloropropene	ND	6.1	ug/kg
Ethylbenzene	ND	6.1	ug/kg
2-Hexanone	ND	12	ug/kg
Methylene chloride	ND	6.1	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
Styrene	ND	6.1	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.1	ug/kg
Tetrachloroethene	**0.26 J**	**6.1**	**ug/kg**
Toluene	ND	6.1	ug/kg
1,1,1-Trichloroethane	ND	6.1	ug/kg
1,1,2-Trichloroethane	ND	6.1	ug/kg
Trichloroethene	**2.8 J**	**6.1**	**ug/kg**
Vinyl chloride	ND	6.1	ug/kg
m-Xylene & p-Xylene	ND	6.1	ug/kg
o-Xylene	ND	6.1	ug/kg
Xylenes (total)	ND	12	ug/kg
Chloromethane	ND	12	ug/kg

(Continued on next page)

THE FORRESTER GROUP

Client Sample ID: SSB-A-18

GC/MS Volatiles

Lot-Sample #...: F4H110275-005 **Work Order #...:** GMXJX1AC **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	102	(80 - 130)
Dibromofluoromethane	118	(78 - 130)
1,2-Dichloroethane-d4	130	(72 - 134)
4-Bromofluorobenzene	109	(68 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: SSB-B-18

GC/MS Volatiles

Lot-Sample #...: F4H110275-006 **Work Order #...:** GMXJ01AC **Matrix.....:** SOLID
Date Sampled...: 08/10/04 12:34 **Date Received..:** 08/11/04
Prep Date.....: 08/22/04 **Analysis Date..:** 08/23/04
Prep Batch #...: 4236094 **Analysis Time..:** 03:17
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**7.4 J**	**24**	**ug/kg**
Benzene	ND	6.1	ug/kg
Bromodichloromethane	ND	6.1	ug/kg
Bromoform	ND	6.1	ug/kg
Bromomethane	ND	12	ug/kg
2-Butanone (MEK)	ND	24	ug/kg
Carbon disulfide	ND	6.1	ug/kg
Carbon tetrachloride	ND	6.1	ug/kg
Chlorobenzene	ND	6.1	ug/kg
Dibromochloromethane	ND	6.1	ug/kg
Chloroethane	ND	6.1	ug/kg
Chloroform	ND	6.1	ug/kg
1,1-Dichloroethane	ND	6.1	ug/kg
1,2-Dichloroethane	ND	6.1	ug/kg
cis-1,2-Dichloroethene	ND	6.1	ug/kg
trans-1,2-Dichloroethene	ND	6.1	ug/kg
1,1-Dichloroethene	ND	6.1	ug/kg
1,2-Dichloroethene (total)	ND	12	ug/kg
1,2-Dichloropropane	ND	6.1	ug/kg
cis-1,3-Dichloropropene	ND	6.1	ug/kg
trans-1,3-Dichloropropene	ND	6.1	ug/kg
Ethylbenzene	ND	6.1	ug/kg
2-Hexanone	ND	12	ug/kg
Methylene chloride	ND	6.1	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
Styrene	ND	6.1	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.1	ug/kg
Tetrachloroethene	**39**	**6.1**	**ug/kg**
Toluene	ND	6.1	ug/kg
1,1,1-Trichloroethane	ND	6.1	ug/kg
1,1,2-Trichloroethane	ND	6.1	ug/kg
Trichloroethene	**0.99 J**	**6.1**	**ug/kg**
Vinyl chloride	ND	6.1	ug/kg
m-Xylene & p-Xylene	ND	6.1	ug/kg
o-Xylene	ND	6.1	ug/kg
Xylenes (total)	ND	12	ug/kg
Chloromethane	ND	12	ug/kg

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THE FORRESTER GROUP

Client Sample ID: SSB-B-18

GC/MS Volatiles

Lot-Sample #...: F4H110275-006 **Work Order #...:** GMXJ01AC **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	95	(80 - 130)
Dibromofluoromethane	118	(78 - 130)
1,2-Dichloroethane-d4	122	(72 - 134)
4-Bromofluorobenzene	116	(68 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: SSB-C-18

GC/MS Volatiles

Lot-Sample #...: F4H110275-007 **Work Order #...:** GMXJ31AC **Matrix.....:** SOLID
Date Sampled...: 08/10/04 12:49 **Date Received..:** 08/11/04
Prep Date.....: 08/22/04 **Analysis Date..:** 08/23/04
Prep Batch #...: 4236094 **Analysis Time..:** 03:51
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**17 J**	**24**	**ug/kg**
Benzene	ND	5.9	ug/kg
Bromodichloromethane	ND	5.9	ug/kg
Bromoform	ND	5.9	ug/kg
Bromomethane	ND	12	ug/kg
2-Butanone (MEK)	ND	24	ug/kg
Carbon disulfide	**2.5 J**	**5.9**	**ug/kg**
Carbon tetrachloride	ND	5.9	ug/kg
Chlorobenzene	ND	5.9	ug/kg
Dibromochloromethane	ND	5.9	ug/kg
Chloroethane	ND	5.9	ug/kg
Chloroform	ND	5.9	ug/kg
1,1-Dichloroethane	ND	5.9	ug/kg
1,2-Dichloroethane	ND	5.9	ug/kg
cis-1,2-Dichloroethene	**2.9 J**	**5.9**	**ug/kg**
trans-1,2-Dichloroethene	**0.47 J**	**5.9**	**ug/kg**
1,1-Dichloroethene	ND	5.9	ug/kg
1,2-Dichloroethene (total)	**3.4 J**	**12**	**ug/kg**
1,2-Dichloropropane	ND	5.9	ug/kg
cis-1,3-Dichloropropene	ND	5.9	ug/kg
trans-1,3-Dichloropropene	ND	5.9	ug/kg
Ethylbenzene	ND	5.9	ug/kg
2-Hexanone	ND	12	ug/kg
Methylene chloride	ND	5.9	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
Styrene	ND	5.9	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.9	ug/kg
Tetrachloroethene	**7.8**	**5.9**	**ug/kg**
Toluene	ND	5.9	ug/kg
1,1,1-Trichloroethane	ND	5.9	ug/kg
1,1,2-Trichloroethane	ND	5.9	ug/kg
Trichloroethene	**8.0**	**5.9**	**ug/kg**
Vinyl chloride	ND	5.9	ug/kg
m-Xylene & p-Xylene	ND	5.9	ug/kg
o-Xylene	ND	5.9	ug/kg
Xylenes (total)	ND	12	ug/kg
Chloromethane	ND	12	ug/kg

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THE FORRESTER GROUP

Client Sample ID: SSB-C-18

GC/MS Volatiles

Lot-Sample #...: F4H110275-007 **Work Order #...:** GMXJ31AC **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	97	(80 - 130)
Dibromofluoromethane	120	(78 - 130)
1,2-Dichloroethane-d4	130	(72 - 134)
4-Bromofluorobenzene	107	(68 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: DUP-1

GC/MS Volatiles

Lot-Sample #...: F4H110275-008 **Work Order #...:** GMXJ71AC **Matrix.....:** SOLID
Date Sampled...: 08/10/04 **Date Received..:** 08/11/04
Prep Date.....: 08/22/04 **Analysis Date..:** 08/23/04
Prep Batch #...: 4236094 **Analysis Time..:** 04:26
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**9.2 J**	**24**	**ug/kg**
Benzene	**0.34 J**	**5.9**	**ug/kg**
Bromodichloromethane	ND	5.9	ug/kg
Bromoform	ND	5.9	ug/kg
Bromomethane	ND	12	ug/kg
2-Butanone (MEK)	ND	24	ug/kg
Carbon disulfide	ND	5.9	ug/kg
Carbon tetrachloride	ND	5.9	ug/kg
Chlorobenzene	ND	5.9	ug/kg
Dibromochloromethane	ND	5.9	ug/kg
Chloroethane	ND	5.9	ug/kg
Chloroform	**0.14 J**	**5.9**	**ug/kg**
1,1-Dichloroethane	ND	5.9	ug/kg
1,2-Dichloroethane	ND	5.9	ug/kg
cis-1,2-Dichloroethene	**0.40 J**	**5.9**	**ug/kg**
trans-1,2-Dichloroethene	ND	5.9	ug/kg
1,1-Dichloroethene	ND	5.9	ug/kg
1,2-Dichloroethene (total)	ND	12	ug/kg
1,2-Dichloropropane	ND	5.9	ug/kg
cis-1,3-Dichloropropene	ND	5.9	ug/kg
trans-1,3-Dichloropropene	ND	5.9	ug/kg
Ethylbenzene	ND	5.9	ug/kg
2-Hexanone	ND	12	ug/kg
Methylene chloride	ND	5.9	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
Styrene	ND	5.9	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.9	ug/kg
Tetrachloroethene	**100**	**5.9**	**ug/kg**
Toluene	**0.78 J**	**5.9**	**ug/kg**
1,1,1-Trichloroethane	ND	5.9	ug/kg
1,1,2-Trichloroethane	ND	5.9	ug/kg
Trichloroethene	**3.0 J**	**5.9**	**ug/kg**
Vinyl chloride	ND	5.9	ug/kg
m-Xylene & p-Xylene	ND	5.9	ug/kg
o-Xylene	ND	5.9	ug/kg
Xylenes (total)	ND	12	ug/kg
Chloromethane	ND	12	ug/kg

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THE FORRESTER GROUP

Client Sample ID: DUP-1

GC/MS Volatiles

Lot-Sample #...: F4H110275-008 **Work Order #...:** GMXJ71AC **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	150 *	(80 - 130)
Dibromofluoromethane	183 *	(78 - 130)
1,2-Dichloroethane-d4	196 *	(72 - 134)
4-Bromofluorobenzene	184 *	(68 - 150)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: DUP-1

GC/MS Volatiles

Lot-Sample #...: F4H110275-008 **Work Order #...:** GMXJ72AC **Matrix.....:** SOLID
Date Sampled...: 08/10/04 **Date Received..:** 08/11/04
Prep Date.....: 08/24/04 **Analysis Date..:** 08/24/04
Prep Batch #...: 4238082 **Analysis Time..:** 17:25
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**11 J,B**	**24**	**ug/kg**
Benzene	ND	5.9	ug/kg
Bromodichloromethane	ND	5.9	ug/kg
Bromoform	ND	5.9	ug/kg
Bromomethane	ND	12	ug/kg
2-Butanone (MEK)	ND	24	ug/kg
Carbon disulfide	ND	5.9	ug/kg
Carbon tetrachloride	ND	5.9	ug/kg
Chlorobenzene	ND	5.9	ug/kg
Dibromochloromethane	ND	5.9	ug/kg
Chloroethane	ND	5.9	ug/kg
Chloroform	ND	5.9	ug/kg
1,1-Dichloroethane	ND	5.9	ug/kg
1,2-Dichloroethane	ND	5.9	ug/kg
cis-1,2-Dichloroethene	ND	5.9	ug/kg
trans-1,2-Dichloroethene	ND	5.9	ug/kg
1,1-Dichloroethene	ND	5.9	ug/kg
1,2-Dichloroethene (total)	ND	12	ug/kg
1,2-Dichloropropane	ND	5.9	ug/kg
cis-1,3-Dichloropropene	ND	5.9	ug/kg
trans-1,3-Dichloropropene	ND	5.9	ug/kg
Ethylbenzene	ND	5.9	ug/kg
2-Hexanone	ND	12	ug/kg
Methylene chloride	**3.4 J,B**	**5.9**	**ug/kg**
4-Methyl-2-pentanone	ND	24	ug/kg
Styrene	ND	5.9	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.9	ug/kg
Tetrachloroethene	**26**	**5.9**	**ug/kg**
Toluene	ND	5.9	ug/kg
1,1,1-Trichloroethane	ND	5.9	ug/kg
1,1,2-Trichloroethane	ND	5.9	ug/kg
Trichloroethene	**0.73 J**	**5.9**	**ug/kg**
Vinyl chloride	ND	5.9	ug/kg
m-Xylene & p-Xylene	ND	5.9	ug/kg
o-Xylene	ND	5.9	ug/kg
Xylenes (total)	ND	12	ug/kg
Chloromethane	ND	12	ug/kg

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THE FORRESTER GROUP

Client Sample ID: DUP-1

GC/MS Volatiles

Lot-Sample #...: F4H110275-008 **Work Order #...:** GMXJ72AC **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	67 *	(80 - 130)
Dibromofluoromethane	83	(78 - 130)
1,2-Dichloroethane-d4	95	(72 - 134)
4-Bromofluorobenzene	75	(68 - 150)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

THE FORRESTER GROUP

Client Sample ID: SSB-A-19

GC/MS Volatiles

Lot-Sample #...: F4H110275-009 **Work Order #...:** GMXKC1AC **Matrix.....:** SOLID
Date Sampled...: 08/10/04 11:58 **Date Received..:** 08/11/04
Prep Date.....: 08/22/04 **Analysis Date..:** 08/23/04
Prep Batch #...: 4236094 **Analysis Time..:** 05:00
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**11 J**	**23**	**ug/kg**
Benzene	ND	5.8	ug/kg
Bromodichloromethane	ND	5.8	ug/kg
Bromoform	ND	5.8	ug/kg
Bromomethane	ND	12	ug/kg
2-Butanone (MEK)	ND	23	ug/kg
Carbon disulfide	**1.2 J**	**5.8**	**ug/kg**
Carbon tetrachloride	ND	5.8	ug/kg
Chlorobenzene	ND	5.8	ug/kg
Dibromochloromethane	ND	5.8	ug/kg
Chloroethane	ND	5.8	ug/kg
Chloroform	ND	5.8	ug/kg
1,1-Dichloroethane	ND	5.8	ug/kg
1,2-Dichloroethane	ND	5.8	ug/kg
cis-1,2-Dichloroethene	ND	5.8	ug/kg
trans-1,2-Dichloroethene	ND	5.8	ug/kg
1,1-Dichloroethene	ND	5.8	ug/kg
1,2-Dichloroethene (total)	ND	12	ug/kg
1,2-Dichloropropane	ND	5.8	ug/kg
cis-1,3-Dichloropropene	ND	5.8	ug/kg
trans-1,3-Dichloropropene	ND	5.8	ug/kg
Ethylbenzene	ND	5.8	ug/kg
2-Hexanone	ND	12	ug/kg
Methylene chloride	ND	5.8	ug/kg
4-Methyl-2-pentanone	ND	23	ug/kg
Styrene	ND	5.8	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg
Tetrachloroethene	ND	5.8	ug/kg
Toluene	ND	5.8	ug/kg
1,1,1-Trichloroethane	ND	5.8	ug/kg
1,1,2-Trichloroethane	ND	5.8	ug/kg
Trichloroethene	ND	5.8	ug/kg
Vinyl chloride	ND	5.8	ug/kg
m-Xylene & p-Xylene	ND	5.8	ug/kg
o-Xylene	ND	5.8	ug/kg
Xylenes (total)	ND	12	ug/kg
Chloromethane	ND	12	ug/kg

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THE FORRESTER GROUP

Client Sample ID: SSB-A-19

GC/MS Volatiles

Lot-Sample #...: F4H110275-009 **Work Order #...:** GMXKC1AC **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	98	(80 - 130)
Dibromofluoromethane	119	(78 - 130)
1,2-Dichloroethane-d4	133	(72 - 134)
4-Bromofluorobenzene	115	(68 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: SSB-B-19

GC/MS Volatiles

Lot-Sample #...: F4H110275-010 **Work Order #...:** GMXKF1AC **Matrix.....:** SOLID
Date Sampled...: 08/10/04 12:07 **Date Received..:** 08/11/04
Prep Date.....: 08/24/04 **Analysis Date..:** 08/24/04
Prep Batch #...: 4238082 **Analysis Time..:** 16:16
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**10 J,B**	**24**	**ug/kg**
Benzene	ND	6.0	ug/kg
Bromodichloromethane	ND	6.0	ug/kg
Bromoform	ND	6.0	ug/kg
Bromomethane	ND	12	ug/kg
2-Butanone (MEK)	ND	24	ug/kg
Carbon disulfide	ND	6.0	ug/kg
Carbon tetrachloride	ND	6.0	ug/kg
Chlorobenzene	ND	6.0	ug/kg
Dibromochloromethane	ND	6.0	ug/kg
Chloroethane	ND	6.0	ug/kg
Chloroform	ND	6.0	ug/kg
1,1-Dichloroethane	ND	6.0	ug/kg
1,2-Dichloroethane	ND	6.0	ug/kg
cis-1,2-Dichloroethene	**0.67 J**	**6.0**	**ug/kg**
trans-1,2-Dichloroethene	ND	6.0	ug/kg
1,1-Dichloroethene	ND	6.0	ug/kg
1,2-Dichloroethene (total)	ND	12	ug/kg
1,2-Dichloropropane	ND	6.0	ug/kg
cis-1,3-Dichloropropene	ND	6.0	ug/kg
trans-1,3-Dichloropropene	ND	6.0	ug/kg
Ethylbenzene	ND	6.0	ug/kg
2-Hexanone	ND	12	ug/kg
Methylene chloride	ND	6.0	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
Styrene	ND	6.0	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.0	ug/kg
Tetrachloroethene	**65**	**6.0**	**ug/kg**
Toluene	ND	6.0	ug/kg
1,1,1-Trichloroethane	ND	6.0	ug/kg
1,1,2-Trichloroethane	ND	6.0	ug/kg
Trichloroethene	**2.6 J**	**6.0**	**ug/kg**
Vinyl chloride	ND	6.0	ug/kg
m-Xylene & p-Xylene	ND	6.0	ug/kg
o-Xylene	ND	6.0	ug/kg
Xylenes (total)	ND	12	ug/kg
Chloromethane	ND	12	ug/kg

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THE FORRESTER GROUP

Client Sample ID: SSB-B-19

GC/MS Volatiles

Lot-Sample #...: F4H110275-010 **Work Order #...:** GMXKF1AC **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	98	(80 - 130)
Dibromofluoromethane	115	(78 - 130)
1,2-Dichloroethane-d4	130	(72 - 134)
4-Bromofluorobenzene	115	(68 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

THE FORRESTER GROUP

Client Sample ID: SSB-A-20

GC/MS Volatiles

Lot-Sample #...: F4H110275-011 **Work Order #...:** GMXKH1AC **Matrix.....:** SOLID
Date Sampled...: 08/10/04 15:14 **Date Received..:** 08/11/04
Prep Date.....: 08/24/04 **Analysis Date..:** 08/24/04
Prep Batch #...: 4238082 **Analysis Time..:** 14:34
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**16 J,B**	**23**	**ug/kg**
Benzene	ND	5.9	ug/kg
Bromodichloromethane	ND	5.9	ug/kg
Bromoform	ND	5.9	ug/kg
Bromomethane	ND	12	ug/kg
2-Butanone (MEK)	ND	23	ug/kg
Carbon disulfide	**1.0 J**	**5.9**	**ug/kg**
Carbon tetrachloride	ND	5.9	ug/kg
Chlorobenzene	**0.47 J**	**5.9**	**ug/kg**
Dibromochloromethane	ND	5.9	ug/kg
Chloroethane	ND	5.9	ug/kg
Chloroform	ND	5.9	ug/kg
1,1-Dichloroethane	ND	5.9	ug/kg
1,2-Dichloroethane	ND	5.9	ug/kg
cis-1,2-Dichloroethene	ND	5.9	ug/kg
trans-1,2-Dichloroethene	ND	5.9	ug/kg
1,1-Dichloroethene	ND	5.9	ug/kg
1,2-Dichloroethene (total)	ND	12	ug/kg
1,2-Dichloropropane	ND	5.9	ug/kg
cis-1,3-Dichloropropene	ND	5.9	ug/kg
trans-1,3-Dichloropropene	ND	5.9	ug/kg
Ethylbenzene	ND	5.9	ug/kg
2-Hexanone	ND	12	ug/kg
Methylene chloride	ND	5.9	ug/kg
4-Methyl-2-pentanone	ND	23	ug/kg
Styrene	ND	5.9	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.9	ug/kg
Tetrachloroethene	ND	5.9	ug/kg
Toluene	ND	5.9	ug/kg
1,1,1-Trichloroethane	ND	5.9	ug/kg
1,1,2-Trichloroethane	ND	5.9	ug/kg
Trichloroethene	ND	5.9	ug/kg
Vinyl chloride	ND	5.9	ug/kg
m-Xylene & p-Xylene	ND	5.9	ug/kg
o-Xylene	ND	5.9	ug/kg
Xylenes (total)	ND	12	ug/kg
Chloromethane	ND	12	ug/kg

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THE FORRESTER GROUP

Client Sample ID: SSB-A-20

GC/MS Volatiles

Lot-Sample #...: F4H110275-011 **Work Order #...:** GMXKH1AC **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	99	(80 - 130)
Dibromofluoromethane	117	(78 - 130)
1,2-Dichloroethane-d4	138 *	(72 - 134)
4-Bromofluorobenzene	115	(68 - 150)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

THE FORRESTER GROUP

Client Sample ID: SSB-B-20

GC/MS Volatiles

Lot-Sample #...: F4H110275-012 **Work Order #...:** GMXKK1AC **Matrix.....:** SOLID
Date Sampled...: 08/10/04 15:19 **Date Received..:** 08/11/04
Prep Date.....: 08/24/04 **Analysis Date..:** 08/24/04
Prep Batch #...: 4238082 **Analysis Time..:** 16:51
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**76 B**	**25**	**ug/kg**
Benzene	ND	6.2	ug/kg
Bromodichloromethane	ND	6.2	ug/kg
Bromoform	ND	6.2	ug/kg
Bromomethane	ND	12	ug/kg
2-Butanone (MEK)	**15 J**	**25**	**ug/kg**
Carbon disulfide	**0.46 J**	**6.2**	**ug/kg**
Carbon tetrachloride	ND	6.2	ug/kg
Chlorobenzene	**0.21 J**	**6.2**	**ug/kg**
Dibromochloromethane	ND	6.2	ug/kg
Chloroethane	ND	6.2	ug/kg
Chloroform	ND	6.2	ug/kg
1,1-Dichloroethane	ND	6.2	ug/kg
1,2-Dichloroethane	ND	6.2	ug/kg
cis-1,2-Dichloroethene	ND	6.2	ug/kg
trans-1,2-Dichloroethene	ND	6.2	ug/kg
1,1-Dichloroethene	ND	6.2	ug/kg
1,2-Dichloroethene (total)	ND	12	ug/kg
1,2-Dichloropropane	ND	6.2	ug/kg
cis-1,3-Dichloropropene	ND	6.2	ug/kg
trans-1,3-Dichloropropene	ND	6.2	ug/kg
Ethylbenzene	ND	6.2	ug/kg
2-Hexanone	ND	12	ug/kg
Methylene chloride	ND	6.2	ug/kg
4-Methyl-2-pentanone	ND	25	ug/kg
Styrene	ND	6.2	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.2	ug/kg
Tetrachloroethene	**0.62 J**	**6.2**	**ug/kg**
Toluene	ND	6.2	ug/kg
1,1,1-Trichloroethane	ND	6.2	ug/kg
1,1,2-Trichloroethane	ND	6.2	ug/kg
Trichloroethene	ND	6.2	ug/kg
Vinyl chloride	ND	6.2	ug/kg
m-Xylene & p-Xylene	ND	6.2	ug/kg
o-Xylene	ND	6.2	ug/kg
Xylenes (total)	ND	12	ug/kg
Chloromethane	ND	12	ug/kg

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THE FORRESTER GROUP

Client Sample ID: SSB-B-20

GC/MS Volatiles

Lot-Sample #...: F4H110275-012 **Work Order #...:** GMXKK1AC **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	92	(80 - 130)
Dibromofluoromethane	110	(78 - 130)
1,2-Dichloroethane-d4	127	(72 - 134)
4-Bromofluorobenzene	106	(68 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

THE FORRESTER GROUP

Client Sample ID: SSB-A-21

GC/MS Volatiles

Lot-Sample #...: F4H110275-013 **Work Order #...:** GMXKP1AC **Matrix.....:** SOLID
Date Sampled...: 08/10/04 15:39 **Date Received..:** 08/11/04
Prep Date.....: 08/22/04 **Analysis Date..:** 08/22/04
Prep Batch #...: 4236094 **Analysis Time..:** 22:41
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**8.0 J**	**24**	**ug/kg**
Benzene	ND	6.1	ug/kg
Bromodichloromethane	ND	6.1	ug/kg
Bromoform	ND	6.1	ug/kg
Bromomethane	ND	12	ug/kg
2-Butanone (MEK)	ND	24	ug/kg
Carbon disulfide	ND	6.1	ug/kg
Carbon tetrachloride	ND	6.1	ug/kg
Chlorobenzene	**0.54 J**	**6.1**	**ug/kg**
Dibromochloromethane	ND	6.1	ug/kg
Chloroethane	ND	6.1	ug/kg
Chloroform	ND	6.1	ug/kg
1,1-Dichloroethane	**0.63 J**	**6.1**	**ug/kg**
1,2-Dichloroethane	ND	6.1	ug/kg
cis-1,2-Dichloroethene	**1.2 J**	**6.1**	**ug/kg**
trans-1,2-Dichloroethene	ND	6.1	ug/kg
1,1-Dichloroethene	ND	6.1	ug/kg
1,2-Dichloroethene (total)	**1.2 J**	**12**	**ug/kg**
1,2-Dichloropropane	ND	6.1	ug/kg
cis-1,3-Dichloropropene	ND	6.1	ug/kg
trans-1,3-Dichloropropene	ND	6.1	ug/kg
Ethylbenzene	ND	6.1	ug/kg
2-Hexanone	ND	12	ug/kg
Methylene chloride	ND	6.1	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
Styrene	ND	6.1	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.1	ug/kg
Tetrachloroethene	**4.7 J**	**6.1**	**ug/kg**
Toluene	ND	6.1	ug/kg
1,1,1-Trichloroethane	ND	6.1	ug/kg
1,1,2-Trichloroethane	ND	6.1	ug/kg
Trichloroethene	**3.1 J**	**6.1**	**ug/kg**
Vinyl chloride	ND	6.1	ug/kg
m-Xylene & p-Xylene	ND	6.1	ug/kg
o-Xylene	ND	6.1	ug/kg
Xylenes (total)	ND	12	ug/kg
Chloromethane	ND	12	ug/kg

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THE FORRESTER GROUP

Client Sample ID: SSB-A-21

GC/MS Volatiles

Lot-Sample #...: F4H110275-013 **Work Order #...:** GMXKP1AC **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	100	(80 - 130)
Dibromofluoromethane	139 *	(78 - 130)
1,2-Dichloroethane-d4	116	(72 - 134)
4-Bromofluorobenzene	105	(68 - 150)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F4H110275 **Work Order #...:** GMXKP1AF-MS **Matrix.....:** SOLID
MS Lot-Sample #: F4H110275-013 GMXKP1AG-MSD
Date Sampled...: 08/10/04 15:39 **Date Received..:** 08/11/04
Prep Date.....: 08/22/04 **Analysis Date..:** 08/22/04
Prep Batch #...: 4236094 **Analysis Time..:** 23:16
Dilution Factor: 1 **% Moisture.....:** 18

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
cis-1,3-Dichloropropene	99	(71 - 131)			SW846 8260B
	102	(71 - 131)	4.2	(0-30)	SW846 8260B
Chloromethane	65	(10 - 150)			SW846 8260B
	64	(10 - 150)	8.4	(0-30)	SW846 8260B
Vinyl chloride	74	(10 - 150)			SW846 8260B
	74	(10 - 150)	8.7	(0-30)	SW846 8260B
Bromomethane	59	(20 - 133)			SW846 8260B
	59	(20 - 133)	8.3	(0-30)	SW846 8260B
Chloroethane	82	(39 - 143)			SW846 8260B
	83	(39 - 143)	7.0	(0-30)	SW846 8260B
Acetone	99	(10 - 150)			SW846 8260B
	88	(10 - 150)	15	(0-30)	SW846 8260B
1,1-Dichloroethene	84	(60 - 133)			SW846 8260B
	83	(60 - 133)	8.7	(0-30)	SW846 8260B
Methylene chloride	82	(40 - 120)			SW846 8260B
	81	(40 - 120)	9.6	(0-30)	SW846 8260B
Carbon disulfide	90	(40 - 150)			SW846 8260B
	88	(40 - 150)	9.5	(0-30)	SW846 8260B
1,1-Dichloroethane	87	(76 - 126)			SW846 8260B
	89	(76 - 126)	5.4	(0-30)	SW846 8260B
1,2-Dichloroethene (total)	94	(77 - 128)			SW846 8260B
	91	(77 - 128)	11	(0-30)	SW846 8260B
Chloroform	95	(75 - 130)			SW846 8260B
	96	(75 - 130)	7.0	(0-30)	SW846 8260B
1,1,1-Trichloroethane	88	(68 - 130)			SW846 8260B
	89	(68 - 130)	7.0	(0-30)	SW846 8260B
Carbon tetrachloride	88	(65 - 131)			SW846 8260B
	89	(65 - 131)	7.0	(0-30)	SW846 8260B
1,2-Dichloroethane	104	(66 - 133)			SW846 8260B
	104	(66 - 133)	7.2	(0-30)	SW846 8260B
Benzene	90	(78 - 115)			SW846 8260B
	88	(78 - 115)	9.6	(0-30)	SW846 8260B
Trichloroethene	86	(20 - 150)			SW846 8260B
	82	(20 - 150)	11	(0-30)	SW846 8260B
1,2-Dichloropropane	97	(79 - 127)			SW846 8260B
	97	(79 - 127)	7.1	(0-30)	SW846 8260B
Bromodichloromethane	99	(74 - 128)			SW846 8260B
	100	(74 - 128)	6.9	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F4H110275 **Work Order #...:** GMXKP1AF-MS **Matrix.....:** SOLID
MS Lot-Sample #: F4H110275-013 GMXKP1AG-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1,2-Trichloroethane	98	(63 - 149)			SW846 8260B
	103	(63 - 149)	2.9	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	110	(74 - 149)			SW846 8260B
	114	(74 - 149)	3.8	(0-30)	SW846 8260B
Toluene	86	(70 - 132)			SW846 8260B
	83	(70 - 132)	12	(0-30)	SW846 8260B
m-Xylene & p-Xylene	88	(75 - 124)			SW846 8260B
	88	(75 - 124)	7.6	(0-30)	SW846 8260B
o-Xylene	93	(75 - 129)			SW846 8260B
	90	(75 - 129)	11	(0-30)	SW846 8260B
2-Hexanone	112	(29 - 150)			SW846 8260B
	117	(29 - 150)	3.5	(0-30)	SW846 8260B
4-Methyl-2-pentanone	126 a	(18 - 120)			SW846 8260B
	131 a	(18 - 120)	3.9	(0-30)	SW846 8260B
Chlorobenzene	90	(86 - 118)			SW846 8260B
	89	(86 - 118)	8.6	(0-30)	SW846 8260B
Bromoform	112	(59 - 161)			SW846 8260B
	116	(59 - 161)	4.1	(0-30)	SW846 8260B
Ethylbenzene	86	(79 - 123)			SW846 8260B
	85	(79 - 123)	9.5	(0-30)	SW846 8260B
Styrene	91	(68 - 134)			SW846 8260B
	90	(68 - 134)	8.7	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	113	(45 - 150)			SW846 8260B
	116	(45 - 150)	5.6	(0-30)	SW846 8260B
Tetrachloroethene	74	(40 - 143)			SW846 8260B
	70	(40 - 143)	12	(0-30)	SW846 8260B
2-Butanone (MEK)	127	(31 - 150)			SW846 8260B
	136	(31 - 150)	0.62	(0-30)	SW846 8260B
Dibromochloromethane	100	(62 - 150)			SW846 8260B
	100	(62 - 150)	7.3	(0-30)	SW846 8260B
cis-1,2-Dichloroethene	94	(70 - 135)			SW846 8260B
	91	(70 - 135)	11	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	94	(63 - 129)			SW846 8260B
	91	(63 - 129)	11	(0-30)	SW846 8260B
1,3-Dichlorobenzene	83 a	(84 - 120)			SW846 8260B
	81 a	(84 - 120)	10	(0-30)	SW846 8260B
1,4-Dichlorobenzene	80 a	(81 - 115)			SW846 8260B
	78 a	(81 - 115)	10	(0-30)	SW846 8260B
1,2-Dichlorobenzene	86	(80 - 125)			SW846 8260B
	84	(80 - 125)	9.6	(0-30)	SW846 8260B
Bromobenzene	90	(72 - 150)			SW846 8260B
	92	(72 - 150)	5.3	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F4H110275 **Work Order #...:** GMXKP1AF-MS **Matrix.....:** SOLID
MS Lot-Sample #: F4H110275-013 GMXKP1AG-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Bromochloromethane	101	(65 - 143)			SW846 8260B
	104	(65 - 143)	5.3	(0-30)	SW846 8260B
n-Butylbenzene	76	(54 - 150)			SW846 8260B
	71	(54 - 150)	15	(0-30)	SW846 8260B
sec-Butylbenzene	78	(59 - 134)			SW846 8260B
	73	(59 - 134)	14	(0-30)	SW846 8260B
tert-Butylbenzene	67	(51 - 118)			SW846 8260B
	64	(51 - 118)	12	(0-30)	SW846 8260B
Allyl chloride	87	(58 - 131)			SW846 8260B
	85	(58 - 131)	10	(0-30)	SW846 8260B
2-Chlorotoluene	78	(10 - 150)			SW846 8260B
	78	(10 - 150)	7.5	(0-30)	SW846 8260B
4-Chlorotoluene	82	(72 - 144)			SW846 8260B
	78	(72 - 144)	13	(0-30)	SW846 8260B
Cyclohexanone	200 a	(10 - 150)			SW846 8260B
	192 a	(10 - 150)	12	(0-30)	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	119	(22 - 150)			SW846 8260B
	126	(22 - 150)	2.4	(0-30)	SW846 8260B
1,2-Dibromoethane (EDB)	105	(48 - 150)			SW846 8260B
	108	(48 - 150)	5.2	(0-30)	SW846 8260B
trans-1,4-Dichloro-2-butene	95	(65 - 135)			SW846 8260B
	97	(65 - 135)	5.6	(0-30)	SW846 8260B
Dichlorodifluoromethane (Freon 12)	49	(10 - 142)			SW846 8260B
	48	(10 - 142)	10	(0-30)	SW846 8260B
1,3-Dichloropropane	98	(41 - 150)			SW846 8260B
	98	(41 - 150)	6.9	(0-30)	SW846 8260B
2,2-Dichloropropane	91	(58 - 125)			SW846 8260B
	90	(58 - 125)	8.5	(0-30)	SW846 8260B
1,1-Dichloropropene	92	(68 - 130)			SW846 8260B
	91	(68 - 130)	8.3	(0-30)	SW846 8260B
Ethyl ether	102	(65 - 140)			SW846 8260B
	101	(65 - 140)	8.3	(0-30)	SW846 8260B
Ethyl methacrylate	107	(46 - 126)			SW846 8260B
	109	(46 - 126)	5.5	(0-30)	SW846 8260B
Freon 113	84	(59 - 139)			SW846 8260B
	84	(59 - 139)	8.0	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F4H110275 **Work Order #...:** GMXKP1AF-MS **Matrix.....:** SOLID
MS Lot-Sample #: F4H110275-013 GMXKP1AG-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorobutadiene	73	(24 - 150)			SW846 8260B
	57 p	(24 - 150)	31	(0-30)	SW846 8260B
n-Hexane	72	(32 - 133)			SW846 8260B
	71	(32 - 133)	8.8	(0-30)	SW846 8260B
Isopropylbenzene	98	(71 - 150)			SW846 8260B
	98	(71 - 150)	8.1	(0-30)	SW846 8260B
4-Isopropyltoluene	86	(64 - 149)			SW846 8260B
	80	(64 - 149)	15	(0-30)	SW846 8260B
Methyl methacrylate	124	(51 - 150)			SW846 8260B
	128	(51 - 150)	4.8	(0-30)	SW846 8260B
Methyl tert-butyl ether (MTBE)	110	(47 - 130)			SW846 8260B
	105	(47 - 130)	13	(0-30)	SW846 8260B
Naphthalene	67	(64 - 124)			SW846 8260B
	69	(64 - 124)	4.3	(0-30)	SW846 8260B
n-Propylbenzene	85	(73 - 138)			SW846 8260B
	81	(73 - 138)	13	(0-30)	SW846 8260B
1,1,1,2-Tetrachloroethane	96	(82 - 131)			SW846 8260B
	95	(82 - 131)	8.1	(0-30)	SW846 8260B
Tetrahydrofuran	113	(38 - 150)			SW846 8260B
	112	(38 - 150)	8.4	(0-30)	SW846 8260B
1,2,3-Trichlorobenzene	69	(26 - 146)			SW846 8260B
	66	(26 - 146)	13	(0-30)	SW846 8260B
1,2,4-Trichloro-benzene	69	(41 - 144)			SW846 8260B
	63	(41 - 144)	17	(0-30)	SW846 8260B
Trichlorofluoromethane	80	(50 - 130)			SW846 8260B
	81	(50 - 130)	6.2	(0-30)	SW846 8260B
1,3,5-Trimethylbenzene	83	(69 - 141)			SW846 8260B
	80	(69 - 141)	12	(0-30)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	99	(80 - 130)
	97	(80 - 130)
Dibromofluoromethane	112	(78 - 130)
	112	(78 - 130)
1,2-Dichloroethane-d4	124	(72 - 134)
	122	(72 - 134)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F4H110275 **Work Order #...:** GMXKP1AF-MS **Matrix.....:** SOLID
MS Lot-Sample #: F4H110275-013 GMXKP1AG-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	110	(68 - 150)
	111	(68 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

THE FORRESTER GROUP

Client Sample ID: SSB-B-21

GC/MS Volatiles

Lot-Sample #...: F4H110275-014 **Work Order #...:** GMXK01AC **Matrix.....:** SOLID
Date Sampled...: 08/10/04 15:48 **Date Received..:** 08/11/04
Prep Date.....: 08/24/04 **Analysis Date..:** 08/24/04
Prep Batch #...: 4238082 **Analysis Time..:** 17:59
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**12 J,B**	**24**	**ug/kg**
Benzene	ND	6.1	ug/kg
Bromodichloromethane	ND	6.1	ug/kg
Bromoform	ND	6.1	ug/kg
Bromomethane	ND	12	ug/kg
2-Butanone (MEK)	ND	24	ug/kg
Carbon disulfide	**2.4 J**	**6.1**	**ug/kg**
Carbon tetrachloride	ND	6.1	ug/kg
Chlorobenzene	**0.44 J**	**6.1**	**ug/kg**
Dibromochloromethane	ND	6.1	ug/kg
Chloroethane	ND	6.1	ug/kg
Chloroform	ND	6.1	ug/kg
1,1-Dichloroethane	**1.2 J**	**6.1**	**ug/kg**
1,2-Dichloroethane	ND	6.1	ug/kg
cis-1,2-Dichloroethene	**1.7 J**	**6.1**	**ug/kg**
trans-1,2-Dichloroethene	ND	6.1	ug/kg
1,1-Dichloroethene	ND	6.1	ug/kg
1,2-Dichloroethene (total)	**1.7 J**	**12**	**ug/kg**
1,2-Dichloropropane	ND	6.1	ug/kg
cis-1,3-Dichloropropene	ND	6.1	ug/kg
trans-1,3-Dichloropropene	ND	6.1	ug/kg
Ethylbenzene	ND	6.1	ug/kg
2-Hexanone	ND	12	ug/kg
Methylene chloride	**5.9 J,B**	**6.1**	**ug/kg**
4-Methyl-2-pentanone	ND	24	ug/kg
Styrene	ND	6.1	ug/kg
1,1,2,2-Tetrachloroethane	ND	6.1	ug/kg
Tetrachloroethene	**48**	**6.1**	**ug/kg**
Toluene	ND	6.1	ug/kg
1,1,1-Trichloroethane	ND	6.1	ug/kg
1,1,2-Trichloroethane	ND	6.1	ug/kg
Trichloroethene	**5.5 J**	**6.1**	**ug/kg**
Vinyl chloride	ND	6.1	ug/kg
m-Xylene & p-Xylene	ND	6.1	ug/kg
o-Xylene	ND	6.1	ug/kg
Xylenes (total)	ND	12	ug/kg
Chloromethane	ND	12	ug/kg

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THE FORRESTER GROUP

Client Sample ID: SSB-B-21

GC/MS Volatiles

Lot-Sample #...: F4H110275-014 **Work Order #...:** GMXK01AC **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	88	(80 - 130)
Dibromofluoromethane	109	(78 - 130)
1,2-Dichloroethane-d4	123	(72 - 134)
4-Bromofluorobenzene	104	(68 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

THE FORRESTER GROUP

Client Sample ID: SSB-C-21

GC/MS Volatiles

Lot-Sample #...: F4H110275-015 **Work Order #...:** GMXK21AC **Matrix.....:** SOLID
Date Sampled...: 08/10/04 16:03 **Date Received..:** 08/11/04
Prep Date.....: 08/24/04 **Analysis Date..:** 08/24/04
Prep Batch #...: 4238082 **Analysis Time..:** 18:34
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,2-Dichloroethane	ND	5.8	ug/kg
cis-1,2-Dichloroethene	**1.5 J**	**5.8**	**ug/kg**
trans-1,2-Dichloroethene	ND	5.8	ug/kg
1,1-Dichloroethene	ND	5.8	ug/kg
1,2-Dichloroethene (total)	**1.5 J**	**12**	**ug/kg**
1,2-Dichloropropane	ND	5.8	ug/kg
cis-1,3-Dichloropropene	ND	5.8	ug/kg
trans-1,3-Dichloropropene	ND	5.8	ug/kg
Ethylbenzene	ND	5.8	ug/kg
2-Hexanone	ND	12	ug/kg
Methylene chloride	**3.2 J,B**	**5.8**	**ug/kg**
4-Methyl-2-pentanone	ND	23	ug/kg
Styrene	ND	5.8	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg
Tetrachloroethene	**36**	**5.8**	**ug/kg**
Toluene	ND	5.8	ug/kg
1,1,1-Trichloroethane	ND	5.8	ug/kg
1,1,2-Trichloroethane	ND	5.8	ug/kg
Trichloroethene	**1.7 J**	**5.8**	**ug/kg**
Vinyl chloride	ND	5.8	ug/kg
m-Xylene & p-Xylene	ND	5.8	ug/kg
o-Xylene	ND	5.8	ug/kg
Xylenes (total)	ND	12	ug/kg
Chloromethane	ND	12	ug/kg
Carbon tetrachloride	ND	5.8	ug/kg
Chlorobenzene	**0.31 J**	**5.8**	**ug/kg**
Dibromochloromethane	ND	5.8	ug/kg
Chloroethane	ND	5.8	ug/kg
Chloroform	ND	5.8	ug/kg
1,1-Dichloroethane	**0.67 J**	**5.8**	**ug/kg**
Acetone	**8.3 J,B**	**23**	**ug/kg**
Benzene	ND	5.8	ug/kg
Bromodichloromethane	ND	5.8	ug/kg
Bromoform	ND	5.8	ug/kg
Bromomethane	ND	12	ug/kg
2-Butanone (MEK)	ND	23	ug/kg
Carbon disulfide	ND	5.8	ug/kg

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THE FORRESTER GROUP

Client Sample ID: SSB-C-21

GC/MS Volatiles

Lot-Sample #...: F4H110275-015 **Work Order #...:** GMXK21AC **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	101	(80 - 130)
Dibromofluoromethane	123	(78 - 130)
1,2-Dichloroethane-d4	141 *	(72 - 134)
4-Bromofluorobenzene	118	(68 - 150)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F4H110275 **Work Order #...:** GNNXE1AA **Matrix.....:** SOLID
MB Lot-Sample #: F4H230000-094

Prep Date.....: 08/22/04 **Analysis Time..:** 21:54
Analysis Date..: 08/22/04 **Prep Batch #...:** 4236094
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	20	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethene (total)	ND	10	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	10	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
o-Xylene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	10	ug/kg	SW846 8260B
m-Xylene & p-Xylene	ND	5.0	ug/kg	SW846 8260B
2-Butanone (MEK)	ND	20	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F4H110275 **Work Order #...:** GNNXE1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	112	(80 - 130)
Dibromofluoromethane	109	(78 - 130)
1,2-Dichloroethane-d4	118	(72 - 134)
4-Bromofluorobenzene	117	(68 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F4H110275 **Work Order #...:** GNVAE1AA **Matrix.....:** SOLID
MB Lot-Sample #: F4H250000-082

Prep Date.....: 08/24/04 **Analysis Time..:** 13:26
Analysis Date..: 08/24/04 **Prep Batch #...:** 4238082
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
Acetone	**8.1 J**	**20**	**ug/kg**	**SW846 8260B**
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethene (total)	ND	10	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	10	ug/kg	SW846 8260B
Methylene chloride	**3.3 J**	**5.0**	**ug/kg**	**SW846 8260B**
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
o-Xylene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	10	ug/kg	SW846 8260B
m-Xylene & p-Xylene	ND	5.0	ug/kg	SW846 8260B
2-Butanone (MEK)	ND	20	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F4H110275 **Work Order #...:** GNVAE1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	96	(80 - 130)
Dibromofluoromethane	140 *	(78 - 130)
1,2-Dichloroethane-d4	124	(72 - 134)
4-Bromofluorobenzene	112	(68 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

* Surrogate recovery is outside stated control limits.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F4H110275 **Work Order #...:** GN3T41AA **Matrix.....:** SOLID
MB Lot-Sample #: F4H270000-243

Prep Date.....: 08/26/04 **Analysis Time..:** 17:53
Analysis Date..: 08/26/04 **Prep Batch #...:** 4240243
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Tetrachloroethene	ND	250	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	101	(46 - 139)
Dibromofluoromethane	99	(26 - 149)
1,2-Dichloroethane-d4	104	(47 - 130)
4-Bromofluorobenzene	93	(40 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F4H110275 Work Order #...: GNNXE1AC Matrix.....: SOLID
LCS Lot-Sample#: F4H230000-094
Prep Date.....: 08/22/04 Analysis Date..: 08/22/04
Prep Batch #...: 4236094 Analysis Time..: 20:49
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
cis-1,3-Dichloropropene	83	(81 - 126)	SW846 8260B
Dibromochloromethane	107	(78 - 133)	SW846 8260B
Chloromethane	73	(10 - 150)	SW846 8260B
Vinyl chloride	81	(12 - 150)	SW846 8260B
Bromomethane	62	(27 - 128)	SW846 8260B
Chloroethane	94	(42 - 142)	SW846 8260B
Acetone	95	(23 - 150)	SW846 8260B
1,1-Dichloroethene	92	(65 - 129)	SW846 8260B
Methylene chloride	84	(42 - 119)	SW846 8260B
Carbon disulfide	97	(50 - 150)	SW846 8260B
1,1-Dichloroethane	100	(80 - 117)	SW846 8260B
2-Butanone (MEK)	125	(48 - 145)	SW846 8260B
1,2-Dichloroethene (total)	101	(84 - 121)	SW846 8260B
Chloroform	102	(82 - 117)	SW846 8260B
1,1,1-Trichloroethane	95	(75 - 123)	SW846 8260B
Carbon tetrachloride	95	(72 - 128)	SW846 8260B
1,2-Dichloroethane	108	(72 - 121)	SW846 8260B
Benzene	99	(81 - 111)	SW846 8260B
Trichloroethene	95	(80 - 115)	SW846 8260B
1,2-Dichloropropane	107	(81 - 120)	SW846 8260B
Bromodichloromethane	104	(79 - 120)	SW846 8260B
1,1,2-Trichloroethane	110	(78 - 119)	SW846 8260B
trans-1,3-Dichloropropene	131	(81 - 139)	SW846 8260B
Toluene	100	(80 - 115)	SW846 8260B
m-Xylene & p-Xylene	109	(82 - 120)	SW846 8260B
o-Xylene	110	(83 - 123)	SW846 8260B
2-Hexanone	120	(52 - 140)	SW846 8260B
4-Methyl-2-pentanone	92	(32 - 112)	SW846 8260B
Chlorobenzene	111	(88 - 115)	SW846 8260B
Bromoform	121	(66 - 150)	SW846 8260B
Ethylbenzene	100	(84 - 119)	SW846 8260B
Styrene	113	(81 - 129)	SW846 8260B
1,1,2,2-Tetrachloroethane	123	(63 - 145)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F4H110275 Work Order #...: GNNXE1AC Matrix.....: SOLID
LCS Lot-Sample#: F4H230000-094

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Tetrachloroethene	93	(64 - 120)	SW846 8260B
cis-1,2-Dichloroethene	103	(84 - 113)	SW846 8260B
trans-1,2-Dichloroethene	99	(68 - 130)	SW846 8260B
1,3-Dichlorobenzene	102	(85 - 115)	SW846 8260B
1,4-Dichlorobenzene	102	(84 - 112)	SW846 8260B
1,2-Dichlorobenzene	105	(85 - 116)	SW846 8260B
Bromobenzene	99	(85 - 112)	SW846 8260B
Bromochloromethane	107	(77 - 124)	SW846 8260B
n-Butylbenzene	101	(85 - 127)	SW846 8260B
sec-Butylbenzene	96	(85 - 116)	SW846 8260B
tert-Butylbenzene	77	(69 - 99)	SW846 8260B
Allyl chloride	91	(52 - 143)	SW846 8260B
2-Chlorotoluene	93	(85 - 118)	SW846 8260B
4-Chlorotoluene	95	(85 - 119)	SW846 8260B
Cyclohexanone	125	(10 - 150)	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	118	(76 - 150)	SW846 8260B
1,2-Dibromoethane (EDB)	109	(80 - 133)	SW846 8260B
trans-1,4-Dichloro-2-butene	102	(70 - 127)	SW846 8260B
Dichlorodifluoromethane (Freon 12)	51	(10 - 150)	SW846 8260B
1,3-Dichloropropane	112	(77 - 124)	SW846 8260B
2,2-Dichloropropane	104	(71 - 121)	SW846 8260B
1,1-Dichloropropene	104	(83 - 119)	SW846 8260B
Ethyl methacrylate	119 a	(72 - 118)	SW846 8260B
Freon 113	92	(61 - 149)	SW846 8260B
Hexachlorobutadiene	96	(82 - 124)	SW846 8260B
n-Hexane	84	(50 - 134)	SW846 8260B
Isopropylbenzene	120	(85 - 136)	SW846 8260B
4-Isopropyltoluene	101	(85 - 124)	SW846 8260B
Methyl methacrylate	127 a	(70 - 126)	SW846 8260B
Methyl tert-butyl ether (MTBE)	114	(47 - 134)	SW846 8260B
Naphthalene	107	(64 - 149)	SW846 8260B
n-Propylbenzene	98	(86 - 119)	SW846 8260B
1,1,1,2-Tetrachloroethane	105	(85 - 117)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F4H110275 **Work Order #...:** GNNXE1AC **Matrix.....:** SOLID
LCS Lot-Sample#: F4H230000-094

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Tetrahydrofuran	**110**	**(55 - 149)**	**SW846 8260B**
1,2,3-Trichlorobenzene	**103**	**(76 - 133)**	**SW846 8260B**
1,2,4-Trichloro-benzene	**105**	**(84 - 135)**	**SW846 8260B**
Trichlorofluoromethane	**83**	**(37 - 150)**	**SW846 8260B**
1,3,5-Trimethylbenzene	**96**	**(85 - 118)**	**SW846 8260B**
Ethyl ether	**101**	**(53 - 150)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	107	(88 - 115)
Dibromofluoromethane	106	(84 - 120)
1,2-Dichloroethane-d4	114	(78 - 122)
4-Bromofluorobenzene	107	(80 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F4H110275 Work Order #...: GNVAE1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: F4H250000-082 GNVAE1AD-LCSD
Prep Date.....: 08/24/04 Analysis Date..: 08/24/04
Prep Batch #...: 4238082 Analysis Time..: 12:04
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
cis-1,3-Dichloropropene	97	(81 - 126)			SW846 8260B
	107	(81 - 126)	10	(0-20)	SW846 8260B
Dibromochloromethane	92	(78 - 133)			SW846 8260B
	97	(78 - 133)	5.5	(0-20)	SW846 8260B
Chloromethane	111	(10 - 150)			SW846 8260B
	96	(10 - 150)	14	(0-20)	SW846 8260B
Vinyl chloride	123	(12 - 150)			SW846 8260B
	100	(12 - 150)	20	(0-20)	SW846 8260B
Bromomethane	88	(27 - 128)			SW846 8260B
	71 p	(27 - 128)	21	(0-20)	SW846 8260B
Chloroethane	127	(42 - 142)			SW846 8260B
	103 p	(42 - 142)	21	(0-20)	SW846 8260B
Acetone	113	(23 - 150)			SW846 8260B
	105	(23 - 150)	7.4	(0-20)	SW846 8260B
1,1-Dichloroethene	124	(65 - 129)			SW846 8260B
	99 p	(65 - 129)	22	(0-20)	SW846 8260B
Methylene chloride	134 a	(42 - 119)			SW846 8260B
	157 a	(42 - 119)	16	(0-20)	SW846 8260B
Carbon disulfide	135	(50 - 150)			SW846 8260B
	111	(50 - 150)	20	(0-20)	SW846 8260B
1,1-Dichloroethane	101	(80 - 117)			SW846 8260B
	105	(80 - 117)	4.3	(0-20)	SW846 8260B
2-Butanone (MEK)	99	(48 - 145)			SW846 8260B
	120	(48 - 145)	19	(0-20)	SW846 8260B
1,2-Dichloroethene (total)	111	(84 - 121)			SW846 8260B
	105	(84 - 121)	5.4	(0-20)	SW846 8260B
Chloroform	97	(82 - 117)			SW846 8260B
	107	(82 - 117)	9.9	(0-20)	SW846 8260B
1,1,1-Trichloroethane	95	(75 - 123)			SW846 8260B
	102	(75 - 123)	7.2	(0-20)	SW846 8260B
Carbon tetrachloride	95	(72 - 128)			SW846 8260B
	103	(72 - 128)	8.1	(0-20)	SW846 8260B
1,2-Dichloroethane	100	(72 - 121)			SW846 8260B
	108	(72 - 121)	7.7	(0-20)	SW846 8260B
Benzene	90	(81 - 111)			SW846 8260B
	97	(81 - 111)	7.2	(0-20)	SW846 8260B
Trichloroethene	88	(80 - 115)			SW846 8260B
	88	(80 - 115)	0.25	(0-20)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F4H110275 **Work Order #...:** GNVAE1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: F4H250000-082 GNVAE1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dichloropropane	95	(81 - 120)			SW846 8260B
	103	(81 - 120)	8.4	(0-20)	SW846 8260B
Bromodichloromethane	98	(79 - 120)			SW846 8260B
	106	(79 - 120)	7.6	(0-20)	SW846 8260B
1,1,2-Trichloroethane	90	(78 - 119)			SW846 8260B
	99	(78 - 119)	9.2	(0-20)	SW846 8260B
trans-1,3-Dichloropropene	104	(81 - 139)			SW846 8260B
	123	(81 - 139)	17	(0-20)	SW846 8260B
Toluene	87	(80 - 115)			SW846 8260B
	98	(80 - 115)	12	(0-20)	SW846 8260B
m-Xylene & p-Xylene	93	(82 - 120)			SW846 8260B
	102	(82 - 120)	9.4	(0-20)	SW846 8260B
o-Xylene	93	(83 - 123)			SW846 8260B
	106	(83 - 123)	13	(0-20)	SW846 8260B
2-Hexanone	94	(52 - 140)			SW846 8260B
	101	(52 - 140)	6.7	(0-20)	SW846 8260B
4-Methyl-2-pentanone	102	(32 - 112)			SW846 8260B
	101	(32 - 112)	0.59	(0-20)	SW846 8260B
Chlorobenzene	92	(88 - 115)			SW846 8260B
	108	(88 - 115)	16	(0-20)	SW846 8260B
Bromoform	94	(66 - 150)			SW846 8260B
	102	(66 - 150)	7.8	(0-20)	SW846 8260B
Ethylbenzene	89	(84 - 119)			SW846 8260B
	104	(84 - 119)	15	(0-20)	SW846 8260B
Styrene	95	(81 - 129)			SW846 8260B
	109	(81 - 129)	13	(0-20)	SW846 8260B
1,1,2,2-Tetrachloroethane	94	(63 - 145)			SW846 8260B
	104	(63 - 145)	9.9	(0-20)	SW846 8260B
Tetrachloroethene	82	(64 - 120)			SW846 8260B
	91	(64 - 120)	10	(0-20)	SW846 8260B
cis-1,2-Dichloroethene	94	(84 - 113)			SW846 8260B
	106	(84 - 113)	12	(0-20)	SW846 8260B
trans-1,2-Dichloroethene	128	(68 - 130)			SW846 8260B
	105	(68 - 130)	20	(0-20)	SW846 8260B
1,3-Dichlorobenzene	94	(85 - 115)			SW846 8260B
	103	(85 - 115)	8.3	(0-20)	SW846 8260B
1,4-Dichlorobenzene	93	(84 - 112)			SW846 8260B
	102	(84 - 112)	9.8	(0-20)	SW846 8260B
1,2-Dichlorobenzene	92	(85 - 116)			SW846 8260B
	104	(85 - 116)	12	(0-20)	SW846 8260B
Bromobenzene	94	(85 - 112)			SW846 8260B
	97	(85 - 112)	2.5	(0-20)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F4H110275 **Work Order #...:** GNVAE1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: F4H250000-082 GNVAE1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Bromochloromethane	94	(77 - 124)			SW846 8260B
	103	(77 - 124)	9.0	(0-20)	SW846 8260B
n-Butylbenzene	97	(85 - 127)			SW846 8260B
	107	(85 - 127)	10	(0-20)	SW846 8260B
sec-Butylbenzene	91	(85 - 116)			SW846 8260B
	99	(85 - 116)	9.1	(0-20)	SW846 8260B
tert-Butylbenzene	76	(69 - 99)			SW846 8260B
	80	(69 - 99)	5.9	(0-20)	SW846 8260B
Allyl chloride	122	(52 - 143)			SW846 8260B
	105	(52 - 143)	15	(0-20)	SW846 8260B
2-Chlorotoluene	96	(85 - 118)			SW846 8260B
	96	(85 - 118)	0.56	(0-20)	SW846 8260B
4-Chlorotoluene	88	(85 - 119)			SW846 8260B
	88	(85 - 119)	0.57	(0-20)	SW846 8260B
Cyclohexanone	94	(10 - 150)			SW846 8260B
	66 p	(10 - 150)	35	(0-20)	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	101	(76 - 150)			SW846 8260B
	99	(76 - 150)	1.8	(0-20)	SW846 8260B
1,2-Dibromoethane (EDB)	92	(80 - 133)			SW846 8260B
	97	(80 - 133)	5.4	(0-20)	SW846 8260B
trans-1,4-Dichloro-2-butene	95	(70 - 127)			SW846 8260B
	99	(70 - 127)	3.4	(0-20)	SW846 8260B
Dichlorodifluoromethane (Freon 12)	119	(10 - 150)			SW846 8260B
	96 p	(10 - 150)	21	(0-20)	SW846 8260B
1,3-Dichloropropane	90	(77 - 124)			SW846 8260B
	101	(77 - 124)	12	(0-20)	SW846 8260B
2,2-Dichloropropane	94	(71 - 121)			SW846 8260B
	105	(71 - 121)	11	(0-20)	SW846 8260B
1,1-Dichloropropene	98	(83 - 119)			SW846 8260B
	107	(83 - 119)	8.9	(0-20)	SW846 8260B
Ethyl methacrylate	94	(72 - 118)			SW846 8260B
	104	(72 - 118)	9.8	(0-20)	SW846 8260B
Freon 113	126	(61 - 149)			SW846 8260B
	102 p	(61 - 149)	21	(0-20)	SW846 8260B
Hexachlorobutadiene	84	(82 - 124)			SW846 8260B
	90	(82 - 124)	6.4	(0-20)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F4H110275 **Work Order #...:** GNVAE1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: F4H250000-082 GNVAE1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
n-Hexane	114	(50 - 134)			SW846 8260B
	94	(50 - 134)	19	(0-20)	SW846 8260B
Isopropylbenzene	105	(85 - 136)			SW846 8260B
	122	(85 - 136)	15	(0-20)	SW846 8260B
4-Isopropyltoluene	98	(85 - 124)			SW846 8260B
	103	(85 - 124)	5.7	(0-20)	SW846 8260B
Methyl methacrylate	105	(70 - 126)			SW846 8260B
	108	(70 - 126)	3.3	(0-20)	SW846 8260B
Methyl tert-butyl ether (MTBE)	128	(47 - 134)			SW846 8260B
	107	(47 - 134)	18	(0-20)	SW846 8260B
Naphthalene	89	(64 - 149)			SW846 8260B
	96	(64 - 149)	7.8	(0-20)	SW846 8260B
n-Propylbenzene	95	(86 - 119)			SW846 8260B
	104	(86 - 119)	8.5	(0-20)	SW846 8260B
1,1,1,2-Tetrachloroethane	93	(85 - 117)			SW846 8260B
	99	(85 - 117)	6.8	(0-20)	SW846 8260B
Tetrahydrofuran	89	(55 - 149)			SW846 8260B
	85	(55 - 149)	4.3	(0-20)	SW846 8260B
1,2,3-Trichlorobenzene	92	(76 - 133)			SW846 8260B
	92	(76 - 133)	0.37	(0-20)	SW846 8260B
1,2,4-Trichloro-benzene	95	(84 - 135)			SW846 8260B
	99	(84 - 135)	4.1	(0-20)	SW846 8260B
Trichlorofluoromethane	125	(37 - 150)			SW846 8260B
	101 p	(37 - 150)	22	(0-20)	SW846 8260B
1,3,5-Trimethylbenzene	96	(85 - 118)			SW846 8260B
	102	(85 - 118)	6.5	(0-20)	SW846 8260B
Ethyl ether	136	(53 - 150)			SW846 8260B
	110 p	(53 - 150)	21	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	102	(88 - 115)
	106	(88 - 115)
Dibromofluoromethane	112	(84 - 120)
	107	(84 - 120)
1,2-Dichloroethane-d4	121	(78 - 122)
	112	(78 - 122)
4-Bromofluorobenzene	116	(80 - 120)
	119	(80 - 120)

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F4H110275 **Work Order #...:** GNVAE1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: F4H250000-082 GNVAE1AD-LCSD

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F4H110275 Work Order #...: GN3T41AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: F4H270000-243 GN3T41AD-LCSD
Prep Date.....: 08/26/04 Analysis Date..: 08/26/04
Prep Batch #...: 4240243 Analysis Time..: 22:59
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Tetrachloroethene	90	(66 - 114)			SW846 8260B
	88	(66 - 114)	1.7	(0-20)	SW846 8260B
cis-1,3-Dichloropropene	103	(81 - 126)			SW846 8260B
	103	(81 - 126)	0.66	(0-20)	SW846 8260B
Dibromochloromethane	113	(76 - 132)			SW846 8260B
	114	(76 - 132)	0.77	(0-20)	SW846 8260B
Chloromethane	77	(10 - 145)			SW846 8260B
	74	(10 - 145)	4.0	(0-20)	SW846 8260B
Vinyl chloride	88	(10 - 137)			SW846 8260B
	89	(10 - 137)	0.95	(0-20)	SW846 8260B
Bromomethane	56	(10 - 119)			SW846 8260B
	58	(10 - 119)	4.8	(0-20)	SW846 8260B
Chloroethane	96	(24 - 130)			SW846 8260B
	100	(24 - 130)	3.9	(0-20)	SW846 8260B
Acetone	114	(10 - 150)			SW846 8260B
	115	(10 - 150)	0.62	(0-20)	SW846 8260B
1,1-Dichloroethene	100	(61 - 124)			SW846 8260B
	98	(61 - 124)	2.0	(0-20)	SW846 8260B
Methylene chloride	88	(46 - 124)			SW846 8260B
	92	(46 - 124)	3.5	(0-20)	SW846 8260B
Carbon disulfide	112	(46 - 146)			SW846 8260B
	108	(46 - 146)	2.9	(0-20)	SW846 8260B
1,1-Dichloroethane	99	(75 - 119)			SW846 8260B
	98	(75 - 119)	0.68	(0-20)	SW846 8260B
2-Butanone	108	(35 - 150)			SW846 8260B
	123	(35 - 150)	13	(0-20)	SW846 8260B
1,2-Dichloroethene (total)	101	(84 - 120)			SW846 8260B
	102	(84 - 120)	1.3	(0-20)	SW846 8260B
Chloroform	100	(77 - 121)			SW846 8260B
	100	(77 - 121)	0.19	(0-20)	SW846 8260B
1,1,1-Trichloroethane	104	(72 - 122)			SW846 8260B
	103	(72 - 122)	0.38	(0-20)	SW846 8260B
Carbon tetrachloride	109	(70 - 124)			SW846 8260B
	110	(70 - 124)	0.87	(0-20)	SW846 8260B
1,2-Dichloroethane	103	(66 - 125)			SW846 8260B
	104	(66 - 125)	0.54	(0-20)	SW846 8260B
Benzene	97	(79 - 111)			SW846 8260B
	97	(79 - 111)	0.24	(0-20)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F4H110275 **Work Order #...:** GN3T41AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: F4H270000-243 GN3T41AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Trichloroethene	97	(79 - 116)			SW846 8260B
	102	(79 - 116)	5.3	(0-20)	SW846 8260B
1,2-Dichloropropane	99	(77 - 122)			SW846 8260B
	97	(77 - 122)	2.3	(0-20)	SW846 8260B
Bromochloromethane	103	(78 - 122)			SW846 8260B
	103	(78 - 122)	0.34	(0-20)	SW846 8260B
1,1,2-Trichloroethane	104	(72 - 124)			SW846 8260B
	105	(72 - 124)	0.61	(0-20)	SW846 8260B
trans-1,3-Dichloropropene	112	(75 - 143)			SW846 8260B
	113	(75 - 143)	1.3	(0-20)	SW846 8260B
Toluene	102	(76 - 116)			SW846 8260B
	102	(76 - 116)	0.43	(0-20)	SW846 8260B
m-Xylene & p-Xylene	102	(82 - 117)			SW846 8260B
	102	(82 - 117)	0.53	(0-20)	SW846 8260B
o-Xylene	102	(81 - 122)			SW846 8260B
	106	(81 - 122)	3.4	(0-20)	SW846 8260B
1,3-Dichlorobenzene	103	(85 - 117)			SW846 8260B
	104	(85 - 117)	0.92	(0-20)	SW846 8260B
1,4-Dichlorobenzene	100	(83 - 112)			SW846 8260B
	100	(83 - 112)	0.32	(0-20)	SW846 8260B
1,2-Dichlorobenzene	105	(85 - 118)			SW846 8260B
	109	(85 - 118)	4.1	(0-20)	SW846 8260B
2-Hexanone	113	(42 - 141)			SW846 8260B
	108	(42 - 141)	4.1	(0-20)	SW846 8260B
4-Methyl-2-pentanone	94	(28 - 109)			SW846 8260B
	101	(28 - 109)	7.6	(0-20)	SW846 8260B
Chlorobenzene	102	(84 - 117)			SW846 8260B
	100	(84 - 117)	1.9	(0-20)	SW846 8260B
Ethylbenzene	100	(81 - 117)			SW846 8260B
	96	(81 - 117)	4.1	(0-20)	SW846 8260B
Xylenes (total)	102	(81 - 119)			SW846 8260B
	103	(81 - 119)	1.5	(0-20)	SW846 8260B
Styrene	103	(83 - 124)			SW846 8260B
	103	(83 - 124)	0.11	(0-20)	SW846 8260B
Bromoform	108	(71 - 142)			SW846 8260B
	107	(71 - 142)	1.4	(0-20)	SW846 8260B
1,1,2,2-Tetrachloroethane	104	(67 - 132)			SW846 8260B
	104	(67 - 132)	0.50	(0-20)	SW846 8260B
Bromodichloromethane	104	(75 - 121)			SW846 8260B
	104	(75 - 121)	0.19	(0-20)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: F4H110275 **Work Order #...:** GN3T41AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: F4H270000-243 GN3T41AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	102	(78 - 121)
	98	(78 - 121)
Dibromofluoromethane	103	(78 - 124)
	103	(78 - 124)
1,2-Dichloroethane-d4	98	(70 - 126)
	98	(70 - 126)
4-Bromofluorobenzene	97	(71 - 128)
	97	(71 - 128)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LOT # F4H110275

STL ST. LOUIS

SEVERN TRENT STL

CHAIN OF CUSTODY RECORD

QUOTE #

SEVERN TRENT LABORATORIES, INC.

Customer Information		Project Information		Analysis/Methods			
PO:		Project Name:	Brewing	A	VOC's / 8260	K	
WO:		Project Number:	472	B		L	
Company:	The Forrester Group	Bill To:	The forrester Group	C		M	
Report to:	Bob Kick	Invoice ATTN:	Bob Kick	D		N	
Address:	605 North Boonville Ave	Address:		E		O	
	Springfield, MO 65806		same	F		P	
				G		Q	
E-mail:	bob@forrestergroup.com			H		R	
Phone:	417-864-6444	Phone:	same	I		Other:	
Fax:	417-864-6445	Fax:	same	J			

No.	Sample Description	Preservation	Date	Time	Type	Matrix	# Containers	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
1	SSB-A-16	Multiple	8-10-04	1437	Grab	Soil	4	X															3 x VOA 60G
2	SSB-B-16	Multiple		1441	Grab	Soil	4	X															
3	SSB-C-16	Multiple		1452	Grab	Soil	4	X															
4	SSB-A-17	Multiple		1305	Grab	Soil	4	X															
5	SSB-A-18	Multiple		1224	Grab	Soil	4	X															
6	SSB-B-18	Multiple		1234	Grab	Soil	4	X															
7	SSB-C-18	Multiple		1249	Grab	Soil	4	X															
8	Dup-1	Multiple		—	Grab	Soil	4	X															
9	SSB-A-19	Multiple		1158	Grab	Soil	4	X															
10	SSB-B-19	Multiple	8-10-04	1207	Grab	Soil	4	X															

Sampler: Josh Smith | Shipment Method: FedX | Date Due (fax):

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
Josh Smith	8-10-04	Matt Wan					
Company: TFG	Time: 1750	Company: STL-STL 8/11/04	Time:	Company:	Time:	Company:	Time:

Comments: COC Sealed in Cooler

Standard turn

Rush turn

Other

LOT # F4H110275

STL ST. LOUIS

SEVERN TRENT STL

CHAIN OF CUSTODY RECORD

QUOTE # 43377

SEVERN TRENT LABORATORIES, INC.

Customer Information		Project Information		Analysis/Methods			
PO:		Project Name:	Brentas	A	VOC's / 8260	K	
WO:		Project Number:	477	B		L	
Company:	The Forrester Group	Bill To:	The Forrester Group	C		M	
Report to:	Bob Kick	Invoice ATTN:	Bob Kick	D		N	
Address:	685 N. Boonville Ave	Address:		E		O	
	Springfield, MO 65806			F		P	
			Same	G		Q	
E-mail:	bob@forrestergroup.com			H		R	
Phone:	417-864-6449	Phone:		I		Other:	
Fax:	417-864-6495	Fax:		J			

No.	Sample Description	Preservation	Date	Time	Type	Matrix	# Containers	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
1	SSB-A-20 ✓	Multiple	8-10-04	1514	Grab	Soil	4	X															3x40ml VOC
2	SSB-B-20 ✓	Multiple	8-10-04	1519	Grab	Soil	4	X															↓
3	SSB-A-21 ✓	Multiple	8-10-04	1531	Grab	Soil	4	X															MS/MSD 4x40 3x40
4	SSB-B-21 ✓	Multiple	8-10-04	1535	Grab	Soil	4	X															3x40 VOC
5	SSB-C-21 ✓	Multiple	8-10-04	1603	Grab	Soil	4	X															↓
6		Multiple			Grab	Soil	4	X															
7		Multiple			Grab	Soil	4	X															
8		Multiple			Grab	Soil	4	X															
9		Multiple			Grab	Soil	4	X															
10		Multiple			Grab	Soil	4	X															

Sampler: Josh Smith | Shipment Method: FedX | Date Due (fax):

1. Relinquished by:	Date:	2. Received by: Matt Wm	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
Company:	Time:	Company: STL-SL 8/11/04 0900	Time:	Company:	Time:	Company:	Time:

Comments: COC Sealed in Cooler

Standard turn

Rush turn

Other

SEVERN TRENT STL

Lot No: F4H110275

Condition Upon Receipt Form
St. Louis Laboratory

Client: Forrester Group
Quote No: 51614 56001
Shipper/No: 8472 4744 6809

Date: 8/11/04 Time: 0700
Initiated by: MCW
COC/RFA Numbers: N/A

Condition/Variance (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	Y N	Sample received in undamaged condition?	7.	Y N	Sample received with Chain of Custody?
2.	Y N	Sample received within 4C ± 2C* ?	8.	Y N	Chain of Custody matches sample IDs on containers?
		Record 4°C	9.	Y N N/A	Custody seal received intact on cooler.?
3.	Y N N/A	Sample received with proper pH [1]?	10.	Y N N/A	Custody seal tamper evident on cooler.?
4.	Y N	If N/A – Was pH taken by original STL lab?	11.	Y N N/A	Custody seal on bottles received intact?
5.	Y N	Sample received in proper containers?	12.	Y N N/A	Custody seal tamper evident on bottles?
6.	Y N	Sample volume sufficient for analysis?	13.	Y N	Was CUR (equivalent) rec' d from original STL lab?

* Temperature Variance Does Not Affect the Following Analyses:

[1]For DOE-AL (Pantex, LANL, Sandia) sites, verify pH all containers received, except for VOA, TOX, and soils.

Notes:

Corrective Action:

☐ Client's Name: Informed by: By:

☐ Sample(s) processed "as is".

☐ Sample(s) on hold until: If released, notify:

Project Management Review: MWard Date: 8.11.04

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED
IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIALS AND THE DATE NEXT TO THAT ITEM

ADMIN-0004, Revised 2/17/04
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THE FORRESTER GROUP
INSIGHTFUL ENVIRONMENTAL SOLUTIONS™

February 11, 2005

Ms. Donna Marie DeCarlo, L.G.
Environmental Geologist
Bureau of Environmental Remediation
Curtis State Office Building,
1000 SW Jackson St., Suite 410
Topeka, KS 66612-1367

PROJECT NO. 1477-0200 – BRENNTAG SOUTHWEST, INC., WICHITA, KANSAS

Dear Ms. DeCarlo, L.G.,

This letter addresses KDHE's comments regarding *Piezometers and Additional Soil Sampling Report, Brenntag Southwest, Inc., Wichita, Kansas* dated January 21, 2005. Our responses are presented below.

Comment 1. The measuring point for piezometers should be specified in the report text and/or applicable tables.

- A footnote has been added to Table 2 stating the measuring point elevations are the elevations at the North side of the well casing riser pipe. Revised Table 2 is included in Attachment A.

Comment 2. Logs for the piezometers should be provided to KDHE.

- Piezometer well logs are included in Attachment A.

Comment 3. Table 3 should use a Residential Scenario for the Soil to Groundwater Protection Pathway RSK values instead of the Non-Residential Scenario.

- Values in the table now reflect Residential Scenarios for the Soil Pathway and the Soil to Groundwater Protection Pathway. Revised Table 3 has been included in Attachment A.

Comment 4. There were no RSK values in Table 3 for cis- and trans- 1,3-Dichloropropene.

- Review of the KDHE Tier 2 Risk-Based Summary Table found in Appendix A of the Risk-Based Standards for Kansas (RSK- 3rd Version, March 1, 2003) shows values for total 1,3 Dichloropropene only, which has been noted in the table footnotes.

Please call me at (417) 864-6444, extension 121 if you should have any questions or comments.

Sincerely,

Robert M. Kick

Robert M. Kick, RPG, CHMM
Principal

Attachment

Copy to: Mr. Peter Ramaley, Brenntag, Inc.

ROBERT M. KICK
LICENSED
556
KANSAS
GEOLOGIST

Robert M. Kick

2-11-05

605 North Boonville Avenue
Springfield, Missouri 65806
p 417.864.6444 f 417.864.6445

5460 Ward Road, Suite 110
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www.forrestergroup.com

ATTACHMENT A
TABLES AND WELL LOGS

TABLE 2 GOUNDWATER LEVELS
TABLE 3 SOIL ANALYTICAL DATA (VOC'S AND PERCENT MOISTURE)
WELL COMPLETION LOGS

Table 2
Groundwater Levels
Brenntag Southwest Inc., Wichita, Kansas

Location	Date	X-Coord	Y-Coord	Measuring Point Elevation [1]	Depth to Water	Groundwater Elevation
PZ-1	8/11/2004	1651009.46	1694585.41	1304.88	11.07	1293.81
PZ-2	8/11/2004	1651099.15	1694595.91	1305.43	11.68	1293.75
PZ-3	8/11/2004	1651054.55	1694440.81	1305.72	12.17	1293.55
PZ-1	8/24/2004	1651009.46	1694585.41	1304.88	11.08	1293.80
PZ-2	8/24/2004	1651099.15	1694595.91	1305.43	11.67	1293.76
PZ-3	8/24/2004	1651054.55	1694440.81	1305.72	12.12	1293.60
PZ-1	9/7/2004	1651009.46	1694585.41	1304.88	11.29	1293.59
PZ-2	9/7/2004	1651099.15	1694595.91	1305.43	11.88	1293.55
PZ-3	9/7/2004	1651054.55	1694440.81	1305.72	12.33	1293.39

1. Measuring Point Elevations are from the North side of the well casing riser pipe.

Table 3
Soil Analytical Data Summary (VOC's and Percent Moisture)
August 10, 2004
Brenntag, Wichita, Kansas

			Location ID	SSB-16	SSB-16	SSB-16	SSB-17	SSB-18	SSB-18
			Sample Type Code	N	N	N	N	N	N
			Depth Interval	1.2 - 1.5	3.0 - 3.3	7.0 - 7.3	1.8 - 2.0	1.9 - 2.1	3.6 - 4.0
Chemical Name	**RSK[Note1]**	**RSK[Note2]**	**Unit**						
1,1,1-Trichloroethane	880000	5500	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U	< 6.1 U
1,1,2,2-Tetrachloroethane	7100	20	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U	< 6.1 U
1,1,2-Trichloroethane	13000	70	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U	< 6.1 U
1,1-Dichloroethane	660000	3700	ug/kg	0.29 J	< 6 U	0.39 J	20	< 6.1 U	< 6.1 U
1,1-Dichloroethene	900	120	ug/kg	< 6.1 U	< 6 U	< 5.8 U	1.9 J	< 6.1 U	< 6.1 U
1,2-Dichloroethane	4700	40	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U	< 6.1 U
1,2-Dichloroethene (total)	(Note 3)	(Note 3)	ug/kg	6.1 J	5.4 J	6.9 J	30	2 J	< 12 U
1,2-Dichloropropane	6000	60	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U	< 6.1 U
2-Butanone (MEK)	6400000	3600	ug/kg	< 24 U	< 24 U	< 23 U	< 25 U	< 24 U	< 24 U
2-Hexanone	(Note 3)	(Note 3)	ug/kg	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U
4-Methyl-2-pentanone (MIBK)	1000000	410	ug/kg	< 24 U	< 24 U	< 23 U	< 25 U	< 24 U	< 24 U
Acetone	1700000	1100	ug/kg	29	6.3 J	7.3 J	33	21 J	7.4 J
Benzene	9800	80	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U	< 6.1 U
Bromodichloromethane	14000	1210	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U	< 6.1 U
Bromoform	1100000	1720	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U	< 6.1 U
Bromomethane (Methyl bromide)	4800	20	ug/kg	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U
Carbon disulfide	460000	140	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U	< 6.1 U
Carbon tetrachloride	2500	200	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U	< 6.1 U
Chlorobenzene	78000	4800	ug/kg	< 6.1 U	< 6 U	< 5.8 U	1.3 J	< 6.1 U	< 6.1 U
Chloroethane	(Note 3)	(Note 3)	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U	< 6.1 U
Chloroform	3900	960	ug/kg	0.33 J	0.34 J	0.58 J	< 6.2 U	< 6.1 U	< 6.1 U
Chloromethane (Methyl chloride)	86000	110	ug/kg	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U
cis-1,2-Dichloroethene	57000	800	ug/kg	6.1	5.4 J	6.9	30	1.7 J	< 6.1 U
cis-1,3-Dichloropropene	(Note 4)	(Note 4)	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U	< 6.1 U
trans-1,3-Dichloropropene	(Note 4)	(Note 4)	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U	< 6.1 U
Dibromochloromethane	100000	1330	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U	< 6.1 U
Ethylbenzene	650000	55000	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U	< 6.1 U
Methylene Chloride (Dichloromethane)	150000	30	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U	< 6.1 U
m-Xylene & p-Xylene	(Note 3)	(Note 3)	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U	< 6.1 U
o-Xylene	(Note 3)	(Note 3)	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U	< 6.1 U
Styrene	2400000	16000	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U	< 6.1 U
Tetrachloroethene (PCE)	79000	180	ug/kg	13	12	15	1300 E *	0.26 J	39
Toluene	930000	40000	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U	< 6.1 U
trans-1,2-Dichloroethene	94000	1500	ug/kg	< 6.1 U	< 6 U	< 5.8 U	0.44 J	< 6.1 U	< 6.1 U
Trichloroethene (TCE)	62000	200	ug/kg	4.6 J	2.9 J	2.7 J	24	2.8 J	0.99 J
Vinyl chloride	340	20	ug/kg	< 6.1 U	< 6 U	< 5.8 U	< 6.2 U	< 6.1 U	< 6.1 U
Xylenes (Total)	700000	700000	ug/kg	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U
Moisture, Percent	(Note 3)	(Note 3)	%	17.9	17.1	13.4	19.2	18.1	17.4

Note 1=RSK residential soil pathway.
Note 2=RSK residential soil to groundwater protection pathway.
Note 3=RSK values are unavailable.
Note 4=RSK values are unavailable. RSK values for 1,3-dichloropropene are 1600 ug/kg and 10 ug/kg for the residential soil pathway and the residential soil to groundwater protection pathway respectively.

< # U=undetected at given value
J=estimated
E=Exceeds calibration range of GC/MS instrument
B=Found in method blank

*=exceeds action level

Table 3
Soil Analytical Data Summary (VOC's and Percent Moisture)
August 10, 2004
Brenntag, Wichita, Kansas

			Location ID	SSB-16	SSB-16	SSB-18	SSB-18	SSB-19	SSB-19
			Sample Type Code	N	N	N	FD	N	N
			Depth Interval	1.2 - 1.5	3.0 - 3.3	5.8 - 6.3	5.8 - 6.3	0.9 - 1.0	6.3 - 6.7
Chemical Name	**RSK[Note1]**	**RSK[Note2]**	**Unit**						
1,1,1-Trichloroethane	880000	5500	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
1,1,2,2-Tetrachloroethane	7100	20	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
1,1,2-Trichloroethane	13000	70	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
1,1-Dichloroethane	660000	3700	ug/kg	0.29 J	< 6 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
1,1-Dichloroethene	900	120	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
1,2-Dichloroethane	4700	40	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
1,2-Dichloroethene (total)	(Note 3)	(Note 3)	ug/kg	6.1 J	5.4 J	3.4 J	< 12 U	< 12 U	< 12 U
1,2-Dichloropropane	6000	60	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
2-Butanone (MEK)	6400000	3600	ug/kg	< 24 U	< 24 U	< 24 U	< 24 U	< 23 U	< 24 U
2-Hexanone	(Note 3)	(Note 3)	ug/kg	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U
4-Methyl-2-pentanone (MIBK)	1000000	410	ug/kg	< 24 U	< 24 U	< 24 U	< 24 U	< 23 U	< 24 U
Acetone	1700000	1100	ug/kg	29	6.3 J	17 J	9.2 J	11 J	10 J B
Benzene	9800	80	ug/kg	< 6.1 U	< 6 U	< 5.9 U	0.34 J	< 5.8 U	< 6 U
Bromodichloromethane	14000	1210	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
Bromoform	1100000	1720	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
Bromomethane (Methyl bromide)	4800	20	ug/kg	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U
Carbon disulfide	460000	140	ug/kg	< 6.1 U	< 6 U	2.5 J	< 5.9 U	1.2 J	< 6 U
Carbon tetrachloride	2500	200	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
Chlorobenzene	78000	4800	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
Chloroethane	(Note 3)	(Note 3)	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
Chloroform	3900	960	ug/kg	0.33 J	0.34 J	< 5.9 U	0.14 J	< 5.8 U	< 6 U
Chloromethane (Methyl chloride)	86000	110	ug/kg	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U
cis-1,2-Dichloroethene	57000	800	ug/kg	6.1	5.4 J	2.9 J	0.4 J	< 5.8 U	0.67 J
cis-1,3-Dichloropropene	(Note 4)	(Note 4)	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
trans-1,3-Dichloropropene	(Note 4)	(Note 4)	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
Dibromochloromethane	100000	1330	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
Ethylbenzene	650000	55000	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
Methylene Chloride (Dichloromethane)	150000	30	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
m-Xylene & p-Xylene	(Note 3)	(Note 3)	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
o-Xylene	(Note 3)	(Note 3)	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
Styrene	2400000	16000	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
Tetrachloroethene (PCE)	79000	180	ug/kg	13	12	7.8	100	< 5.8 U	65
Toluene	930000	40000	ug/kg	< 6.1 U	< 6 U	< 5.9 U	0.78 J	< 5.8 U	< 6 U
trans-1,2-Dichloroethene	94000	1500	ug/kg	< 6.1 U	< 6 U	0.47 J	< 5.9 U	< 5.8 U	< 6 U
Trichloroethene (TCE)	62000	200	ug/kg	4.6 J	2.9 J	8	3 J	< 5.8 U	2.6 J
Vinyl chloride	340	20	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 5.9 U	< 5.8 U	< 6 U
Xylenes (Total)	700000	700000	ug/kg	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U
Moisture, Percent	(Note 3)	(Note 3)	%	17.9	17.1	15.9	15.1	13.5	17.2

Note 1=RSK residential soil pathway.
Note 2=RSK residential soil to groundwater protection pathway.
Note 3=RSK values are unavailable.
Note 4=RSK values are unavailable. RSK values for 1,3-dichloropropene are 1600 ug/kg and 10 ug/kg for the residential soil pathway and the residential soil to groundwater protection pathway respectively.

< # U=undetected at given value
J=estimated
E=Exceeds calibration range of GC/MS instrument
B=Found in method blank

*=exceeds action level

Table 3
Soil Analytical Data Summary (VOC's and Percent Moisture)
August 10, 2004
Brenntag, Wichita, Kansas

			Location ID	SSB-16	SSB-16	SSB-20	SSB-20	SSB-21	SSB-21
			Sample Type Code	N	N	N	N	N	N
			Depth Interval	1.2 - 1.5	3.0 - 3.3	1.3 - 1.7	3.0 - 3.4	1.0 - 1.9	3.1 - 3.6
Chemical Name	**RSK[Note1]**	**RSK[Note2]**	**Unit**						
1,1,1-Trichloroethane	880000	5500	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U
1,1,2,2-Tetrachloroethane	7100	20	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U
1,1,2-Trichloroethane	13000	70	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U
1,1-Dichloroethane	660000	3700	ug/kg	0.29 J	< 6 U	< 5.9 U	< 6.2 U	0.63 J	1.2 J
1,1-Dichloroethene	900	120	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U
1,2-Dichloroethane	4700	40	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U
1,2-Dichloroethene (total)	(Note 3)	(Note 3)	ug/kg	6.1 J	5.4 J	< 12 U	< 12 U	1.2 J	1.7 J
1,2-Dichloropropane	6000	60	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U
2-Butanone (MEK)	6400000	3600	ug/kg	< 24 U	< 24 U	< 23 U	15 J	< 24 U	< 24 U
2-Hexanone	(Note 3)	(Note 3)	ug/kg	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U
4-Methyl-2-pentanone (MIBK)	1000000	410	ug/kg	< 24 U	< 24 U	< 23 U	< 25 U	< 24 U	< 24 U
Acetone	1700000	1100	ug/kg	29	6.3 J	16 J B	76 B	8 J	12 J B
Benzene	9800	80	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U
Bromodichloromethane	14000	1210	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U
Bromoform	1100000	1720	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U
Bromomethane (Methyl bromide)	4800	20	ug/kg	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U
Carbon disulfide	460000	140	ug/kg	< 6.1 U	< 6 U	1 J	0.46 J	< 6.1 U	2.4 J
Carbon tetrachloride	2500	200	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U
Chlorobenzene	78000	4800	ug/kg	< 6.1 U	< 6 U	0.47 J	0.21 J	0.54 J	0.44 J
Chloroethane	(Note 3)	(Note 3)	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U
Chloroform	3900	960	ug/kg	0.33 J	0.34 J	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U
Chloromethane (Methyl chloride)	86000	110	ug/kg	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U
cis-1,2-Dichloroethene	57000	800	ug/kg	6.1	5.4 J	< 5.9 U	< 6.2 U	1.2 J	1.7 J
cis-1,3-Dichloropropene	(Note 4)	(Note 4)	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U
trans-1,3-Dichloropropene	(Note 4)	(Note 4)	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U
Dibromochloromethane	100000	1330	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U
Ethylbenzene	650000	55000	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U
Methylene Chloride (Dichloromethane)	150000	30	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 6.2 U	< 6.1 U	5.9 J B
m-Xylene & p-Xylene	(Note 3)	(Note 3)	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U
o-Xylene	(Note 3)	(Note 3)	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U
Styrene	2400000	16000	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U
Tetrachloroethene (PCE)	79000	180	ug/kg	13	12	< 5.9 U	0.62 J	4.7 J	48
Toluene	930000	40000	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U
trans-1,2-Dichloroethene	94000	1500	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U
Trichloroethene (TCE)	62000	200	ug/kg	4.6 J	2.9 J	< 5.9 U	< 6.2 U	3.1 J	5.5 J
Vinyl chloride	340	20	ug/kg	< 6.1 U	< 6 U	< 5.9 U	< 6.2 U	< 6.1 U	< 6.1 U
Xylenes (Total)	700000	700000	ug/kg	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U	< 12 U
Moisture, Percent	(Note 3)	(Note 3)	%	17.9	17.1	14.7	19.8	17.8	18.3

Note 1=RSK residential soil pathway.
Note 2=RSK residential soil to groundwater protection pathway.
Note 3=RSK values are unavailable.
Note 4=RSK values are unavailable. RSK values for 1,3-dichloropropene are 1600 ug/kg and 10 ug/kg for the residential soil pathway and the residential soil to groundwater protection pathway respectively.

< # U=undetected at given value
J=estimated
E=Exceeds calibration range of GC/MS instrument
B=Found in method blank

*=exceeds action level

Table 3
Soil Analytical Data Summary (VOC's and Percent Moisture)
August 10, 2004
Brenntag, Wichita, Kansas

			Location ID	SSB-16	SSB-16	SSB-21
			Sample Type Code	N	N	N
			Depth Interval	1.2 - 1.5	3.0 - 3.3	6.0 - 6.4
Chemical Name	**RSK[Note1]**	**RSK[Note2]**	**Unit**			
1,1,1-Trichloroethane	880000	5500	ug/kg	< 6.1 U	< 6 U	< 5.8 U
1,1,2,2-Tetrachloroethane	7100	20	ug/kg	< 6.1 U	< 6 U	< 5.8 U
1,1,2-Trichloroethane	13000	70	ug/kg	< 6.1 U	< 6 U	< 5.8 U
1,1-Dichloroethane	660000	3700	ug/kg	0.29 J	< 6 U	0.67 J
1,1-Dichloroethene	900	120	ug/kg	< 6.1 U	< 6 U	< 5.8 U
1,2-Dichloroethane	4700	40	ug/kg	< 6.1 U	< 6 U	< 5.8 U
1,2-Dichloroethene (total)	(Note 3)	(Note 3)	ug/kg	6.1 J	5.4 J	1.5 J
1,2-Dichloropropane	6000	60	ug/kg	< 6.1 U	< 6 U	< 5.8 U
2-Butanone (MEK)	6400000	3600	ug/kg	< 24 U	< 24 U	< 23 U
2-Hexanone	(Note 3)	(Note 3)	ug/kg	< 12 U	< 12 U	< 12 U
4-Methyl-2-pentanone (MIBK)	1000000	410	ug/kg	< 24 U	< 24 U	< 23 U
Acetone	1700000	1100	ug/kg	29	6.3 J	8.3 J B
Benzene	9800	80	ug/kg	< 6.1 U	< 6 U	< 5.8 U
Bromodichloromethane	14000	1210	ug/kg	< 6.1 U	< 6 U	< 5.8 U
Bromoform	1100000	1720	ug/kg	< 6.1 U	< 6 U	< 5.8 U
Bromomethane (Methyl bromide)	4800	20	ug/kg	< 12 U	< 12 U	< 12 U
Carbon disulfide	460000	140	ug/kg	< 6.1 U	< 6 U	< 5.8 U
Carbon tetrachloride	2500	200	ug/kg	< 6.1 U	< 6 U	< 5.8 U
Chlorobenzene	78000	4800	ug/kg	< 6.1 U	< 6 U	0.31 J
Chloroethane	(Note 3)	(Note 3)	ug/kg	< 6.1 U	< 6 U	< 5.8 U
Chloroform	3900	960	ug/kg	0.33 J	0.34 J	< 5.8 U
Chloromethane (Methyl chloride)	86000	110	ug/kg	< 12 U	< 12 U	< 12 U
cis-1,2-Dichloroethene	57000	800	ug/kg	6.1	5.4 J	1.5 J
cis-1,3-Dichloropropene	(Note 4)	(Note 4)	ug/kg	< 6.1 U	< 6 U	< 5.8 U
trans-1,3-Dichloropropene	(Note 4)	(Note 4)	ug/kg	< 6.1 U	< 6 U	< 5.8 U
Dibromochloromethane	100000	1330	ug/kg	< 6.1 U	< 6 U	< 5.8 U
Ethylbenzene	650000	55000	ug/kg	< 6.1 U	< 6 U	< 5.8 U
Methylene Chloride (Dichloromethane)	150000	30	ug/kg	< 6.1 U	< 6 U	3.2 J B
m-Xylene & p-Xylene	(Note 3)	(Note 3)	ug/kg	< 6.1 U	< 6 U	< 5.8 U
o-Xylene	(Note 3)	(Note 3)	ug/kg	< 6.1 U	< 6 U	< 5.8 U
Styrene	2400000	16000	ug/kg	< 6.1 U	< 6 U	< 5.8 U
Tetrachloroethene (PCE)	79000	180	ug/kg	13	12	36
Toluene	930000	40000	ug/kg	< 6.1 U	< 6 U	< 5.8 U
trans-1,2-Dichloroethene	94000	1500	ug/kg	< 6.1 U	< 6 U	< 5.8 U
Trichloroethene (TCE)	62000	200	ug/kg	4.6 J	2.9 J	1.7 J
Vinyl chloride	340	20	ug/kg	< 6.1 U	< 6 U	< 5.8 U
Xylenes (Total)	700000	700000	ug/kg	< 12 U	< 12 U	< 12 U
Moisture, Percent	(Note 3)	(Note 3)	%	17.9	17.1	13.7

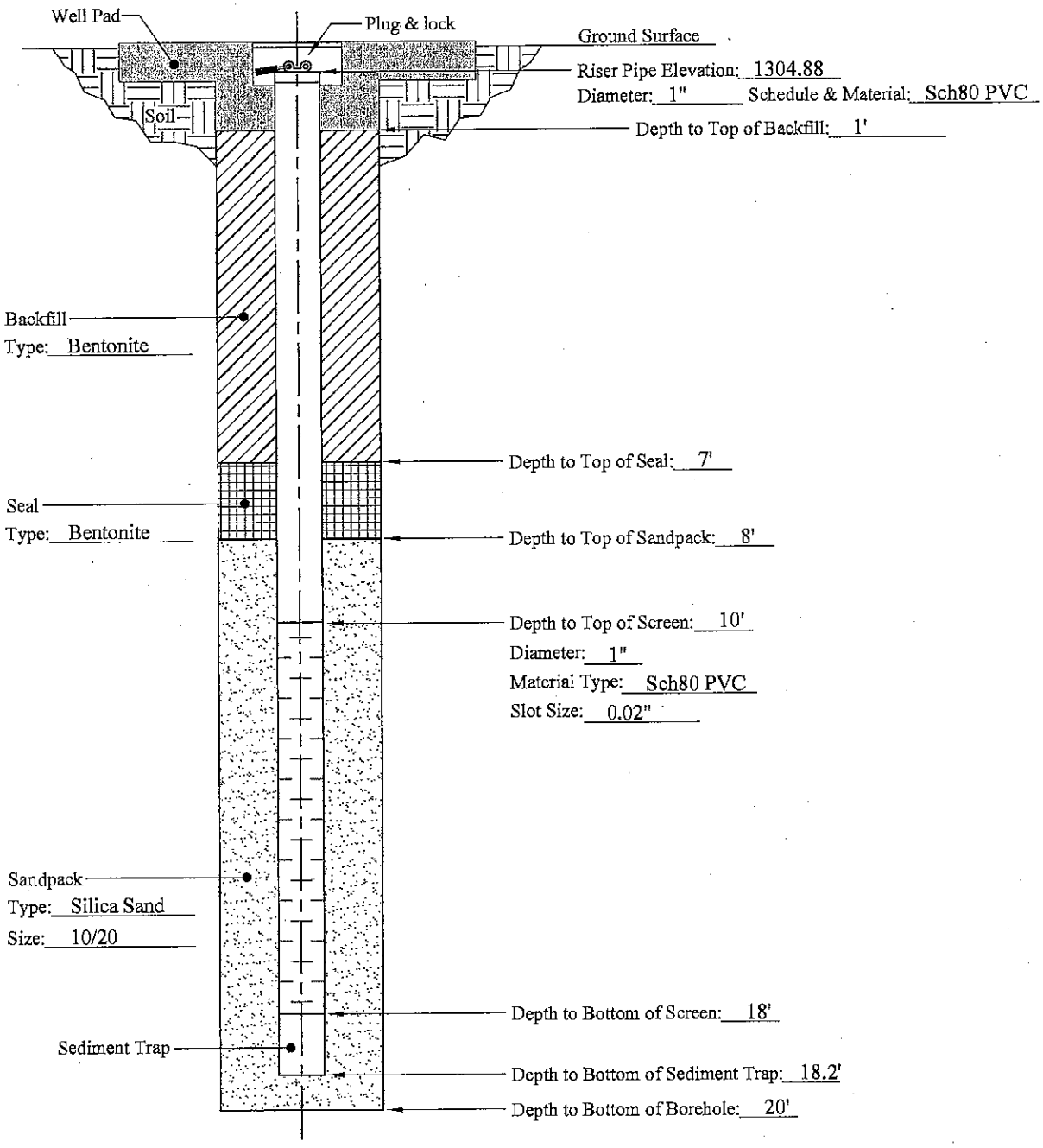
Note 1=RSK residential soil pathway.
Note 2=RSK residential soil to groundwater protection pathway.
Note 3=RSK values are unavailable.
Note 4=RSK values are unavailable. RSK values for 1,3-dichloropropene are 1600 ug/kg and 10 ug/kg for the residential soil pathway and the residential soil to groundwater protection pathway respectively.

< # U=undetected at given value
J=estimated
E=Exceeds calibration range of GC/MS instrument
B=Found in method blank

*=exceeds action level

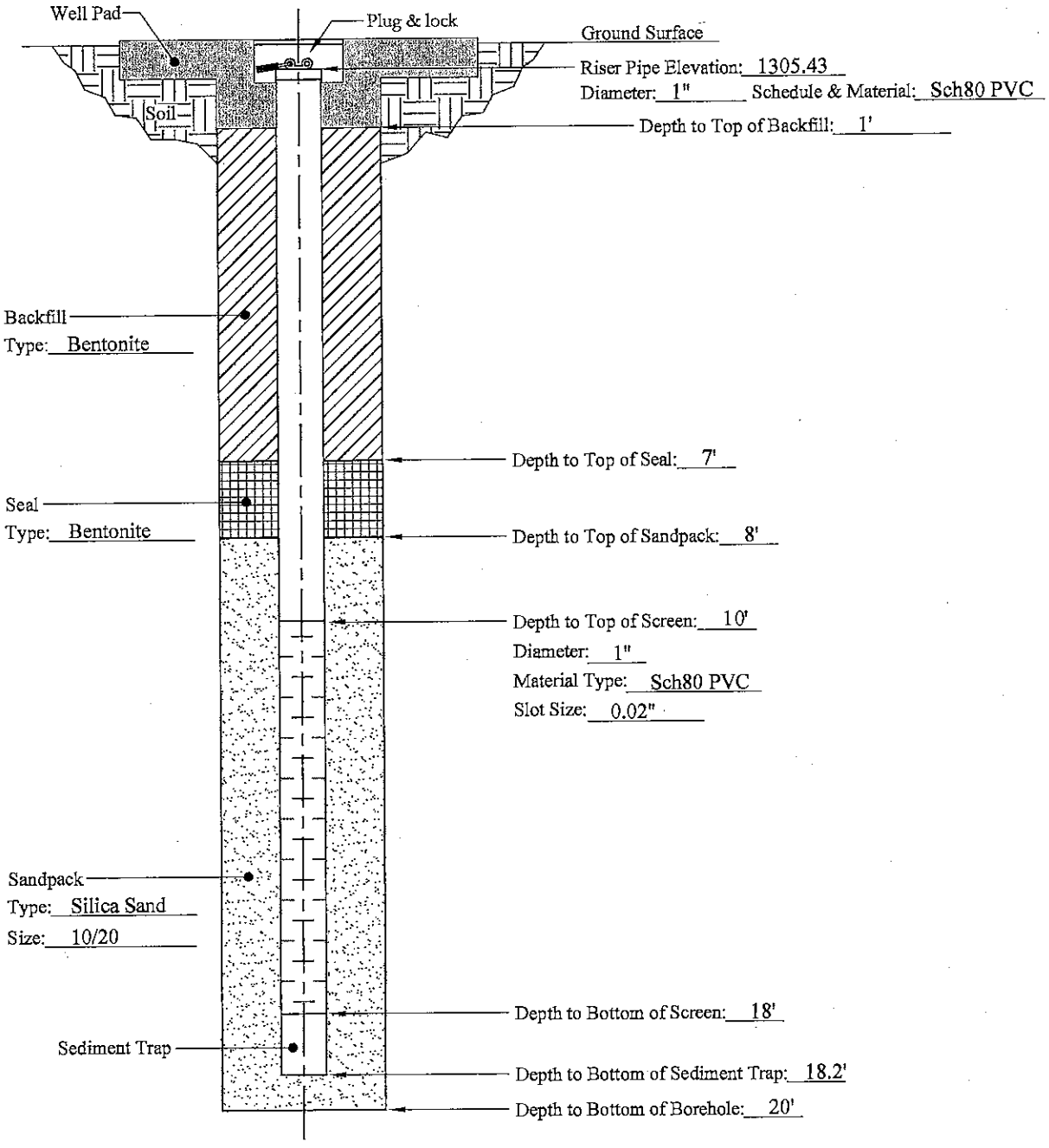
WELL COMPLETION LOG

FG Project Name: Brentag	Well ID: PZ-1	Page 1 of 1
FG Project Number: 14770000		
FG Personnel: Josh Smith	Date installed: August 10, 2004	
Drilling Company: Handex	Weather Conditions: 70's, light rain.	
Drilling Equipment: Model 5400 GeoProbe	Borehole Diameter: 3.5" 0-8' / 2.5" 8-20'	
	Memo:	



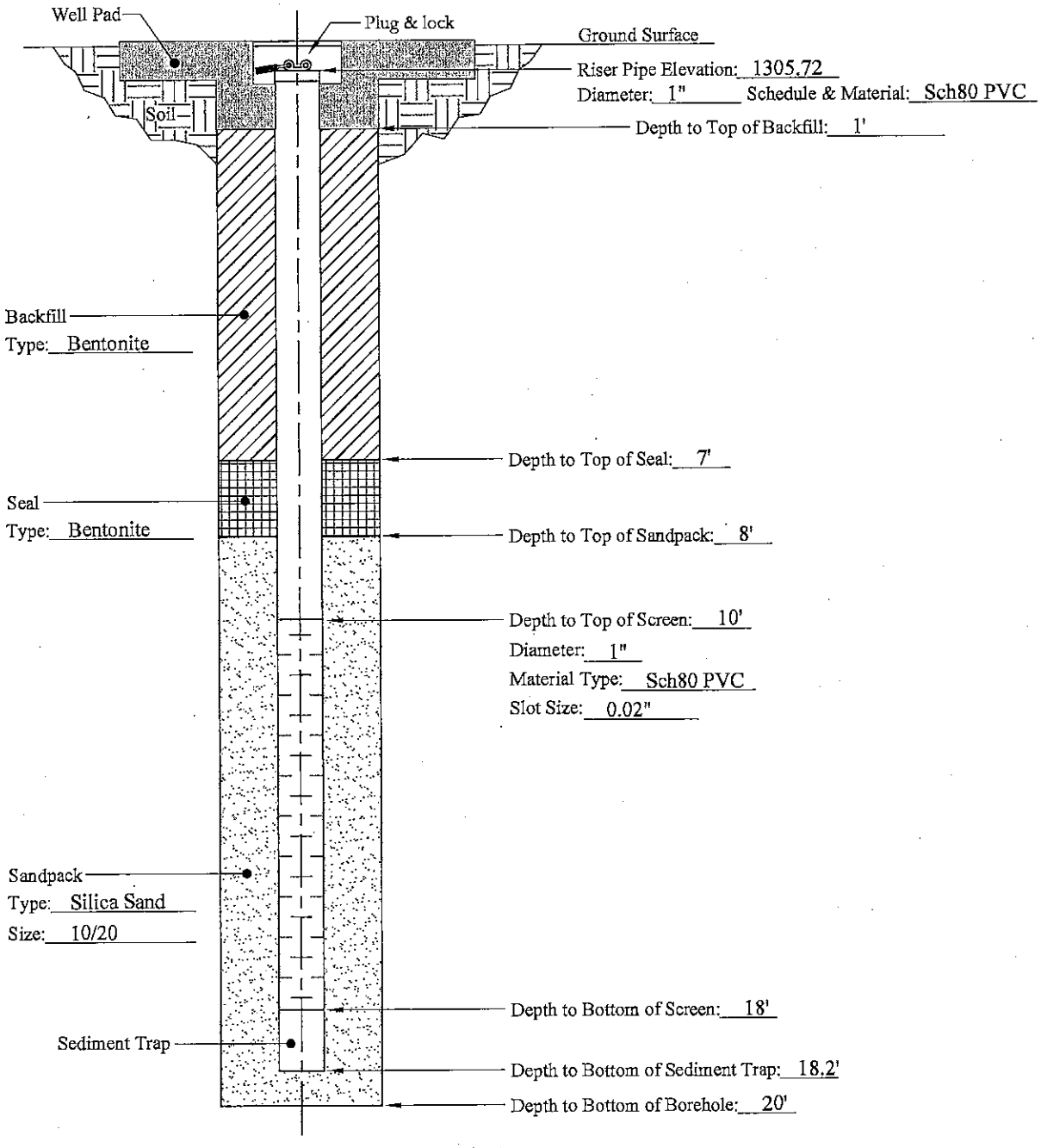
WELL COMPLETION LOG

FG Project Name: Brentag	Well ID: PZ-2	Page 1 of 1
FG Project Number: 14770000		
FG Personnel: Josh Smith	Date installed: August 10, 2004	
Drilling Company: Handex	Weather Conditions: 70's, light rain.	
Drilling Equipment: Model 5400 GeoProbe	Borehole Diameter: 3.5" 0-8' / 2.5" 8-20'	
	Memo:	



WELL COMPLETION LOG

FG Project Name: Brentag	Well ID: PZ-3	Page 1 of 1
FG Project Number: 14770000		
FG Personnel: Josh Smith	Date installed: August 10, 2004	
Drilling Company: Handex	Weather Conditions: 70's, cloudy.	
Drilling Equipment: Model 5400 GeoProbe	Borehole Diameter: 3.5" 0-8' / 2.5" 8-20'	
	Memo:	



Appendix D

Interim Remedial Measure for Soil Completion Report,

December 17, 2007

BRIAN D. SYMONS
LICENSED
13234
12/17/07
KANSAS
PROFESSIONAL ENGINEER

Date: December 17, 2007

To: Mr. Chris Carey

From: Brian Symons, P.E.

Subject: Interim Remedial Measure for Soil Completion Report – Brenntag Southwest

Copy to: Robert Kick, L.G., The Forrester Group Inc.
Brian Symons, P.E., The Forrester Group Inc.
Kris Gamble, The Forrester Group Inc.
Peter Ramaley, Brenntag Inc.

ATTACHMENTS:

1. **Figures**
2. **Tables**
3. **Field Notes**
4. **Photographic Log**
5. **Submittals**
6. **Analytical Data**

INTRODUCTION

The purpose of this Report is to provide remedial action details related to the Brenntag Southwest, Inc. (Brenntag) facility at 1520 North Barwise in Wichita, Kansas (Site). The excavation and off-site disposal of material is detailed in the Interim Remedial Measure for Soil Work Plan (IRMSWP) submitted to the Kansas Department of Health and the Environment (KDHE) on October 4, 2006 and approved on December 14, 2006.

Site Location

The City of Wichita, Kansas is located at the confluence of the Arkansas and Little Arkansas Rivers in central Sedgwick County. The Brenntag Site consists of 0.7-acre property located in the west-central part of Wichita (Attachment 1, Figures, Cover Sheet). The site is located in a mixed commercial/industrial area of Wichita. The land-based description of the Site is T27S, R1E, Sec 9, SW ¼, SE ¼, Sedgwick County, Kansas and the geographic coordinates for the site are approximately 37.7104 degrees north latitude and 97.3285 degrees west longitude (USGS, 1961).

Cargill operates a soy bean processing plant south and east of Brenntag. A rail spur on Cargill property is parallel to the east side of the Brenntag Site. To the north is a salvage yard. Barwise Street is located west of the Site and farther west is a vacant lot owned by Cargill.

BACKGROUND

The Site was acquired by Brenntag in July 2001 from HCI USA Distribution Company, who had previously purchased Advance Chemical Distribution, Inc. The Site has been used as a chemical storage and distribution facility and includes a single building with combined office, warehouse and loading dock

(Attachment 1, Figures, Sheet 1). The north yard is used for shipping and receiving of packaged and bulk chemicals. The south yard was used for storing containers of acids, caustic, bleach and other industrial chemicals. Chlorinated solvents are received in drums, which are stored on pallets for delivery to customers. Historically solvents were received in bulk and transferred to drums on the south side of the facility. This practice has been discontinued.

DESIGN GOALS

The goal of the design was to comply with the following criteria:

- Remove soil material impacted above the Kansas RSK "soil to groundwater protection pathway" criteria;
- Conduct remedial action with minimal disruption to Site business activities;
- Properly transport and dispose impacted materials at a permitted off-site facility; and
- Restore Site grade and surfacing to pre-construction conditions.

OVERVIEW OF DESIGN

The IRMSWP was based upon source area remedial investigations conducted by The Forrester Group (Forrester, 2004a; Forrester, 2004b). The design included the following elements:

- Excavate materials which were determined to be impacted by tetrachloroethylene (PCE), trichloroethylene (TCE), 1,2-dichloroethane (1,2-DCA), cis-1,2-dichloroethene (cis-1,2-DCE) above risk-based standards for Kansas (RSK, June 2007) for the soil to groundwater pathway (historical results summarized in Attachment 2, Table 1).
- Excavate impacted vadose-zone silty clay soil above the sand layer.
- Slope excavation sidewalls away from site buildings to ensure structural stability.
- Dispose of excavated material as non-hazardous waste based on in-situ soil testing results compared to the EPA toxicity characteristic leaching procedure (TCLP) levels.

DESIGN

To address the area impacted by chlorinated volatile organic compounds (CVOCs), subsurface soil was excavated, loaded into transport trucks, and disposed off-site. Based on pre-excavation soil sampling results, soil did not exceed EPA TCLP levels for VOCs and so materials was disposed off-site as non-hazardous special waste.

The following subsections detail the completed actions necessary for the site preparation, construction, and demobilization, remedial monitoring, and reporting at the Site. Field notes from The Forrester Group oversight personnel are included in Attachment 3. A photograph log documenting site work is provided as Attachment 4.

SITE PREPARATION

Minimal preparation of the Site was required prior to remedial activities. Due to the short duration of the project, only temporary facilities were established at the Site. A site trailer was not needed, but a cooler with drinking water and portable sanitation service were provided by the contractor.

SITE ACCESS, SECURITY AND TRAFFIC CONTROLS

Permanent fencing was employed to ensure site security. The Site is surrounded with six-foot high chain-link fencing. The fence gates were locked each evening. On-Site visitor control during construction work hours was coordinated by Forrester Group personnel. The excavation perimeter was bounded by Type III Barricades, as appropriate. Site traffic was diverted away from the excavation area in such a manner that minimized disruption to the daily Site operations.

CONCRETE CUTTING AND DEMOLITION

The entire southern side of the yard was covered by approximately six inches of concrete which had to be removed. This material was cut with a concrete saw. Once the concrete was cut, it was removed with an excavator and transported to the designated concrete stockpile area. Only the concrete covering the immediate area of excavation was removed in order to minimize the extent or amount of uncovered material in case of a rain event. Concrete debris was disposed by the contractor as construction fill at Lafarge Landfill in Wichita, KS.

EXCAVATION

Excavation and concrete removal was conducted simultaneously. Soil removal began after an area of concrete was removed sufficient to facilitate the movement of the excavator.

Clay-rich soil present beneath the concrete pavement was removed until underlying sand was exposed. A total of 683.1 cubic yards of soil and concrete was removed from the Site.

SOIL LOADING

Soil excavated was directly loaded into transport trucks for off-site disposal at Rolling Meadows Recycling and Disposal Facility in Topeka, KS.

NON-HAZARDOUS WASTE SOIL DISPOSAL

Waste material was characterized as non-hazardous as reported in the Waste Characterization Sampling Report submitted to KDHE on June 15, 2007. KDHE acknowledged receipt of the report on July 13, 2007. Copies of the weight tickets were obtained and are provided in Attachment 5 as evidence of disposal for payment purposes.

BACKFILL

Clean soil was obtained from an off-site source, Northridge Sand, L.L.C. This soil was tested at the source and determined to be of suitable quality. Due to the limited area within the facility, clean soil was not stockpiled but was directly off-loaded from each delivery truck into the excavation pit. The clean fill hauled to the Site by the contractor was sampled by oversight personnel and analyzed for total VOCs using method 8260B and for total metals using method 6010B. The analytical data are provided in Attachment 6. The backfill was also free of course material such as asphalt, concrete, rock, or vegetative matter. Copies of the weight tickets were obtained and are provided in Attachment 6 as evidences of delivery for payment purposes. Soil was laid in 12-inch uncompacted lifts and compacted to a target 95% Standard Proctor. Copies of the Moisture-Density Relationship Report and Compaction tests are provided in Attachment 5.

SURVEYING

A survey of the existing ground surface prior to excavation and of the pit after excavation was conducted to verify the volume of material removed, as well as a geographical extent of the excavation.

CONCRETE REPLACEMENT

The concrete surface was restored once backfilling was completed. A geotextile fabric was placed above the compacted fill, which as then covered with 12-inches of course base rock. Rebar, ¼-inch in diameter and tied on 16-inch centers, was then placed and an eight-inch concrete slab was poured, which matches the existing Site grade. Expansion relief joints were then cut in the finished concrete. A copy of the Concrete Break Test Report is provided in Attachment 5.

SITE RESTORATION

Following the installation and curing of the concrete pavement, temporary utilities, equipment, and facilities were removed from the Site.

REMEDIAL ACTION COMPLETION CRITERIA

The remedial action goal was to reduce concentrations of CVOCs in the soil to a level below the RSK standard for the "soil to groundwater protection pathway". The removal of the impacted soil within the proposed excavation area was determined to be the most sustainable remedial option to achieve this goal.

After impacted soil was excavated, confirmation soil samples were collected and analyzed to establish that the cleanup criteria were met. Eight discrete soil samples (plus one duplicate sample) were collected from the excavation sidewalls, after field screening with a photoionization detector (PID), using method 5035 sample preservation kits. The locations of the confirmation soil samples are shown in Attachment 1, Sheet 3 of this Report. Samples were analyzed for VOCs using EPA method 8260B by Pace Analytical Laboratory, a Kansas-certified laboratory. A twenty-four hour turnaround time was requested from the analytical laboratory to facilitate further excavation and testing, if necessary.

The first round of confirmation soil sampling results indicated that 6 of 8 samples meet the remediation standard and two locations (IRM-CS-01 and IRM-CS-07) required further excavation. After over-excavating at the two locations, a second round of confirmation samples was collected and analyzed as described above using an expedited analytical turnaround time. The two confirmation samples did not exceed KDHE remediation levels. Therefore, no further excavation was completed. Analytical data are provided in Attachment 6. Table 1 in Attachment 2 summarizes the confirmation soil sampling results.

During the second round of soil sampling, KDHE collected a duplicate sample from one of the two locations (IRM-CS-01B). KDHE collected soil in a 4-ounce soil jar and submitted the sample to Continental Laboratory using a 10-day analytical turnaround time. KDHE's sample result (437 ug/kg PCE) exceeded the soil to groundwater protection pathway remediation criteria (180 ug/kg PCE) and Brenntag's confirmation sample result (19.1 ug/kg PCE). However demobilization from the Site had occurred prior to receiving KDHE's data, so those results could not be acted upon.

CONCLUSION

Despite the apparent elevated detection at location IRM-CS-01B, KDHE has verbally indicated that the objective of the Interim Remedial Measure for soil has essentially been met and further soil remediation will not be required. However, given that residual VOCs are present in areas that were not excavated (including according to KDHE the area of their confirmation sample), KDHE will require that pavement at the site be maintained to minimize any potential leaching of VOCs to groundwater and that an environmental land-use control be established to prevent future non-residential land use.

PLANNED REMEDIAL MONITORING

The groundwater at the Site will be monitored by Brenntag following the completion of the remedial construction phase to evaluate downgradient CVOC concentrations. The groundwater will be monitored on a quarterly basis to evaluate the effectiveness of the proposed Interim Remedial Measure for Soil. The installation of six on-site groundwater wells following the completion of excavation activities will be detailed in a separate work plan. Quarterly groundwater sampling reports will also be submitted to KDHE summarizing the results of each monitoring event.

ATTACHMENT 1
FIGURES

COVER SHEET – SITE LOCATION
SHEET 1 – SITE PLAN
SHEET 2 – HISTORICAL SAMPLING LOCATIONS
SHEET 3 – FINAL SITE PLAN

Interim Remedial Measure for Soil Completion Report

BRENNTAG

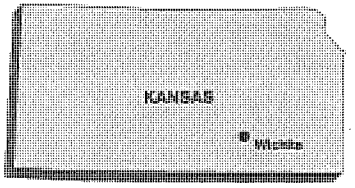
Brenntag Southwest Inc.

Wichita, Kansas

December 2007

FINAL

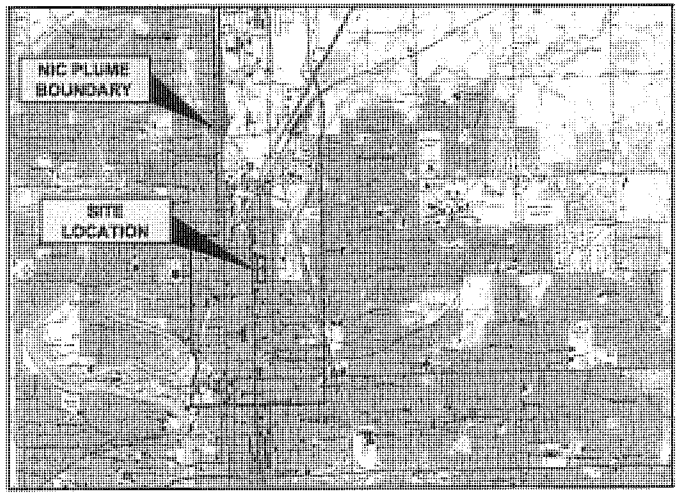
Sheet	Sheet Title
Sheet 1	Site Layout
Sheet 2	Proposed Area of Excavation
Sheet 3	Actual Excavation Footprint

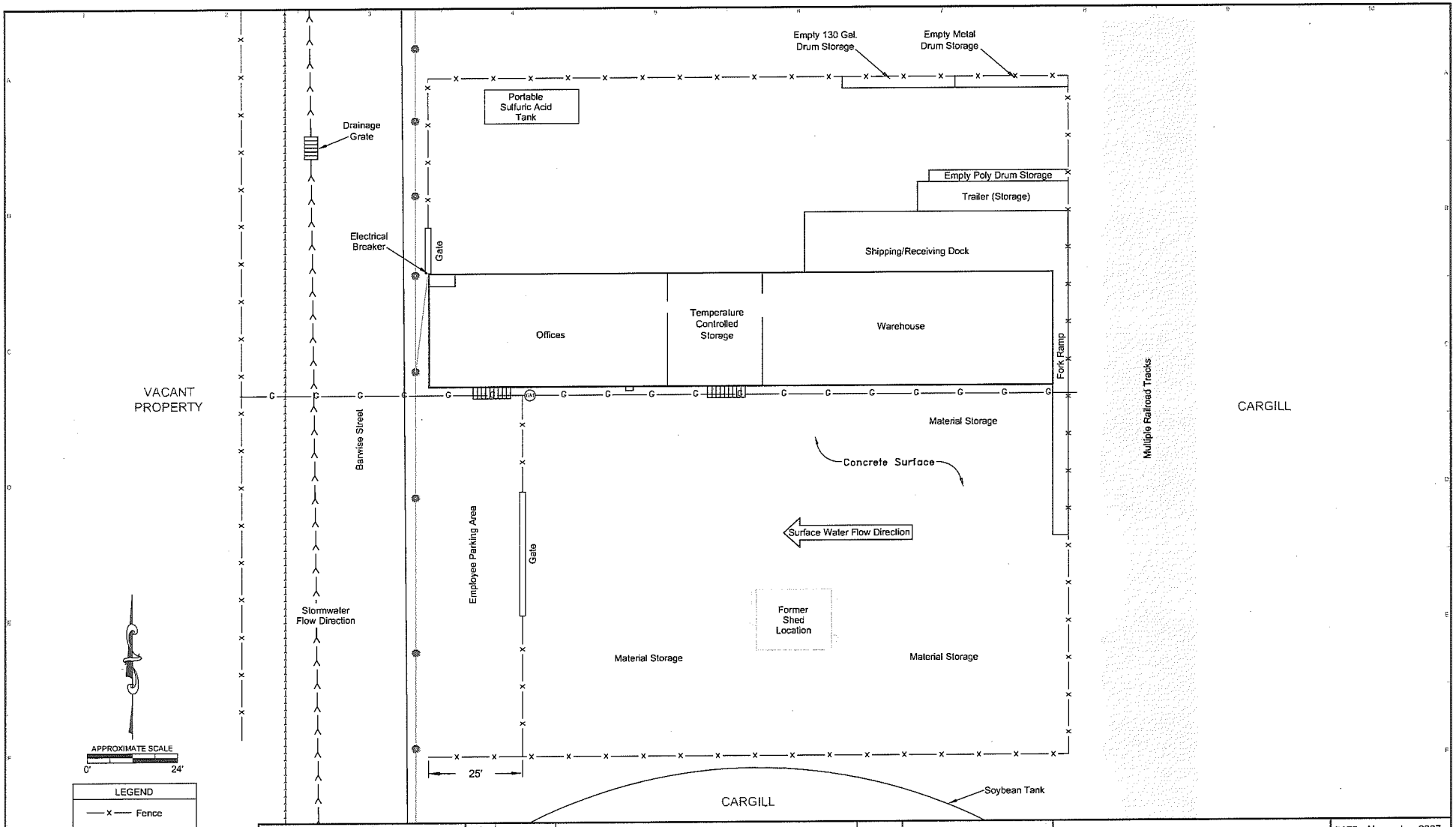


Prepared by:

THE FORRESTER GROUP
INSIGHTFUL ENVIRONMENTAL SOLUTIONS™

SITE LOCATION MAP
(USGS AERIAL)





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REV #	DATE	REVISION	APPVD
5			
4			
3			
2			
1	12/03/2007	General Revisions	BS
0	11/19/2007	Interim Remedial Measure for Soil Completion Report	KG

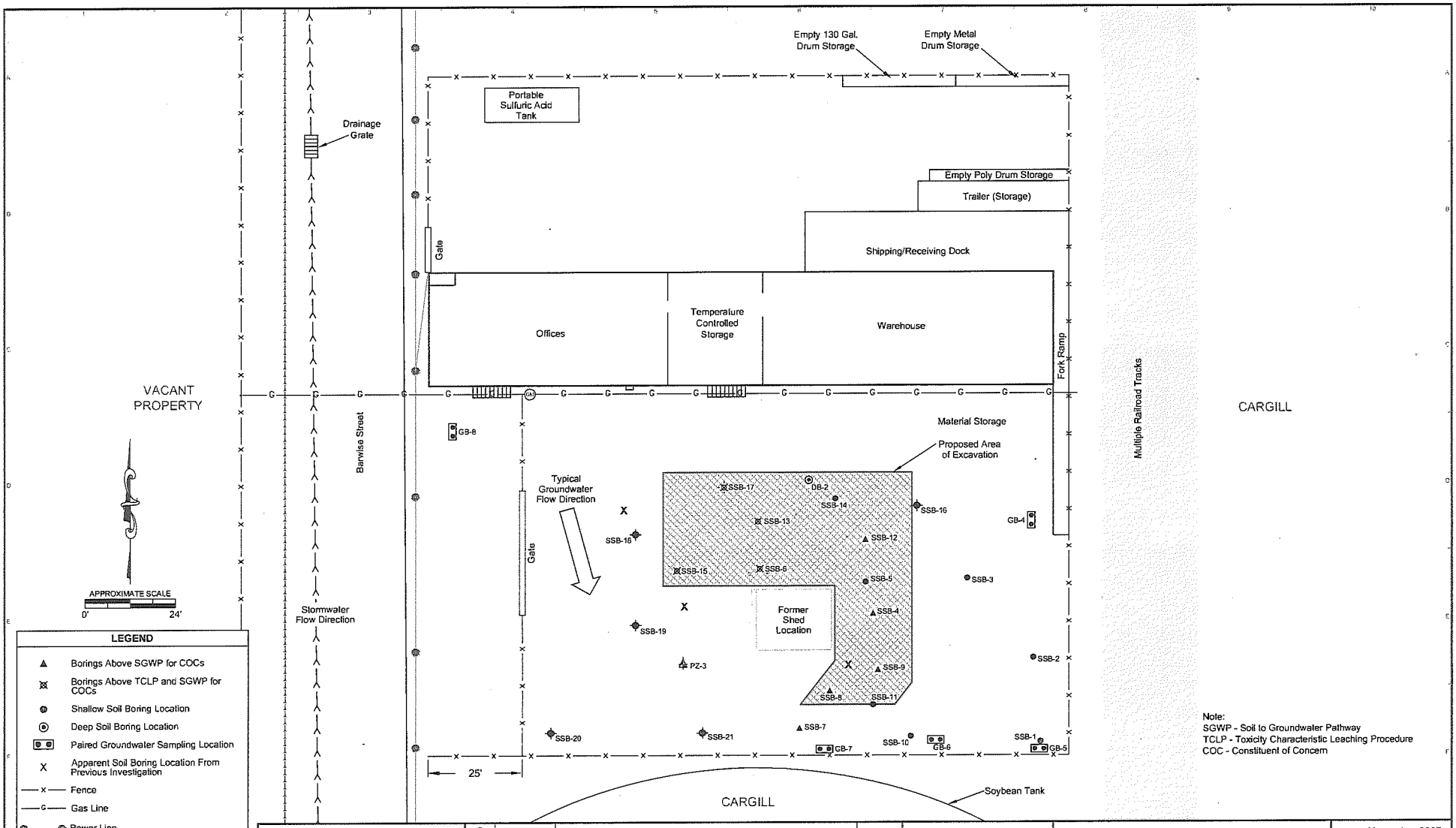
BRENNTAG

BRENNTAG SOUTHWEST
1520 N. BARWISE
WICHITA, KANSAS

SITE LAYOUT

DATE: November 2007
DESIGNED BY: RJ
APPROVED BY: BS
SHEET: 1 of 3

1477-IRM_Sits 1-3.dwg: 12/03/2007



Note:
SGWP - Soil to Groundwater Pathway
TCLP - Toxicity Characteristic Leaching Procedure
COC - Constituent of Concern

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REV #	DATE	REVISION	APPVD
5			
4			
3			
2			
1	12/03/2007	General Revisions	BS
0	11/19/2007	Interim Remedial Measure for Soil Completion Report	KG

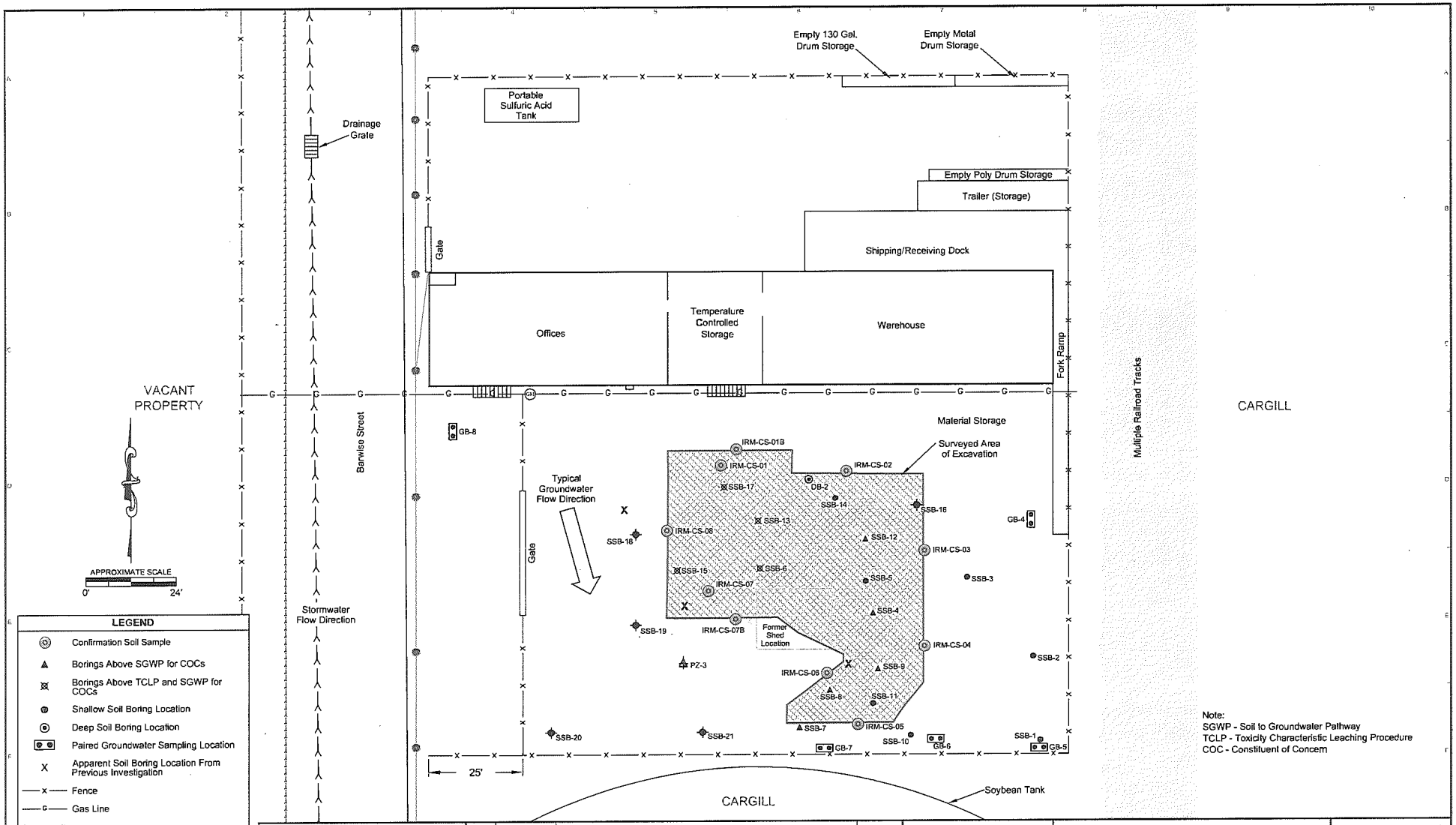
BRENNTAG

BRENNTAG SOUTHWEST
1520 N. BARWISE
WICHITA, KANSAS

PROPOSED AREA OF EXCAVATION

DATE: November 2007
DESIGNED BY: RJ
APPROVED BY: BS
SHEET: 2 of 3

1477-IRM_Snts 1-3.dwg: 12/03/2007



Note:
SGWP - Soil to Groundwater Pathway
TCLP - Toxicity Characteristic Leaching Procedure
COC - Constituent of Concern

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REV #	DATE	REVISION	APPVD
5			
4			
3			
2			
1	12/03/2007	General Revisions	BS
0	11/19/2007	Interim Remedial Measure for Soil Completion Report	KG

BRENNTAG

BRENNTAG SOUTHWEST
1520 N. BARWISE
WICHITA, KANSAS

ACTUAL EXCAVATION FOOTPRINT

DATE: November 2007
DESIGNED BY: RJ
APPROVED BY: BS
SHEET: 3 of 3

1477-IRM_Sms 1-3.dwg: 12/03/2007

ATTACHMENT 2
TABLES

TABLE 1 – HISTORICAL SAMPLING DATA

Table 1
Soil Analytical Data for Proposed Excavation Area
Brenntag Southwest
Wichita, KS

			Location ID	SSB-4	SSB-6	SSB-6	SSB-7	SSB-8	SSB-9	SSB-9	SSB-11	SSB-12	SSB-13	SSB-15	SSB-15 DUP	SSB-17
			Depth Interval	6-6.2	1.4-1.6	6.5-6.7	3.4-3.6	3.4-3.6	1-1.2	5.8-6	3.4-3.6	3.4-3.6	6.2-6.4	3.6-3.8	3.6-3.8	1.8-2.0
Chemical Name	RSK for Soil to Groundwater Pathway (ppb) [1]	TCLP (ppb)	Unit													
1,2-Dichloroethane	40	700	ug/kg	12	58000 **	16000 **	< 5 U	< 450 U	< 480 U	2.3 J	< 4.2 U	< 4.5 U	< 6.1 U	1 J	1.1 J	<6.2U
cis-1,2-Dichloroethene	800	NA	ug/kg	120	2100 J *	< 990 U	30	5900 *	940 *	670	130	430 J	28	98	67	30
Tetrachloroethene (PCE)	180	700	ug/kg	580 *	950 J **	2300 **	36	< 450 U	< 480 U	870 *	33	440 J *	980 **	710 **	390 J *	1300 E **
Toluene	40000	NA	ug/kg	3.6 J	< 2400 U	340 J	< 5 U	170 J	180 J	2.3 J	< 4.2 U	< 4.5 U	2 J	< 4.7 U	< 4.6 U	<6.2U
Trichloroethene (TCE)	200	200	ug/kg	11	< 2400 U	< 990 U	410 **	< 450 U	< 480 U	13	15	14	13	11	5.9	24

1 = RSK non-residential soil to groundwater pathway
* = exceeds RSK screening level
** = exceeds both RSK and TCLP screening levels

<# U = Undetected
J = Estimated between RL and MDL

Table 2
Summary of Confirmation Sampling Analytical Data
Brenntag Southwest
Wichita, KS

		Location ID	IRM-CS-01	IRM-CS-01-B	KDHE Duplicate IRM-CS-01-B	IRM-CS-02	IRM-CS-03	IRM-CS-04	IRM-CS-Dup-01 (IRM-CS-04)	IRM-CS-05	IRM-CS-06	IRM-CS-07	IRM-CS-07-B	IRM-CS-08
		Depth Interval (ft bgs)	2	2	2	6	4	6	6	3	2	4	2	2
Chemical Name	RSK for Soil to Groundwater Pathway (ppb)[1]	Unit												
Acetone	3800	ug/kg	ND	88.3	ND	ND	31.6	ND	ND	ND	223	ND	163	39.4
2-Butanone (MEK)	12000	ug/kg	ND	18.5	ND	ND	ND	ND	ND	ND	37	ND	29.8	14.5
1,1-Dichloroethane	13000	ug/kg	1090	ND	ND	ND	ND	ND	ND	12.9	9.2	ND	ND	ND
1,2-Dichloroethane	40	ug/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (Total)	-	ug/kg	10000	ND	ND	ND	5.8	6.2	9.9	25.8	93.9	170 J	45.4	ND
1,1-Dichloroethene	120	ug/kg	614	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	800	ug/kg	9940	ND	ND	ND	5.8	6.2	9.9	25.8	91.7	170 J	43.6	ND
trans-1,2-Dichloroethene	1500	ug/kg	88.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	55000	ug/kg	ND	ND	ND	ND	ND	ND	ND	ND	8	ND	ND	ND
Methylene chloride	30	ug/kg	ND	ND	ND	ND	ND	ND	6.4	ND	7.7	ND	ND	ND
Tetrachloroethene	180	ug/kg	5700	19.1	437	39.2	ND	8.6	11.3	15.6	ND	1370	6.1	103
Toluene	40000	ug/kg	ND	ND	ND	ND	ND	ND	ND	ND	70.9	ND	ND	ND
1,1,1-Trichloroethane	5500	ug/kg	ND	ND	ND	ND	ND	ND	ND	4.6	ND	ND	ND	ND
Trichloroethene	200	ug/kg	153 J	ND	ND	ND	ND	ND	ND	40.9	ND	187 J	5.3	14.6
Xylene (Total)	700000	ug/kg	ND	ND	ND	ND	ND	ND	ND	ND	70	ND	ND	ND

J = estrimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
[1] = June 2007 KDHE Tier 2 Risk-Based Non-Residential Soil to Groundwater Protection Pathway.

ATTACHMENT 3
FIELD NOTES

DAILY SUMMARY LOGS
TAILGATE SAFETY MEETINGS
EXCAVATION/BACKFILL NOTES

DAILY SUMMARY LOG
Interim Remedial Measure for Soil
Brenntag – Wichita, KS

Date: 8-27-07 Monday
Weather: Hot clear 95°
Report Prepared by: Kris Gamble

Work Performed Today: Kickoff Meeting
- site utilities (portable facilities) delivered
- Survey performed - footprint layed out
  - surface elevations
- concrete cutting begun - 70% complete
- excavation equipment ~~collect~~ delivered
- analytical and geotechnical samples collected from backfill site
- on-site facility storage shed knocked down
- barricades installed along cut concrete edge

Include as applicable: daily tasks, material brought onsite, health and safety issues

Problems – Delays:
South edge of excavation footprint layed out by surveyors was about 4/4 inches from Brenntag south fence. Cargill 7 million gal AST immediately on other side of tank. South edge was moved back to 9 ft from Brenntag south fence.

Include as applicable: equipment, personnel, and monitoring issues

Site Workers, Visitors: Hulcher - Brian Yaple
Darren McKee
Ronnie Williams
Savoy Company Land Surveyors D/R Concrete Cutting

Equipment Usage: Track-Hoe
Concrete saw

Deliveries: portable facilities Link-Belt 210 excavator

Day 2

DAILY SUMMARY LOG
Interim Remedial Measure for Soil
Brenntag – Wichita, KS

Date: 8-28-07
Weather: Hot 95° slight breeze
Report Prepared by: Kris Gamble

Work Performed Today: - Complete concrete cutting along perimeter of footprint.
- Begin excavation
15 truck loads off-site

Include as applicable: daily tasks, material brought onsite, health and safety issues

Problems – Delays: (Issue): groundwater seep 4½-5' bgs along east side wall in area that looks like a pit that has been filled in.

Include as applicable: equipment, personnel, and monitoring issues

Site Workers, Visitors: Hulcher : Brian Yaple
Darren McKee
Peter Tilton
KDHE - Chris Carey

Equipment Usage: Link-Belt Track-Hoe 210

Deliveries: None

Day 3

DAILY SUMMARY LOG
Interim Remedial Measure for Soil
Brenntag – Wichita, KS

Date: 8-29-07
Weather: Breezy overcast 88° rain overnight
Report Prepared by: Kris Gamble

Work Performed Today: Excavation continues over 3/4 of foot print complete

19 trucks off-site - 34 total

4 loads of concrete off site.

confirmation samples collected from each location except west wall

Include as applicable: daily tasks, material brought onsite, health and safety issues

Problems – Delays: None

Include as applicable: equipment, personnel, and monitoring issues

Site Workers, Visitors: Hulcher - Brian Yaple
Darren McKee
Peter Tilton
Truck drivers

Equipment Usage: Link-Belt 210

Deliveries:

Day 4

DAILY SUMMARY LOG
Interim Remedial Measure for Soil
Brenntag – Wichita, KS

Date: 8-30-2007
Weather: Calm 83° sunny
Report Prepared by: Kris Gamble

Work Performed Today: Completed proposed area excavation and loading of trucks

8-28-07	328.16 tons	15 loads
8-29-07	457.12 tons	19 loads
8-30-07	90.24 tons	4 loads
	875.52 tons	38 loads

- Confirmation sample IRM-CS-08 collected
- Remaining concrete hauled off-site
- Surveyors on site to shoot - bottom of excavation
  - new corness on south edge
  - location of confirmation samples

Concrete Removal Summary

8-29-07	(4 loads)	49.30 tons
8-30-07	(5 loads)	53.58 tons
	Total	102.88 tons

Include as applicable: daily tasks, material brought onsite, health and safety issues

Problems – Delays: None

Include as applicable: equipment, personnel, and monitoring issues

Site Workers, Visitors: Hulcher – Brian Yaple, Darren McKee; TFG – Kris Gamble, Brian Symons

Equipment Usage: Link-Belt 210 LX Track-Hoe

Deliveries: geotextile, remote sheepsfoot compactor

Day 5

DAILY SUMMARY LOG
Interim Remedial Measure for Soil
Brenntag – Wichita, KS

Date: 8-31-07
Weather: Warm 85°
Report Prepared by: Kris Gamble

Work Performed Today:
Waited for backfill trucks - Kenco sand
noon - then afternoon.
crew called it a day.
Begin backfill on Tuesday

Include as applicable: daily tasks, material brought onsite, health and safety issues

Problems – Delays: No Trucks

Include as applicable: equipment, personnel, and monitoring issues

Site Workers, Visitors: Hulcher - Brian Yaple
Darren McKee
Kris Gamble

Equipment Usage: None

Deliveries: None

Day 6

DAILY SUMMARY LOG
Interim Remedial Measure for Soil
Brenntag – Wichita, KS

Date: 9-4-07 – Tuesday
Weather: Cloudy 92°
Report Prepared by: Kris Gamble

Work Performed Today: Began backfilling excavation area

- 391.3 Tons of backfill brought on site
- collected IRM-Backfill-02 and IRM-Backfill-03
- completed first two lifts
- laid next 2 lifts – waiting to pass compaction test in morning

- received all confirmation sampling results
- identified areas for over excavation around IRM-CS-07 and IRM-CS-01

Include as applicable: daily tasks, material brought onsite, health and safety issues

Problems – Delays: Density meter used for testing first two lifts wasn't working correct. GSI collected readings from meter and was going to give results after performing work back at their lab. GSI technician said in his professional opinion it would pass 95% and to begin on next 2 lifts.

Include as applicable: equipment, personnel, and monitoring issues

Site Workers, Visitors: Hutches – Brian Yapple, Darren McKee GSI – Jim Hannoff, P.E.

Kris Gamble – TFG

Equipment Usage: Wacker RT compactor
Link Belt Track-Hoe 210 LX

Deliveries: more Pace chain of custodies
Isobutylene for PID came on Friday from Geotech

Day 7

DAILY SUMMARY LOG
Interim Remedial Measure for Soil
Brenntag – Wichita, KS

Date: 9-5-07
Weather: 88° overcast 2 - 30 min light rain event
Report Prepared by: Kris Gamble

Work Performed Today: Backfill continues - south area complete and ready for density testing.
- compaction tests 2-4 ft lift complete
- 9 loads of backfill on-site today
29 total loads
181.10 tons of backfill today
572.4 Tons total thus far
- over excavation area surveyed
- " " " concrete cut.
- areas will be excavated tomorrow morning

Include as applicable: daily tasks, material brought onsite, health and safety issues

Problems – Delays: New strength test performed on backfill because material different from what was originally sampled. Changed result from 117.4 to 113. New correction factor allowed density tests to pass

Include as applicable: equipment, personnel, and monitoring issues

Site Workers, Visitors: Hulches - Brian Yaple, Darren McKee
Sawyer Surveyors
D/R/ concrete cutting
Kris Gamble - T&G

Equipment Usage: Link - Belt Track-Hoe 210 LX
Wackes RT compactor

Deliveries: 181.1 Tons backfill

Day 8

DAILY SUMMARY LOG
Interim Remedial Measure for Soil
Brenntag – Wichita, KS

Date: 9-6-07
Weather: cloudy 92°
Report Prepared by: Kris Gamble

Work Performed Today: - 3/4 of excavation area backfilled/compacted waiting for density test
- complete over excavation @ CS-01 and CS-07
- collected new confirmation samples IRM-CS-01-B (split w/ KDHE) and IRM-CS-07-B.
- 40 Tons of back fill brought to site
- collected IRM-Back fill-04 sample - according to work plan good for 800 cubic yards

Include as applicable: daily tasks, material brought onsite, health and safety issues

Problems – Delays:

Include as applicable: equipment, personnel, and monitoring issues

Site Workers, Visitors: Hulcher - Brian Yaple Darren McKee
KDHE - Jean Underwood Keith ?
Savoy Surveyor
Kris Gamble - TFG

Equipment Usage: Track-hoe
compactor

Deliveries: —

Day 9

DAILY SUMMARY LOG
Interim Remedial Measure for Soil
Brenntag – Wichita, KS

Date: 9-7-07
Weather: Overcast 80° no rain day rain overnight
Report Prepared by: Kris Gamble

Work Performed Today: - Completed final lifts of backfill
- GSI performed final compaction tests

Include as applicable: daily tasks, material brought onsite, health and safety issues

Problems – Delays: None

Include as applicable: equipment, personnel, and monitoring issues

Site Workers, Visitors: Hulcher - Brian Yaple Darren McKee
Kris Gamble
GSI - Jim Aamodt

Equipment Usage: Track hoe compacter

Deliveries: —

Day 10

DAILY SUMMARY LOG
Interim Remedial Measure for Soil
Brenntag – Wichita, KS

Date: 9-10-2007
Weather: Overcast rain in late afternoon 75°
Report Prepared by: Kris Gamble

Work Performed Today: Geofabric laid out over backfill across entire area of excavation
- 197.68 tons base course AB-3 on-site
- base course spread 12-inches across 95% of site
- confirmation samples data received – below clean up level
- mailed (feder) back PID and LEL

Include as applicable: daily tasks, material brought onsite, health and safety issues

Problems – Delays: rain in afternoon off-site (Hulcher) at 1640

Include as applicable: equipment, personnel, and monitoring issues

Site Workers, Visitors: Hulcher – Brian Yaple Darren McKee
Kris Gamble – TFG
H&R Hauling drivers

Equipment Usage: Track hoe

Deliveries:

Day 11

DAILY SUMMARY LOG
Interim Remedial Measure for Soil
Brenntag – Wichita, KS

Date: 9-11-2007
Weather: Clear 70°
Report Prepared by: Kris Gamble

Work Performed Today: Base coarse rock completely spread Brenntag requested area near building dug out and concrete laid. This area is where eye wash and shower was re located to from demolished shed.
Hulcher picked up all trash from site and did final site house keeping work.
United Rental picked up excavator track hoe

Include as applicable: daily tasks, material brought onsite, health and safety issues

Problems – Delays: Beton concrete had scheduled site visit in afternoon - no show

Include as applicable: equipment, personnel, and monitoring issues

Site Workers, Visitors: Hulcher - Brian Yaple Darren McKee
TFG - Kris Gamble

Equipment Usage: ~~None~~ KG track hoe

Deliveries: (pick up) Track hoe

Day 12

DAILY SUMMARY LOG
Interim Remedial Measure for Soil
Brenntag – Wichita, KS

Date: 9-12-07
Weather: sunny clear 75°
Report Prepared by: Kris Gamble

Work Performed Today: No work performed. Waited for concrete contractors to come by site. Only came by briefly said they can prep thursday 9-13-07 and pour next week

Include as applicable: daily tasks, material brought onsite, health and safety issues

Problems – Delays: Concrete subcontractor

Include as applicable: equipment, personnel, and monitoring issues

Site Workers, Visitors: Hulcher - Brian Yaple
TFG - Kris Gamble

Equipment Usage:

Deliveries:

Day 13

DAILY SUMMARY LOG
Interim Remedial Measure for Soil
Brenntag – Wichita, KS

Date: 9-13-07
Weather: clear sunny 85°
Report Prepared by: Kris Gamble

Work Performed Today: concrete reinforcement and final grade of rock completed. Concrete will be poured in morning.

Include as applicable: daily tasks, material brought onsite, health and safety issues

Problems – Delays:

Include as applicable: equipment, personnel, and monitoring issues

Site Workers, Visitors: Hulcher - Brian Yaple
TFG - Kris Gamble
Beson - 8 crew members

Equipment Usage:

Deliveries: Pick-up of wacker compactor

Day 14

DAILY SUMMARY LOG
Interim Remedial Measure for Soil
Brenntag – Wichita, KS

Date: 9-14-07
Weather: overcast breezy 71°
Report Prepared by: Kris Gamble

Work Performed Today: Concrete poured ✓complete site de mobilization

Include as applicable: daily tasks, material brought onsite, health and safety issues

Problems – Delays: —

Include as applicable: equipment, personnel, and monitoring issues

Site Workers, Visitors: Reran Concrete - 8 crew
Hulcher Services - Brian Yaple
TFG - Kris Gamble

Equipment Usage:

Deliveries:

TAILGATE SAFETY MEETING

Date: 8-27-2007 Time: 0830

Project: Brenntag Location: Wichita, KS

Training Presented by: Kris Gamble

Topics Covered

Daily Activities: Site Kickoff meeting
Survey - layout excavation area/elevation
begin saw cut of concrete

Weather/Work: clear hot 98°

Health and Safety Issues: site hazards
saw cut operation

Special Review Topic[a] - Hospital route
- site hazards

Questions:

Company	Attendees Name (Please Print)	Signature
Hulcher Services	Brian Yaple	[illegible]
Hulcher Services	Darren Mahle	Darren Mahle
Hulcher Services	Ronnie Williams	[illegible]
The Forrester Group	Kris Gamble	Kris Gamble

[a] Special topics may include reminders on emergency procedures, including hospital route, cold and/or heat stress, excavation safety, PPE use, process safety, material handling, symptoms for chemical exposure, biological hazards, proper lifting, confined spaces, decon procedures, or site communication (hand signals).

TAILGATE SAFETY MEETING

Date: 8-28-07 Time: 0600

Project: Brenntag Location: Wichita, KS

Training Presented by: Kris Gamble

Topics Covered

Daily Activities: Complete concrete cutting
Begin excavating and truck loading

Weather/Work: Hot clear 95°

Health and Safety Issues: excavation equipment movement
truck traffic
site facility hazards

Special Review Topic[a] —

Questions: —

Company	Attendees Name (Please Print)	Signature
The Forrester Group	Kris Gamble	Kris Gamble
Hulcher Services	Brian Yopie	[illegible]
Hulcher services	DARREN McKee	Darren McKee

[a] Special topics may include reminders on emergency procedures, including hospital route, cold and/or heat stress, excavation safety, PPE use, process safety, material handling, symptoms for chemical exposure, biological hazards, proper lifting, confined spaces, decon procedures, or site communication (hand signals).

TAILGATE SAFETY MEETING

Date: 8-29-07 Time: 0600

Project: Bremtag Location: Wichita, KS

Training Presented by: Kris Gamble

Topics Covered

Daily Activities: - Continue excavation activities
- Begin collecting sidewall confirmation samples

Weather/Work: Hot 95°

Health and Safety Issues: Track-hoe
facility issues
truck traffic

Special Review Topic[a] Air monitoring / site PPE

Questions:

Company	Attendees Name (Please Print)	Signature
The Forrester Group	Kris Gamble	Kris Gamble
Hulcher	Brian Yagle	[illegible]
Hulcher	DARREN McKee	Darren McKee

[a] Special topics may include reminders on emergency procedures, including hospital route, cold and/or heat stress, excavation safety, PPE use, process safety, material handling, symptoms for chemical exposure, biological hazards, proper lifting, confined spaces, decon procedures, or site communication (hand signals).

TAILGATE SAFETY MEETING

Date: 8-30-07 Time: 0600

Project: Breantag Location: Wichita, KS

Training Presented by: Kris Gamble

Topics Covered

Daily Activities: complete excavation
complete confirmation sampling
complete concrete hauling

Weather/Work: calm partly cloudy 83°

Health and Safety Issues: Facility issues
Truck traffic
Track Hoe slips trips falls

Special Review Topic[a] —

Questions: -

Company	Attendees Name (Please Print)	Signature
The Forrester Group	Kris Gamble	Kris Gamble
Hulcher Services	Brian Yaple	[illegible]
Hulcher Services	DARREN MOKOE	Darren Mokoe

[a] Special topics may include reminders on emergency procedures, including hospital route, cold and/or heat stress, excavation safety, PPE use, process safety, material handling, symptoms for chemical exposure, biological hazards, proper lifting, confined spaces, decon procedures, or site communication (hand signals).

TAILGATE SAFETY MEETING

Date: 8-31-07 Time: 0700

Project: Bsemtag Location: Wichita, KS

Training Presented by: Kris Gamble

Topics Covered

Daily Activities: Begin backfill / compaction of excavation area

Weather/Work: 89° clear

Health and Safety Issues: Trucks Excavator
Facility issues
Slips trips falls

Special Review Topic[a] —

Questions: —

Company	Attendees Name (Please Print)	Signature
Hulcher	Brian Yapple	[illegible]
Hulcher	Damon McKee	Damon [illegible]
The Forrester Group	Kris Gamble	Kris [illegible]

[a] Special topics may include reminders on emergency procedures, including hospital route, cold and/or heat stress, excavation safety, PPE use, process safety, material handling, symptoms for chemical exposure, biological hazards, proper lifting, confined spaces, decon procedures, or site communication (hand signals).

TAILGATE SAFETY MEETING

Date: 9-4-07 Time: 0700

Project: Brenntag Location: Wichita, KS

Training Presented by: Kris Gamble

Topics Covered

Daily Activities: Begin backfill
collect backfill soil samples

Weather/Work: 92°

Health and Safety Issues: Truck traffic excavator
Facility issues
slips trips falls

Special Review Topic[a]

Questions:

Company	Attendees Name (Please Print)	Signature
The Forrester Group	Kris Gamble	Kris Gamble
Hulcher Services	DARREN McKEO	Darren McKee
Hulcher Services	Brian Yapple	[illegible]

[a] Special topics may include reminders on emergency procedures, including hospital route, cold and/or heat stress, excavation safety, PPE use, process safety, material handling, symptoms for chemical exposure, biological hazards, proper lifting, confined spaces, decon procedures, or site communication (hand signals).

TAILGATE SAFETY MEETING

Date: 9-5-2007 Time: 0650

Project: Brenntag Location: Wichita, KS

Training Presented by: Kris Gamble

Topics Covered

Daily Activities:
- Continue backfill / compaction
- Possibly start over excavation around IRM-CS-01 and IRM-CS-07

Weather/Work: 92° chance of rain (no backfill / excavation if heavy rain)

Health and Safety Issues: Facility issues, Slips Trips falls, Equipment / Trucks

Special Review Topic[a] Hazardous weather

Questions:

Company	Attendees Name (Please Print)	Signature
The Forrester Group	Kris Gamble	Kris Gamble
Hulcher Services	Brian Yaple	[illegible]
Hulcher Services	DARREN McKee	Darren [illegible]

[a] Special topics may include reminders on emergency procedures, including hospital route, cold and/or heat stress, excavation safety, PPE use, process safety, material handling, symptoms for chemical exposure, biological hazards, proper lifting, confined spaces, decon procedures, or site communication (hand signals).

TAILGATE SAFETY MEETING

Date: 9-6-07 Time: 0550

Project: Brennfog Location: Wichita, KS

Training Presented by: Kris Gamble

Topics Covered

Daily Activities: over excavate CS-01 and CS-07
complete backfill / compaction
collect new confirmation samples

Weather/Work:

Health and Safety Issues: Facility issues
Trucks / excavator hazards
slips trips falls

Special Review Topic[a]

Questions:

Company	Attendees Name (Please Print)	Signature
The Forrester Group	Kris Gamble	Kris Gamble
Hulcher Services	Brian Hayde	[illegible]
Hulcher Services	DARREN McKee	Darren McKee

[a] Special topics may include reminders on emergency procedures, including hospital route, cold and/or heat stress, excavation safety, PPE use, process safety, material handling, symptoms for chemical exposure, biological hazards, proper lifting, confined spaces, decon procedures, or site communication (hand signals).

TAILGATE SAFETY MEETING

Date: 9-7-07 Time: 0650

Project: Boeing Location: Wichita, KS

Training Presented by: Kris Gamble

Topics Covered

Daily Activities: Complete backfill
perform density tests - GSI

Weather/Work: chance of rain
80°

Health and Safety Issues: Facility issues
Truck / Hoe movement
slips trips falls

Special Review Topic[a] lightning hazards / procedures

Questions:

Company	Attendees Name (Please Print)	Signature
Hulcher Services	DARREN McKee	Darren McKee
Hulcher Services	Brian Yaple	[illegible]
The Forrester Group	Kris Gamble	Kris Gamble

3592 sqft

[a] Special topics may include reminders on emergency procedures, including hospital route, cold and/or heat stress, excavation safety, PPE use, process safety, material handling, symptoms for chemical exposure, biological hazards, proper lifting, confined spaces, decon procedures, or site communication (hand signals).

TAILGATE SAFETY MEETING

Date: 9-10-07 Time: 0715

Project: Brenntag Location: Wichita

Training Presented by: Kris Gamble

Topics Covered

Daily Activities: Begin to spread geo fabric and base rock
con firmation samples pending

Weather/Work: cool cloudy 73°

Health and Safety Issues: Facility issues
Truck / hoe
slips trips falls

Special Review Topic[a]

Questions:

Company	Attendees Name (Please Print)	Signature
The Forrester Group	Kris Gamble	Kris Gamble
Hulcher	Brian Yaple	[illegible]
Hulcher	DARREN McKee	Darren McKee

[a] Special topics may include reminders on emergency procedures, including hospital route, cold and/or heat stress, excavation safety, PPE use, process safety, material handling, symptoms for chemical exposure, biological hazards, proper lifting, confined spaces, decon procedures, or site communication (hand signals).

TAILGATE SAFETY MEETING

Date: 9-11-2007 Time: 0700

Project: Brenntag Location: Wichita, KS

Training Presented by: Kris Gamble

Topics Covered

Daily Activities: - complete spread of base course
- de mobilize equipment

Weather/Work: cloudy 73°

Health and Safety Issues: Facility issues
Equipment
slips trips falls

Special Review Topic[a]

Questions:

Company	Attendees Name (Please Print)	Signature
The Forrester Group	Kris Gamble	Kris Gamble
Hulcher Services	DARREN McKee	Darren McKee
Hulcher Services	Brian Yopp	[illegible]

[a] Special topics may include reminders on emergency procedures, including hospital route, cold and/or heat stress, excavation safety, PPE use, process safety, material handling, symptoms for chemical exposure, biological hazards, proper lifting, confined spaces, decon procedures, or site communication (hand signals).

TAILGATE SAFETY MEETING

Date: 9-12-07 / 9-13-07 Time: 0800

Project: Brenntag Location: Wichita, KS

Training Presented by: Kris Gamble

Topics Covered

Daily Activities: Possibly start concrete - sewer tying
Demobilize mini compactor

Weather/Work: clear 75°

Health and Safety Issues: Facility issues
slips trips falls

Special Review Topic[a]

Questions:

Company	Attendees Name (Please Print)	Signature
The Forrester Group	Kris Gamble	Kris Gamble
Hulcher Services	Brian Yaple	[illegible]

[a] Special topics may include reminders on emergency procedures, including hospital route, cold and/or heat stress, excavation safety, PPE use, process safety, material handling, symptoms for chemical exposure, biological hazards, proper lifting, confined spaces, decon procedures, or site communication (hand signals).

TAILGATE SAFETY MEETING

Date: 9-14-07 Time: 0515

Project: Brennbag Location: Wichita, KS

Training Presented by: Kris Gamble

Topics Covered

Daily Activities: Complete placement of concrete
Demobilize from site

Weather/Work:

Health and Safety Issues: Facility issues concrete
Truck traffic
slips trips falls

Special Review Topic[a] Hand signals

Questions:

Company	Attendees Name (Please Print)	Signature
The Forrester Group	Kris Gamble	Kris Gamble
Hulcher Services	Brian Yaple	[illegible]

[a] Special topics may include reminders on emergency procedures, including hospital route, cold and/or heat stress, excavation safety, PPE use, process safety, material handling, symptoms for chemical exposure, biological hazards, proper lifting, confined spaces, decon procedures, or site communication (hand signals).

Brenntag Excavation

304.39
23.77
328.16

8-28-07

Brenntag

Load #	No.	Gross		Tare	Truck #	Co
1	25917	71620	21.06	29500	169	Cutting Edge
2	25918	76000	23.15	29700	166	Cutting Edge
3	25919	72460	20.44	32080	HDB-02	Cutting Edge
4	25920	72420	19.86	32700	HDB-41	Cutting Edge
5	25921	78600	22.37	33860	22	5-star
6	25922			15.19 ton	69	5-star
7	25923			20.73	39	5-star
8	25924	77100		20.52 ton	35	5-star
9	25925			19.21 ton	16	5-star
10	25926			21.89 ton	169	Cutting Edge
11	25927			23.47	166	Cutting Edge
12	25928			24.64 T	HDB-02	Cutting Edge
13	25929			25.72 T	HDB-41	Cutting Edge
14	25930			26.147	22	5-star
15	25931			23.77	35	5-star
16			Total	328.16		
17						

Brenntag Excavation

Load	No.	8-29-07	Brenntag	Truck #	Co.
16	25932	22.19		HDB-02	Cutting Edge
17	25933		21.15	HDB-25	Cutting Edge
18	25934		23.27	16	5-star
19	25935		19.06	39	5-star
20	25936		19.57	69	5-star
21	25937		20.39	HDB-41	Cutting Edge
22	25938		29.24	169	Cutting Edge
23	25869		25.42	166	Cutting Edge
24	25870		29.84	22	5-star
25	25871		25.56	35	5-star
26	25872		31.10	16	5-star
27	25873		22.19	HDB-02	Cutting Edge
28	25874		23.21	HDB-25	Cutting Edge
29	25875		22.36	HDB-41	Cutting Edge
30	25876		24.36	39	5-star
31	25877		26.00	69	5-star
32	25878		25.81	169	Cutting Edge
33	25879		25.72	166	Cutting Edge
34	25880		20.66	22	5-star
		Total	457.12 Tons		

Brenntag Excavation

	8-30-07	Brenntag	Truck#	CO
35	25881	32.69	16	5-star
36	25882	19.52	HDB-25	cutting Edge
37	25883	10.90	26	cutting Edge
38	25884	27.13	HDB-41	cutting Edge
		Total 90.24 tons		

Tuesday Total	328.16	8-28-07
Wednesday Total	457.12	8-29-07
Thursday Total	90.24	8-30-07
	Total 875.52 tons	

9-6-07 Brenntag Excavation

Load #	Manifest #	Truck #	Co.	Tons
39	25885	22	Heller- Cutting Edge	27.12 Tons
40	25886	165	cutting Edge	27.2 Ton
41	25887	166	cutting Edge	25.42 Ton
42	25888	165	Cutting Edge	23.34 Ton
43	25889	166	cutting Edge	23.95 Ton

Day Total 127.03 Tons

Project Total 1,002.55 Tons

9-4-07	Brennton	Back fill	Load #
Truck 11.	17.6 Tons		1
77	20.30 Tons		2
99	19.45 Tons		3
11	19.25 Tons		4
99	20.15 Tons		5
11	19.45 Tons		6
99	20.05 Tons		7
55	19.15 Tons		8
11	19.25 Tons		9
99	21.90 Tons		10
55	19.00 Tons		11
11	17.20 Tons		12
99	20.10 Tons		13
11	19.5 Tons		14
44	20.15 Tons		15
99	20.20 Tons		16
11	18.60 Tons		17
55	18.70 Tons		18
44	20.35 Tons		19
99	20.95 Tons		20
	Total 391.3 Tons		

9-5-07	Boenntag Backfill	Load #
Truck 99	18.70 Ton	21
99	19.60 Ton	22
99	19.50 Ton	23
99	20.35 Ton	24
15	17.30 Ton	25
55	20.70 Ton	26
99	20.15 Ton	27
15	23.00 Ton	28
55	21.80 Ton	29
Total	181.10 Ton	

2day Total 572.4 Ton

9-6-07	Boennatog	Backfill	Load #
Truck # 99		20.2 Tons	30
99		19.8 Tons	31
	Total	40.0 Tons	

3 day Total 612.40 Tons

9-7-07	Brenntag	Backfill	Load #
Truck 55	19.3	Ton	32
55	18.4	Ton	33
55	18.15	Ton	34
55	18.65	Ton	35
55	18.15	Ton	36
55	17.45	Ton	37
55	18.05	Ton	38
55	20.30	Ton	39

Today Total 148.45 Ton

Project Total 760.85 Ton

9-10-07 Brennlag Base Coarse AB-3

Truck #	Weight (Tons)	Load #
HK 27782	24.38	1
HK11	24.28	2
HK 27782	24.48	3
HK 27782	24.65	4
HK11	25.48	5
HK 27782	24.98	6
HK11	24.43	7
HK 27782	25.00	8

Total 197.68 Tons

Brenntag concrete Hauled Off

Load #	Truck #	Weight
1	15	11.95 tons
2	88	13.20 tons
3	15	11.95 tons
4	88	12.20 tons
	→ 8-29-07 total	49.30 tons
5	99	12.85 tons
6	77	8.00 tons
7	44	10.21 tons
8	99	11.52 tons
9	77	11.0 tons
	→ 8-30-07 total	53.58 tons

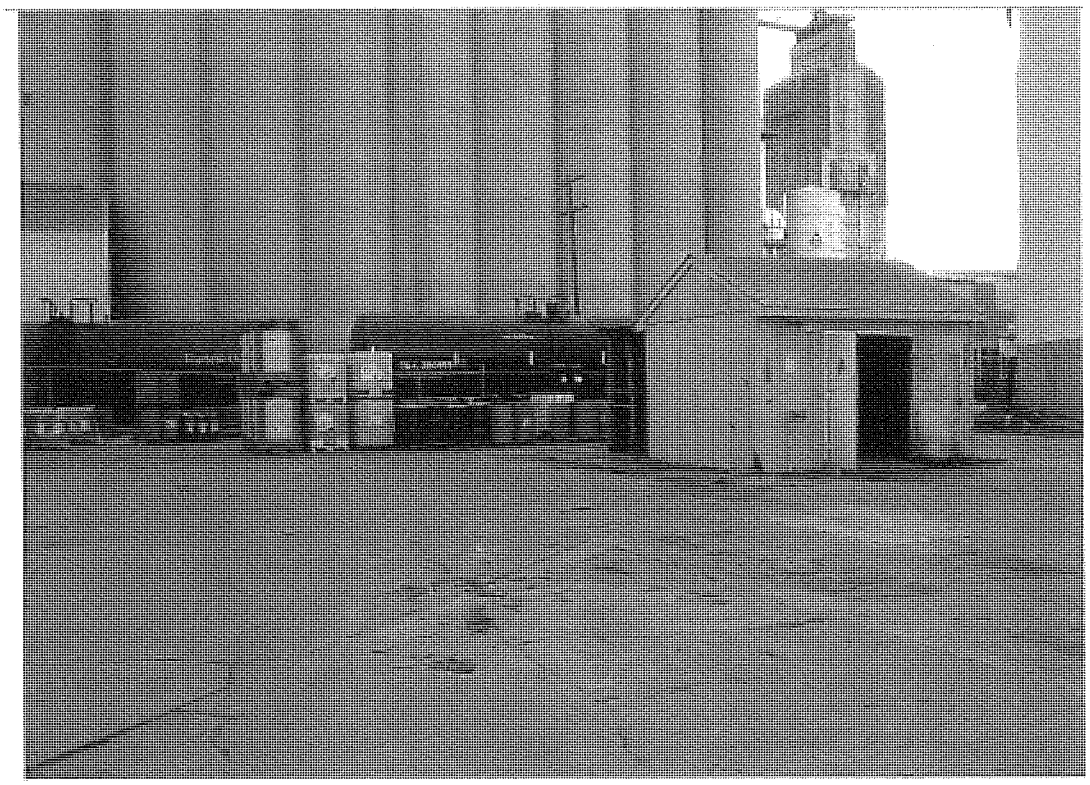
Total concrete 102.88 tons

10	99	12.60 tons
	→ 9-6-07 Total	12.60 tons

Project Total concrete 115.48 Tons

ATTACHMENT 4
PHOTOGRAPH LOG

1

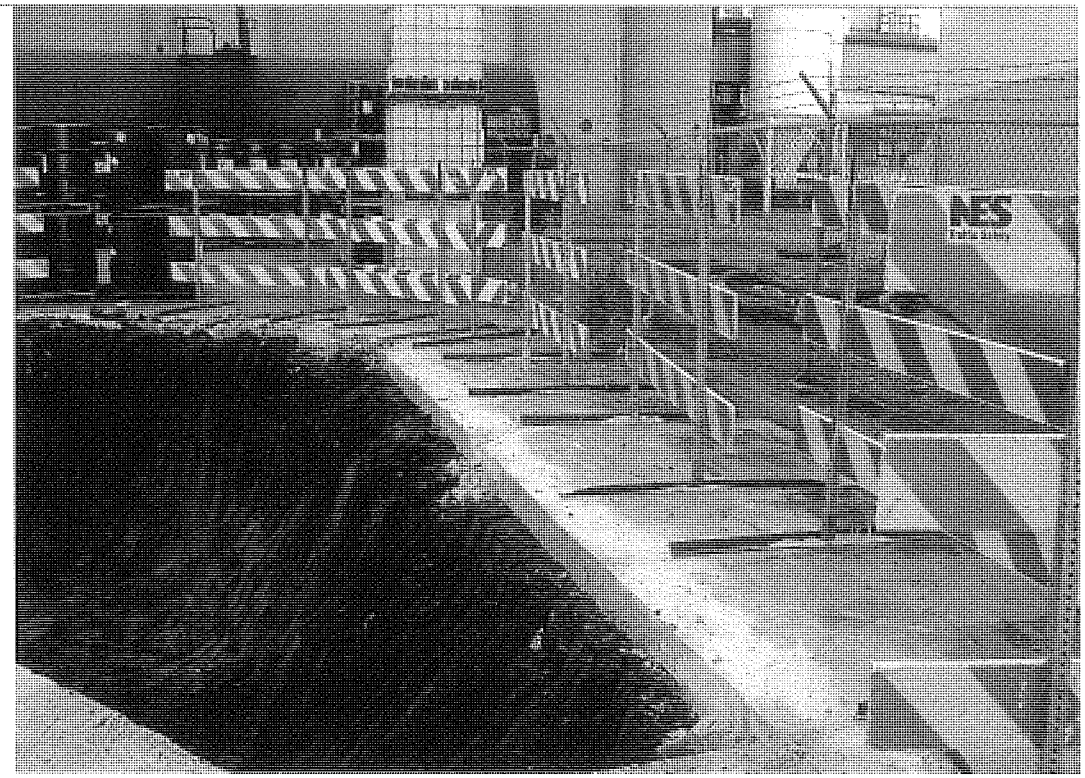


South yard of Brenntag Southwest, Inc. facility in Wichita, KS. Area of Interim Remedial Measure for Soil excavation activity.

2

Demolishion of storage shed in IRMS excavation footprint. Brenntag Southwest abandoned utilities to shed prior to removal.

3

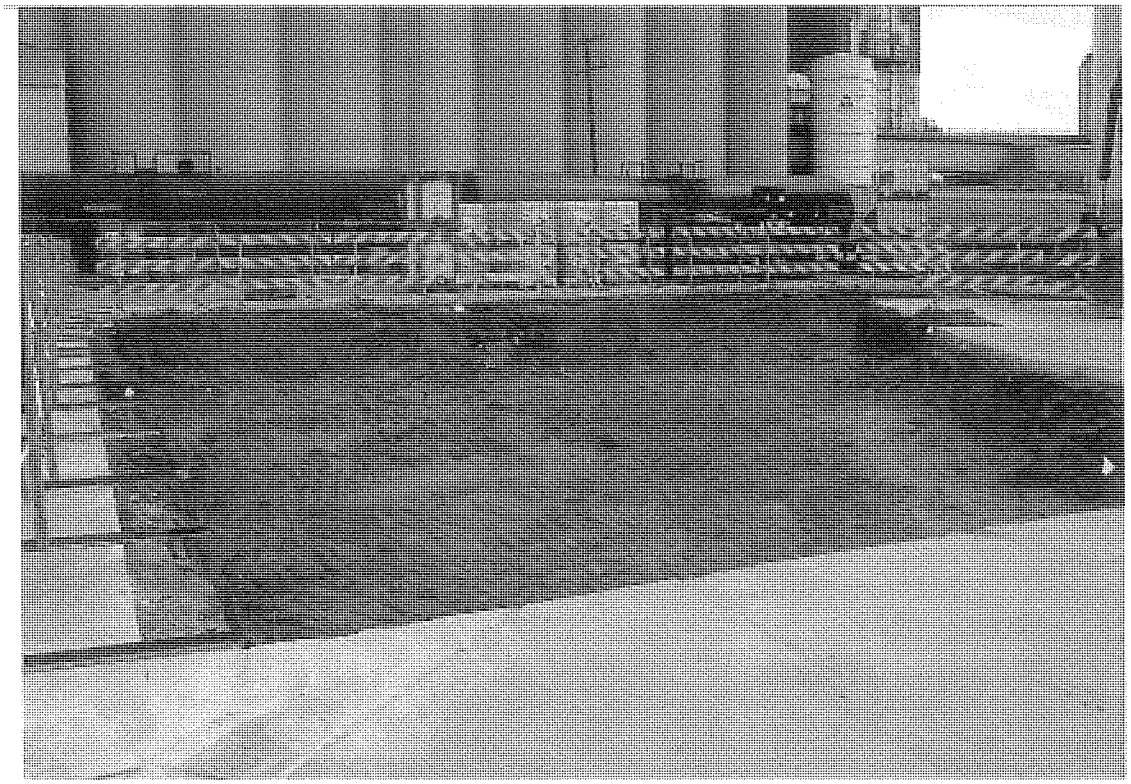


South edge of IRMS excavation. Original layout extended footprint another 4 feet to the south. Due to relation of 7 million gallon AST on neighboring property, excavation footprint stopped 9 feet from Brenntag Southwest fence line.

4

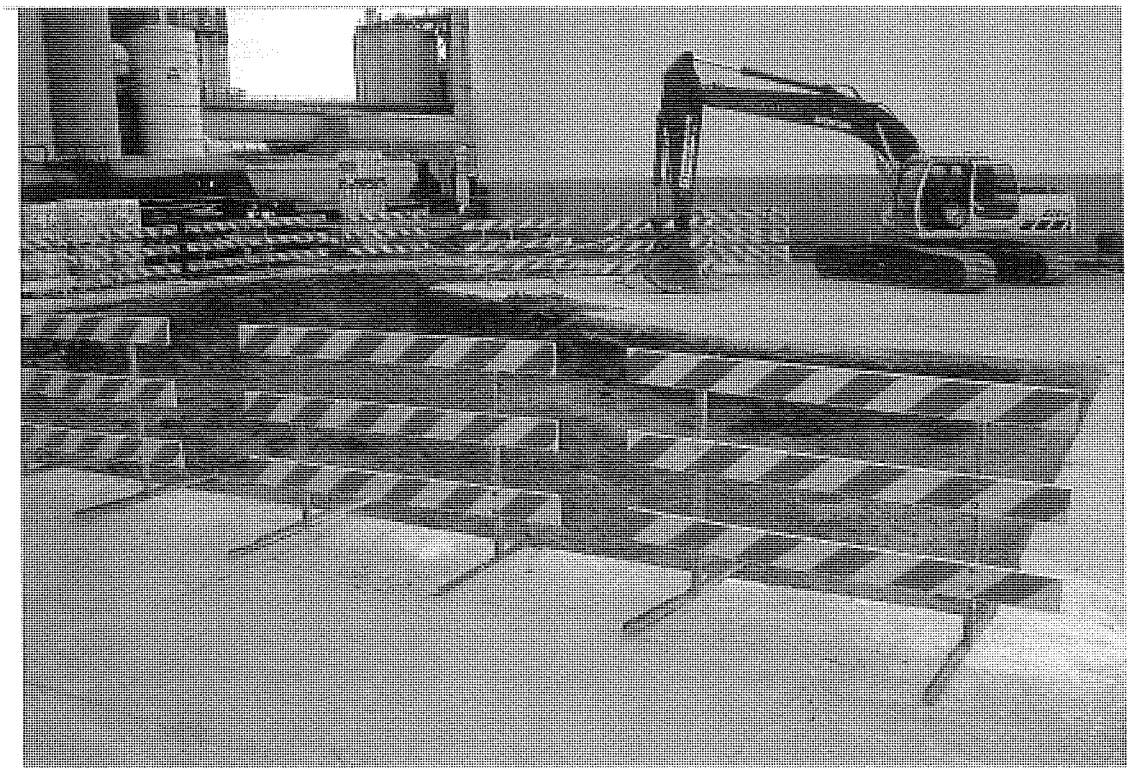
Concrete stockpile area along west side of IRMS area.

5



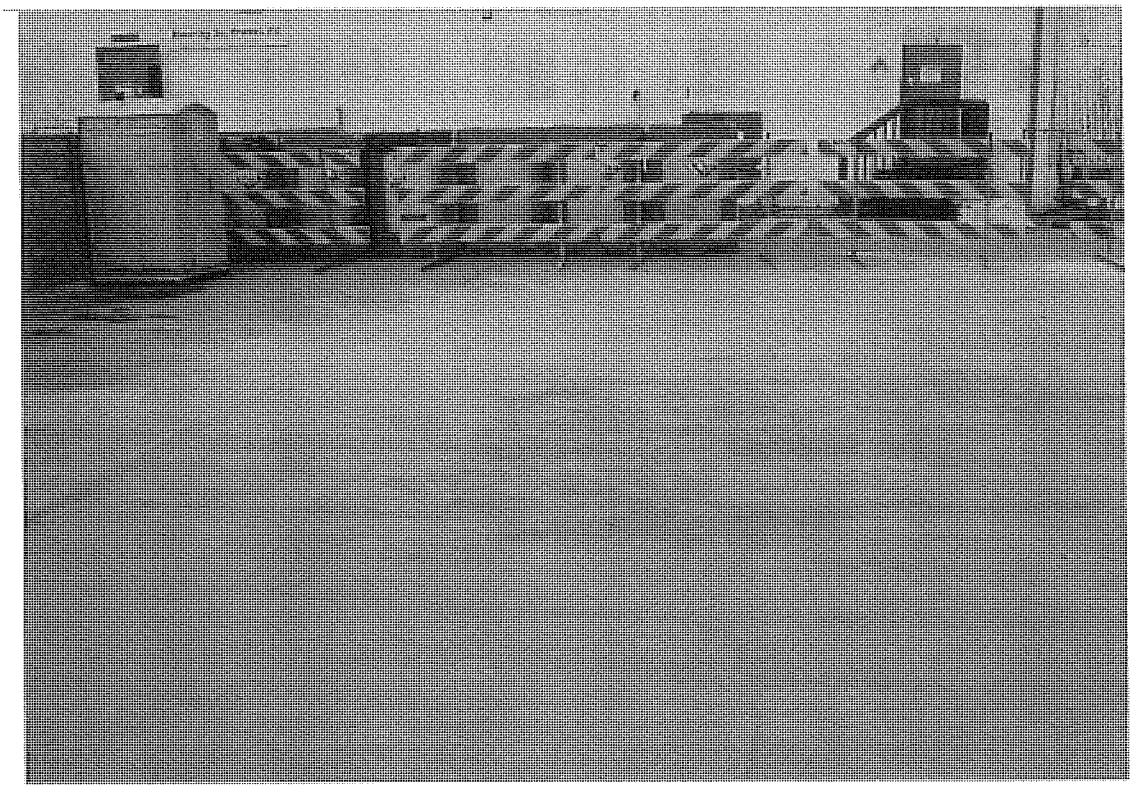
Excavation area. White flags indicate locations of confirmation samples.

6



Excavation area.

7

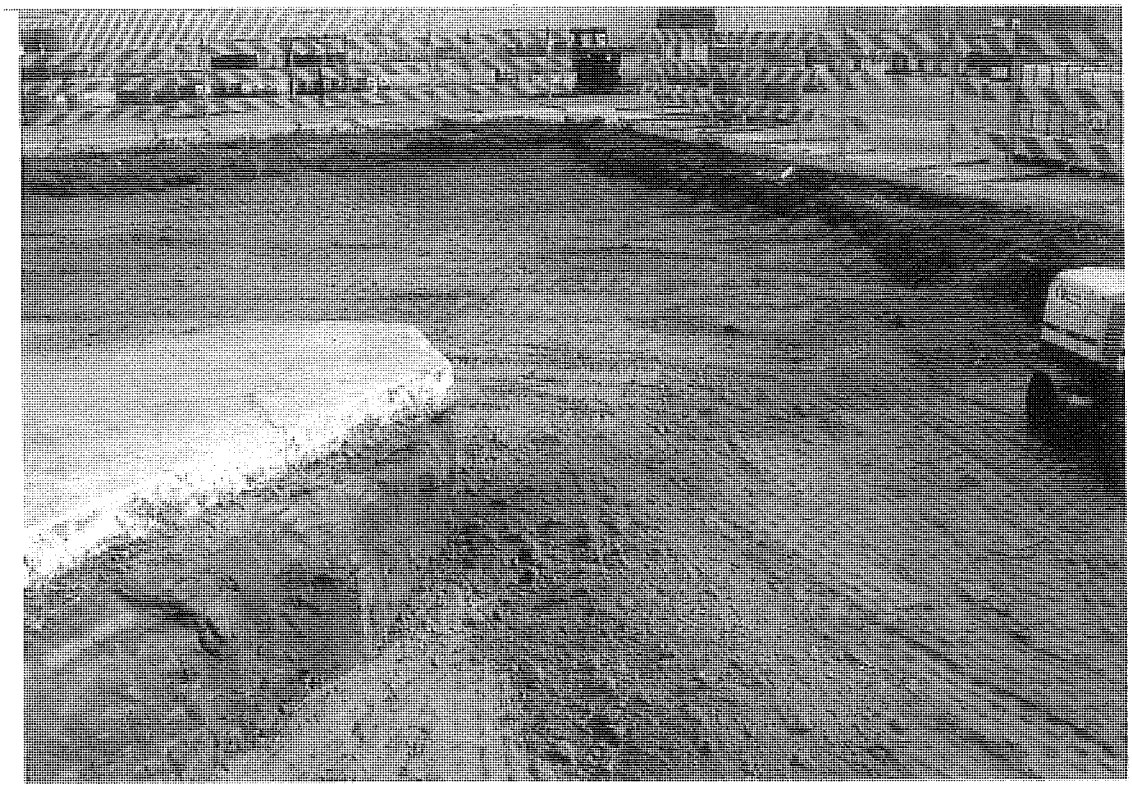


Concrete stockpile area after concrete was hauled off.

8

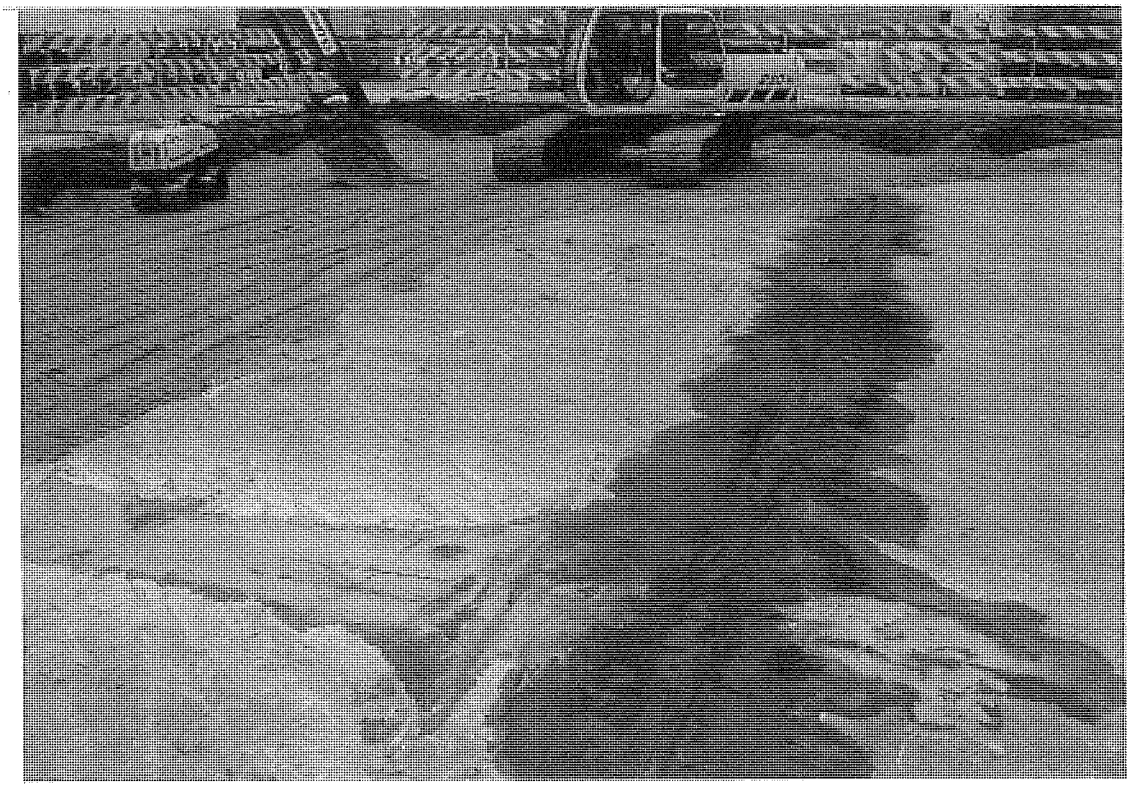
Compaction of clean backfill being performed in one foot lifts.

9



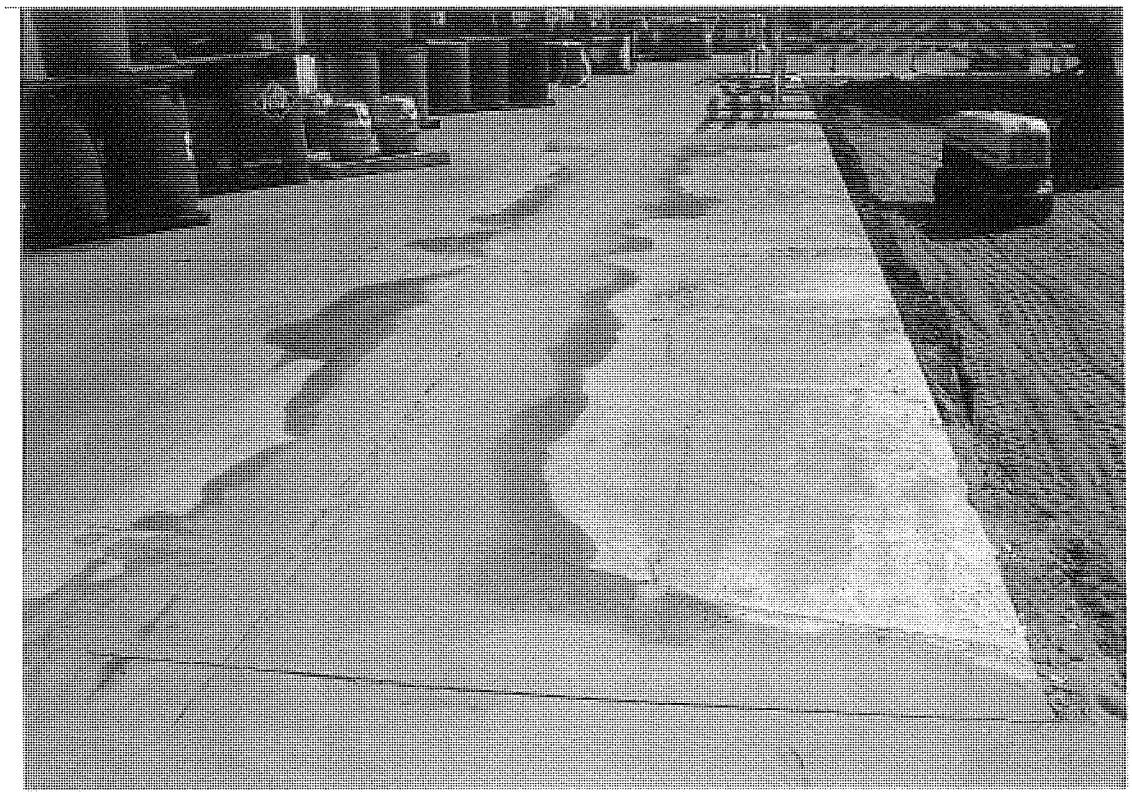
Compaction of clean backfill.

10



Cut lines showing area of over-excavation area around IRMS-CS-07.

11

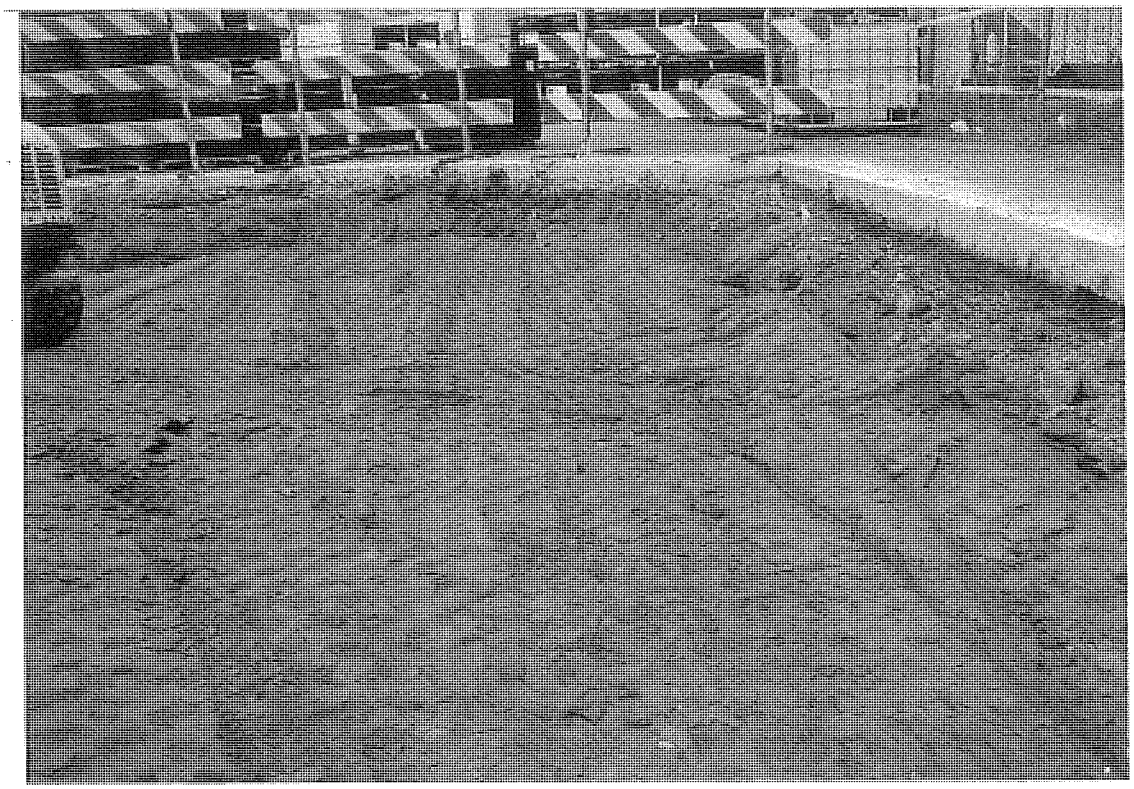


Cut lines showing area of over-excavation area around IRMS-CS-01.

12

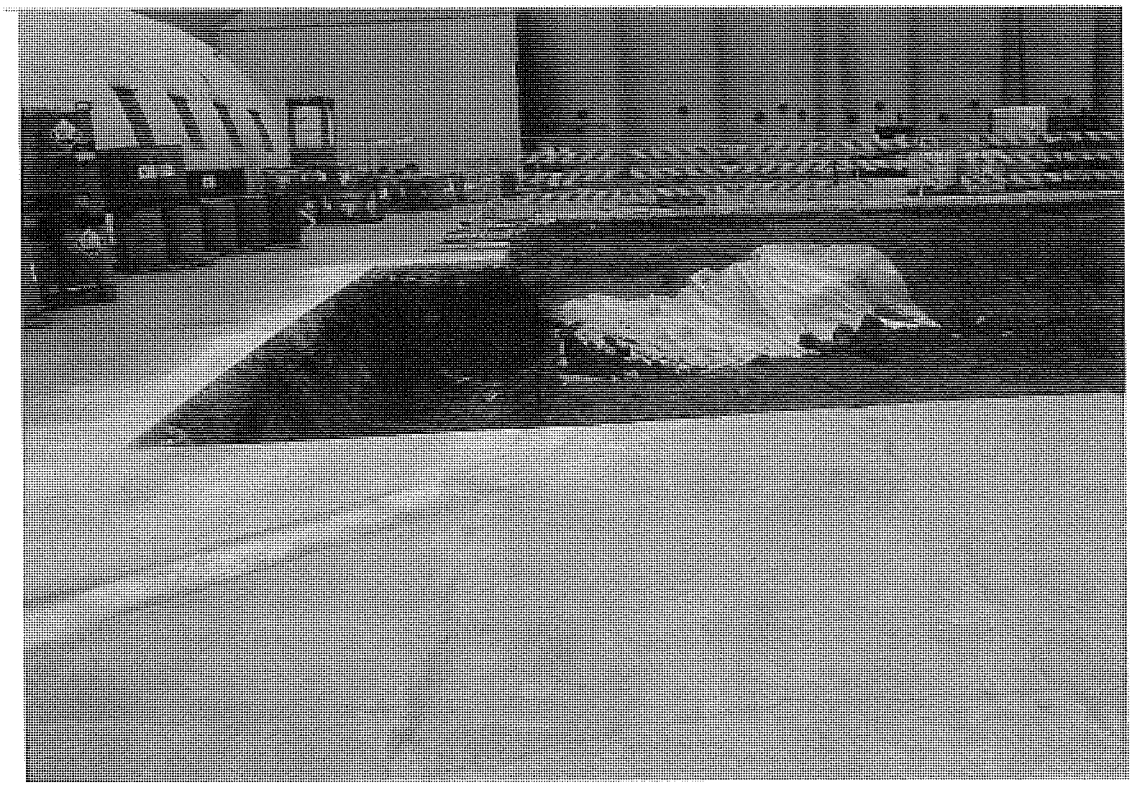
Backfill lift before compaction.

13



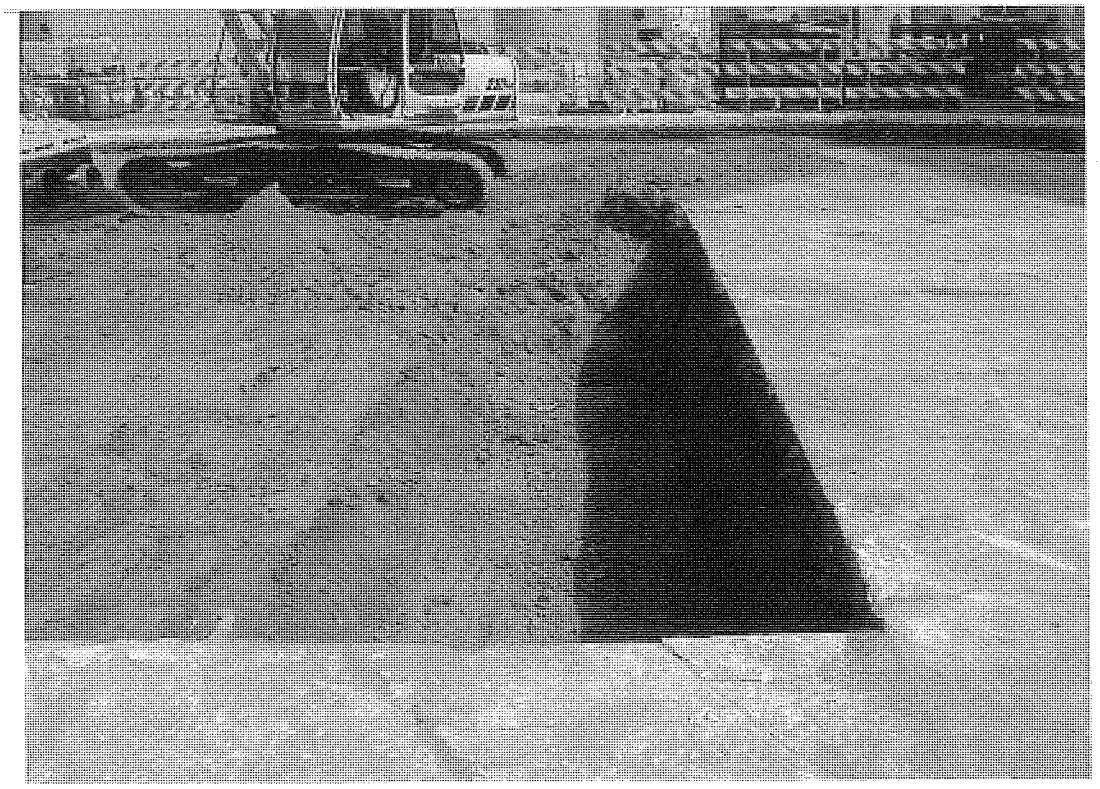
Backfill lift after compaction

14



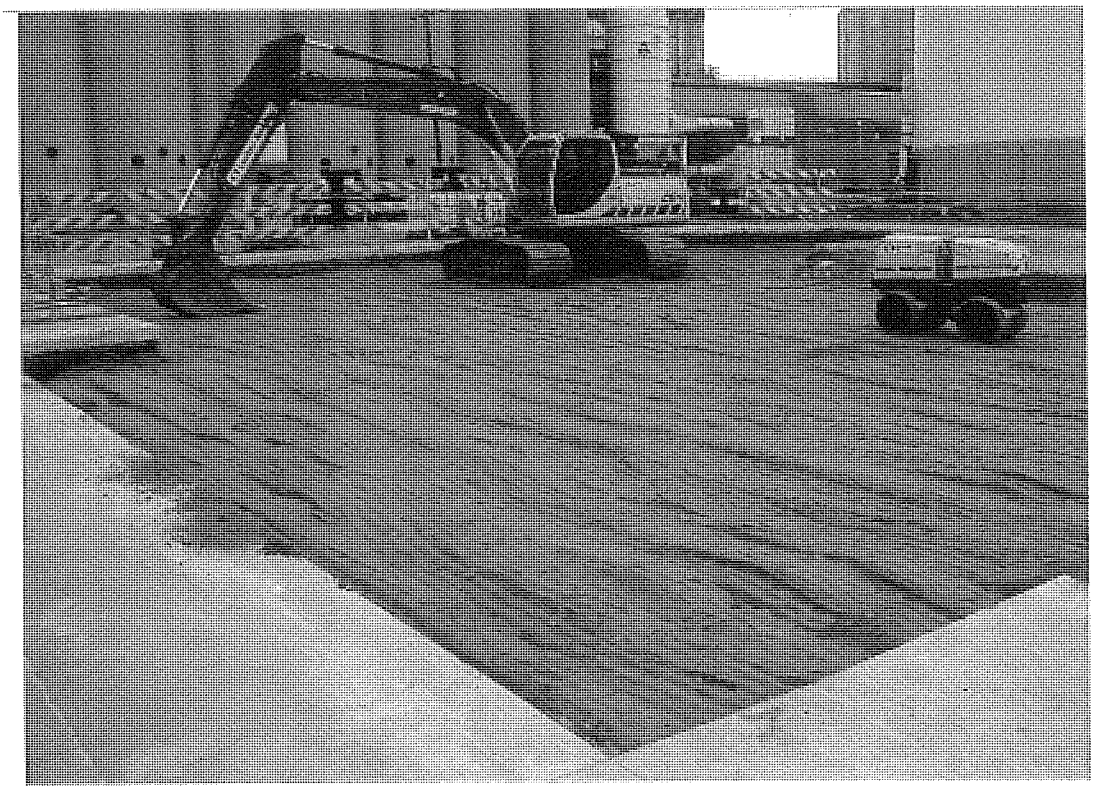
Over-excavation around IRMS-CS-01. The plastic in the photograph was laid across the entire west end of excavation area, since clean backfill was already laid in that area.

15



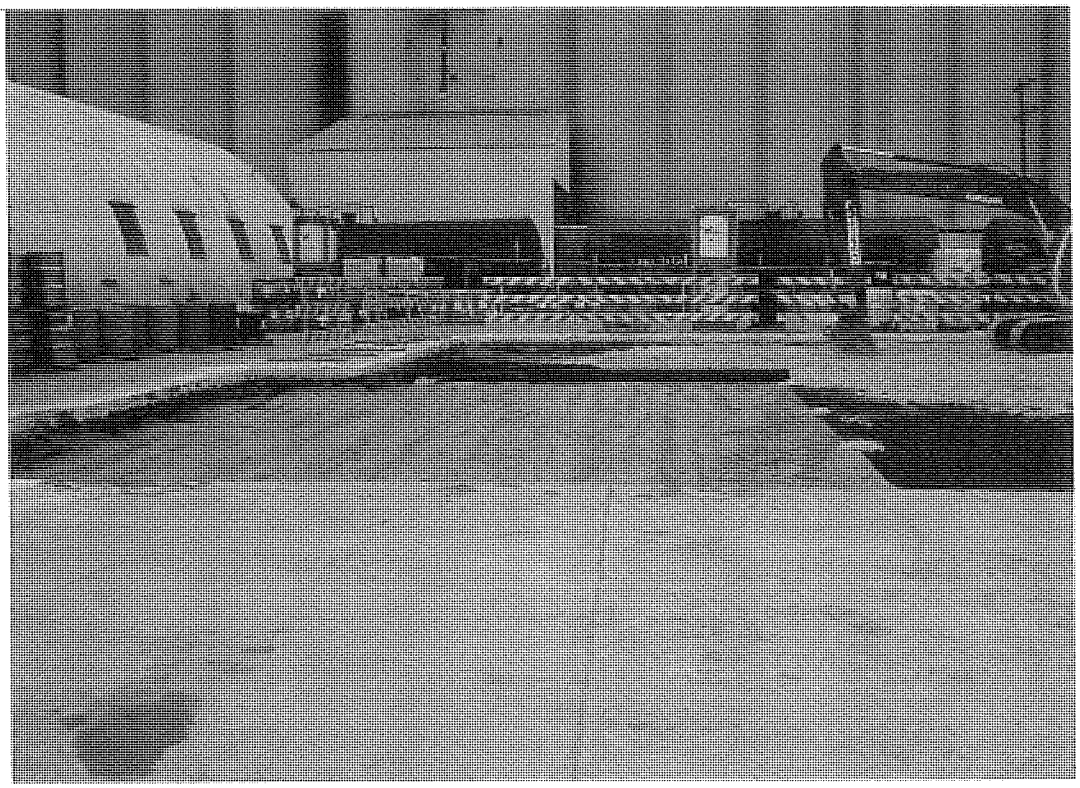
Over-excavation around IRMS-CS-07.

16



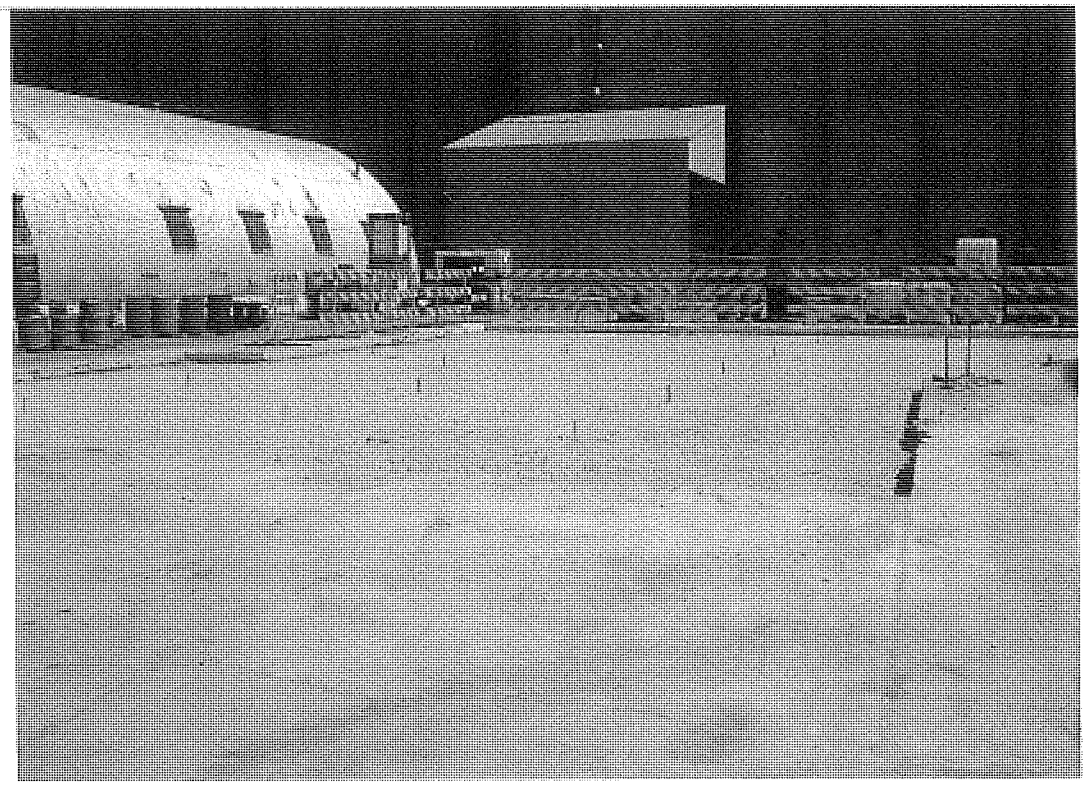
Backfill being compacted in over-excavated areas.

17



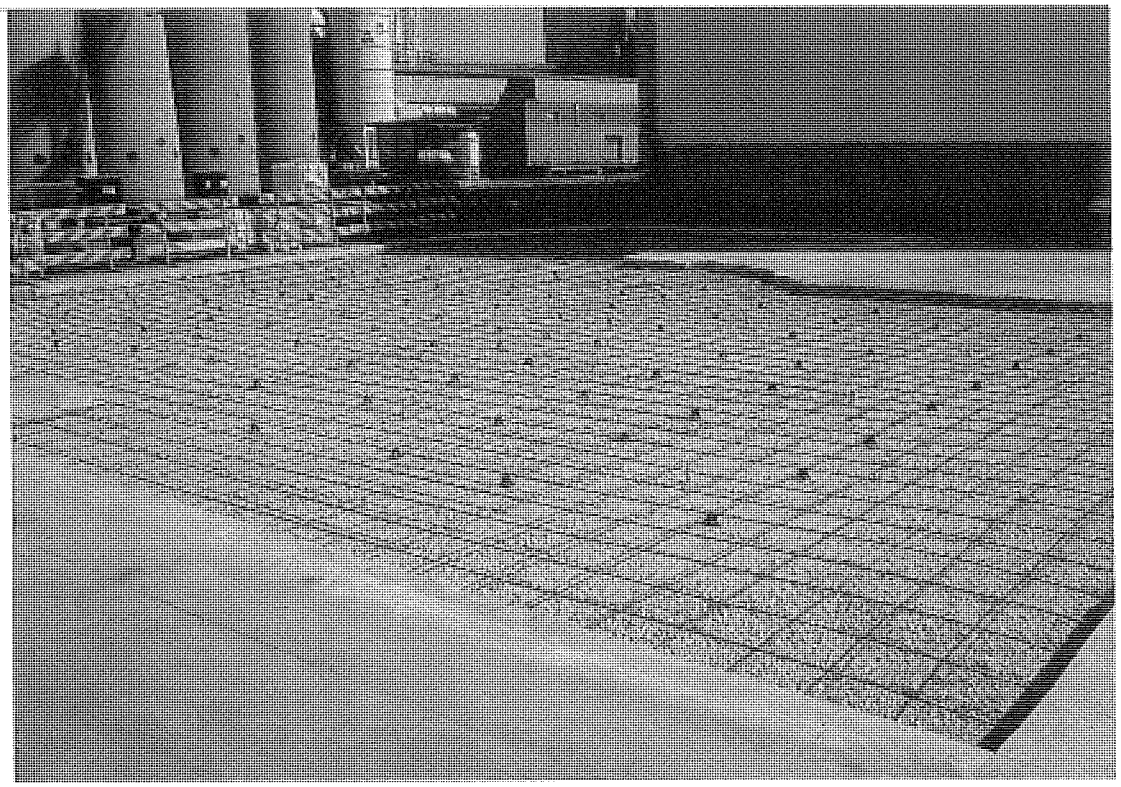
Geotextile fabris and a 12-inch coarse base rock being laid.

18



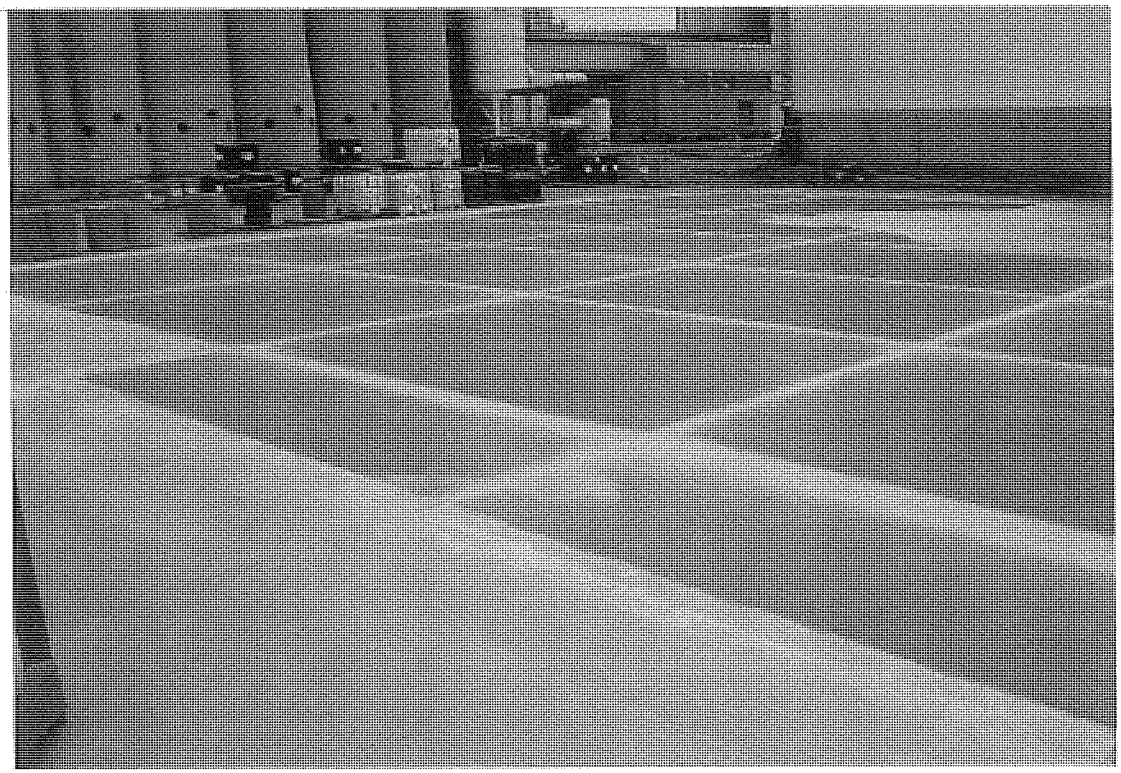
Final grade of base coarse.

19



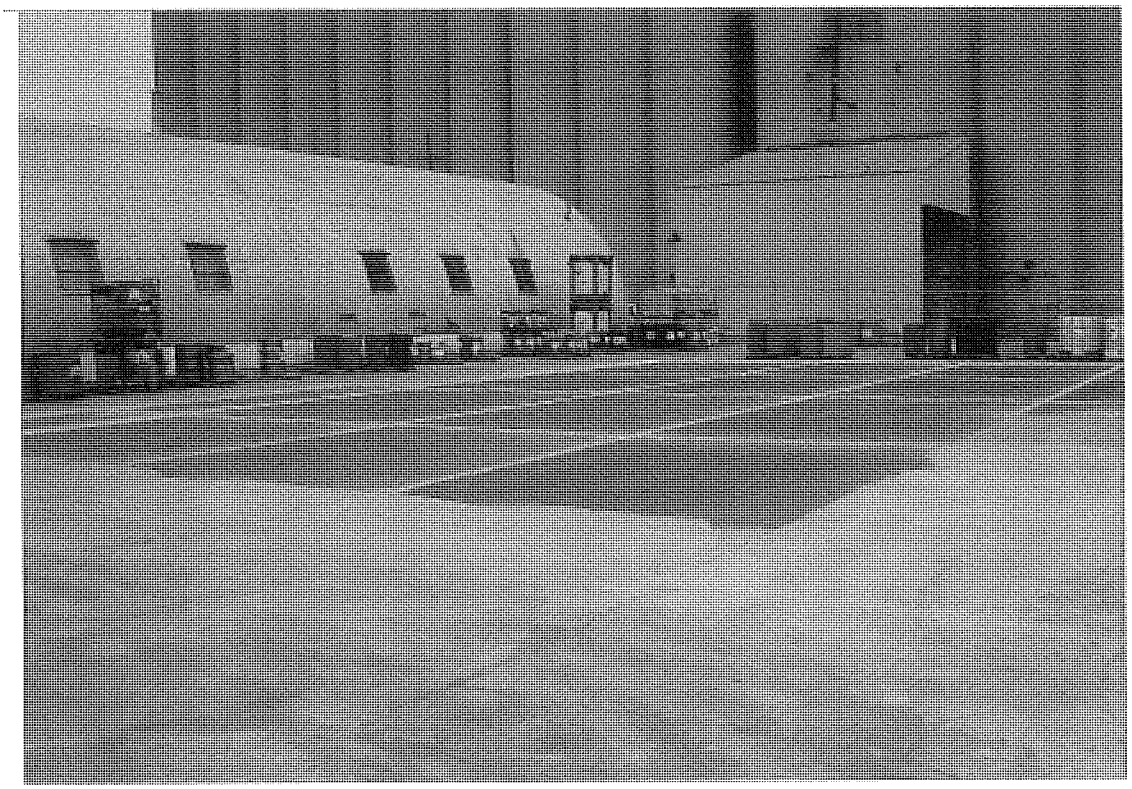
Reinforcement consisted of ¼ inch diameter rebar tied on 16-inch centers, floated four foot off base coarse with plastic chairs. Eight inches of concrete will be poured.

20



Finished concrete slab with expansion joints cut in place.

21



Finished concrete slab with expansion joints cut in place.

22

Finished concrete slab with expansion joints cut in place.

ATTACHMENT 5
DELIVERABLES

SURVEYED EXCAVATION VOLUME
WASTE MANAGEMENT ROLLING MEADOWS WEIGH TICKETS
NORTHRIDGE SAND BACKFILL WEIGH TICKETS
QUALITY CONTROL REPORTS FROM GEOTECHNICAL SERVICES

Savoy Company, P.A.
433 S. Hydraulic
Wichita, KS. 67211-1911

PH (316) 265-0005
FAX (316) 265-0275
www.savoyco.com

October 2, 2007

Excavation Volume
1520 N. Barwise
Wichita, Ks.

Site Volume Table: Unadjusted

	Cut †cu.yds	Fill †cu.yds	Net †cu.yds	Method
Site: NEW-VOL				
Stratum: newest b4 cut	683.1	0.0	683.1	(C) Composite

e-mailed 11/15/07

Driver's Signature

494171

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755256

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/28/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 250867
Destination
PO
Profile PM0706956 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier CUTTINGEDGE
Vehicle# 169
Container
Driver
Check#
Billing # 0000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound	Gross	71620 lbs
In	08/28/2007 12:00:31	Scale 1 (in)	DAH		Tare	29500 lbs
Out	08/28/2007 12:06:44	Scale 2 (out)	DAH		Net	42120 lb
			* Manual Weight		Tons	21.06

Comments

WEIGHTS ARE IN TONS

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	21.06	Tons	25.00		$526.50	
2	EVL-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$20.73	
4	COU-COUNTY HOST FE	100	21.06	Tons	1.50		$31.59	
5	STA-STATE SURCHARG	100	21.06	Tons	1.00		$21.06	
6	PRO-PROFILE SET UP	100	1	Each	100.00		$100.00	
7	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # RM070696

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: 8-28-07

TRANSPORTER: Curtis Kipe

№ 25867

GENERATOR: Brenntag Southwest, Inc. 1520 N Barwise, Wichita, KS

G. 71620
T. 29500

GENERATORS SIGNATURE: Ken Hamilt 8/28/07
DATE

CONTRACTOR & SIGNATURE: Hanna

WASTE DESCRIPTION: Tetrachloroethene & 1,2-DCA impacted soil

STATE AUTHORIZATION #: 07-0696 QUANTITY: 23 tons

ACCEPTED BY: Andrew Hanna Jr TIME: 8:45 07 TRUCK NO. 167
DATE

DRIVERS SIGNATURE: RK 8/28/07 BOX NO. _____ TONS/YARDS
DATE

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

Driver Signature

404175

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755259

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/28/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25868
Destination
PO
Profile RM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier CUTTINGEDGE
Vehicle# 166
Container
Driver
Check#
Billing # 00000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound	Gross	76000 lbs
In	08/28/2007 12:11:30	Scale 1 (in)	DAH		Tare	29700 lbs
Out	08/28/2007 12:13:39	Scale 2 (out)	DAH		Net	46300 lb
			* Manual Weight		Tons	23.15

Comments

WEIGHTS ARE IN TONS

Product		LIN	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoil-Pet-Tons-C	100	23.15	Tons	25.00		$578.75	
2	EVL-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$85.05	
4	COU-COUNTY HOST FE	100	23.15	Tons	1.50		$34.72	
5	STA-STATE SURCHARG	100	23.15	Tons	1.00		$23.15	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Charge $725.67

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # BN070696

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: 8-28-07

TRANSPORTER: Cattle Edge

№ 25868

GENERATOR: Brenntag Southwest, Inc. 1520 N Barwise, Wichita, KS

GENERATORS SIGNATURE: Kris Hamlin 8/28/07
DATE

G 76000
T 29700

CONTRACTOR & SIGNATURE: Helena

WASTE DESCRIPTION: Tetrachloroethene & 1,2-DCA impacted soil

STATE AUTHORIZATION #: 07-0696 QUANTITY: 23 tn

ACCEPTED BY: [illegible] TIME: 8:40 AM
DATE

TRUCK NO. 166

DRIVERS SIGNATURE: [illegible] 8/28/07
DATE

BOX NO. _____ TONS/YARDS

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

Driver's Signature

404179

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755261

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/28/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25919
Destination
PO
Profile RM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier CUTTINGEDGE
Vehicle# 02
Container
Driver
Check#
Billing # 0000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound	Gross	72960 lb*
In	08/28/2007 12:16:45	Scale 1 (in)	DAH		Tare	32000 lb*
Out	08/28/2007 12:17:59	Scale 2 (out)	DAH		Net	40960 lb
			* Manual Weight		Tons	20.44

Comments

WEIGHTS ARE IN TONS

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	20.44	Tons	25.00		$511.00	
2	SML-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$23.52	
4	COU-COUNTY HOST FE	100	20.44	Tons	1.50		$30.66	
5	STA-STATE SURCHARG	100	20.44	Tons	1.00		$20.44	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Tender

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # KN070696

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: 8 28 07

TRANSPORTER: Cutting Edge - HDB

GENERATOR: Brenntag Southwest, Inc. 1520 N Barwise, Wichita, KS

№ 25919

GENERATORS SIGNATURE: [illegible] 8/28/07
DATE

072960
T 32080

CONTRACTOR & SIGNATURE: [illegible]

WASTE DESCRIPTION: Tetrachloroethene & 1,2-DCA impacted soil

STATE AUTHORIZATION #: 07-0696 QUANTITY: 23 yds

ACCEPTED BY: [illegible] TIME: 8 28 07 TRUCK NO. 02
DATE

DRIVERS SIGNATURE: [illegible] / / BOX NO. TONS/YARDS
DATE

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

404185

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755263

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/28/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25920
Destination
PO
Profile PM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier HDRCONSTINC *
Vehicle# 41
Container
Driver
Check#
Billing # 0000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound	Gross	72420 lb*
In	08/28/2007 12:25:54	Scale 1 (in)	DAH		Tare	32700 lb*
Out	08/28/2007 12:26:51	Scale 2 (out)	DAH		Net	39720 lb
			* Manual Weight		Tons	19.86

Comments:

WEIGHTS ARE IN TONS

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	19.86	Tons	25.00		$496.50	
2	DVL-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$23.15	
4	COU-COUNTY HOST FE	100	19.86	Tons	1.50		$29.79	
5	STA-STATE SURCHARG	100	19.86	Tons	1.00		$19.86	
6	MAN-MANIFEST PRIN	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $573.30

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # RH070696

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: 8 28 07

TRANSPORTER: Cathy Lee - HDB

№ 25920

GENERATOR: Brenntag Southwest, Inc. 1320 N Barview, Wichita, KS

GENERATORS SIGNATURE: Ken Howell 8/28/07
DATE

6 12420
1, 32, 700

CONTRACTOR & SIGNATURE:

WASTE DESCRIPTION: Tetrachloroethene & 1,2-DCA impacted soil

STATE AUTHORIZATION #: 07-0696 1 QUANTITY: 22 tons

ACCEPTED BY: Rebecca Hayes TIME: 8:28:07 TRUCK NO. HDB 71
DATE

DRIVERS SIGNATURE: 8:28:07 BOX NO. _____ ____ TONS/YARDS
DATE

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

404186

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755265

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/28/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25921
Destination
PO
Profile RM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier FIVESTAR
Vehicle# 22
Container
Driver
Check#
Billing # 00000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/28/2007 12:28:44	Scale 1 (in)	DAH		Gross	78600 lbs
Out	08/28/2007 12:28:55	Scale 2 (out)	DAH		Tare	33860 lbs
			* Manual Weight		Net	44740 lb
					Tons	22.37

Comments

WEIGHTS ARE IN TONS

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	22.37	Tons	25.00		$559.25	
2	EVL-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.00		$26.05	
4	COU-COUNTY HOST FE	100	22.37	Tons	1.50		$33.56	
5	STO-STATE SURCHARG	100	22.37	Tons	1.00		$22.37	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Invoice

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # RH070696

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: 8 28 07

TRANSPORTER: [illegible]

№ 25921

GENERATOR: Brenntag Southwest, Inc. 1520 N Barwise, Wichita, KS

G 78600

GENERATORS SIGNATURE: [illegible] 8/28/07
DATE

T 33860

CONTRACTOR & SIGNATURE: [illegible]

WASTE DESCRIPTION: Tetrachloroethene & 1,2-DCA impacted soil

STATE AUTHORIZATION #: 07-0696 QUANTITY:

ACCEPTED BY: [illegible] TIME: 8 28 07 TRUCK NO. 22
DATE

DRIVERS SIGNATURE: [illegible] 8/28/07 BOX NO. TONS/YARDS
DATE

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

WASTE MANAGEMENT

404299

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0326

Original
Ticket# 755285

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/28/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25924
Destination
PO
Profile RM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier FIVESTAR
Vehicle# 35
Container
Driver
Check#
Billing # 00000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/28/2007 13:27:15	Scale 1 (in)	DAH		Gross	77100 lb
Out	08/28/2007 13:42:07	Scale 2 (out)	DAH		Tare	36060 lb
					Net	41040 lb
					Tons	20.52

Comments:

WEIGHTS ARE IN TONS

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPeb-Tons-C	100	20.52	Tons	25.00		$513.00	
2	ENV-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUE-Fuel Surcharg	100		%	4.20		$23.91	
4	COU-COUNTY HOST FE	100	20.52	Tons	1.50		$30.78	
5	STA-STATE SURCHARG	100	20.52	Tons	1.00		$20.52	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $591.21

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # BN070696

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: 8-28-07

TRANSPORTER: [illegible]

Nº 25924

GENERATOR: Brenntag Southwest, Inc. 1520 N Barwise, Wichita, KS

GENERATORS SIGNATURE: [illegible] 8/28/07
DATE

CONTRACTOR & SIGNATURE: [illegible]

WASTE DESCRIPTION: Tetrachloroethene & 1,2-DCA impacted soil

STATE AUTHORIZATION #: 07-0696 QUANTITY:

ACCEPTED BY: [illegible] TIME: 8-28-07 TRUCK NO. 55
DATE

DRIVERS SIGNATURE: [illegible] 8/28/07 BOX NO. 10 TONS/YARDS
DATE

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

Driver's Signature

404211

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0365

Original
Ticket# 755286

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/28/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 255922
Destination
PO
Profile RM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier FIVESTAR
Vehicle# 69
Container
Driver
Check#
Billing # 0000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/28/2007 13:30:06	Scale 1 (in)	DAH		Gross	60020 lb
Out	08/28/2007 13:47:32	Scale 2 (out)	DAH		Tare	29640 lb
					Net	30380 lb
					Tons	15.19

Comments

WEIGHTS ARE IN TONS

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoil Net-Tons-C	100	15.19	Tons	25.00		$379.75	
2	ENL-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$17.75	
4	COU-COUNTY HOST FE	100	15.19	Tons	1.50		$22.79	
5	STA-STATE SURCHARG	100	15.19	Tons	1.00		$15.19	
6	MAN-MANIFEST POINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $440.48

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # RN070696

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: 8-28-07

TRANSPORTER:

№ 25922

GENERATOR: Brenntag Southwest, Inc. 1520 N Barwise, Wichita, KS

GENERATORS SIGNATURE: 8/28/07
DATE

15.19 TONS

CONTRACTOR & SIGNATURE:

WASTE DESCRIPTION: Tetrachloroethene & 1,2-DCA impacted soil

STATE AUTHORIZATION #: 07-0696 QUANTITY:

ACCEPTED BY: TIME: 8-28-07 TRUCK NO: 69
DATE

DRIVERS SIGNATURE: 8/28/07 BOX NO. _____ TONS/YARDS
DATE

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

Driver's Signature

WASTE MANAGEMENT

404213

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755287

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/28/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25923
Destination
PO
Profile RM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier FIVESTAR
Vehicle# 39
Container
Driver
Check#
Billing # 0000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/28/2007 13:33:05	Scale 1 (in)	DAH		Gross	75900 lb
Out	08/28/2007 13:49:59	Scale 2 (out)	DAH		Tare	34440 lb
					Net	41460 lb
					Tons	20.73

Comments

WEIGHTS ARE IN TONS

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPeb-Tons-C	100	20.73	Tons	25.00		$518.25	
2	EVL Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$24.15	
4	COU-COUNTY HOST FE	100	20.73	Tons	1.50		$31.10	
5	STA-STATE SURCHARG	100	20.73	Tons	1.00		$20.73	
6	ADV MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $[illegible]

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # RM070696

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: 8 28 07

TRANSPORTER: Five Star

No 25923

GENERATOR: Brenntag Southwest, Inc. 1520 N Barwise, Wichita, KS

GENERATORS SIGNATURE: [illegible] 8/28/07
DATE

CONTRACTOR & SIGNATURE: [illegible]

WASTE DESCRIPTION: Tetrachloroethene & 1,2-DCA impacted soil

STATE AUTHORIZATION #: 07-0696 QUANTITY:

ACCEPTED BY: [illegible] TIME: 8/28/07 TRUCK NO. 39
DATE

DRIVERS SIGNATURE: [illegible] 8/28/07 BOX NO. 20.73 TONS/YARDS
DATE

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

434257

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755333

Customer Name	HULCHERSERVICES HULCHER SERVI	Carrier	HELLER
Ticket Date	08/28/2007	Vehicle#	16
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000655
State Waste Code		Gen EPA ID	
Manifest	25925		
Destination		Grid	
PO			
Profile	RM070696 (PCE CONTAMINATED SOIL)		
Generator	140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST		

Volume

	Time	Scale	Operator	Inbound		
In	08/28/2007 15:10:56	Scale 1 (in)	DAH		Gross	73320 lb
Out	08/28/2007 15:34:46	Scale 2 (out)	DAH		Tare	34900 lb
					Net	38420 lb
					Tons	19.21

Comments

WEIGHTS ARE IN TONS

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPcs-Tons-C	100	19.21	Tons	25.00		$480.25	
2	EVL-Env Fee Lg.	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$22.40	
4	COU-COUNTY COST FE	100	19.21	Tons	1.50		$28.82	
5	STA-STATE SURCHARG	100	19.21	Tons	1.00		$19.21	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $555.68

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # RN070696

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: 8-28-07

TRANSPORTER: [illegible]

Nº 25025

GENERATOR: Brenntag Southwest, Inc. 1520 N Barwise, Wichita, KS

GENERATORS SIGNATURE: [illegible] 8/28/07
DATE

CONTRACTOR & SIGNATURE: [illegible]

WASTE DESCRIPTION: Tetrachloroethene & 1,2-DCA impacted soil

STATE AUTHORIZATION #: 07-0696 QUANTITY:

ACCEPTED BY: [illegible] TIME: 8-28-07 TRUCK NO: 16
DATE

DRIVERS SIGNATURE: [illegible] / / BOX NO. 1921 (TONS) YARDS
DATE

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

Driver's Signature

404273

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755348

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/28/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 257928
Destination
PO
Profile RM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier HDBCONSTINC *
Vehicle# 2
Container
Driver
Check#
Billing # 0000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound	Gross	81200 lb
In	08/28/2007 16:40:19	Scale 1 (in)	DAH		Tare	32000 lb
Out	08/28/2007 16:56:28	Scale 2 (out)	DAH		Net	49200 lb
					Tons	24.64

Comments

WEIGHTS ARE IN TONS

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	24.64	Tons	25.00		$616.00	
2	ENL-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$28.67	
4	COU-COUNTY HOST FE	100	24.64	Tons	1.50		$36.96	
5	STA-STATE SUPCHARG	100	24.64	Tons	1.00		$24.64	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $711.27

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # RH070696

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: 8-28-07

TRANSPORTER: Chris Lyn HLS

№ 25928

GENERATOR: Bremtag Southwest, Inc. 1520 N Barwise, Wichita, KS

GENERATORS SIGNATURE: K. Houle 8/28/07
DATE

CONTRACTOR & SIGNATURE: Walker

WASTE DESCRIPTION: Tetrachloroethene & 1,2-DCA impacted soil

STATE AUTHORIZATION #: 07-0696 QUANTITY:

ACCEPTED BY: Graham Reed TIME: 08:28 A
DATE

TRUCK NO. HLS 02

DRIVERS SIGNATURE: Tom Vaal / /
DATE

BOX NO. 5440 TONS/YARDS

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

404274

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66610
Ph: 785-246-0305

Original
Ticket# 756350

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/28/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25929
Destination
PO
Profile RM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier HDBCONSTINC *
Vehicle# 41
Container
Driver
Check#
Billing # 0000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound	Gross	84280 lb
In	08/28/2007 17:08:10	Scale 1 (in)	DAH		Tare	32840 lb
Out	08/28/2007 17:23:41	Scale 2 (out)	DAH		Net	51440 lb
					Tons	25.72

Comments:

WEIGHTS ARE IN TONS

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	25.72	Tons	25.00		$643.00	
2	EVL-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$29.92	
4	COU-COUNTY HOST FE	100	25.72	Tons	1.50		$38.58	
5	STA-STATE SURCHARG	100	25.72	Tons	1.00		$25.72	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $741.22

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # RN070696

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: 8-28-07

TRANSPORTER: Central Ridge HDA

№ 25929

GENERATOR: Brenntag Southwest, Inc. 1520 N Barwise, Wichita, KS

GENERATORS SIGNATURE: Ken Schmidt 8/28/07
DATE

CONTRACTOR & SIGNATURE: Haulco

WASTE DESCRIPTION: Terrachloroethene & 1,2-DCA impacted soil

STATE AUTHORIZATION #: 07-0696 QUANTITY:

ACCEPTED BY: Gordon Wise TIME: 8/28/07 TRUCK NO. H-E 41
DATE

DRIVERS SIGNATURE: / / BOX NO. 9.5 TONS/YARDS
DATE

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

Driver's Signature

404275

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755351

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/29/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 259030
Destination
PO
Profile RM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier HELLER
Vehicle# 22
Container
Driver
Check#
Billing # 0000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound	Gross	86860 lb
In	08/29/2007 06:33:39	Scale 1 (in)	DAH		Tare	34500 lb
Out	08/29/2007 06:50:42	Scale 2 (out)	DAH		Net	52360 lb
					Tons	26.18

Comments

WEIGHTS ARE IN TONS

	Product	LP%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPer-Tons-C	100	26.18	Tons	25.00		$653.50	
2	EML-Env Fee Lg.	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$30.40	
4	COU-COUNTY HOST FE	100	26.18	Tons	1.50		$39.27	
5	STO-STATE SURCHARG	100	26.18	Tons	1.04		$26.14	
6	MAN-MANIFEST FEES	100	1	Each	1.00		$1.00	

Total Tons 26.18

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # RN070696

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: 8-28-07

TRANSPORTER: Five Star - Heller

№ 25930

GENERATOR: Bremtag Southwest, Inc. 1520 N Barwise, Wichita, KS

GENERATORS SIGNATURE: [illegible] 8-28-07
DATE

CONTRACTOR & SIGNATURE: [illegible]

WASTE DESCRIPTION: Tetrachloroethene & 1,2-DCA impacted soil

STATE AUTHORIZATION#: 07-0696 QUANTITY:

ACCEPTED BY: [illegible] TIME: 8:29 07
DATE

TRUCK NO. 22

DRIVERS SIGNATURE: [illegible] 8-29-07
DATE

BOX NO. 26.14 TONS/YARDS

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

404276

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755352

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/29/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 257926
Destination
PO
Profile RM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier CUTTINGEDGE
Vehicle# 169
Container
Driver
Check#
Billing # 0000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/29/2007 06:35:27	Scale 1 (in)	DAH		Gross	73000 lb
Out	08/29/2007 06:51:59	Scale 2 (out)	DAH		Tare	30020 lb
					Net	43780 lb
					Tons	21.89

Comments:

WEIGHTS ARE IN TONS

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	21.89	Tons	25.00		$547.25	
2	EVL-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.00		$25.45	
4	COU-COUNTY HOST FE	100	21.89	Tons	1.50		$32.84	
5	STA-STATE SURCHARG	100	21.89	Tons	1.00		$21.89	
6	NON-NONHAZ TEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $630.43

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # RN070696

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: 8 28 07

TRANSPORTER:

№ 25926

GENERATOR: Brenntag Southwest, Inc. 1520 N Barwise, Wichita, KS

GENERATOR'S SIGNATURE: 8 / 7 / 07
DATE

CONTRACTOR & SIGNATURE:

WASTE DESCRIPTION: Tetrachloroethene & 1,2-DCA impacted soil

STATE AUTHORIZATION #: 07-0696 QUANTITY:

ACCEPTED BY: TIME: 8/29/07 THUCK NO.: 167
DATE

DRIVERS SIGNATURE: 8 / 28 / 07 BOX NO.: 2189 TONS/YARDS
DATE

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

404277

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755353

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/29/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25527
Destination
PO
Profile RM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier CUTTINGEDGE
Vehicle# 166
Container
Driver
Check#
Billing # 0000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/29/2007 06:36:52	Scale 1 (in)	DAH		Gross	77000 lb
Out	08/29/2007 06:53:09	Scale 2 (out)	DAH		Tare	30060 lb
					Net	46940 lb
					Tons	23.47

Comments

WEIGHTS ARE IN TONS

Product		LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont3oil Pet-Tons-U	100	23.47	Tons	25.00		$586.75	
2	ENL-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$27.36	
4	COU-COUNTY HOST FE	100	23.47	Tons	1.50		$35.21	
5	STP-STATE SURCHARG	100	23.47	Tons	1.00		$23.47	
6	MAN-MANIFEST MAINT	100	1	Each	1.00		$1.00	

Non-Tax
Total Tax $27.36

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # RH070696

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: 8-29-07

TRANSPORTER: [illegible]

Nº 25927

GENERATOR: Brenntag Southwest, Inc. 1520 N Barwise, Wichita, KS

GENERATORS SIGNATURE: [illegible] 8/28/07
DATE

CONTRACTOR & SIGNATURE: [illegible]

WASTE DESCRIPTION: Tetrachloroethene & 1,2-DCA impacted soil

STATE AUTHORIZATION #: 07-0696 QUANTITY:

ACCEPTED BY: [illegible] TIME: 8:29:07 TRUCK NO. 166
DATE

DRIVERS SIGNATURE: [illegible] 8/29 BOX NO. 23.47 TONS/YARDS
DATE

WHITE - TRANSPORTER COPY + YELLOW - SITE COPY + PINK - GENERATOR COPY + GOLD - CONTRACTOR COPY

404302

WASTE MANAGEMENT

ROLLINS MEADOWS NDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0325

Original
Ticket# 755377

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/29/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 55031
Destination
PO
Profile FM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUTHWEST BRENNTAG SOUTHWEST

Carrier FIVESTAR
Vehicle# 35
Container
Driver
Check#
Billing # 0000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound	Gross	63820 lb
In	08/29/2007 08:20:14	Scale 1 (in)	DHH		Tare	46200 lb
Out	08/29/2007 08:33:49	Scale 2 (out)	DHH		Net	17620 lb
					Tons	8.77

Comments:

WEIGHTS ARE IN TONS

Product		LOC	Qty	UOM	Rate	Tax	Amount	Origin
1	Contaminated-Tons-C	100	26.77	Tons	25.00		$669.25	
2	EVL-Env Fee Lg.	100	1	Load	4.00		$4.00	
3	FUEL Fuel Surcharg	100		%	4.20		$2.86	
4	COLE-COUNTY HOST FE	100	26.77	Tons	1.50		$39.16	
5	STA-STATE HAZ-HAZ-	100	26.77	Tons	1.00		$26.77	
6	MOB-MOBILE-EST FRONT	100	1	Each	1.00		$1.00	

Total Tax
Amount Tendered

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # RM070696

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: 8-28-07

TRANSPORTER: S. Sec

№ 25931

GENERATOR: Brenntag Southwest, Inc. 1520 N Barwise, Wichita, KS

GENERATORS SIGNATURE: [illegible] 8-28-07
DATE

CONTRACTOR & SIGNATURE: Hulcan

WASTE DESCRIPTION: Tetrachloroethene & 1,2-DCA impacted soil

STATE AUTHORIZATION #: 07-0696 QUANTITY:

ACCEPTED BY: Debbie Haney TIME: 8-29-07 TRUCK NO: 35
DATE

DRIVERS SIGNATURE: [illegible] 8-29-07 BOX NO. 53 TONS/YARDS
DATE

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

404321

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755397

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/29/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25933
Destination
PO
Profile RM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier HARRISON
Vehicle# 25
Container
Driver
Check#
Billing # 0000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/29/2007 09:26:10	Scale 1 (in)	LD		Gross	73660 lb
Out	08/29/2007 09:44:00	Scale 2 (out)	LD		Tare	31360 lb
					Net	42300 lb
					Tons	21.15

Comments:

WEIGHTS ARE IN TONS

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	21.15	Tons	25.00		$528.75	
2	EM-Env Fee Lq. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.70		$24.84	
4	COU-COUNTY HOST FE	100	21.15	Tons	1.50		$31.73	
5	STA-STATE SURCHARG	100	21.15	Tons	1.00		$21.15	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $611.27

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # RN070696

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: 8 29 07

TRANSPORTER: [illegible]

№ 25933

GENERATOR: Brenntag Southwest, Inc. 1520 N Barwise, Wichita, KS

GENERATORS SIGNATURE: [illegible] 8/29/07
DATE

CONTRACTOR & SIGNATURE: [illegible]

WASTE DESCRIPTION: Tetrachloroethene & 1,2-DCA impacted soil

STATE AUTHORIZATION #: 07-0696 QUANTITY:

ACCEPTED BY: [illegible] TIME: 8 29 07 TRUCK NO. 25
DATE

DRIVERS SIGNATURE: [illegible] / / BOX NO. 2 1/2 TONS/YARDS
DATE

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

404323

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66610
Ph.: 785-246-0305

Original
Ticket# 785330

Customer Name HULCHERSERVICES HULCHER SERVI Carrier HDRCONSTINC *
Ticket Date 08/29/2007 Vehicle# 2 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0000655
State Waste Code Gen EPA ID
Manifest 25932
Destination Grid
PO
Profile RM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUTHWEST BRENNTAG SOUTHWEST

	Time	Scale	Operator	Inbound		
In	08/29/2007 09:27:54	Scale 1 (in)	LD		Gross	76440 lb
Out	08/29/2007 09:50:19	Scale 2 (out)	LD		Tare	32060 lb
					Net	44380 lb
					Tons	22.19

Comments

WEIGHTS ARE IN TONS

Product		LIM	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	22.19	Tons	25.00		$554.75	
2	EAL-Env Fee L.g.	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.50		$25.24	
4	TOX-COUNTY HOST F	100	22.19	Tons	1.50		$33.29	
5	STA-STATE SURCHRG	100	22.19	Tons	1.00		$22.19	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tickets

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # RR070696

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: 8-29-07

TRANSPORTER: [illegible]

№ 25932

GENERATOR: Brenntag Southwest, Inc. 1520 N Barwise, Wichita, KS

GENERATORS SIGNATURE: [illegible] 8-29-07
DATE

CONTRACTOR & SIGNATURE: [illegible]

WASTE DESCRIPTION: Tetrachloroethene & 1,2-DCA impacted soil

STATE AUTHORIZATION #: 07-0696 QUANTITY:

ACCEPTED BY: [illegible] TIME: 8 29 07 TRUCK NO. HDS 02
DATE

DRIVERS SIGNATURE: [illegible] / / BOX NO.: 19 (TONS/YARDS)
DATE

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

Driver's Signature

404325

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755461

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/29/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25934
Destination
PO
Profile RM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier HELLER
Vehicle# 16
Container
Driver
Check#
Billing # 0000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/29/2007 09:38:59	Scale 1 (in)	LD		Gross	81520 lb
Out	08/29/2007 09:55:23	Scale 2 (out)	LD		Tare	34980 lb
					Net	46540 lb
					Tons	23.27

Comments

WEIGHTS ARE IN TONS

Product		LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	23.27	Tons	25.00		$581.75	
2	EVL-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$27.09	
4	LOU-COUNTY HUGS FE	100	23.27	Tons	1.50		$34.91	
5	STA-STATE SURCHARG	100	23.27	Tons	1.00		$23.27	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $670.82

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # BM070696

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WM WASTE MANAGEMENT

DATE: 8-27-07

TRANSPORTER: Fl. SWF

Nº 25934

GENERATOR: Drenatag Southwest, Inc. 1520 N Service, Wichita, KS

GENERATORS SIGNATURE: [illegible] 08/27/07
DATE

CONTRACTOR & SIGNATURE: [illegible]

WASTE DESCRIPTION: Tetrachloroethene & 1,2-DCA impacted soil

STATE AUTHORIZATION #: 07-0696 QUANTITY:

ACCEPTED BY: [illegible] TIME: 8:00 AM
DATE

TRUCK NO. 16

DRIVERS SIGNATURE: [illegible] / /
DATE

BOX NO.

TONS/YARDS 22

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

Driver's Signature

404346

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755423

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/29/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25937
Destination
PO
Profile RM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier HDBCONSTINC *
Vehicle# 41
Container
Driver
Check#
Billing # 0000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/29/2007 10:46:38	Scale 1 (in)	LD		Gross	72700 lb
Out	08/29/2007 10:59:11	Scale 2 (out)	LD		Tare	31920 lb
					Net	40780 lb
					Tons	20.39

Comments

WEIGHTS ARE IN TONS

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPeb-Tons-C	100	20.39	Tons	25.00		$509.75	
2	EVL-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$23.76	
4	COU-COUNTY HOST FE	100	20.39	Tons	1.50		$30.59	
5	STA-STATE SURCHARG	100	20.39	Tons	1.00		$20.39	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Tickets $593.49

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # KND70696

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: 8-29-07

TRANSPORTER: [illegible]

№ 25937

GENERATOR: Brenntag Southwest, Inc. 1520 N Darwin, Wichita, KS

GENERATORS SIGNATURE: [illegible] 8/29/07
DATE

CONTRACTOR & SIGNATURE: [illegible]

WASTE DESCRIPTION: Tetrachloroethene & 1,2-DCA impacted soil

STATE AUTHORIZATION # 07-0696 QUANTITY:

ACCEPTED BY: [illegible] TIME 8 AM/PM TRUCK NO. 108 41
DATE

DRIVERS SIGNATURE: [illegible] / / DATE BOX NO. 20 TONS/YARDS

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

Driver's Signature

404351

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755426

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/29/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 257936
Destination
PO
Profile RM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier FIVESTAR
Vehicle# 69
Container
Driver
Check#
Billing # 0000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/29/2007 10:55:39	Scale 1 (in)	LD		Gross	69580 lb
Out	08/29/2007 11:12:26	Scale 2 (out)	LD		Tare	30440 lb
					Net	39140 lb
					Tons	19.57

Comments

WEIGHTS ARE IN TONS

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	19.57	Tons	25.00		$489.25	
2	EVL-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$22.81	
4	COU-COUNTY HOST FE	100	19.57	Tons	1.50		$29.36	
5	STA-STATE SURCHARG	100	19.57	Tons	1.00		$19.57	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Tendered $[illegible]

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # KK070696

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: 8-29-07

TRANSPORTER: [illegible]

№ 25936

GENERATOR: Brenntag Southwest, Inc. 1520 N Barwise, Wichita, KS

GENERATORS SIGNATURE: [illegible] 8/29/07
DATE

CONTRACTOR & SIGNATURE: [illegible]

WASTE DESCRIPTION: Tetrachloroethene & 1,2-DCA impacted soil

STATE AUTHORIZATION #: 07-0696 QUANTITY:

ACCEPTED BY: [illegible] TIME: 8/29/07 TRUCK NO: 67
DATE

DRIVERS SIGNATURE: [illegible] / / DATE BOX NO: 1952 (TONS/YARDS)

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

Customer Signature

404350

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 753427

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/29/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25935
Destination
PO
Profile RM0706/96 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier FIVESTAR
Vehicle# 39
Container
Driver
Check#
Billing # 0000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/29/2007 10:57:15	Scale 1 (in)	LD		Gross	72400 lb
Out	08/29/2007 11:11:16	Scale 2 (out)	LD		Tare	34280 lb
					Net	38120 lb
					Tons	19.06

Comments

WEIGHTS ARE IN TONS

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	19.06	Tons	25.00		$476.50	
2	EVL-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$22.22	
4	COU-COUNTY HOST FE	100	19.06	Tons	1.50		$28.59	
5	STA-STATE SURCHARG	100	19.06	Tons	1.00		$19.06	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $55[illegible].27

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # EH070696

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: 8-29-07

TRANSPORTER: Five Star

№ 25935

GENERATOR: Brenntag Southwest, Inc. 1520 N Barwise, Wichita, KS

GENERATORS SIGNATURE: [illegible] 8/29/07
DATE

CONTRACTOR & SIGNATURE: [illegible]

WASTE DESCRIPTION: Tetrachloroethene & 1,2-DCA impacted soil

STATE AUTHORIZATION #: 07-0696

QUANTITY:

ACCEPTED BY: [illegible] TIME: 8:29:07 TRUCK NO. 39 19 CY
DATE

DRIVERS SIGNATURE: [illegible] 8/29/07 BOX NO. _____ TONS/YARDS
DATE

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

Driver's Signature

404379

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755456

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/29/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25938
Destination
PO
Profile RM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier CUTTINGEDGE
Vehicle# 169
Container
Driver
Check#
Billing # 0000635
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/29/2007 12:44:43	Scale 1 (in)	DAH		Gross	88440 lb
Out	08/29/2007 12:59:33	Scale 2 (out)	DAH		Tare	29960 lb
					Net	58480 lb
					Tons	29.24

Comments

WEIGHTS ARE IN TONS

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	29.24	Tons	25.00		$731.00	
2	EVL-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$33.98	
4	COU-COUNTY HOST FE	100	29.24	Tons	1.50		$43.86	
5	STA-STATE SURCHARG	100	29.24	Tons	1.00		$29.24	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $843.08

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # [illegible]

Rolling Meadows Recycling & Disposal Facility

DISPOSAL SITE

WASTE MANAGEMENT

DATE: [illegible]

TRANSPORTER: [illegible]

№ 25535

GENERATOR: Breakline Southwest, Inc., 1320 W Kaiser, Wichita, KS

GENERATORS SIGNATURE: [illegible]

DATE

CONTRACTOR & SIGNATURE: [illegible]

WASTE DESCRIPTION: Petroleum Contaminated Soil & Debris - NOA Impacted Soil

STATE AUTHORIZATION #: 07-0896 QUANTITY: [illegible]

ACCEPTED BY: [illegible] TIME: [illegible] TRUCK NO. [illegible]

DATE

DRIVERS SIGNATURE: [illegible] 3/29/07 BOX NO. [illegible] TONS/YARDS

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

Driver's Signature

404381

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755458

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/29/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25869
Destination
PO
Profile RP070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUTHWEST BRENNTAG SOUTHWEST

Carrier CUTTINGEDGE
Vehicle# 166
Container
Driver
Check#
Billing # 0000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/29/2007 12:46:42	Scale 1 (in)	DAH		Gross	80480 lb
Out	08/29/2007 13:02:20	Scale 2 (out)	DAH		Tare	29640 lb
					Net	50840 lb
					Tons	25.42

Comments

WEIGHTS ARE IN TONS

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	25.42	Tons	25.00		$635.50	
2	EVL-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surchary	100		%	4.20		$29.57	
4	COU-COUNTY HOST FE	100	25.42	Tons	1.50		$38.13	
5	STA-STATE SURCHARG	100	25.42	Tons	1.00		$25.42	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $733.62

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # [illegible]

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: [illegible]

TRANSPORTER: [illegible]

№ 25869

GENERATOR: [illegible]

GENERATOR'S SIGNATURE: [illegible] / / DATE

CONTRACTOR & SIGNATURE: [illegible]

WASTE DESCRIPTION: [illegible]

STATE AUTHORIZATION #: [illegible] QUANTITY: [illegible]

ACCEPTED BY: [illegible] TIME: [illegible] / / DATE TRUCK NO. [illegible]

DRIVER'S SIGNATURE: [illegible] / / DATE BOX NO. [illegible] TONS/YARDS

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

Driver's Signature

404388

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755459

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/29/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25870
Destination
PO
Profile RM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier HELLER
Vehicle# 22
Container
Driver
Check#
Billing # 00000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/29/2007 12:47:59	Scale 1 (in)	DGH		Gross	93320 lb
Out	08/29/2007 13:16:38	Scale 2 (out)	LD		Tare	33600 lb
					Net	59720 lb
					Tons	29.86

Comments

WEIGHTS ARE IN TONS

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	29.86	Tons	25.00		$746.50	
2	EVL-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$34.70	
4	COU-COUNTY HOST FE	100	29.86	Tons	1.50		$44.79	
5	STA-STATE SURCHARG	100	29.86	Tons	1.00		$29.86	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $900.85

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # [illegible]

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: _____

TRANSPORTER: _____

№ 25670

GENERATOR: [illegible]

GENERATORS SIGNATURE: _____ / / _____
DATE

CONTRACTOR & SIGNATURE: _____

WASTE DESCRIPTION: [illegible]

STATE AUTHORIZATION #: [illegible] QUANTITY: _____

ACCEPTED BY: _____ TIME: _____ / / _____ TRUCK NO. _____
DATE

DRIVERS SIGNATURE: _____ / / _____ BOX NO. _____ TONS/YARDS
DATE

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

Driver's Signature

404405

WASTE MANAGEMENT

ROLLING MEADOWS RDF
2351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755482

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/29/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25871
Destination
PO
Profile RM070656 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier FIVESTAR
Vehicle# 35
Container
Driver
Check#
Billing # 00000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/29/2007 13:53:43	Scale 1 (in)	LD		Gross	86980 lb
Out	08/29/2007 14:06:06	Scale 2 (out)	LD		Tare	35860 lb
					Net	51120 lb
					Tons	25.56

Comments:

WEIGHTS ARE IN TONS

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	25.56	Tons	25.00		$639.00	
2	ENL-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$29.73	
4	COU-COUNTY HOST FE	100	25.56	Tons	1.50		$38.34	
5	STA-STATE SURCHARGS	100	25.56	Tons	1.00		$25.56	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $737.63

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # [illegible]

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: [illegible]

TRANSPORTER: [illegible]

№ 25871

GENERATOR: [illegible]

GENERATORS SIGNATURE: [illegible] / / DATE

CONTRACTOR & SIGNATURE: [illegible]

WASTE DESCRIPTION: [illegible]

STATE AUTHORIZATION #: [illegible] QUANTITY: [illegible]

ACCEPTED BY: [illegible] TIME: [illegible] / [illegible] TRUCK NO. [illegible]
DATE

DRIVERS SIGNATURE: [illegible] / / BOX NO. [illegible] TONS/YARDS
DATE

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

Driver's Signature

404433

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755504

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/29/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25872
Destination
PO
Profile M0070696, (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUTHWEST BRENNTAG SOUTHWEST

Carrier HELLER
Vehicle# 16
Container
Driver
Check#
Billing # 00000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/29/2007 14:56:49	Scale 1 (in) LD			Gross	97560 lb
Out	08/29/2007 15:36:37	Scale 2 (out) LD			Tare	35360 lb
					Net	62200 lb
					Tons	31.10

Comments

WEIGHTS ARE IN TONS

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	31.10	Tons	25.00		$777.50	
2	EVL-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$36.13	
4	COU-COUNTY HOST FE	100	31.10	Tons	1.50		$46.65	
5	STA-STATE SURCHARG	100	31.10	Tons	1.00		$31.10	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $896.38

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # [illegible]

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WM WASTE MANAGEMENT

№ 25372

DATE: [illegible]

TRANSPORTER: [illegible]

GENERATOR: [illegible] Industrial Polymers, Inc. 1520 N. Rosemary, Wichita, KS

GENERATOR'S SIGNATURE: [illegible] / / DATE

CONTRACTOR & SIGNATURE: [illegible]

WASTE DESCRIPTION: [illegible]

STATE AUTHORIZATION # [illegible] QUANTITY: [illegible]

ACCEPTED BY: [illegible] TIME: / / DATE TRUCK NO. [illegible]

DRIVERS SIGNATURE: [illegible] / / DATE BOX NO. [illegible] TONS/YARDS

WHITE - TRANSPORTER COPY • YELLOW - FILE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

Driver's Signature

404455

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755528

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/29/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25877
Destination
PO
Profile FN070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUTHWEST BRENNTAG SOTHWEST

Carrier FIVESTAR
Vehicle# 69
Container
Driver
Check#
Billing # 00006555
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/29/2007 16:52:37	Scale 1 (in)	LD		Gross	82260 lb
Out	08/29/2007 17:21:00	Scale 2 (out)	LD		Tare	30260 lb
					Net	52000 lb
					Tons	26.00

Comments

WEIGHTS ARE IN TONS

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	26.00	Tons	25.00		$650.00	
2	ENL-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.50		$30.24	
4	COU-COUNTY HOST FE	100	26.00	Tons	1.50		$39.00	
5	STA-STATE SURCHARG	100	26.00	Tons	1.00		$26.00	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $750.24

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # [illegible]

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: [illegible]

TRANSPORTER: [illegible]

№ 25877

GENERATOR: Kemmerer Southwest, Inc. 1520 S Kaczmar, Hialeah, FL

GENERATORS SIGNATURE: [illegible] / / DATE

CONTRACTOR & SIGNATURE: [illegible]

WASTE DESCRIPTION: Tetrachloroethene & 1,2-PCA Disposal Soil

STATE AUTHORIZATION #: 97-0654 QUANTITY: [illegible]

ACCEPTED BY: [illegible] / / TIME: / / DATE THUCK NO: [illegible]

DRIVERS SIGNATURE: [illegible] / / DATE BOX NO: TONS/YARDS

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

404456

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755529

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/29/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25876
Destination
PO
Profile F#0070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier FIVESTAR
Vehicle# 39
Container
Driver
Check#
Billing # 0000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/29/2007 16:54:28	Scale 1 (in) LD			Gross	83500 lb
Out	08/29/2007 17:23:54	Scale 2 (out) LD			Tare	34780 lb
					Net	48720 lb
					Tons	24.36

Comments

WEIGHTS ARE IN TONS

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	24.36	Tons	25.00		$609.00	
2	EVL-Env Fee Lg. **	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$28.35	
4	COU-COUNTY HOST FE	100	24.36	Tons	1.50		$36.54	
5	STA-STATE SURCHARG	100	24.36	Tons	1.00		$24.36	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $703.25

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # [illegible]

Rolling Meadows Recycling & Disposal Facility

DISPOSAL SITE

WMI WASTE MANAGEMENT

DATE: / /

№ 25576

TRANSPORTER: [illegible]

GENERATOR: Reconstruct Northwest, Inc. 1520 N Kenville, Winston, SS

GENERATOR'S SIGNATURE: / /

DATE

CONTRACTOR & SIGNATURE: / /

WASTE DESCRIPTION: Petroleum-contaminated soil

STATE AUTHORIZATION #: [illegible] QUANTITY:

ACCEPTED BY: TIME: / / TRUCK NO.:

DATE

DRIVER'S SIGNATURE: / / BOX NO. TONS/YARDS

DATE

WHITE - TRANSPORTER COPY - YELLOW - SITE COPY - PINK - GENERATOR COPY - GOLD - CONTRACTOR COPY

Driver's Signature

404454

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755530

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/29/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25875
Destination
PO
Profile RM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier HDECONSTINC *
Vehicle# 41
Container
Driver
Check#
Billing # 00006555
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound	Gross	87260 lb
In	08/29/2007 16:55:45	Scale 1 (in)	LD		Tare	32540 lb
Out	08/29/2007 17:17:50	Scale 2 (out)	LD		Net	54720 lb
					Tons	27.36

Comments

WEIGHTS ARE IN TONS

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	27.36	Tons	25.00		$684.00	
2	ENL-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$31.81	
4	COU-COUNTY HOST FE	100	27.36	Tons	1.50		$41.04	
5	STA-STATE SURCHARG	100	27.36	Tons	1.00		$27.36	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $789.21

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile #: [illegible]

Rolling Meadows Recycling & Disposal Facility

DISPOSAL SITE

WASTE MANAGEMENT

DATE: / /

TRANSPORTER:

GENERATOR: [illegible]

GENERATORS SIGNATURE: / /

DATE

CONTRACTOR & SIGNATURE: / /

WASTE DESCRIPTION: [illegible]

STATE AUTHORIZATION #: [illegible] QUANTITY:

ACCEPTED BY: / / TIME: / / TRUCK NO.

DATE

DRIVERS SIGNATURE: / / BOX NO. TONS/YARDS

DATE

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

№ 25875

Driver's Signature

404453

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0385

Original
Ticket# 755531

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/29/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25874
Destination
PO
Profile RM070656 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier HARRISON
Vehicle# 25
Container
Driver
Check#
Billing # 00000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/29/2007 16:57:33	Scale 1 (in)	LD		Gross	77600 lb
Out	08/29/2007 17:16:10	Scale 2 (out)	LD		Tare	31180 lb
					Net	46420 lb
					Tons	23.21

Comments

WEIGHTS ARE IN TONS

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	23.21	Tons	25.00		$580.25	
2	EVL-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$27.02	
4	COU-COUNTY HOST FE	100	23.21	Tons	1.50		$34.82	
5	STA-STATE SURCHARG	100	23.21	Tons	1.00		$23.21	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $670.30

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # [illegible]

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: / /

TRANSPORTER:

№ [illegible]

GENERATOR: [illegible]

GENERATORS SIGNATURE: / /
DATE

CONTRACTOR & SIGNATURE: / /

WASTE DESCRIPTION: [illegible]

STATE AUTHORIZATION #: [illegible] QUANTITY:

ACCEPTED BY: TIME: / / TRUCK NO.
DATE

DRIVERS SIGNATURE: / / BOX NO: TONS/YARDS
DATE

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

Driver's Signature

404457

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755532

Customer Name HULCHERSERVICES HULCHER SERVI Carrier HDXCONSTINC *
Ticket Date 08/29/2007 Vehicle# 2 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 00000655
State Waste Code Gen EPA ID
Manifest 25873
Destination Grid
PO
Profile RM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUWEST BRENNTAG SOUTHWEST

	Time	Scale	Operator	Inbound		
In	08/29/2007 17:03:22	Scale 1 (in) LD			Gross	79620 lb
Out	08/29/2007 17:25:34	Scale 2 (out) LD			Tare	31300 lb
					Net	48320 lb
					Tons	24.16

Comments

WEIGHTS ARE IN TONS

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	24.16	Tons	25.00		$604.00	
2	EML-Env Fee Lg. ~	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$28.11	
4	COU-COUNTY HOST FE	100	24.16	Tons	1.50		$36.24	
5	STA-STATE SURCHARG	100	24.16	Tons	1.00		$24.16	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $697.51

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # [illegible]

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WM WASTE MANAGEMENT

DATE: / /

TRANSPORTER:

№ 25573

GENERATOR: [illegible]

GENERATORS SIGNATURE: / /
DATE

CONTRACTOR & SIGNATURE: [illegible]

WASTE DESCRIPTION: [illegible]

STATE AUTHORIZATION #: [illegible] QUANTITY:

ACCEPTED BY: [illegible] TIME: [illegible] TRUCK NO.
DATE

DRIVERS SIGNATURE: / / BOX NO. TONSYARDS
DATE

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

Driver's Signature

404468

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755534

Customer Name HULCHERSERVICES HULCHER SERVI Carrier HELLER
Ticket Date 08/30/2007 Vehicle# 22 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 00006655
State Waste Code Gen EPA ID
Manifest 25880
Destination Grid
PO
Profile R#070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUTHWEST BRENNTAG SOUTHWEST

	Time	Scale	Operator	Inbound	Gross	75280 lb
In	08/30/2007 06:30:53	Scale 1 (in)	DSH		Tare	33960 lb
Out	08/30/2007 07:16:51	Scale 2 (out)	DSH		Net	41320 lb
					Tons	20.66

Comments:

WEIGHTS ARE IN TONS

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	20.66	Tons	25.00		$516.50	
2	FUL-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$24.07	
4	COU-COUNTY HOST FE	100	20.66	Tons	1.50		$30.99	
5	STA-STATE SURCHARG	100	20.66	Tons	1.00		$20.66	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $597.42

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # [illegible]

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: [illegible]

TRANSPORTER: [illegible]

№ 25500

GENERATOR: [illegible] Recycling, Inc., 1500 N. Sheridan, Wichita, KS

GENERATORS SIGNATURE: _____ DATE

CONTRACTOR & SIGNATURE: _____

WASTE DESCRIPTION: Tank [illegible] Class 2 1,2-DCA Impacted soil

STATE AUTHORIZATION #: 07-[illegible] QUANTITY: _____

ACCEPTED BY: _____ TIME: [illegible] DATE TRUCK NO. 22

DRIVERS SIGNATURE: _____ DATE BOX NO. _____ TONS/YARDS

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

Driver's Signature

404480

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0385

Original
Ticket# 755552

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 09/30/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25878
Destination
PO
Profile RM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOUTHWEST

Carrier CUTTINGEDGE
Vehicle# 169
Container
Driver
Check#
Billing # 0000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/30/2007 07:49:38	Scale 1 (in) DAH			Gross	81680 lb
Out	09/30/2007 08:15:42	Scale 2 (out) DAH			Tare	30060 lb
					Net	51620 lb
					Tons	25.81

Comments

WEIGHTS ARE IN TONS

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	25.81	Tons	25.00		$645.25	
2	EVL-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$30.02	
4	COU-COUNTY HOST FE	100	25.81	Tons	1.50		$38.72	
5	STA-STATE SURCHARG	100	25.81	Tons	1.00		$25.81	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $744.80

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # [illegible]

Rolling Meadows Recycling & Disposal Facility
DESTINATION

WASTE MANAGEMENT

№ 258978

DATE: [illegible]

TRANSPORTER: [illegible]

GENERATOR: [illegible]

GENERATORS SIGNATURE: [illegible] DATE

CONTRACTOR & SIGNATURE: [illegible]

WASTE DESCRIPTION: [illegible]

STATE AUTHORIZATION #: [illegible] QUANTITY: [illegible]

ACCEPTED BY: [illegible] TIME: [illegible] DATE TRUCK NO. [illegible]

DRIVERS SIGNATURE: [illegible] DATE BOX NO. [illegible] TONS/YARDS

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

Driver's Signature

404481

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0365

Original
Ticket# 755553

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/30/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25879
Destination
PO
Profile RM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier CUTTINGEDGE
Vehicle# 166
Volume
Container
Driver
Check#
Billing # 0000655
Gen EPA ID
Grid

	Time	Scale	Operator			
In	08/30/2007 07:52:46	Scale 1 (in) DAH		Inbound	Gross	81860 lb
Out	08/30/2007 08:17:05	Scale 2 (out) DAH			Tare	30420 lb
					Net	51440 lb
					Tons	25.72

Comments

WEIGHTS ARE IN TONS

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	25.72	Tons	25.00		$643.00	
2	ENL-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$29.92	
4	COU-COUNTY HOST FE	100	25.72	Tons	1.50		$38.58	
5	STA-STATE SURCHARG	100	25.72	Tons	1.00		$25.72	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $742.22

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # [illegible]

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: [illegible]

TRANSPORTER: [illegible]

№ 25879

GENERATOR: [illegible]

GENERATORS SIGNATURE: [illegible]
DATE

CONTRACTOR & SIGNATURE: [illegible]

WASTE DESCRIPTION: [illegible]

STATE AUTHORIZATION # [illegible] QUANTITY [illegible]

ACCEPTED BY: [illegible] TIME [illegible] TRUCK NO. [illegible]
DATE

DRIVERS SIGNATURE: [illegible]
DATE

BOX NO [illegible] TONS/YARDS

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

Driver's Signature

404501

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66610
Ph: 785-246-0305

Original
Ticket# 755560

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 09/30/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25881
Destination
PO
Profile RM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUTHWEST BRENNTAG SOUTHWEST

Carrier HELLER
Vehicle# 16
Container
Driver
Check#
Billing # 0000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/30/2007 08:56:08	Scale 1 (in) DH			Gross	100000 lb
Out	08/30/2007 09:38:38	Scale 2 (out) DH			Tare	34920 lb
					Net	65080 lb
					Tons	32.69

Comments

WEIGHTS ARE IN TONS

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	32.69	Tons	25.00		$817.25	
2	EVL-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.65		$37.97	
4	COU-COUNTY HOST FE	100	32.69	Tons	1.50		$49.04	
5	STA-STATE SURCHARG	100	32.69	Tons	1.00		$32.69	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $941.95

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # [illegible]

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: [illegible]

TRANSPORTER: [illegible]

№ 25801

GENERATOR: [illegible]

GENERATORS SIGNATURE: _____ / / DATE

CONTRACTOR & SIGNATURE: [illegible]

WASTE DESCRIPTION: [illegible]

STATE AUTHORIZATION #: [illegible] QUANTITY: [illegible]

ACCEPTED BY: [illegible] TIME: [illegible] DATE TRUCK NO. [illegible]

DRIVERS SIGNATURE: [illegible] / / DATE BOX NO. [illegible] TONS/YARDS

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

Driver's Signature

404509

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755578

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/30/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25082
Destination
PO
Profile RM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOUTHWEST

Carrier HARRISON
Vehicle# 25
Container
Driver
Check#
Billing # 00000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/30/2007 09:38:17	Scale 1 (in)	MH		Gross	70780 lb
Out	08/30/2007 10:09:58	Scale 2 (out)	MH		Tare	31740 lb
					Net	39040 lb
					Tons	19.52

Comments

WEIGHTS ARE IN TONS

Product		LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont&SoilPot-Tons-C	100	19.52	Tons	25.00		$488.00	
2	EVL-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$22.76	
4	COU-COUNTY HOST FE	100	19.52	Tons	1.50		$29.28	
5	STA-STATE SURCHARG	100	19.52	Tons	1.00		$19.52	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $564.56

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # [illegible]

Rolling Meadows Recycling & Disposal Facility

DISPOSAL SITE

WAYNE WASTE MANAGEMENT

DATE: / /

TRANSPORTER: [illegible]

№ 25982

GENERATOR: [illegible]

GENERATOR'S SIGNATURE: / /

DATE

CONTRACTOR & SIGNATURE: [illegible]

WASTE DESCRIPTION: [illegible]

STATE AUTHORIZATION #: [illegible] QUANTITY:

ACCEPTED BY: TIME: / / TRUCK NO.:

DATE

DRIVER'S SIGNATURE: / / BOX NO.: TONS/YARDS

DATE

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

Driver's Signature

404510

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 755579

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/30/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25383
Destination
PO
Profile RM0706/96 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUWEST BRENNTAG SOUTHWEST

Carrier HARRISON
Vehicle# 26
Container
Driver
Check#
Billing # 0000655
Gem EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/30/2007 09:40:24	Scale 1 (in)	MM		Gross	54700 lb
Out	08/30/2007 10:11:11	Scale 2 (out)	MM		Tare	32900 lb
					Net	21800 lb
					Tons	10.90

Comments

WEIGHTS ARE IN TONS

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPeb-Tons-C	100	10.90	Tons	25.00		$272.50	
2	EML-Env Fee Lg. -	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$12.80	
4	COU-COUNTY HOST FE	100	10.90	Tons	1.50		$16.35	
5	STA-STATE SURCHARG	100	10.90	Tons	1.00		$10.90	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $317.55

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # [illegible]

Rolling Meadows Recycling & Disposal Facility
DISPOSAL SITE

WASTE MANAGEMENT

DATE: [illegible]

TRANSPORTER: [illegible]

№ [illegible]

GENERATOR: [illegible]

GENERATORS SIGNATURE: [illegible] / / DATE

CONTRACTOR & SIGNATURE: [illegible]

WASTE DESCRIPTION: [illegible]

STATE AUTHORIZATION #: [illegible] QUANTITY: [illegible]

ACCEPTED BY: [illegible] TIME: [illegible] / / DATE TRUCK NO. [illegible]

DRIVERS SIGNATURE: [illegible] / / DATE BOX NO. [illegible] TONS/YARDS

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

Driver's Signature

404539

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0395

Original
Ticket# 755614

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 08/30/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25004
Destination
PO
Profile RM070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier HDECONSTINC *
Vehicle# 41
Container
Driver
Check#
Billing # 0000555
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/30/2007 10:53:57	Scale 1 (in)	DRH		Gross	86700 lb
Out	08/30/2007 11:12:23	Scale 2 (out)	DRH		Tare	32440 lb
					Net	54260 lb
					Tons	27.13

Comments

WEIGHTS ARE IN TONS

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-C	100	27.13	Tons	25.00		$678.25	
2	EVL-Env Fee Lg. ~	100	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	100		%	4.20		$31.55	
4	COU-COUNTY HOST FE	100	27.13	Tons	1.50		$40.70	
5	STA-STATE SURCHARG	100	27.13	Tons	1.00		$27.13	
6	MAN-MANIFEST PRINT	100	1	Each	1.00		$1.00	

Total Tax
Total Ticket $782.63

402WM

SPECIAL WASTE MANIFEST DISPOSAL TICKET

Profile # [illegible]

Rolling Meadows Recycling & Disposal Facility

DISPOSAL SITE

WASTE MANAGEMENT

DATE: _____

TRANSPORTER: _____

№ 20054

GENERATOR: [illegible], Northwest, Inc., 1320 E. Beverly, Wichita, KS

GENERATOR'S SIGNATURE: _____ / / DATE

CONTRACTOR & SIGNATURE: [illegible]

WASTE DESCRIPTION: [illegible] Impacted Soil

STATE AUTHORIZATION #: [illegible] QUANTITY: _____

ACCEPTED BY: _____ TIME: _____ / / DATE TRUCK NO. _____

DRIVER'S SIGNATURE: _____ / / DATE BOX NO. _____ TONS/YARDS

WHITE - TRANSPORTER COPY • YELLOW - SITE COPY • PINK - GENERATOR COPY • GOLD - CONTRACTOR COPY

395828

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 736357

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 09/06/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25885
Destination
PO
Profile R0070696 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOUHWEST

Carrier HELLER
Vehicle# 22
Container
Driver
Check#
Billing # 00000558
Gen EPA ID
Grid

Volume

	Time	Scale	Operator			
In	09/06/2007 09:28:08	Scale 1 (in)	DAN	Inbound	Gross	67844 lb
Out	09/06/2007 10:03:15	Scale 2 (out)	LD		Tare	33600 lb
					Net	54240 lb
					Tons	27.12

Comments

WEIGHT NET TO [illegible]

Product	Lin	Qty	UOM	Rate	Tax	Amount	Price
1	SoilDiet-Tons-S	100	27.12	Tons	22.00	596.64	
2	CVL-Env Fee Lg. --	100	1	Load	2.00	2.00	
3	DEL-Fuel Surcharg	100		%	4.00	23.86	
4	DUP-COUNTY HAZ F6	100	27.12	Tons	1.50	40.68	
5	DUP-STATE SURCHRG	100	27.12	Tons	1.00	27.12	
6	MAN-MANIFEST DRCNT	100	1	Each	1.00	1.00	

Sales Tax
Total Tickets

102WM

3958

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 25[illegible]

Customer Name HULCHERSERVICES HULCHER SFRUI
Ticket Date 09/06/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25836
Destination
PO
Profile [illegible]070696 (FOR CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOUTHWEST

Carrier CUTTINGEDGE
Vehicle# 165
Container
Driver
Check#
Billing # 0000655
Gen EPA ID

Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/06/2007 10:13:43	Scale 1 (In) LD			Gross	64560 lb
Out	09/06/2007 10:33:14	Scale 2 (out) LD			Tare	30120 lb
					Net	34440 lb
					Tons	27.22

Comment

WEIGHTS ARE IN TONS

	Product	LD%	Qty	UOM	Rate	Tax	Amount
1	Contaminated-Tons-C	100	27.22	Tons	25.00		$680.50
2	EM-Env Fee (p. -	.00	1	Load	5.00		$5.00
3	FUEL-Fuel Surcharg	9%		%	4.27		$2.15
4	KS-COUNTY -KDHE FE	1.38	27.22	Tons	1.50		$40.83
5	KS-STATE ENVCHARG	.07	27.22	Tons	1.00		$27.22
6	MSW-SOUTHWEST REMAT	1.00	1	Each	1.00		[illegible]

Total Tax
Total Tonnage

402WM

3958

WASTE MANAGEMENT

ROLLING HEADWS RDF
7351 NW HWY 75
TOPEKA, KS, 66610
Ph: 785-246-0305

Original
Ticket# 756380

Customer Name : HULCHERSERVICES HULCHER SERVI
Ticket Date : 09/06/2007
Payment Type : Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest : 25887
Destination :
PO
Profile : RM070696 (PCE CONTAMINATED SOIL)
Generator : 149-BRENNTAGSOUWEST BRENNTAG SOUWEST

Carrier : CUTTINGEDGE
Vehicle# : 166
Container
Driver
Check#
Billing # : 0000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In :	09/06/2007 10:15:52	Scale 1 (in)	LD		Gross	52540 lb
Out :	09/06/2007 10:35:03	Scale 2 (out)	LD		Tare	23700 lb
					Net	28840 lb
					Tons	14.42

Comments

WEIGHTS ARE IN TONS

Product	LTS	Qty	UOM	Rate	Tax	Amount	Origin
1	Non-Soil Pet/Tox-C	199	28.40	Ton	25.00	$635.50	
2	ENL-Env Fee Lg. -	102	1	Load	4.00	$4.00	
3	FUE-Fuel Surcharge	126		%	4.47	$28.37	
4	OIL-COUNTY INSP FF	102	28.40	Tons	1.50	$42.60	
5	STA-STATE UPSCHRG	102	28.40	Tons	1.00	$28.40	
6	MAN-MANIFEST FEEMT	102	1	Each	1.00	$1.00	

Total Tax
Total Tickets

402WM

3959

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0305

Original
Ticket# 756513

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 09/06/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25888
Destination
PO
Profile RM070606 (PCE CONTAMINATED SOIL)
Generator 140-BRENNTAGSOUHWEST BRENNTAG SOTHWEST

Carrier CUTTINGEDGE
Vehicle# 165
Container
Driver
Check#
Billing # 0000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/06/2007 16:28:45	Scale 1 (in)	DGH		Gross	76460 lb
Out	09/06/2007 16:47:49	Scale 2 (out)	DGH		Tare	29780 lb
					Net	46680 lb
					Tons	23.34

Comments

WEIGHTS ARE IN TONS

Product		LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont/Solid-Ton-C	100	23.34	Tons	$35.00		$816.90	
2	CU.-Inv Fee Lg. -	102	1	Load	4.00		$4.00	
3	FUEL-Fuel Surcharg	102		%	4.97		$40.62	
4	SWD-COUNTY HOST FE	103	23.34	Tons	1.52		$37.81	
5	STA-STATE SURCHRG	106	23.34	Tons	1.80		$42.01	
6	MAN-MANIFEST PRINT	108	1	Each	1.00		$1.00	

Total Tax
Total Tipping

402WM

39597

WASTE MANAGEMENT

ROLLING MEADOWS RDF
7351 NW HWY 75
TOPEKA, KS, 66618
Ph: 785-246-0366

Original
Ticket# 756514

Customer Name HULCHERSERVICES HULCHER SERVI
Ticket Date 09/06/2007
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 25889
Destination
PO
Profile RM070696 (PCE CONTAMINATED SOIL)
Generator 146-BRENNTAGSOUWEST BRENNTAG SOUWEST

Carrier CUTTINGEDGE
Vehicle# 166
Container
Driver
Check#
Billing # 0000655
Gen EPA ID
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/06/2007 16:38:13	Scale 1 (in)	DAH		Gross	77060 lb
Out	09/06/2007 16:49:04	Scale 2 (out)	DAH		Tare	29160 lb
					Net	47900 lb
					Tons	23.95

Comments

WEIGHTS ARE IN TONS

Product		UM	Qty	UOM	Rate	Tax	Amount	Origin
1	Contaminated-Tons-C	100	23.95	Tons	25.00		598.75	
2	EPA-Inv Fee Lg.	102	1	Load	4.00		4.00	
3	FUE-Fuel Surcharg	104		%	4.27		25.54	
4	CUT-COUNTY HOST FE	106	23.95	Tons	1.50		35.92	
5	STA-STATE SURCHARG	104	23.95	Tons	1.00		23.95	
6	MAN-MANIFEST CREDIT	122	1	Each	1.00		1.00	

Total Tax
Total Ticket 2731.97

402WM

NORTHRIDGE SAND L.L.C.

[illegible] W. 53rd North

WICHITA, KANSAS 67203

[illegible]

"The Best Quality Sand"

NAME

ADDRESS

DATE

QTY	DESCRIPTION	PRICE	AMOUNT
	[illegible]		
	14.66		
	21.00		
	37.66		
	[illegible]		

RECEIVED BY

TOTAL

No. 14399

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL

SP-1043

PRINTED IN U.S.A.

Thank You

NORTHRIDGE SAND L.L.C.

[illegible] W. 53rd North

WICHITA, KANSAS 67203

[illegible]

"The Best Quality Sand"

NAME

ADDRESS

DATE

QTY	DESCRIPTION	PRICE	AMOUNT
	[illegible]		
	12.00		
	18.00		
	30.00		
	[illegible]		

RECEIVED BY

TOTAL

No. 14303

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL

SP-1043

PRINTED IN U.S.A.

Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME Kenco

ADDRESS

11 | PH. NO. | DATE 9-11-07

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RETD.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LVC		
	59 4100		
	25,000		
	34 4100		
	17.2 Ton		
		TAX	
		TOTAL	

RECEIVED BY Kenco 11

No. 144418

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
PRINTED IN U.S.A.

Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME Kenco

ADDRESS

	PH. NO.	DATE 9-11-07

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RET'D.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LVC		
	60,000		
	35,000		
	37,200		
	18.60 Ton		
		TAX	
RECEIVED BY Kenco 11		TOTAL	

No. 144434

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
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Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME Kenco

ADDRESS

	PH. NO.	DATE
4 11		9-11-07

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RETD.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LVC		
	64,000		
	25,000		
	39,000		
	19.5 Ton		
		TAX	
RECEIVED BY Manuel		TOTAL	

No. 144427

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
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Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME Kerro

ADDRESS

#11 | PH. NO. | DATE 9-4-07

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RETD.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LuC		
	60200		
	25000		
	35200		
	17.6	Tax	
		TAX	
RECEIVED BY Kendo 11		TOTAL	

No. 144368

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

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Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME K-.CO

ADDRESS

H 11 | PH. NO. | DATE 9-4-07

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RETD.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LVC		
	63,500		
	25,000		
	38,500		
	19.25 Ton		
		TAX	
RECEIVED BY Mario 11		TOTAL	

No. 144375

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
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Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME Kenco

ADDRESS

4 4/4 | PH. NO. | DATE 9-4-07

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RETD.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LVC		
	100,000		
	25,300		
	40,700		
	20.35 Ton		
		TAX	
RECEIVED BY		TOTAL	

No. 144436

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

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Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME	Kerco					
ADDRESS						
4 4 | 21	PH. NO.			DATE 9-4-07		
SOLD BY	CASH	C.O.D.	CHARGE ✓	ON ACCT.	MDSE. RETD.	LAYAWAY

QTY.	DESCRIPTION	PRICE	AMOUNT
	LVC		
	65,600		
	25,300		
	40,300		
	20.15 Ton		
		TAX	
RECEIVED BY		TOTAL	

No. 144426

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

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Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

Hulchen

NAME	Unco					
ADDRESS						
77	PH. NO.				DATE 9-4-07	
SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RETD.	LAYAWAY

QTY.	DESCRIPTION	PRICE	AMOUNT
	LUC		
	66700		
	26100		
	40600		
	20.3 Ton		
		TAX	
RECEIVED BY Steven Hatton		TOTAL	

No. 144369

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
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Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME Kenco

ADDRESS

PH. NO.

DATE 9-4-07

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RET'D.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LVC		
	64,300		
	26,000		
	38,300		
	19.15 Ton		
		TAX	
RECEIVED BY		TOTAL	

No. 144390

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
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Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME Kelco

ADDRESS

PH. NO. DATE 9-11-07

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RETD.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LVC		
	64,000		
	216,000		
	38,000		
	19 Ton		
	K 55/Ron		
		TAX	
RECEIVED BY		TOTAL	

No. 144408

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

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Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME						
ADDRESS						
"Grand"	PH. NO.			DATE 9-4-07		
SOLD BY	CASH	C.O.D.	CHARGE ✓	ON ACCT.	MDSE. RET'D.	LAYAWAY

QTY.	DESCRIPTION	PRICE	AMOUNT
	LVC		
	03,400		
	26,000		
	37,400		
	1X7 Tom		
		TAX	
RECEIVED BY		TOTAL	

No. 144433

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

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Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME	Kaw					
ADDRESS						
11 99	PH. NO.			DATE 9-4-07		
SOLD BY	CASH	C.O.D.	CHARGE ✓	ON ACCT.	MDSE. RETD.	LAYAWAY

QTY.	DESCRIPTION	PRICE	AMOUNT
	LVC		
	65,100		
	26,200		
	38,900		
	19.45 Ton		
		TAX	
RECEIVED BY		TOTAL	

No. 144372

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
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Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME Hoad

ADDRESS

# 99	PH. NO.	DATE 9-11-17

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RET'D.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LVC		
	6L 500		
	2L 200		
	40,300		
	20.15 Ton		
		TAX	
RECEIVED BY		TOTAL	

No. 144378

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

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Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME	Kelco					
ADDRESS						
# 99	PH. NO.			DATE 9-21-07		
SOLD BY	CASH	C.O.D.	CHARGE ✓	ON ACCT.	MDSE. RET'D.	LAYAWAY

QTY.	DESCRIPTION	PRICE	AMOUNT
	LVC		
	66,300		
	26,200		
	40,100		
	20.05 Ton		
		TAX	
RECEIVED BY		TOTAL	

No. 144392

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

Thank You

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NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME	Kenco					
ADDRESS						
#99	PH. NO.			DATE 9-11-07		
SOLD BY	CASH	C.O.D.	CHARGE ✓	ON ACCT.	MDSE. RETD.	LAYAWAY

QTY.	DESCRIPTION	PRICE	AMOUNT
	LVC		
	70,000		
	26,800		
	43,800		
	21 9 Ton		
		TAX	
RECEIVED BY		TOTAL	

No. 144406

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

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Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME Kirmo

ADDRESS

1 ⅓ yd	PH. NO.	DATE 9-11-07

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RET'D.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LVC		
	66 400		
	26,200		
	40 200		
	20.1 Ton		
		TAX	
RECEIVED BY		TOTAL	

No. 144419

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
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Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME Kenco

ADDRESS

	PH. NO.	DATE
4 99		9-4-07

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RETD.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LVC		
	66 600		
	26 200		
	40 400		
	20.2 Ton		
		TAX	
RECEIVED BY		TOTAL	

No. 144429

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
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Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME Kenco

ADDRESS

99 | PH. NO. | DATE 9-1-07

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RETD.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LVC		
	68.100		
	26.200		
	41.900		
	30.95 TON		
		TAX	
RECEIVED BY		TOTAL	

No. 144439

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
PRINTED IN U.S.A.

Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME Kenco

ADDRESS

PH. NO. DATE 9-5-07

55

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RET'D.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LLC		
	68300		
	24700		
	43600		
	21.8 ton		
		TAX	
RECEIVED BY		TOTAL	

No. 144588

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
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Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME Kento

ADDRESS

55 | PH. NO. | DATE 9-5-07

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RET'D.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LVC		
	66100		
	24700		
	41400		
	30.7 ton		
	K 55 Com		
		TAX	
RECEIVED BY		TOTAL	

No. 144582

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
PRINTED IN U.S.A.

Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME Kenco

ADDRESS

15 | PH. NO. | DATE 4-5-07

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RETD.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LUC		
	60600		
	24600		
	46000		
	23.0 ton		
		TAX	
RECEIVED BY Charles Boyd		TOTAL	

No. 144584

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
PRINTED IN U.S.A.

Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME Keico

ADDRESS

	PH. NO.	DATE
15		9-5-07

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RETD.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LUC		
	59200		
	24600		
	34600		
	17.3 ton		
		TAX	
RECEIVED BY Carlos Bagh		TOTAL	

No. 144580

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
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Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME	Henco					
ADDRESS						
99		PH. NO.		DATE 9-5-07		
SOLD BY	CASH	C.O.D.	CHARGE ✓	ON ACCT.	MDSE. RETD.	LAYAWAY

QTY.	DESCRIPTION	PRICE	AMOUNT
	LLC		
	63600		
	26200		
	37400		
	18.7 Ton		
		TAX	
RECEIVED BY		TOTAL	

No. 144547

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
PRINTED IN U.S.A.

Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME	Henco					
ADDRESS						
99		PH. NO.			DATE 9-5-07	
SOLD BY	CASH	C.O.D.	CHARGE ✓	ON ACCT.	MDSE. RETD.	LAYAWAY

QTY.		DESCRIPTION	PRICE	AMOUNT	
		LUC			
		65400			
		26200			
		39200			
		19.6 ton			
			TAX		
RECEIVED BY			TOTAL		

No. 144553

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
PRINTED IN U.S.A.

Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME	Kenco		
ADDRESS			
99	PH. NO.	DATE 9-5-07	

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RETD.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LVC		
	65200		
	26260		
	39000		
	19.5 tax		
		TAX	
RECEIVED BY		TOTAL	

No. 144565

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
PRINTED IN U.S.A.

Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME Renco

ADDRESS

99 | PH. NO. | DATE 9-5-07

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RETD.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LVL		
	66960		
	26200		
	40700		
	20.35 tax		
		TAX	
RECEIVED BY		TOTAL	

No. 144577

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
PRINTED IN U.S.A.

Thank You

NORTHRIDGE SAND L.L.C.

5838 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME	Kenco					
ADDRESS						
99		PH. NO.		DATE 9-5-07		
SOLD BY	CASH	C.O.D.	CHARGE ✓	ON ACCT.	MDSE. RETD.	LAYAWAY

QTY.	DESCRIPTION	PRICE	AMOUNT	
	LVC			
	66500			
	26200			
	40300			
	20-15 ton			
		TAX		
RECEIVED BY		TOTAL		

No. 144583

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
PRINTED IN U.S.A.

Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME Hero

ADDRESS

	PH. NO.	DATE 9-6-07
9 h		

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RETD.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LVC		
	666 00		
	26 200		
	40400		
	20.2 ton		
		TAX	
RECEIVED BY		TOTAL	

No. 144615

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
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Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME Kraco

ADDRESS

99 | PH. NO. | DATE 9-6-07

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RET'D.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LUC		
	65800		
	26200		
	39600		
	19-8 ton		
		TAX	
RECEIVED BY		TOTAL	

No. 144641

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
PRINTED IN U.S.A.

Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME Kenco

ADDRESS

55 | PH. NO. | DATE 9-7-07

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RETD.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LVC		
	105300		
	24700		
	410600		
	20.8 ton		
	K 55 Kay		
		TAX	
RECEIVED BY		TOTAL	

No. 144804

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
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Thank You

NORTHRIDGE SAND L.L.C.

5938 W. 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME Kenco

ADDRESS

SS	PH. NO.	DATE 9-7-07

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RETD.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LVC		
	60 800		
	24700		
	36100		
	18.05 ton		
	155 Nm		
		TAX	
RECEIVED BY		TOTAL	

No. 144789

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
PRINTED IN U.S.A.

Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3662
"The Best Mason Sand"

NAME Kanco

ADDRESS

SS | PH. NO. | DATE 9-7-07

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RETD.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LUC		
	59600		
	24700		
	34900		
	17.45 ton		
	K 55 Km		
		TAX	
RECEIVED BY		TOTAL	

No. 144779

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

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PRINTED IN U.S.A.

Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME Kenco

ADDRESS

SS | PH. NO. | DATE 9-7-07

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RETD.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LUC		
	61000		
	24700		
	36300		
	18-15 tn		
	R 55 Rou		
		TAX	
RECEIVED BY		TOTAL	

No. 144771

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
PRINTED IN U.S.A.

Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME Kenco

ADDRESS

SS | PH. NO. | DATE 9-7-07

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RETD.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LVC		
	62000		
	24700		
	37300		
	18-65 ton		
	R 55.00		
		TAX	
RECEIVED BY		TOTAL	

No. 144755

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
PRINTED IN U.S.A.

Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME Kenco

ADDRESS

55 | PH. NO. | DATE 9-7-07

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RET'D.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LVC		
	61000		
	24700		
	36300		
	18.15 ton		
	K 55 Roy		
		TAX	
RECEIVED BY		TOTAL	

No. 144744

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
PRINTED IN U.S.A.

Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME Kendo

ADDRESS

SS | PH. NO. | DATE 9-7-07

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RETD.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LUC		
	61500		
	24700		
	36800		
	18-4 ton		
		TAX	
RECEIVED BY		TOTAL	

No. 144726

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
PRINTED IN U.S.A.

Thank You

NORTHRIDGE SAND L.L.C.

5938 W 53rd North
WICHITA, KANSAS 67205
(316) 721-3862
"The Best Mason Sand"

NAME Kenco

ADDRESS

55	PH. NO.	DATE 9-7-07

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RETD.	LAYAWAY
			✓			

QTY.	DESCRIPTION	PRICE	AMOUNT
	LVC		
	64300		
	25700		
	38600		
	19.3 ton		
	16 55 Ron		
		TAX	
RECEIVED BY		TOTAL	

No. 144713

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL.

GP-154-3
PRINTED IN U.S.A.

Thank You

GSI

September 25, 2007

Mr. Brian Yaple
Hulcher Professional Services
3821 N. Skiles Ave.
Kansas City, MO 64161

Subject: Concrete Test Report
Brenntag Facilities
Wichita, Kansas
GSI Project No. 077254

Dear Mr. Yaple:

Enclosed is one copy of the following report:

Specimen No.	Date Sampled	Date Tested
077-540A and B	09/14/07	09/21/07

Please contact our office should you have any questions on the enclosed, or if we may be of service.

Respectfully submitted,
Geotechnical Services, Inc.

James E. Aamodt, P.E.
Senior Engineer

JEA/sw

Enclosure

g:\jobs\wichita\077\077254\concrete\concrete 09 25.doc

www.gsinetwork.com
4503 East 47th Street South ♦ Wichita, KS 67210-1651 ♦ (316) 554-0725 ♦ FAX (316) 554-0744

Location of Pour: Southeast section

Page: 1 of 1

Supplier:	Mix Type:	Truck No:	Ticket No:
LaFarge	4000	4789976	35519528

Time Loaded:	Time Arrived:	Time Tested:	Revolutions:
		6:00 am	
C.Y. This Load:	C.Y. Cumulative:	Water (lbs.):	Cement (lbs):
Coarse Agg. (lbs.):	Fine Agg. (lbs.):	Admixture-Type/Amount (oz.):	Admixture-Type/Amount (oz.):
Water Added Before Test (gals.): 0	Water Added After Test (gals.): 0	Unit Weight (pcf):	Yield:
Slump (in.): 4.75	Air Content (%): 7.0	Concrete Temp (F°): 80	Ambient Temp (F°): 59

Remarks:

Additional Tests

Truck No.	Cum CY	Test Time	Slump (in.)	Air (%)	Temp (F)

Tested By: GSI Field Technician Jeremiah Jones

PROJECT SPECIFICATIONS

Slump (in.):	Air Content (%):	Strength (psi):
3-5	5-7	4000

TEST NUMBER	SPECIMEN NUMBER	DATE CAST	DATE RECEIVED	DATE TESTED	AGE (days)	TYPE OF SPECIMEN	DIMENSIONS (in.) WIDTH	DIMENSIONS (in.) HEIGHT	WEIGHT (lbs.)	UNIT WEIGHT (pcf)	FAILURE LOAD (lbs.)	AREA (sq.in.)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE
1	077-540A	9/14/07	9/17/07	9/21/07	7	CYL	4.00	8.00		.00	57,470	12.57	4570	
1	077-540B	9/14/07	9/17/07	9/21/07	7	CYL	4.00	8.00		.00	52,890	12.57	4210	
1	077-540C	9/14/07	9/17/07	9/28/07	14	CYL	4.00	8.00		.00		12.57		
1	077-540D	9/14/07	9/17/07	9/28/07	14	CYL	4.00	8.00		.00		12.57		
1	077-540E	9/14/07	9/17/07	10/12/07	28	CYL	4.00	8.00		.00		12.57		
1	077-540F	9/14/07	9/17/07	10/12/07	28	CYL	4.00	8.00		.00		12.57		

TYPE OF FRACTURE: Cn = Cone, Sp = Cone and Split, Cs = Cone and Shear, Sh = Shear, Cl = Columnar, Ot - Other, M = Mortar, A = Aggregate

This test report may not be copied except in full without written consent of GSI.

Test results are valid for the referenced concrete samples, concrete batch(es) and test methods only.

No representation is made as to the physical properties of other concrete batches or other samples or the quality of the completed project.

ASTM Test Methods: Slump-C143, Air Content-C231, Unit Weight/Yield-C138, Compressive Strength-C39, Flexural Strength-C78

Copies To:

Reviewed By: John J. Schuller

Project: Brenntag Facility

Location: Wichita, Kansas

Client: Hulcher Professional Services

Job No: 077254

Date Issued: 09/25/07

GSI
4503 East 47th Street South - Wichita, Kansas 67210 (316) 554-0725

CONCRETE TEST REPORT

GSI

August 30, 2007

Mr. Brian Yaple
Hulcher Professional Services
3821 N. Skiles Ave.
Kansas City, MO 64161

Subject: Moisture-Density Relationship Report
Brenntag Project
Wichita, Kansas
GSI Project No. 077254

Dear Mr. Yaple:

Pursuant to your request, Geotechnical Services, Inc. has performed a laboratory testing program on one sample of off-site borrow material which was submitted to our laboratory on August 28' 2007, by representatives of Hulcher Professional Services. The sample was a dark brown sandy silt collected from a borrow source located near the intersection of 53rd Street North and Meridian in Park City, Kansas.

The sample was tested in accordance with ASTM D 698 – Laboratory Compaction Characteristics of Soil Using Standard Effort and ASTM D 4318 – Liquid Limit, Plastic Limit, and Plasticity Index of Soils. Results of the testing are presented below.

Please contact our office should you have any questions regarding the testing methods used or the testing results provided.

Respectfully,
Geotechnical Services Inc.

David A. Edwards, P.E.
Principal Engineer

DAE/aa

Enclosure

g:\jobs\wichita\077\077254\cover letters\moist density.doc

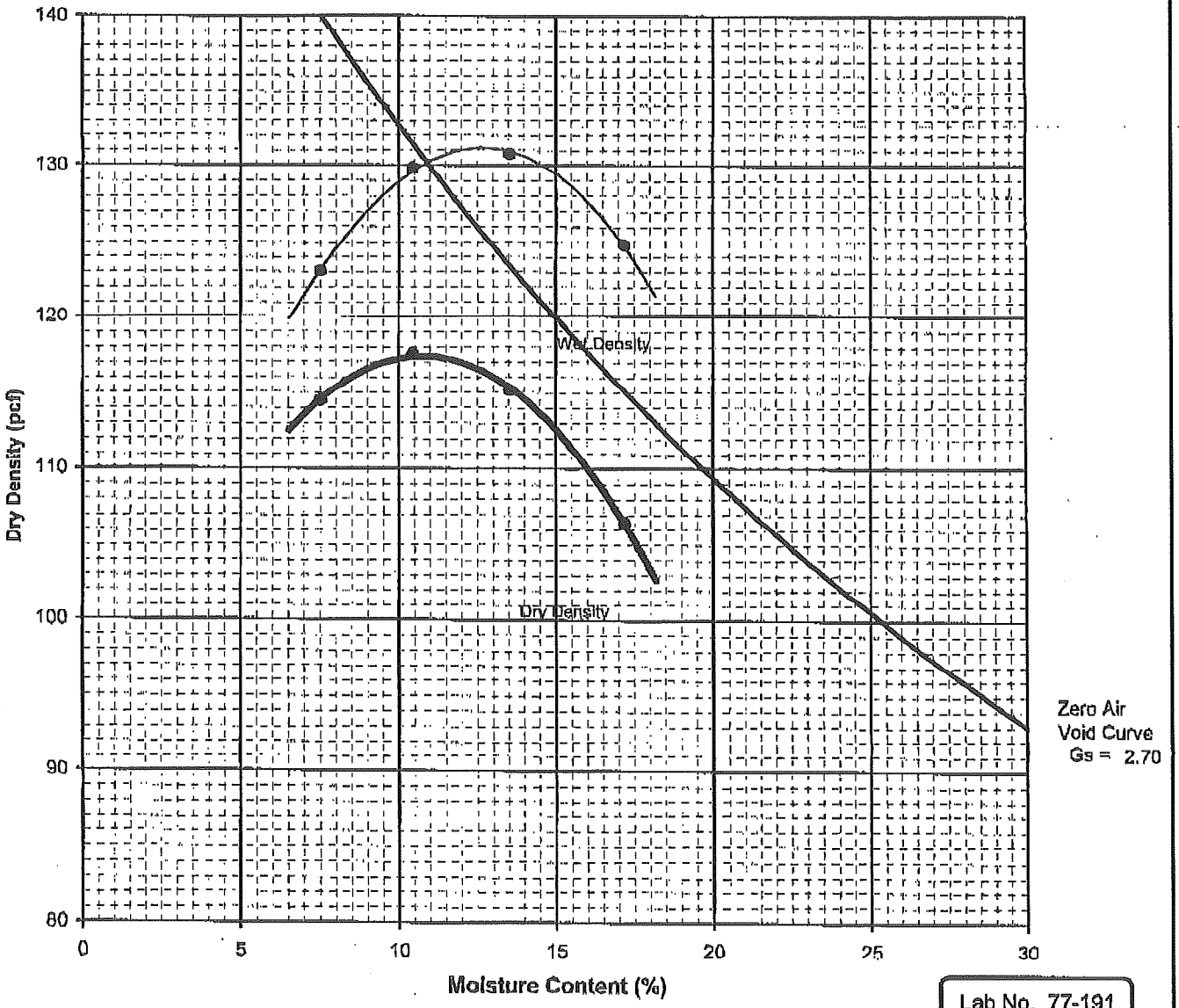
MOISTURE-DENSITY RELATIONSHIP

Sample Identification: Off-site Borrow Source - 53rd Street North & Meridian - Park City, Kansas

Sample Description: Dark Brown Sandy Silt

Liquid Limit=NP Plastic Limit=NP Plasticity Index=NP Classification ML

Type of Test ASTM D698-00A Maximum Dry Density=117.4 pcf Optimum Moisture Content=10.8%



Lab No. 77-191

GSI Geotechnical Services, Inc.

Project:	Hulcher Professional Services
Location:	Brenntag Project - Wichita, Kansas
Job Number: 077254	Date: August 28, 2007

Form 214 3/98

Location of Pour: Southeast section

Page: 1 of 1

Supplier: LaFarge	Mix Type: 4000	Truck No: 4789976	Ticket No: 35519528
Time Loaded:	Time Arrived	Time Tested: 6:00 am	Revolutions:
C.Y. This Load:	C.Y. Cumulative:	Water (lbs.):	Cement (lbs):
Coarse Agg. (lbs.):	Fine Agg. (lbs.):	Admixture-Type/Amount (oz.):	Admixture-Type/Amount (oz.):
Water Added Before Test (gals.): 0	Water Added After Test (gals.): 0	Unit Weight (pcf):	Yield:
Slump (in.): 4.75	Air Content (%): 7.0	Concrete Temp (F°): 80	Ambient Temp (F°): 69

Remarks.

Additional Tests

Truck No.	Cum CY	Test Time	Slump (in.)	Air (%)	Temp (F)

Tested By: GSI Field Technician Jeremiah Jones

PROJECT SPECIFICATIONS

Slump (in.):	Air Content (%):	Strength (psi):
3-5	5-7	4000

TEST NUMBER	SPECIMEN NUMBER	DATE CAST	DATE RECEIVED	DATE TESTED	AGE (days)	TYPE OF SPECIMEN	DIMENSIONS (in.) WIDTH	DIMENSIONS (in.) HEIGHT	WEIGHT (lbs.)	UNIT WEIGHT (pcf)	FAILURE LOAD (lbs.)	AREA (sq in.)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE
1	077-540A	9/14/07	9/17/07	9/21/07	7	CYL	4.00	8.00		.00	57,470	12.57	4570	ACs
1	077-540B	9/14/07	9/17/07	9/21/07	7	CYL	4.00	8.00		.00	52,890	12.57	4210	ACs
1	077-540C	9/14/07	9/17/07	9/28/07	14	CYL	4.00	8.00		.00	62,410	12.57	4970	ACs
1	077-540D	9/14/07	9/17/07	9/28/07	14	CYL	4.00	8.00		.00	62,870	12.57	5000	ACs
1	077-540E	9/14/07	9/17/07	10/12/07	28	CYL	4.00	8.00		.00	73,480	12.57	5850	NCs
1	077-540F	9/14/07	9/17/07	10/12/07	28	CYL	4.00	8.00		.00	74,660	12.57	5940	NCs

This test report may not be copied except in full without written consent of GSI.
Test results are valid for the referenced concrete samples, materials batch(es) and test methods only.
No representation is made as to the physical properties of other concrete batches or other samples or the quality of the completed project.

TYPE OF FRACTURE: Co = Cone, Sp = Cone and Split, Ca = Cone and Shear, Sh = Shear, Cl = Columnar, Di = Other, M = Mixed, A = Aggregate

ASTM Test Methods: Slump-C143, Air Content-C231, Unit Weight/Yield-C138, Compressive Strength-C39, Flexural Strength-C78

Copies To:

Reviewed By: John J. Schuller

Project: Brenntag Facility

Location: Wichita, Kansas

Client: Hulcher Professional Services

Job No. 077264

Date Issued: 10/15/07

GSI

4503 East 47th Street South - Wichita, Kansas 67210 (316) 554-0725

CONCRETE TEST REPORT

TEST NO.	DATE TESTED	LOCATION	FILL/EXC DEPTH (ft.)	SOIL DESCRIPTION	M & D DATA MAX DENS.	M & D DATA OPT MC %	REQUIREMENTS COMP. %	REQUIREMENTS MC +/- OPT	TEST RESULTS DENS. (pcf)	TEST RESULTS MC %	TEST RESULTS COMP. %	TEST RESULTS MC +/- OPT	TEST RESULTS PASS FAIL	REMARKS
D9372 1	09/04/07	NORTHEAST CORNER	1ST LIFT	LIGHT BROWN CLAYEY SAND	113.1	14.4	STD	NA	82.7 D2922	17.5 D3017	73.1	NA	FAIL	
D9373 2	09/04/07	SOUTHEAST CORNER	1ST LIFT	LIGHT BROWN CLAYEY SAND	113.1	14.4	STD	NA	82.4 D2922	15.4 D3017	72.9	NA	FAIL	
D9374 3	09/04/07	NORTHWEST CORNER	1ST LIFT	LIGHT BROWN CLAYEY SAND	113.1	14.4	STD	NA	82.8 D2922	14.9 D3017	73.2	NA	FAIL	
D9375 4	09/04/07	NORTHWEST CORNER	1ST LIFT	LIGHT BROWN CLAYEY SAND	113.1	14.4	STD	NA	91.0 D2922	13.2 D3017	80.5	NA	FAIL	
D9376 1A	09/04/07	NORTHEAST CORNER	1ST LIFT	LIGHT BROWN CLAYEY SAND	113.1	14.4	STD	NA	85.7 D2922	14.5 D3017	75.8	NA	FAIL	RETEST OF 1
D9377 2A	09/04/07	SOUTHEAST CORNER	1ST LIFT	LIGHT BROWN CLAYEY SAND	113.1	14.4	STD	NA	87.5 D2922	17.5 D3017	77.4	NA	FAIL	RETEST OF 2
D9378 5	09/04/07	SOUTHEAST CORNER	2ND LIFT	LIGHT BROWN CLAYEY SAND	113.1	14.4	STD 95	NA	105.5 D2922	12.8 D3017	93.3	NA	PASS	COMPACTION 90-95% OKAY
9379 6	09/04/07	NORTHEAST CORNER	2ND LIFT	LIGHT BROWN CLAYEY SAND	113.1	14.4	STD 95	NA	110.1 D2922	12.7 D3017	97.3	NA	PASS	COMPACTION 90-95% OKAY
9380 7	09/04/07	NORTHWEST CORNER	2ND LIFT	LIGHT BROWN CLAYEY SAND	113.1	14.4	STD 95	NA	109.1 D2922	12.1 D3017	96.5	NA	PASS	COMPACTION 90-95% OKAY
9381 8	09/05/07	SOUTHEAST CORNER	2ND LIFT	LIGHT BROWN CLAYEY SAND	113.1	14.4	STD 95	NA	112.1 D2922	11.2 D3017	99.1	NA	PASS	COMPACTION 90-95% OKAY
9382 9	09/05/07	NORTHEAST CORNER	2ND LIFT	LIGHT BROWN CLAYEY SAND	113.1	14.4	STD 95	NA	108.3 D2922	13.5 D3017	95.8	NA	PASS	COMPACTION 90-95% OKAY

ITM Test Methods:

Density by: D2922 Nuclear, D1556 Sand Cone, D1587 Thin Walled Tube, D2167 Rubber Balloon, D2937 Drive Cylinder. Moisture by: D3017 Nuclear, D2216 Laboratory, D4643 Microwave oven, D4944 Calcium Carbide Gas, D4959 Direct Heating.

This test report may not be copied except in full without written consent of GSI.
Test results are valid for the referenced test method, test locations and depths only.
No representation is made as to the physical properties of other fill material or the completed project.

Type of Test: BACKFILL

Page: 1 OF 2

Report Dates: 09/04/2007 TO 09/05/2007

NOTE: Test Numbers followed by an alphabetical letter indicates a RETEST.

ASTM method is beneath test result.

Results To:

Reviewed By: John J. Schuller

Project: BRENNTAG FACILITY

Location: WICHITA, KS

Client: HULCHER PROFESSIONAL SERVICE

Job No: 077254

Date Issued: SEPTEMBER 13, 2007

Geotechnical Services Inc.
5503 E. 47th St. South, Wichita, KS 67210 (316) 554-0725

COMPACTION TEST REPORT

11/26/2007 14:09 8164540301 HULCHER 38 PAGE 03/10

TEST NO.	DATE TESTED	LOCATION	FILL/EXC DEPTH (ft.)	SOIL DESCRIPTION	M & D DATA MAX DENS	M & D DATA OPT MC %	REQUIREMENTS COMP. %	REQUIREMENTS MC +/- OPT.	TEST RESULTS DENS. (pcf)	TEST RESULTS MC %	TEST RESULTS COMP. %	TEST RESULTS MC +/- OPT.	TEST RESULTS PASS FAIL	REMARKS
D9383 10	09/05/07	NORTHWEST CORNER	2ND LIFT	LIGHT BROWN CLAYEY SAND	113.1	14.4	STD 95	NA	105.9 D2922	16.3 D3017	93.6	NA	PASS	COMPACTION 90-95% OKAY
D9384 11	09/05/07	NORTHEAST CORNER	FINAL	LIGHT BROWN CLAYEY SAND	113.1	14.4	STD 95	NA	104.9 D2922	12.2 D3017	92.7	NA	PASS	COMPACTION 90-95% OKAY
D9385 12	09/05/07	SOUTHEAST CORNER	FINAL	LIGHT BROWN CLAYEY SAND	113.1	14.4	STD 95	NA	105.0 D2922	14.6 D3017	92.9	NA	PASS	COMPACTION 90-95% OKAY
D9386 13	09/05/07	NORTHWEST CORNER	FINAL	LIGHT BROWN CLAYEY SAND	113.1	14.4	STD 95	NA	105.2 D2922	17.3 D3017	93.9	NA	PASS	COMPACTION 90-95% OKAY

STM Test Methods:

ensity by: D2922 Nuclear, D1556 Sand Cone, D1587 Thin Walled Tube, D2167 Rubber Balloon, D2937 Drive Cylinder.

Moisture by: D3017 Nuclear, D2216 Laboratory, D4643 Microwave over, D4944 Calcium Carbide Gas, D4959 Direct Heating.

is test report may not be copied except in full without written consent of GSI.
st results are valid for the referenced test method, test locations and depths only.
representation is made as to the physical properties of other fill material or the completed project.

Type of Test: BACKFILL

Page: 2 OF 2

Report Dates: 09/04/2007 TO 09/05/2007

NOTE: Test Numbers followed by an alphabetical letter indicates a RETEST.
ASTM method is beneath test result.

pies To:

Reviewed By:

Project: BRENNTAG FACILITY

Location: WICHITA, KS

Client: HULCHER PROFESSIONAL SERVICE

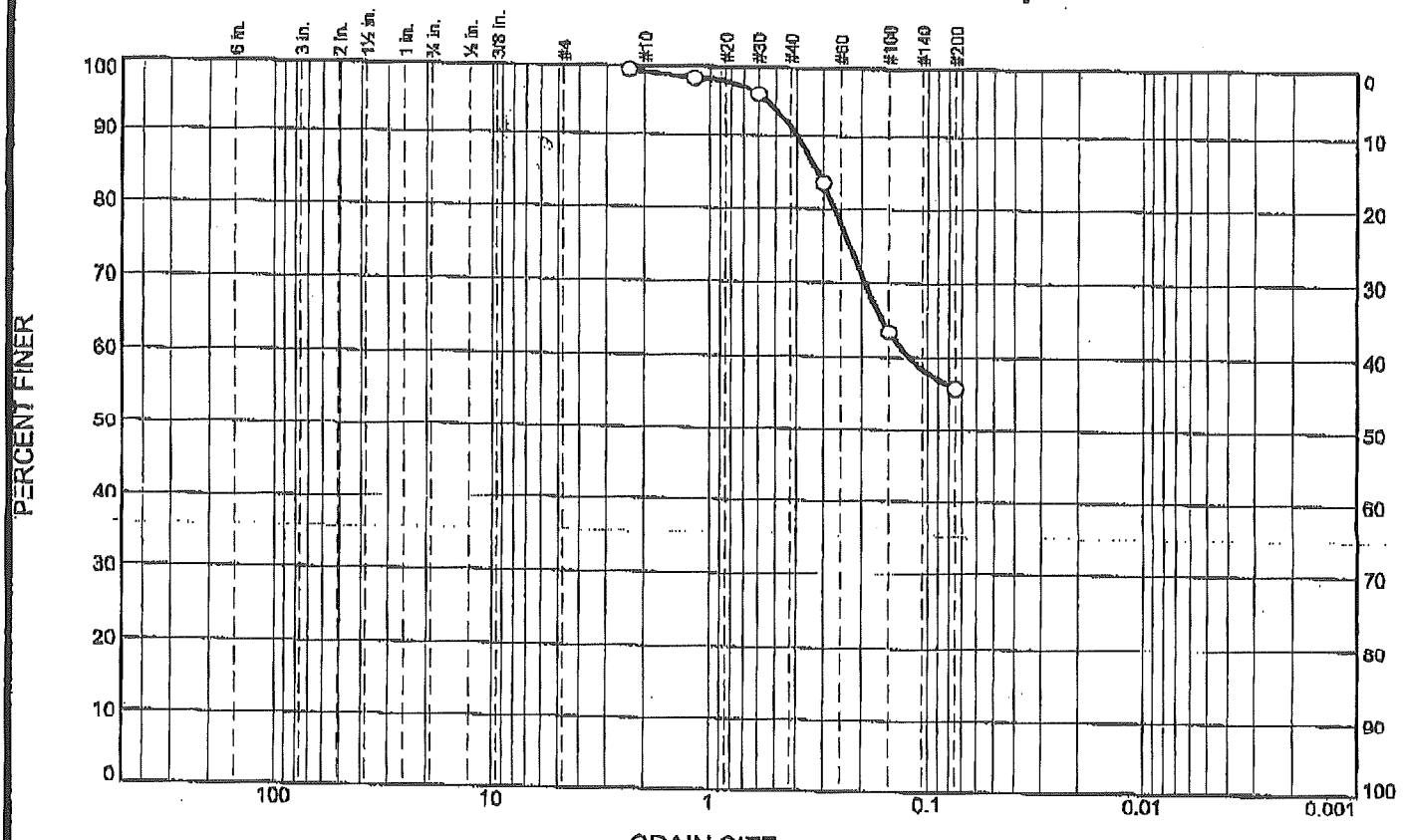
Job No: 077254

Date Issued: SEPTEMBER 13, 2007

Geotechnical Services Inc.
4503 E. 47th St. South, Wichita, KS 67210 (316) 554-0725

COMPACTION TEST REPORT

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
				8	35	56	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#8	100		
#16	98		
#30	96		
#50	83		
#100	63		
#200	56		

* (no specification provided)

Material Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.3180 D_{60}= 0.1225 D_{50}=
D_{30}= D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= AASHTO=

Remarks

Sample Number: 7-195 **Date:** 09/08/07

GSI Geotechnical Services, Inc.
4503 East 47th Street South, Wichita, KS 67210
(316) 554-0726 Fax (316) 554-0744

Client: Hulcher
Project: Brentag Site
Project No: 077254 **Figure**

Tested By: John Schuller **Checked By:** James Aamodt, P.E.

ATTACHMENT 6
ANALYTICAL DATA

PACE ANALYTICAL SDG 6027657 BACKFILL SAMPLES
PACE ANALYTICAL SDG 6028113 BACKFILL SAMPLES
PACE ANALYTICAL SDG 6027765 CONFIRMATION SAMPLES
PACE ANALYTICAL SDG 6027822 CONFIRMATION SAMPLES
PACE ANALYTICAL SDG 6028075 CONFIRMATION SAMPLES

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 30, 2007

KRIS GAMBLE
The Forrester Group
605 N BOONVILLE
Springfield, MO 65806

RE: Project: Brenntag-IRMS
Pace Project No.: 6027657

Dear KRIS GAMBLE:
Enclosed are the analytical results for sample(s) received by the laboratory on August 28, 2007. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angie Brown

Angie.Brown@pacelabs.com
Project Manager

A2LA Certification Number: 2456.01
Arkansas Certification Number: 05-008-0
Illinois Certification Number: 001191
Iowa Certification Number: 118
Kansas/NELAP Certification Number: E-10116
Louisiana Certification Number: 03055
Oklahoma Certification Number: 9205/9935
Utah Certification Number: 9135995665

Enclosures

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: Brenntag-IRMS
Pace Project No.: 6027657

Lab ID	Sample ID	Matrix	Date Collected	Date Received
6027657001	IRM-BACKFILL	Solid	08/27/07 11:50	08/28/07 07:40

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Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: Brenntag-IRMS
Pace Project No.: 6027657

Lab ID	Sample ID	Method	Analytes Reported
6027657001	IRM-BACKFILL	ASTM D2974-87	1
		EPA 6010	7
		EPA 7471	1
		EPA 8260	69

REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Brenntag-IRMS
Pace Project No.: 6027657

Sample: IRM-BACKFILL **Lab ID: 6027657001** Collected: 08/27/07 11:50 Received: 08/28/07 07:40 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**3.4**	mg/kg	0.84	1	08/28/07 00:00	08/29/07 14:28	7440-38-2	
Barium	**114**	mg/kg	0.84	1	08/28/07 00:00	08/29/07 14:28	7440-39-3	
Cadmium	ND	mg/kg	0.42	1	08/28/07 00:00	08/29/07 14:28	7440-43-9	
Chromium	**8.7**	mg/kg	0.42	1	08/28/07 00:00	08/29/07 14:28	7440-47-3	
Lead	**7.0**	mg/kg	0.42	1	08/28/07 00:00	08/29/07 14:28	7439-92-1	
Selenium	ND	mg/kg	1.3	1	08/28/07 00:00	08/29/07 14:28	7782-49-2	
Silver	ND	mg/kg	0.59	1	08/28/07 00:00	08/29/07 14:28	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.047	1	08/28/07 00:00	08/28/07 13:56	7439-97-6	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	20.5	1		08/28/07 13:19	67-64-1	
Benzene	ND	ug/kg	5.1	1		08/28/07 13:19	71-43-2	
Bromobenzene	ND	ug/kg	5.1	1		08/28/07 13:19	108-86-1	
Bromochloromethane	ND	ug/kg	5.1	1		08/28/07 13:19	74-97-5	
Bromodichloromethane	ND	ug/kg	5.1	1		08/28/07 13:19	75-27-4	
Bromoform	ND	ug/kg	5.1	1		08/28/07 13:19	75-25-2	
Bromomethane	ND	ug/kg	5.1	1		08/28/07 13:19	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.3	1		08/28/07 13:19	78-93-3	
n-Butylbenzene	ND	ug/kg	5.1	1		08/28/07 13:19	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.1	1		08/28/07 13:19	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.1	1		08/28/07 13:19	98-06-6	
Carbon disulfide	ND	ug/kg	5.1	1		08/28/07 13:19	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.1	1		08/28/07 13:19	56-23-5	
Chlorobenzene	ND	ug/kg	5.1	1		08/28/07 13:19	108-90-7	
Chloroethane	ND	ug/kg	5.1	1		08/28/07 13:19	75-00-3	
Chloroform	ND	ug/kg	5.1	1		08/28/07 13:19	67-66-3	
Chloromethane	ND	ug/kg	5.1	1		08/28/07 13:19	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.1	1		08/28/07 13:19	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.1	1		08/28/07 13:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.1	1		08/28/07 13:19	96-12-8	
Dibromochloromethane	ND	ug/kg	5.1	1		08/28/07 13:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.1	1		08/28/07 13:19	106-93-4	
Dibromomethane	ND	ug/kg	5.1	1		08/28/07 13:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.1	1		08/28/07 13:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.1	1		08/28/07 13:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.1	1		08/28/07 13:19	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.1	1		08/28/07 13:19	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.1	1		08/28/07 13:19	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.1	1		08/28/07 13:19	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	5.1	1		08/28/07 13:19	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.1	1		08/28/07 13:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.1	1		08/28/07 13:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.1	1		08/28/07 13:19	156-60-5	

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ANALYTICAL RESULTS

Project: Brenntag-IRMS
Pace Project No.: 6027657

Sample: IRM-BACKFILL **Lab ID: 6027657001** Collected: 08/27/07 11:50 Received: 08/28/07 07:40 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
1,2-Dichloropropane	ND	ug/kg	5.1	1		08/28/07 13:19	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.1	1		08/28/07 13:19	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.1	1		08/28/07 13:19	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.1	1		08/28/07 13:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.1	1		08/28/07 13:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.1	1		08/28/07 13:19	10061-02-6	
Ethylbenzene	ND	ug/kg	5.1	1		08/28/07 13:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.1	1		08/28/07 13:19	87-68-3	
2-Hexanone	ND	ug/kg	20.5	1		08/28/07 13:19	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.1	1		08/28/07 13:19	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.1	1		08/28/07 13:19	99-87-6	
Methylene chloride	**7.3**	ug/kg	5.1	1		08/28/07 13:19	75-09-2	C7
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.3	1		08/28/07 13:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.1	1		08/28/07 13:19	1634-04-4	
Naphthalene	ND	ug/kg	10.3	1		08/28/07 13:19	91-20-3	
n-Propylbenzene	ND	ug/kg	5.1	1		08/28/07 13:19	103-65-1	
Styrene	ND	ug/kg	5.1	1		08/28/07 13:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.1	1		08/28/07 13:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.1	1		08/28/07 13:19	79-34-5	
Tetrachloroethene	ND	ug/kg	5.1	1		08/28/07 13:19	127-18-4	
Toluene	ND	ug/kg	5.1	1		08/28/07 13:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.1	1		08/28/07 13:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.1	1		08/28/07 13:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.1	1		08/28/07 13:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.1	1		08/28/07 13:19	79-00-5	
Trichloroethene	ND	ug/kg	5.1	1		08/28/07 13:19	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.1	1		08/28/07 13:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.1	1		08/28/07 13:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.1	1		08/28/07 13:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.1	1		08/28/07 13:19	108-67-8	
Vinyl chloride	ND	ug/kg	5.1	1		08/28/07 13:19	75-01-4	
Xylene (Total)	ND	ug/kg	5.1	1		08/28/07 13:19	1330-20-7	
Dibromofluoromethane (S)	102	%	74-119	1		08/28/07 13:19	1868-53-7	
Toluene-d8 (S)	97	%	82-119	1		08/28/07 13:19	2037-26-5	
4-Bromofluorobenzene (S)	87	%	83-124	1		08/28/07 13:19	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	72-124	1		08/28/07 13:19	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**3.3**	%	0.10	1		08/29/07 00:00		

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QUALITY CONTROL DATA

Project: Brenntag-IRMS
Pace Project No.: 6027657

QC Batch: MERP/2194
QC Batch Method: EPA 7471
Analysis Method: EPA 7471
Analysis Description: 7471 Mercury
Associated Lab Samples: 6027657001

METHOD BLANK: 223308
Associated Lab Samples: 6027657001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	mg/kg	ND	0.050	

LABORATORY CONTROL SAMPLE: 223309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.49	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 223310 223311

Parameter	Units	6027657001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	.47	.46	0.45	0.45	97	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: Brenntag-IRMS
Pace Project No.: 6027657

QC Batch: MSV/9861
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 6027657001

METHOD BLANK: 223315
Associated Lab Samples: 6027657001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	
1,1,1-Trichloroethane	ug/kg	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	
1,1,2-Trichloroethane	ug/kg	ND	5.0	
1,1-Dichloroethane	ug/kg	ND	5.0	
1,1-Dichloroethene	ug/kg	ND	5.0	
1,1-Dichloropropene	ug/kg	ND	5.0	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	
1,2,3-Trichloropropane	ug/kg	ND	5.0	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	
1,2-Dichlorobenzene	ug/kg	ND	5.0	
1,2-Dichloroethane	ug/kg	ND	5.0	
1,2-Dichloroethene (Total)	ug/kg	ND	5.0	
1,2-Dichloropropane	ug/kg	ND	5.0	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	
1,3-Dichlorobenzene	ug/kg	ND	5.0	
1,3-Dichloropropane	ug/kg	ND	5.0	
1,4-Dichlorobenzene	ug/kg	ND	5.0	
2,2-Dichloropropane	ug/kg	ND	5.0	
2-Butanone (MEK)	ug/kg	ND	10.0	
2-Chlorotoluene	ug/kg	ND	5.0	
2-Hexanone	ug/kg	ND	20.0	
4-Chlorotoluene	ug/kg	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	
Acetone	ug/kg	ND	20.0	
Benzene	ug/kg	ND	5.0	
Bromobenzene	ug/kg	ND	5.0	
Bromochloromethane	ug/kg	ND	5.0	
Bromodichloromethane	ug/kg	ND	5.0	
Bromoform	ug/kg	ND	5.0	
Bromomethane	ug/kg	ND	5.0	
Carbon disulfide	ug/kg	ND	5.0	
Carbon tetrachloride	ug/kg	ND	5.0	
Chlorobenzene	ug/kg	ND	5.0	
Chloroethane	ug/kg	ND	5.0	
Chloroform	ug/kg	ND	5.0	
Chloromethane	ug/kg	ND	5.0	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	
Dibromochloromethane	ug/kg	ND	5.0	

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QUALITY CONTROL DATA

Project: Brenntag-IRMS
Pace Project No.: 6027657

METHOD BLANK: 223315
Associated Lab Samples: 6027657001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dibromomethane	ug/kg	ND	5.0	
Dichlorodifluoromethane	ug/kg	ND	5.0	
Ethylbenzene	ug/kg	ND	5.0	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	
Methyl-tert-butyl ether	ug/kg	ND	5.0	
Methylene chloride	ug/kg	ND	5.0	
n-Butylbenzene	ug/kg	ND	5.0	
n-Propylbenzene	ug/kg	ND	5.0	
Naphthalene	ug/kg	ND	10.0	
p-Isopropyltoluene	ug/kg	ND	5.0	
sec-Butylbenzene	ug/kg	ND	5.0	
Styrene	ug/kg	ND	5.0	
tert-Butylbenzene	ug/kg	ND	5.0	
Tetrachloroethene	ug/kg	ND	5.0	
Toluene	ug/kg	ND	5.0	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	
Trichloroethene	ug/kg	ND	5.0	
Trichlorofluoromethane	ug/kg	ND	5.0	
Vinyl chloride	ug/kg	ND	5.0	
Xylene (Total)	ug/kg	ND	5.0	
1,2-Dichloroethane-d4 (S)	%	110	72-124	
4-Bromofluorobenzene (S)	%	99	83-124	
Dibromofluoromethane (S)	%	109	74-119	
Toluene-d8 (S)	%	106	82-119	

LABORATORY CONTROL SAMPLE: 223316

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	54.0	108	84-120	
1,1,1-Trichloroethane	ug/kg	50	55.8	112	85-123	
1,1,2,2-Tetrachloroethane	ug/kg	50	51.0	102	76-130	
1,1,2-Trichloroethane	ug/kg	50	54.9	110	77-128	
1,1-Dichloroethane	ug/kg	50	54.1	108	83-125	
1,1-Dichloroethene	ug/kg	50	55.9	112	75-148	
1,1-Dichloropropene	ug/kg	50	53.2	106	86-128	
1,2,3-Trichlorobenzene	ug/kg	50	53.4	107	80-123	
1,2,3-Trichloropropane	ug/kg	50	44.9	90	72-117	
1,2,4-Trichlorobenzene	ug/kg	50	52.2	104	77-127	
1,2,4-Trimethylbenzene	ug/kg	50	49.2	98	83-123	
1,2-Dibromo-3-chloropropane	ug/kg	50	49.8	100	80-122	
1,2-Dibromoethane (EDB)	ug/kg	50	53.1	106	82-122	
1,2-Dichlorobenzene	ug/kg	50	51.0	102	86-118	
1,2-Dichloroethane	ug/kg	50	53.5	107	82-125	

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QUALITY CONTROL DATA

Project: Brenntag-IRMS
Pace Project No.: 6027657

LABORATORY CONTROL SAMPLE: 223316

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/kg	100	109	109	81-133	
1,2-Dichloropropane	ug/kg	50	51.2	102	82-125	
1,3,5-Trimethylbenzene	ug/kg	50	49.1	98	81-125	
1,3-Dichlorobenzene	ug/kg	50	49.0	98	85-117	
1,3-Dichloropropane	ug/kg	50	51.7	103	80-125	
1,4-Dichlorobenzene	ug/kg	50	50.2	100	85-117	
2,2-Dichloropropane	ug/kg	50	52.8	106	84-127	
2-Butanone (MEK)	ug/kg	100	89.8	90	68-128	
2-Chlorotoluene	ug/kg	50	50.6	101	85-126	
2-Hexanone	ug/kg	100	94.5	95	60-139	
4-Chlorotoluene	ug/kg	50	49.8	100	80-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	100	99.1	99	76-120	
Acetone	ug/kg	100	93.6	94	54-132	
Benzene	ug/kg	50	51.0	102	81-125	
Bromobenzene	ug/kg	50	53.0	106	78-124	
Bromochloromethane	ug/kg	50	56.0	112	82-130	
Bromodichloromethane	ug/kg	50	57.0	114	86-127	
Bromoform	ug/kg	50	48.5	97	71-117	
Bromomethane	ug/kg	50	44.3	89	60-134	
Carbon disulfide	ug/kg	100	73.2	73	45-135	
Carbon tetrachloride	ug/kg	50	54.1	108	84-129	
Chlorobenzene	ug/kg	50	51.7	103	87-118	
Chloroethane	ug/kg	50	41.9	84	59-133	
Chloroform	ug/kg	50	52.8	106	80-120	
Chloromethane	ug/kg	50	29.3	59	45-130	
cis-1,2-Dichloroethene	ug/kg	50	53.0	106	79-130	
cis-1,3-Dichloropropene	ug/kg	50	53.9	108	87-120	
Dibromochloromethane	ug/kg	50	57.2	114	80-126	
Dibromomethane	ug/kg	50	56.5	113	86-123	
Dichlorodifluoromethane	ug/kg	50	18.8	38	10-139	
Ethylbenzene	ug/kg	50	52.9	106	85-119	
Hexachloro-1,3-butadiene	ug/kg	50	55.2	110	79-138	
Isopropylbenzene (Cumene)	ug/kg	50	46.9	94	79-111	
Methyl-tert-butyl ether	ug/kg	50	46.3	93	78-119	
Methylene chloride	ug/kg	50	54.5	109	72-122	
n-Butylbenzene	ug/kg	50	50.1	100	82-129	
n-Propylbenzene	ug/kg	50	49.4	99	82-127	
Naphthalene	ug/kg	50	52.4	105	70-129	
p-Isopropyltoluene	ug/kg	50	47.3	95	82-121	
sec-Butylbenzene	ug/kg	50	49.3	99	83-126	
Styrene	ug/kg	50	53.4	107	84-121	
tert-Butylbenzene	ug/kg	50	49.1	98	84-122	
Tetrachloroethene	ug/kg	50	54.2	108	83-126	
Toluene	ug/kg	50	50.2	100	83-122	
trans-1,2-Dichloroethene	ug/kg	50	55.8	112	80-139	
trans-1,3-Dichloropropene	ug/kg	50	54.0	108	78-128	
Trichloroethene	ug/kg	50	53.6	107	86-123	
Trichlorofluoromethane	ug/kg	50	43.1	86	69-130	

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QUALITY CONTROL DATA

Project: Brenntag-IRMS
Pace Project No.: 6027657

LABORATORY CONTROL SAMPLE: 223316

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/kg	50	32.3	65	53-135	
Xylene (Total)	ug/kg	150	156	104	84-118	
1,2-Dichloroethane-d4 (S)	%			97	72-124	
4-Bromofluorobenzene (S)	%			97	83-124	
Dibromofluoromethane (S)	%			101	74-119	
Toluene-d8 (S)	%			104	82-119	

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QUALITY CONTROL DATA

Project: Brenntag-IRMS
Pace Project No.: 6027657

QC Batch: MPRP/4678
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 6027657001

METHOD BLANK: 223365
Associated Lab Samples: 6027657001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Arsenic	mg/kg	ND	1.0	
Barium	mg/kg	ND	1.0	
Cadmium	mg/kg	ND	0.50	
Chromium	mg/kg	ND	0.50	
Lead	mg/kg	ND	0.50	
Selenium	mg/kg	ND	1.5	
Silver	mg/kg	ND	0.70	

LABORATORY CONTROL SAMPLE: 223366

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	52.4	105	80-120	
Barium	mg/kg	50	50.4	101	80-120	
Cadmium	mg/kg	50	52.7	105	80-120	
Chromium	mg/kg	50	51.0	102	80-120	
Lead	mg/kg	50	51.6	103	80-120	
Selenium	mg/kg	50	49.5	99	80-120	
Silver	mg/kg	25	24.5	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 223367 223368

Parameter	Units	6027657001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	3.4	40.1	41.4	36.7	37.9	83	83	75-125	3	14	
Barium	mg/kg	114	40.1	41.4	106	125	-21	26	75-125	17	20	M0
Cadmium	mg/kg	ND	40.1	41.4	34.3	34.8	86	84	75-125	1	13	
Chromium	mg/kg	8.7	40.1	41.4	40.9	42.7	80	82	75-125	4	15	
Lead	mg/kg	7.0	40.1	41.4	39.8	40.8	82	82	75-125	3	20	
Selenium	mg/kg	ND	40.1	41.4	32.7	33.2	82	80	75-125	1	14	
Silver	mg/kg	ND	20.1	20.7	16.4	16.4	82	79	75-125	0	17	

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QUALITY CONTROL DATA

Project: Brenntag-IRMS
Pace Project No.: 6027657

QC Batch: PMST/2439
QC Batch Method: ASTM D2974-87
Associated Lab Samples: 6027657001

Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture

SAMPLE DUPLICATE: 223824

Parameter	Units	6027530001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.6	19.6	5	20	

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QUALIFIERS

Project: Brenntag-IRMS
Pace Project No.: 6027657

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

C7	Analyte is a possible laboratory contaminant (not present in method blank).
M0	Matrix spike recovery was outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Brenntag-IRMS
Pace Project No.: 6027657

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
6027657001	IRM-BACKFILL	EPA 7471	MERP/2194	EPA 7471	MERC/2173
6027657001	IRM-BACKFILL	EPA 8260	MSV/9861		
6027657001	IRM-BACKFILL	EPA 3050	MPRP/4678	EPA 6010	ICP/4153
6027657001	IRM-BACKFILL	ASTM D2974-87	PMST/2439		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1127897

Section A Required Client Information:

Company: The Forester Group
Address: 605 N Boonville, Springfield, MO 65806
Email To: Kris@forestergroup.com
Phone: 417-861-6160 Fax: 417-864-6445
Requested Due Date/TAT: 3 Day

Section B Required Project Information:

Report To: Bob Kick
Copy To: Kris Gamble
Purchase Order No.: 477-600
Project Name: Brenntag - IRMS
Project Number: 14770000

Section C Invoice Information:

Attention: Bob Kick
Company Name: The Forester Group
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: KS

Requested Analysis Filtered (Y/N)

6027657

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Total VOC 8260	RCRA Metals 6010	Temperature	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	IRM-Backfill-01	SL	G			8-27-07	1150		2	X						X			X	X			
2	Temp Blank	WT																		X			
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Shipped via Courier	Kris Gamble	8-27-07	1400	[illegible]	08/27/07	1540	1.2	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kris Gamble

SIGNATURE of SAMPLER: Kris Gamble

DATE Signed (MM/DD/YY): 8-27-07

2

F-ALL-Q-020rev.07, 15-May-2007

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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September 19, 2007

KRIS GAMBLE
The Forrester Group
605 N BOONVILLE
Springfield, MO 65806

RE: Project: Brenntag-IRMS
Pace Project No.: 6028113

Dear KRIS GAMBLE:
Enclosed are the analytical results for sample(s) received by the laboratory on September 07, 2007. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angie Brown

Angie.Brown@pacelabs.com
Project Manager

A2LA Certification Number: 2456.01
Arkansas Certification Number: 05-008-0
Illinois Certification Number: 001191
Iowa Certification Number: 118
Kansas/NELAP Certification Number: E-10116
Louisiana Certification Number: 03055
Oklahoma Certification Number: 9205/9935
Utah Certification Number: 9135995665

Enclosures

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SAMPLE SUMMARY

Project: Brenntag-IRMS
Pace Project No.: 6028113

Lab ID	Sample ID	Matrix	Date Collected	Date Received
6028113001	IRM-BACKFILL-02	Solid	09/04/07 10:25	09/07/07 07:15
6028113002	IRM-BACKFILL-03	Solid	09/04/07 13:25	09/07/07 07:15
6028113003	IRM-BACKFILL-04	Solid	09/06/07 14:20	09/07/07 07:15

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SAMPLE ANALYTE COUNT

Project: Brenntag-IRMS
Pace Project No.: 6028113

Lab ID	Sample ID	Method	Analytes Reported
6028113001	IRM-BACKFILL-02	ASTM D2974-87	1
		EPA 6010	7
		EPA 7471	1
		EPA 8260	69
6028113002	IRM-BACKFILL-03	ASTM D2974-87	1
		EPA 6010	7
		EPA 7471	1
		EPA 8260	69
6028113003	IRM-BACKFILL-04	ASTM D2974-87	1
		EPA 6010	7
		EPA 7471	1
		EPA 8260	69

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ANALYTICAL RESULTS

Project: Brenntag-IRMS
Pace Project No.: 6028113

Sample: IRM-BACKFILL-02 **Lab ID: 6028113001** Collected: 09/04/07 10:25 Received: 09/07/07 07:15 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	1.0	1	09/11/07 00:00	09/14/07 11:03	7440-38-2	
Barium	**53.6**	mg/kg	1.0	1	09/11/07 00:00	09/14/07 11:03	7440-39-3	
Cadmium	ND	mg/kg	0.50	1	09/11/07 00:00	09/14/07 11:03	7440-43-9	
Chromium	**5.0**	mg/kg	0.50	1	09/11/07 00:00	09/14/07 11:03	7440-47-3	
Lead	**3.3**	mg/kg	0.50	1	09/11/07 00:00	09/14/07 11:03	7439-92-1	
Selenium	ND	mg/kg	1.5	1	09/11/07 00:00	09/14/07 11:03	7782-49-2	
Silver	ND	mg/kg	0.70	1	09/11/07 00:00	09/14/07 11:03	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.053	1	09/10/07 00:00	09/10/07 17:08	7439-97-6	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	21.5	1		09/11/07 13:18	67-64-1	
Benzene	ND	ug/kg	5.4	1		09/11/07 13:18	71-43-2	
Bromobenzene	ND	ug/kg	5.4	1		09/11/07 13:18	108-86-1	
Bromochloromethane	ND	ug/kg	5.4	1		09/11/07 13:18	74-97-5	
Bromodichloromethane	ND	ug/kg	5.4	1		09/11/07 13:18	75-27-4	
Bromoform	ND	ug/kg	5.4	1		09/11/07 13:18	75-25-2	
Bromomethane	ND	ug/kg	5.4	1		09/11/07 13:18	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.7	1		09/11/07 13:18	78-93-3	
n-Butylbenzene	ND	ug/kg	5.4	1		09/11/07 13:18	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.4	1		09/11/07 13:18	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.4	1		09/11/07 13:18	98-06-6	
Carbon disulfide	ND	ug/kg	5.4	1		09/11/07 13:18	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.4	1		09/11/07 13:18	56-23-5	
Chlorobenzene	ND	ug/kg	5.4	1		09/11/07 13:18	108-90-7	
Chloroethane	ND	ug/kg	5.4	1		09/11/07 13:18	75-00-3	
Chloroform	ND	ug/kg	5.4	1		09/11/07 13:18	67-66-3	
Chloromethane	ND	ug/kg	5.4	1		09/11/07 13:18	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.4	1		09/11/07 13:18	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.4	1		09/11/07 13:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.4	1		09/11/07 13:18	96-12-8	
Dibromochloromethane	ND	ug/kg	5.4	1		09/11/07 13:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.4	1		09/11/07 13:18	106-93-4	
Dibromomethane	ND	ug/kg	5.4	1		09/11/07 13:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.4	1		09/11/07 13:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.4	1		09/11/07 13:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.4	1		09/11/07 13:18	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.4	1		09/11/07 13:18	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.4	1		09/11/07 13:18	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.4	1		09/11/07 13:18	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	5.4	1		09/11/07 13:18	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.4	1		09/11/07 13:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.4	1		09/11/07 13:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.4	1		09/11/07 13:18	156-60-5	

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ANALYTICAL RESULTS

Project: Brenntag-IRMS
Pace Project No.: 6028113

Sample: IRM-BACKFILL-02 **Lab ID: 6028113001** Collected: 09/04/07 10:25 Received: 09/07/07 07:15 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
1,2-Dichloropropane	ND	ug/kg	5.4	1		09/11/07 13:18	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.4	1		09/11/07 13:18	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.4	1		09/11/07 13:18	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.4	1		09/11/07 13:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.4	1		09/11/07 13:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.4	1		09/11/07 13:18	10061-02-6	
Ethylbenzene	ND	ug/kg	5.4	1		09/11/07 13:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.4	1		09/11/07 13:18	87-68-3	
2-Hexanone	ND	ug/kg	21.5	1		09/11/07 13:18	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.4	1		09/11/07 13:18	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.4	1		09/11/07 13:18	99-87-6	
Methylene chloride	ND	ug/kg	5.4	1		09/11/07 13:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.7	1		09/11/07 13:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.4	1		09/11/07 13:18	1634-04-4	
Naphthalene	ND	ug/kg	10.7	1		09/11/07 13:18	91-20-3	
n-Propylbenzene	ND	ug/kg	5.4	1		09/11/07 13:18	103-65-1	
Styrene	ND	ug/kg	5.4	1		09/11/07 13:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.4	1		09/11/07 13:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	1		09/11/07 13:18	79-34-5	
Tetrachloroethene	ND	ug/kg	5.4	1		09/11/07 13:18	127-18-4	
Toluene	ND	ug/kg	5.4	1		09/11/07 13:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.4	1		09/11/07 13:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.4	1		09/11/07 13:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.4	1		09/11/07 13:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.4	1		09/11/07 13:18	79-00-5	
Trichloroethene	ND	ug/kg	5.4	1		09/11/07 13:18	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.4	1		09/11/07 13:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.4	1		09/11/07 13:18	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.4	1		09/11/07 13:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.4	1		09/11/07 13:18	108-67-8	
Vinyl chloride	ND	ug/kg	5.4	1		09/11/07 13:18	75-01-4	
Xylene (Total)	ND	ug/kg	5.4	1		09/11/07 13:18	1330-20-7	
Dibromofluoromethane (S)	98	%	74-119	1		09/11/07 13:18	1868-53-7	
Toluene-d8 (S)	99	%	82-119	1		09/11/07 13:18	2037-26-5	
4-Bromofluorobenzene (S)	102	%	83-124	1		09/11/07 13:18	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	72-124	1		09/11/07 13:18	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	14.6	%	0.10	1		09/11/07 00:00		

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ANALYTICAL RESULTS

Project: Brenntag-IRMS
Pace Project No.: 6028113

Sample: IRM-BACKFILL-03 **Lab ID: 6028113002** Collected: 09/04/07 13:25 Received: 09/07/07 07:15 Matrix: Solid
Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**1.6**	mg/kg	0.96	1	09/11/07 00:00	09/14/07 11:07	7440-38-2	
Barium	**37.5**	mg/kg	0.96	1	09/11/07 00:00	09/14/07 11:07	7440-39-3	
Cadmium	ND	mg/kg	0.48	1	09/11/07 00:00	09/14/07 11:07	7440-43-9	
Chromium	**3.1**	mg/kg	0.48	1	09/11/07 00:00	09/14/07 11:07	7440-47-3	
Lead	**2.8**	mg/kg	0.48	1	09/11/07 00:00	09/14/07 11:07	7439-92-1	
Selenium	ND	mg/kg	1.4	1	09/11/07 00:00	09/14/07 11:07	7782-49-2	
Silver	ND	mg/kg	0.67	1	09/11/07 00:00	09/14/07 11:07	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.045	1	09/10/07 00:00	09/10/07 17:10	7439-97-6	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	19.6	1		09/11/07 13:35	67-64-1	
Benzene	ND	ug/kg	4.9	1		09/11/07 13:35	71-43-2	
Bromobenzene	ND	ug/kg	4.9	1		09/11/07 13:35	108-86-1	
Bromochloromethane	ND	ug/kg	4.9	1		09/11/07 13:35	74-97-5	
Bromodichloromethane	ND	ug/kg	4.9	1		09/11/07 13:35	75-27-4	
Bromoform	ND	ug/kg	4.9	1		09/11/07 13:35	75-25-2	
Bromomethane	ND	ug/kg	4.9	1		09/11/07 13:35	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.8	1		09/11/07 13:35	78-93-3	
n-Butylbenzene	ND	ug/kg	4.9	1		09/11/07 13:35	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.9	1		09/11/07 13:35	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.9	1		09/11/07 13:35	98-06-6	
Carbon disulfide	ND	ug/kg	4.9	1		09/11/07 13:35	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.9	1		09/11/07 13:35	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	1		09/11/07 13:35	108-90-7	
Chloroethane	ND	ug/kg	4.9	1		09/11/07 13:35	75-00-3	
Chloroform	ND	ug/kg	4.9	1		09/11/07 13:35	67-66-3	
Chloromethane	ND	ug/kg	4.9	1		09/11/07 13:35	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.9	1		09/11/07 13:35	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.9	1		09/11/07 13:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.9	1		09/11/07 13:35	96-12-8	
Dibromochloromethane	ND	ug/kg	4.9	1		09/11/07 13:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.9	1		09/11/07 13:35	106-93-4	
Dibromomethane	ND	ug/kg	4.9	1		09/11/07 13:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.9	1		09/11/07 13:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.9	1		09/11/07 13:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.9	1		09/11/07 13:35	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	4.9	1		09/11/07 13:35	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.9	1		09/11/07 13:35	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	1		09/11/07 13:35	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	4.9	1		09/11/07 13:35	540-59-0	
1,1-Dichloroethene	ND	ug/kg	4.9	1		09/11/07 13:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1		09/11/07 13:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	1		09/11/07 13:35	156-60-5	

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ANALYTICAL RESULTS

Project: Brenntag-IRMS
Pace Project No.: 6028113

Sample: IRM-BACKFILL-03 **Lab ID: 6028113002** Collected: 09/04/07 13:25 Received: 09/07/07 07:15 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
1,2-Dichloropropane	ND	ug/kg	4.9	1		09/11/07 13:35	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.9	1		09/11/07 13:35	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.9	1		09/11/07 13:35	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.9	1		09/11/07 13:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	1		09/11/07 13:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.9	1		09/11/07 13:35	10061-02-6	
Ethylbenzene	ND	ug/kg	4.9	1		09/11/07 13:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.9	1		09/11/07 13:35	87-68-3	
2-Hexanone	ND	ug/kg	19.6	1		09/11/07 13:35	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	1		09/11/07 13:35	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.9	1		09/11/07 13:35	99-87-6	
Methylene chloride	ND	ug/kg	4.9	1		09/11/07 13:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.8	1		09/11/07 13:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.9	1		09/11/07 13:35	1634-04-4	
Naphthalene	ND	ug/kg	9.8	1		09/11/07 13:35	91-20-3	
n-Propylbenzene	ND	ug/kg	4.9	1		09/11/07 13:35	103-65-1	
Styrene	ND	ug/kg	4.9	1		09/11/07 13:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	1		09/11/07 13:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	1		09/11/07 13:35	79-34-5	
Tetrachloroethene	ND	ug/kg	4.9	1		09/11/07 13:35	127-18-4	
Toluene	ND	ug/kg	4.9	1		09/11/07 13:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.9	1		09/11/07 13:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	1		09/11/07 13:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.9	1		09/11/07 13:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	1		09/11/07 13:35	79-00-5	
Trichloroethene	ND	ug/kg	4.9	1		09/11/07 13:35	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.9	1		09/11/07 13:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.9	1		09/11/07 13:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	1		09/11/07 13:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	1		09/11/07 13:35	108-67-8	
Vinyl chloride	ND	ug/kg	4.9	1		09/11/07 13:35	75-01-4	
Xylene (Total)	ND	ug/kg	4.9	1		09/11/07 13:35	1330-20-7	
Dibromofluoromethane (S)	93	%	74-119	1		09/11/07 13:35	1868-53-7	
Toluene-d8 (S)	100	%	82-119	1		09/11/07 13:35	2037-26-5	
4-Bromofluorobenzene (S)	96	%	83-124	1		09/11/07 13:35	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	72-124	1		09/11/07 13:35	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**6.4**	%	0.10	1		09/11/07 00:00		

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ANALYTICAL RESULTS

Project: Brenntag-IRMS
Pace Project No.: 6028113

Sample: IRM-BACKFILL-04 **Lab ID: 6028113003** Collected: 09/06/07 14:20 Received: 09/07/07 07:15 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	**3.3**	mg/kg	0.97	1	09/11/07 00:00	09/14/07 11:11	7440-38-2	
Barium	**85.2**	mg/kg	0.97	1	09/11/07 00:00	09/14/07 11:11	7440-39-3	
Cadmium	ND	mg/kg	0.49	1	09/11/07 00:00	09/14/07 11:11	7440-43-9	
Chromium	**6.4**	mg/kg	0.49	1	09/11/07 00:00	09/14/07 11:11	7440-47-3	
Lead	**5.0**	mg/kg	0.49	1	09/11/07 00:00	09/14/07 11:11	7439-92-1	
Selenium	ND	mg/kg	1.5	1	09/11/07 00:00	09/14/07 11:11	7782-49-2	
Silver	ND	mg/kg	0.68	1	09/11/07 00:00	09/14/07 11:11	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.049	1	09/10/07 00:00	09/10/07 17:11	7439-97-6	
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**30.9**	ug/kg	29.7	1		09/11/07 13:52	67-64-1	
Benzene	ND	ug/kg	7.4	1		09/11/07 13:52	71-43-2	
Bromobenzene	ND	ug/kg	7.4	1		09/11/07 13:52	108-86-1	
Bromochloromethane	ND	ug/kg	7.4	1		09/11/07 13:52	74-97-5	
Bromodichloromethane	ND	ug/kg	7.4	1		09/11/07 13:52	75-27-4	
Bromoform	ND	ug/kg	7.4	1		09/11/07 13:52	75-25-2	
Bromomethane	ND	ug/kg	7.4	1		09/11/07 13:52	74-83-9	
2-Butanone (MEK)	ND	ug/kg	14.8	1		09/11/07 13:52	78-93-3	
n-Butylbenzene	ND	ug/kg	7.4	1		09/11/07 13:52	104-51-8	
sec-Butylbenzene	ND	ug/kg	7.4	1		09/11/07 13:52	135-98-8	
tert-Butylbenzene	ND	ug/kg	7.4	1		09/11/07 13:52	98-06-6	
Carbon disulfide	ND	ug/kg	7.4	1		09/11/07 13:52	75-15-0	
Carbon tetrachloride	ND	ug/kg	7.4	1		09/11/07 13:52	56-23-5	
Chlorobenzene	ND	ug/kg	7.4	1		09/11/07 13:52	108-90-7	
Chloroethane	ND	ug/kg	7.4	1		09/11/07 13:52	75-00-3	
Chloroform	ND	ug/kg	7.4	1		09/11/07 13:52	67-66-3	
Chloromethane	ND	ug/kg	7.4	1		09/11/07 13:52	74-87-3	
2-Chlorotoluene	ND	ug/kg	7.4	1		09/11/07 13:52	95-49-8	
4-Chlorotoluene	ND	ug/kg	7.4	1		09/11/07 13:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	7.4	1		09/11/07 13:52	96-12-8	
Dibromochloromethane	ND	ug/kg	7.4	1		09/11/07 13:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	7.4	1		09/11/07 13:52	106-93-4	
Dibromomethane	ND	ug/kg	7.4	1		09/11/07 13:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	7.4	1		09/11/07 13:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	7.4	1		09/11/07 13:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	7.4	1		09/11/07 13:52	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	7.4	1		09/11/07 13:52	75-71-8	
1,1-Dichloroethane	ND	ug/kg	7.4	1		09/11/07 13:52	75-34-3	
1,2-Dichloroethane	ND	ug/kg	7.4	1		09/11/07 13:52	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	7.4	1		09/11/07 13:52	540-59-0	
1,1-Dichloroethene	ND	ug/kg	7.4	1		09/11/07 13:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	7.4	1		09/11/07 13:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	7.4	1		09/11/07 13:52	156-60-5	

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ANALYTICAL RESULTS

Project: Brenntag-IRMS
Pace Project No.: 6028113

Sample: IRM-BACKFILL-04 **Lab ID: 6028113003** Collected: 09/06/07 14:20 Received: 09/07/07 07:15 Matrix: Solid
Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
1,2-Dichloropropane	ND	ug/kg	7.4	1		09/11/07 13:52	78-87-5	
1,3-Dichloropropane	ND	ug/kg	7.4	1		09/11/07 13:52	142-28-9	
2,2-Dichloropropane	ND	ug/kg	7.4	1		09/11/07 13:52	594-20-7	
1,1-Dichloropropene	ND	ug/kg	7.4	1		09/11/07 13:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	7.4	1		09/11/07 13:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	7.4	1		09/11/07 13:52	10061-02-6	
Ethylbenzene	ND	ug/kg	7.4	1		09/11/07 13:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	7.4	1		09/11/07 13:52	87-68-3	
2-Hexanone	ND	ug/kg	29.7	1		09/11/07 13:52	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	7.4	1		09/11/07 13:52	98-82-8	
p-Isopropyltoluene	ND	ug/kg	7.4	1		09/11/07 13:52	99-87-6	
Methylene chloride	ND	ug/kg	7.4	1		09/11/07 13:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	14.8	1		09/11/07 13:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	7.4	1		09/11/07 13:52	1634-04-4	
Naphthalene	ND	ug/kg	14.8	1		09/11/07 13:52	91-20-3	
n-Propylbenzene	ND	ug/kg	7.4	1		09/11/07 13:52	103-65-1	
Styrene	ND	ug/kg	7.4	1		09/11/07 13:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	7.4	1		09/11/07 13:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	7.4	1		09/11/07 13:52	79-34-5	
Tetrachloroethene	ND	ug/kg	7.4	1		09/11/07 13:52	127-18-4	
Toluene	ND	ug/kg	7.4	1		09/11/07 13:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	7.4	1		09/11/07 13:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	7.4	1		09/11/07 13:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	7.4	1		09/11/07 13:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	7.4	1		09/11/07 13:52	79-00-5	
Trichloroethene	ND	ug/kg	7.4	1		09/11/07 13:52	79-01-6	
Trichlorofluoromethane	ND	ug/kg	7.4	1		09/11/07 13:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	7.4	1		09/11/07 13:52	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	7.4	1		09/11/07 13:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	7.4	1		09/11/07 13:52	108-67-8	
Vinyl chloride	ND	ug/kg	7.4	1		09/11/07 13:52	75-01-4	
Xylene (Total)	ND	ug/kg	7.4	1		09/11/07 13:52	1330-20-7	
Dibromofluoromethane (S)	100	%	74-119	1		09/11/07 13:52	1868-53-7	
Toluene-d8 (S)	100	%	82-119	1		09/11/07 13:52	2037-26-5	
4-Bromofluorobenzene (S)	93	%	83-124	1		09/11/07 13:52	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	72-124	1		09/11/07 13:52	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10**	%	0.10	1		09/11/07 00:00		

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QUALITY CONTROL DATA

Project: Brenntag-IRMS
Pace Project No.: 6028113

QC Batch: MERP/2211 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 6028113001, 6028113002, 6028113003

METHOD BLANK: 227172
Associated Lab Samples: 6028113001, 6028113002, 6028113003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	mg/kg	ND	0.050	

LABORATORY CONTROL SAMPLE: 227173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.47	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 227174 227175

Parameter	Units	6028128001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	.54	.57	0.54	0.56	102	101	75-125	4	20	

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QUALITY CONTROL DATA

Project: Brenntag-IRMS
Pace Project No.: 6028113

QC Batch: PMST/2466
Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 6028113001, 6028113002, 6028113003

SAMPLE DUPLICATE: 227297

Parameter	Units	6028212007 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.3	18.4	5	20	

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QUALITY CONTROL DATA

Project: Brenntag-IRMS
Pace Project No.: 6028113

QC Batch: MSV/10099 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 6028113001, 6028113002, 6028113003

METHOD BLANK: 227385
Associated Lab Samples: 6028113001, 6028113002, 6028113003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	
1,1,1-Trichloroethane	ug/kg	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	
1,1,2-Trichloroethane	ug/kg	ND	5.0	
1,1-Dichloroethane	ug/kg	ND	5.0	
1,1-Dichloroethene	ug/kg	ND	5.0	
1,1-Dichloropropene	ug/kg	ND	5.0	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	
1,2,3-Trichloropropane	ug/kg	ND	5.0	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	
1,2-Dichlorobenzene	ug/kg	ND	5.0	
1,2-Dichloroethane	ug/kg	ND	5.0	
1,2-Dichloroethene (Total)	ug/kg	ND	5.0	
1,2-Dichloropropane	ug/kg	ND	5.0	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	
1,3-Dichlorobenzene	ug/kg	ND	5.0	
1,3-Dichloropropane	ug/kg	ND	5.0	
1,4-Dichlorobenzene	ug/kg	ND	5.0	
2,2-Dichloropropane	ug/kg	ND	5.0	
2-Butanone (MEK)	ug/kg	ND	10.0	
2-Chlorotoluene	ug/kg	ND	5.0	
2-Hexanone	ug/kg	ND	20.0	
4-Chlorotoluene	ug/kg	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	
Acetone	ug/kg	ND	20.0	
Benzene	ug/kg	ND	5.0	
Bromobenzene	ug/kg	ND	5.0	
Bromochloromethane	ug/kg	ND	5.0	
Bromodichloromethane	ug/kg	ND	5.0	
Bromoform	ug/kg	ND	5.0	
Bromomethane	ug/kg	ND	5.0	
Carbon disulfide	ug/kg	ND	5.0	
Carbon tetrachloride	ug/kg	ND	5.0	
Chlorobenzene	ug/kg	ND	5.0	
Chloroethane	ug/kg	ND	5.0	
Chloroform	ug/kg	ND	5.0	
Chloromethane	ug/kg	ND	5.0	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	
Dibromochloromethane	ug/kg	ND	5.0	

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QUALITY CONTROL DATA

Project: Brenntag-IRMS
Pace Project No.: 6028113

METHOD BLANK: 227385

Associated Lab Samples: 6028113001, 6028113002, 6028113003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dibromomethane	ug/kg	ND	5.0	
Dichlorodifluoromethane	ug/kg	ND	5.0	
Ethylbenzene	ug/kg	ND	5.0	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	
Methyl-tert-butyl ether	ug/kg	ND	5.0	
Methylene chloride	ug/kg	ND	5.0	
n-Butylbenzene	ug/kg	ND	5.0	
n-Propylbenzene	ug/kg	ND	5.0	
Naphthalene	ug/kg	ND	10.0	
p-Isopropyltoluene	ug/kg	ND	5.0	
sec-Butylbenzene	ug/kg	ND	5.0	
Styrene	ug/kg	ND	5.0	
tert-Butylbenzene	ug/kg	ND	5.0	
Tetrachloroethene	ug/kg	ND	5.0	
Toluene	ug/kg	ND	5.0	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	
Trichloroethene	ug/kg	ND	5.0	
Trichlorofluoromethane	ug/kg	ND	5.0	
Vinyl chloride	ug/kg	ND	5.0	
Xylene (Total)	ug/kg	ND	5.0	
1,2-Dichloroethane-d4 (S)	%	101	72-124	
4-Bromofluorobenzene (S)	%	99	83-124	
Dibromofluoromethane (S)	%	101	74-119	
Toluene-d8 (S)	%	99	82-119	

LABORATORY CONTROL SAMPLE: 227386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	50.6	101	84-120	
1,1,1-Trichloroethane	ug/kg	50	50.2	100	85-123	
1,1,2,2-Tetrachloroethane	ug/kg	50	52.8	106	76-130	
1,1,2-Trichloroethane	ug/kg	50	53.5	107	77-128	
1,1-Dichloroethane	ug/kg	50	50.8	102	83-125	
1,1-Dichloroethene	ug/kg	50	52.0	104	75-148	
1,1-Dichloropropene	ug/kg	50	49.8	100	86-128	
1,2,3-Trichlorobenzene	ug/kg	50	51.2	102	80-123	
1,2,3-Trichloropropane	ug/kg	50	48.9	98	72-117	
1,2,4-Trichlorobenzene	ug/kg	50	51.5	103	77-127	
1,2,4-Trimethylbenzene	ug/kg	50	49.2	98	83-123	
1,2-Dibromo-3-chloropropane	ug/kg	50	54.3	109	80-122	
1,2-Dibromoethane (EDB)	ug/kg	50	54.1	108	82-122	
1,2-Dichlorobenzene	ug/kg	50	51.3	103	86-118	
1,2-Dichloroethane	ug/kg	50	49.1	98	82-125	

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QUALITY CONTROL DATA

Project: Brenntag-IRMS
Pace Project No.: 6028113

LABORATORY CONTROL SAMPLE: 227386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/kg	100	99.3	99	81-133	
1,2-Dichloropropane	ug/kg	50	49.9	100	82-125	
1,3,5-Trimethylbenzene	ug/kg	50	49.4	99	81-125	
1,3-Dichlorobenzene	ug/kg	50	48.4	97	85-117	
1,3-Dichloropropane	ug/kg	50	49.7	99	80-125	
1,4-Dichlorobenzene	ug/kg	50	49.3	99	85-117	
2,2-Dichloropropane	ug/kg	50	47.3	95	84-127	
2-Butanone (MEK)	ug/kg	100	93.1	93	68-128	
2-Chlorotoluene	ug/kg	50	51.1	102	85-126	
2-Hexanone	ug/kg	100	102	102	60-139	
4-Chlorotoluene	ug/kg	50	50.8	102	80-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	100	99.7	100	76-120	
Acetone	ug/kg	100	88.2	88	54-132	
Benzene	ug/kg	50	48.3	97	81-125	
Bromobenzene	ug/kg	50	50.8	102	78-124	
Bromochloromethane	ug/kg	50	53.2	106	82-130	
Bromodichloromethane	ug/kg	50	52.1	104	86-127	
Bromoform	ug/kg	50	51.9	104	71-117	
Bromomethane	ug/kg	50	58.5	117	60-134	
Carbon disulfide	ug/kg	100	96.6	97	45-135	
Carbon tetrachloride	ug/kg	50	51.0	102	84-129	
Chlorobenzene	ug/kg	50	49.9	100	87-118	
Chloroethane	ug/kg	50	50.4	101	59-133	
Chloroform	ug/kg	50	48.2	96	80-120	
Chloromethane	ug/kg	50	47.9	96	45-130	
cis-1,2-Dichloroethene	ug/kg	50	49.7	99	79-130	
cis-1,3-Dichloropropene	ug/kg	50	53.5	107	87-120	
Dibromochloromethane	ug/kg	50	51.6	103	80-126	
Dibromomethane	ug/kg	50	53.5	107	86-123	
Dichlorodifluoromethane	ug/kg	50	44.0	88	10-139	
Ethylbenzene	ug/kg	50	48.9	98	85-119	
Hexachloro-1,3-butadiene	ug/kg	50	52.1	104	79-138	
Isopropylbenzene (Cumene)	ug/kg	50	45.3	91	79-111	
Methyl-tert-butyl ether	ug/kg	50	47.4	95	78-119	
Methylene chloride	ug/kg	50	49.2	98	72-122	
n-Butylbenzene	ug/kg	50	51.7	103	82-129	
n-Propylbenzene	ug/kg	50	52.5	105	82-127	
Naphthalene	ug/kg	50	55.3	111	70-129	
p-Isopropyltoluene	ug/kg	50	49.3	99	82-121	
sec-Butylbenzene	ug/kg	50	51.2	102	83-126	
Styrene	ug/kg	50	50.6	101	84-121	
tert-Butylbenzene	ug/kg	50	49.6	99	84-122	
Tetrachloroethene	ug/kg	50	49.1	98	83-126	
Toluene	ug/kg	50	49.3	99	83-122	
trans-1,2-Dichloroethene	ug/kg	50	49.6	99	80-139	
trans-1,3-Dichloropropene	ug/kg	50	50.6	101	78-128	
Trichloroethene	ug/kg	50	53.6	107	86-123	
Trichlorofluoromethane	ug/kg	50	46.9	94	69-130	

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QUALITY CONTROL DATA

Project: Brenntag-IRMS
Pace Project No.: 6028113

LABORATORY CONTROL SAMPLE: 227386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/kg	50	46.9	94	53-135	
Xylene (Total)	ug/kg	150	144	96	84-118	
1,2-Dichloroethane-d4 (S)	%			102	72-124	
4-Bromofluorobenzene (S)	%			97	83-124	
Dibromofluoromethane (S)	%			103	74-119	
Toluene-d8 (S)	%			101	82-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 227387 227388

Parameter	Units	6028241007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	60.5	60.3	58.8	56.7	97	94	24-139	4	22	
1,1,1-Trichloroethane	ug/kg	ND	60.5	60.3	54.2	54.8	89	91	33-139	1	24	
1,1,2,2-Tetrachloroethane	ug/kg	ND	60.5	60.3	72.1	63.2	119	105	24-145	13	20	
1,1,2-Trichloroethane	ug/kg	ND	60.5	60.3	63.1	57.9	104	96	44-126	9	19	
1,1-Dichloroethane	ug/kg	ND	60.5	60.3	55.6	56.1	92	93	50-136	1	25	
1,1-Dichloroethene	ug/kg	ND	60.5	60.3	57.7	60.4	95	100	35-133	5	19	
1,1-Dichloropropene	ug/kg	ND	60.5	60.3	58.6	58.4	97	97	31-130	0	19	
1,2,3-Trichlorobenzene	ug/kg	ND	60.5	60.3	53.4	51.2	88	85	10-127	4	27	
1,2,3-Trichloropropane	ug/kg	ND	60.5	60.3	67.6	58.4	112	97	21-148	15	24	
1,2,4-Trichlorobenzene	ug/kg	ND	60.5	60.3	53.4	52.6	88	87	10-115	1	23	
1,2,4-Trimethylbenzene	ug/kg	ND	60.5	60.3	62.1	59.6	103	99	10-133	4	29	
1,2-Dibromo-3-chloropropane	ug/kg	ND	60.5	60.3	62.0	60.0	102	99	10-150	3	28	
1,2-Dibromoethane (EDB)	ug/kg	ND	60.5	60.3	63.5	57.8	105	96	54-135	9	24	
1,2-Dichlorobenzene	ug/kg	ND	60.5	60.3	63.2	57.9	104	96	10-127	9	20	
1,2-Dichloroethane	ug/kg	ND	60.5	60.3	53.8	51.7	89	86	47-147	4	22	
1,2-Dichloroethene (Total)	ug/kg	ND	121	121	108	115	89	95	31-137	6	22	
1,2-Dichloropropane	ug/kg	ND	60.5	60.3	57.2	57.7	94	96	45-121	1	24	
1,3,5-Trimethylbenzene	ug/kg	ND	60.5	60.3	63.1	61.3	104	102	10-132	3	21	
1,3-Dichlorobenzene	ug/kg	ND	60.5	60.3	60.3	57.7	100	96	10-139	4	22	
1,3-Dichloropropane	ug/kg	ND	60.5	60.3	61.5	56.3	102	93	47-119	9	19	
1,4-Dichlorobenzene	ug/kg	ND	60.5	60.3	60.0	57.5	99	95	10-124	4	19	
2,2-Dichloropropane	ug/kg	ND	60.5	60.3	53.8	54.9	89	91	38-134	2	28	
2-Butanone (MEK)	ug/kg	ND	121	121	109	97.0	90	80	15-150	11	28	
2-Chlorotoluene	ug/kg	ND	60.5	60.3	64.6	61.8	107	102	10-140	4	19	
2-Hexanone	ug/kg	ND	121	121	124	108	102	90	10-150	13	24	
4-Chlorotoluene	ug/kg	ND	60.5	60.3	64.3	60.9	106	101	10-139	5	24	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	121	121	124	99.5	102	82	28-138	22	23	
Acetone	ug/kg	ND	121	121	114	96.7	94	80	10-150	17	33	
Benzene	ug/kg	ND	60.5	60.3	58.5	57.6	97	95	46-138	2	25	
Bromobenzene	ug/kg	ND	60.5	60.3	59.4	57.4	98	95	11-129	3	24	
Bromochloromethane	ug/kg	ND	60.5	60.3	60.8	58.3	100	97	40-132	4	19	
Bromodichloromethane	ug/kg	ND	60.5	60.3	57.6	55.1	95	91	39-134	4	23	
Bromoform	ug/kg	ND	60.5	60.3	57.8	55.4	95	92	19-141	4	21	
Bromomethane	ug/kg	ND	60.5	60.3	71.1	66.2	117	110	10-150	7	29	
Carbon disulfide	ug/kg	ND	121	121	108	104	89	86	10-150	3	19	
Carbon tetrachloride	ug/kg	ND	60.5	60.3	55.6	57.1	92	95	30-142	3	19	

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QUALITY CONTROL DATA

Project: Brenntag-IRMS
Pace Project No.: 6028113

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 227387 227388

Parameter	Units	6028241007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	ug/kg	ND	60.5	60.3	61.1	60.5	101	100	24-137	1	27	
Chloroethane	ug/kg	ND	60.5	60.3	64.0	61.5	106	102	10-149	4	32	
Chloroform	ug/kg	ND	60.5	60.3	50.9	51.5	84	85	38-125	1	21	
Chloromethane	ug/kg	ND	60.5	60.3	57.5	53.1	95	88	13-132	8	20	
cis-1,2-Dichloroethene	ug/kg	ND	60.5	60.3	54.0	58.8	89	98	38-125	9	20	
cis-1,3-Dichloropropene	ug/kg	ND	60.5	60.3	58.7	55.8	97	93	21-137	5	23	
Dibromochloromethane	ug/kg	ND	60.5	60.3	58.6	57.9	97	96	36-128	1	23	
Dibromomethane	ug/kg	ND	60.5	60.3	58.1	54.2	96	90	19-150	7	21	
Dichlorodifluoromethane	ug/kg	ND	60.5	60.3	45.2	44.0	75	73	10-130	3	26	
Ethylbenzene	ug/kg	ND	60.5	60.3	57.6	57.6	95	95	32-148	0	26	
Hexachloro-1,3-butadiene	ug/kg	ND	60.5	60.3	57.7	55.9	95	93	10-111	3	27	
Isopropylbenzene (Cumene)	ug/kg	ND	60.5	60.3	54.4	53.0	90	88	10-127	3	18	
Methyl-tert-butyl ether	ug/kg	ND	60.5	60.3	53.3	49.2	88	82	32-144	8	25	
Methylene chloride	ug/kg	ND	60.5	60.3	55.4	52.5	91	87	19-133	5	25	
n-Butylbenzene	ug/kg	ND	60.5	60.3	62.5	62.7	103	104	10-120	0	25	
n-Propylbenzene	ug/kg	ND	60.5	60.3	65.4	60.6	108	101	10-137	8	20	
Naphthalene	ug/kg	ND	60.5	60.3	58.2	56.3	96	93	10-150	3	31	
p-Isopropyltoluene	ug/kg	ND	60.5	60.3	60.3	60.8	100	101	10-124	1	24	
sec-Butylbenzene	ug/kg	ND	60.5	60.3	62.0	62.6	102	104	10-133	1	17	
Styrene	ug/kg	ND	60.5	60.3	60.3	59.1	100	98	10-132	2	28	
tert-Butylbenzene	ug/kg	ND	60.5	60.3	61.4	60.9	101	101	10-137	1	22	
Tetrachloroethene	ug/kg	ND	60.5	60.3	57.5	58.6	95	97	28-114	2	24	
Toluene	ug/kg	ND	60.5	60.3	57.3	55.3	95	92	34-142	4	26	
trans-1,2-Dichloroethene	ug/kg	ND	60.5	60.3	54.2	55.9	90	93	31-141	3	18	
trans-1,3-Dichloropropene	ug/kg	ND	60.5	60.3	58.8	58.5	97	97	23-137	1	18	
Trichloroethene	ug/kg	ND	60.5	60.3	59.7	60.9	99	101	33-141	2	25	
Trichlorofluoromethane	ug/kg	ND	60.5	60.3	52.6	52.5	87	87	32-131	0	20	
Vinyl chloride	ug/kg	ND	60.5	60.3	54.3	52.7	90	87	25-138	3	19	
Xylene (Total)	ug/kg	ND	181	181	172	172	95	95	33-146	0	26	
1,2-Dichloroethane-d4 (S)	%						87	88	72-124			
4-Bromofluorobenzene (S)	%						92	95	83-124			
Dibromofluoromethane (S)	%						88	94	74-119			
Toluene-d8 (S)	%						100	99	82-119			

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QUALITY CONTROL DATA

Project: Brenntag-IRMS
Pace Project No.: 6028113

QC Batch: MPRP/4743 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 6028113001, 6028113002, 6028113003

METHOD BLANK: 227514
Associated Lab Samples: 6028113001, 6028113002, 6028113003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Arsenic	mg/kg	ND	1.0	
Barium	mg/kg	ND	1.0	
Cadmium	mg/kg	ND	0.50	
Chromium	mg/kg	ND	0.50	
Lead	mg/kg	ND	0.50	
Selenium	mg/kg	ND	1.5	
Silver	mg/kg	ND	0.70	

LABORATORY CONTROL SAMPLE: 227515

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	53.3	107	80-120	
Barium	mg/kg	50	50.6	101	80-120	
Cadmium	mg/kg	50	53.2	106	80-120	
Chromium	mg/kg	50	51.0	102	80-120	
Lead	mg/kg	50	52.4	105	80-120	
Selenium	mg/kg	50	49.8	100	80-120	
Silver	mg/kg	25	24.7	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 227516 227517

Parameter	Units	6028080008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	12.8	182	180	200	201	103	104	75-125	0	14	
Barium	mg/kg	770	182	180	970	968	110	109	75-125	0	20	
Cadmium	mg/kg	15.1	182	180	194	194	99	99	75-125	0	13	
Chromium	mg/kg	40.8	182	180	221	220	99	99	75-125	0	15	
Lead	mg/kg	99.9	182	180	283	277	101	98	75-125	2	20	
Selenium	mg/kg	15.3	182	180	183	183	92	93	75-125	0	14	
Silver	mg/kg	30.0	90	90	115	115	94	95	75-125	0	17	

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QUALIFIERS

Project: Brenntag-IRMS
Pace Project No.: 6028113

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Brenntag-IRMS
Pace Project No.: 6028113

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
6028113001	IRM-BACKFILL-02	EPA 7471	MERP/2211	EPA 7471	MERC/2189
6028113002	IRM-BACKFILL-03	EPA 7471	MERP/2211	EPA 7471	MERC/2189
6028113003	IRM-BACKFILL-04	EPA 7471	MERP/2211	EPA 7471	MERC/2189
6028113001	IRM-BACKFILL-02	ASTM D2974-87	PMST/2466		
6028113002	IRM-BACKFILL-03	ASTM D2974-87	PMST/2466		
6028113003	IRM-BACKFILL-04	ASTM D2974-87	PMST/2466		
6028113001	IRM-BACKFILL-02	EPA 8260	MSV/10099		
6028113002	IRM-BACKFILL-03	EPA 8260	MSV/10099		
6028113003	IRM-BACKFILL-04	EPA 8260	MSV/10099		
6028113001	IRM-BACKFILL-02	EPA 3050	MPRP/4743	EPA 6010	ICP/4217
6028113002	IRM-BACKFILL-03	EPA 3050	MPRP/4743	EPA 6010	ICP/4217
6028113003	IRM-BACKFILL-04	EPA 3050	MPRP/4743	EPA 6010	ICP/4217

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Sample Condition Upon Receipt

Pace Analytical

Client Name: Forrester

Project # L028113

Optional
Proj. Due Date: 9/19/07
Proj. Name: Brenntag-TRMS

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☐ Pace Other ECI

Tracking #:

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Thermometer Used T-168 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2.8 Biological Tissue is Frozen: ~~Yes~~ ~~No~~

Temp should be above freezing to 6°C

Date and Initials of person examining contents: JWS 8/27/07 835

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☒Yes ☐No ☐N/A	6.
Rush Turn Around Time Requested:	☒Yes ☐No ☐N/A	7. (24hr) 1 day TAT
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9. DW 9/8 - metals added to project per coc.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☒Yes ☐No ☐N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: Soil		
All containers needing preservation have been checked:	☐Yes ☐No ☒N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☒Yes ☐No	Initial when completed: N/A Lot # of added preservative:
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☒N/A	15.
Trip Blank Present:	☐Yes ☐No ☒N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased): N/A		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: DW for ARB 9/8 Date:

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1134264

Section A Required Client Information:

Company: The Forrester Group
Address: 605 N Boonville
Springfield, MO
Email To: Kris@forrestergroup.com
Phone: 417-864-6444 Fax: 417-864-6445
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Kris Gamble
Copy To: Bob Kick
bobe forrestergroup.com
Purchase Order No.:
Project Name: Brenntag - IRMS
Project Number: 14770000

Section C Invoice Information:

Attention: Bob Kick
Company Name: The Forrester Group
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other 5035 Kit	Analysis Test (Y/N): VOCs 8260	Metals 6010	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	IRM-BackFill-02	SL	G	9-4-07	—	—	1025		2	X							X	X	X	1(W06Fm) 1(W62Am) 7(V69Am) 2(D29Am) 1(D59Am)	001
2	IRM-BackFill-03	SL	G	9-4-07	—	—	1325		2	X							X	X	X		002
3	IRM-BackFill-04	SL	G	9-6-07	—	—	1420		2	X							X	X	X		003
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Standard turnaround	Kris Gamble TFG	9-6-07	1700	[signature] Pace	9/7/07	715	2.8	Y	Y	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Kris Gamble
SIGNATURE of SAMPLER: Kris Gamble
DATE Signed (MM/DD/YY): 09/06/07

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

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RECEIVED
SEP 10 2007

August 31, 2007

KRIS GAMBLE
The Forrester Group
605 N BOONVILLE
Springfield, MO 65806

RE: Project: Brenntag IRMS
Pace Project No.: 6027765

Dear KRIS GAMBLE:
Enclosed are the analytical results for sample(s) received by the laboratory on August 30, 2007. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angie Brown

Angie.Brown@pacelabs.com
Project Manager

A2LA Certification Number: 2456.01
Arkansas Certification Number: 05-008-0
Illinois Certification Number: 001191
Iowa Certification Number: 118
Kansas/NELAP Certification Number: E-10116
Louisiana Certification Number: 03055
Oklahoma Certification Number: 9205/9935
Utah Certification Number: 9135995665

Enclosures

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SAMPLE SUMMARY

Project: Brenntag IRMS
Pace Project No.: 6027765

Lab ID	Sample ID	Matrix	Date Collected	Date Received
6027765001	IRM-CS-05	Solid	08/29/07 15:20	08/30/07 08:30
6027765002	IRM-CS-06	Solid	08/29/07 15:30	08/30/07 08:30
6027765003	IRM-CS-04	Solid	08/29/07 15:35	08/30/07 08:30
6027765004	IRM-CS-DUP-01	Solid	08/29/07 15:45	08/30/07 08:30
6027765005	IRM-CS-03	Solid	08/29/07 16:00	08/30/07 08:30
6027765006	IRM-CS-02	Solid	08/29/07 16:10	08/30/07 08:30
6027765007	IRM-CS-01	Solid	08/29/07 16:25	08/30/07 08:30
6027765008	IRM-CS-07	Solid	08/29/07 16:30	08/30/07 08:30

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SAMPLE ANALYTE COUNT

Project: Brenntag IRMS
Pace Project No.: 6027765

Lab ID	Sample ID	Method	Analytes Reported
6027765001	IRM-CS-05	ASTM D2974-87	1
		EPA 8260	69
6027765002	IRM-CS-06	ASTM D2974-87	1
		EPA 8260	69
6027765003	IRM-CS-04	ASTM D2974-87	1
		EPA 8260	69
6027765004	IRM-CS-DUP-01	ASTM D2974-87	1
		EPA 8260	69
6027765005	IRM-CS-03	ASTM D2974-87	1
		EPA 8260	69
6027765006	IRM-CS-02	ASTM D2974-87	1
		EPA 8260	69
6027765007	IRM-CS-01	ASTM D2974-87	1
		EPA 8260	69
6027765008	IRM-CS-07	ASTM D2974-87	1
		EPA 8260	69

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ANALYTICAL RESULTS

Project: Brenntag IRMS
Pace Project No.: 6027765

Sample: IRM-CS-05 **Lab ID: 6027765001** Collected: 08/29/07 15:20 Received: 08/30/07 08:30 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	18.3	1		08/30/07 12:01	67-64-1	
Benzene	ND	ug/kg	4.6	1		08/30/07 12:01	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		08/30/07 12:01	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		08/30/07 12:01	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		08/30/07 12:01	75-27-4	
Bromoform	ND	ug/kg	4.6	1		08/30/07 12:01	75-25-2	
Bromomethane	ND	ug/kg	4.6	1		08/30/07 12:01	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.1	1		08/30/07 12:01	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		08/30/07 12:01	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		08/30/07 12:01	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		08/30/07 12:01	98-06-6	
Carbon disulfide	ND	ug/kg	4.6	1		08/30/07 12:01	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.6	1		08/30/07 12:01	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		08/30/07 12:01	108-90-7	
Chloroethane	ND	ug/kg	4.6	1		08/30/07 12:01	75-00-3	
Chloroform	ND	ug/kg	4.6	1		08/30/07 12:01	67-66-3	
Chloromethane	ND	ug/kg	4.6	1		08/30/07 12:01	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		08/30/07 12:01	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		08/30/07 12:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		08/30/07 12:01	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		08/30/07 12:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		08/30/07 12:01	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		08/30/07 12:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		08/30/07 12:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		08/30/07 12:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		08/30/07 12:01	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	4.6	1		08/30/07 12:01	75-71-8	
1,1-Dichloroethane	**12.9**	ug/kg	4.6	1		08/30/07 12:01	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		08/30/07 12:01	107-06-2	
1,2-Dichloroethene (Total)	**25.8**	ug/kg	4.6	1		08/30/07 12:01	540-59-0	
1,1-Dichloroethene	ND	ug/kg	4.6	1		08/30/07 12:01	75-35-4	
cis-1,2-Dichloroethene	**25.8**	ug/kg	4.6	1		08/30/07 12:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		08/30/07 12:01	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		08/30/07 12:01	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		08/30/07 12:01	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		08/30/07 12:01	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		08/30/07 12:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		08/30/07 12:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		08/30/07 12:01	10061-02-6	
Ethylbenzene	ND	ug/kg	4.6	1		08/30/07 12:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		08/30/07 12:01	87-68-3	
2-Hexanone	ND	ug/kg	18.3	1		08/30/07 12:01	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		08/30/07 12:01	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		08/30/07 12:01	99-87-6	
Methylene chloride	ND	ug/kg	4.6	1		08/30/07 12:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.1	1		08/30/07 12:01	108-10-1	

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ANALYTICAL RESULTS

Project: Brenntag IRMS
Pace Project No.: 6027765

Sample: IRM-CS-05 **Lab ID: 6027765001** Collected: 08/29/07 15:20 Received: 08/30/07 08:30 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		08/30/07 12:01	1634-04-4	
Naphthalene	ND	ug/kg	9.1	1		08/30/07 12:01	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		08/30/07 12:01	103-65-1	
Styrene	ND	ug/kg	4.6	1		08/30/07 12:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		08/30/07 12:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		08/30/07 12:01	79-34-5	
Tetrachloroethene	**15.6**	ug/kg	4.6	1		08/30/07 12:01	127-18-4	
Toluene	ND	ug/kg	4.6	1		08/30/07 12:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		08/30/07 12:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		08/30/07 12:01	120-82-1	
1,1,1-Trichloroethane	**4.6**	ug/kg	4.6	1		08/30/07 12:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		08/30/07 12:01	79-00-5	
Trichloroethene	**40.9**	ug/kg	4.6	1		08/30/07 12:01	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		08/30/07 12:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		08/30/07 12:01	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		08/30/07 12:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		08/30/07 12:01	108-67-8	
Vinyl chloride	ND	ug/kg	4.6	1		08/30/07 12:01	75-01-4	
Xylene (Total)	ND	ug/kg	4.6	1		08/30/07 12:01	1330-20-7	
Dibromofluoromethane (S)	107	%	74-119	1		08/30/07 12:01	1868-53-7	
Toluene-d8 (S)	106	%	82-119	1		08/30/07 12:01	2037-26-5	
4-Bromofluorobenzene (S)	103	%	83-124	1		08/30/07 12:01	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	72-124	1		08/30/07 12:01	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.0**	%	0.10	1		08/30/07 00:00		

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ANALYTICAL RESULTS

Project: Brenntag IRMS
Pace Project No.: 6027765

Sample: IRM-CS-06 **Lab ID: 6027765002** Collected: 08/29/07 15:30 Received: 08/30/07 08:30 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**223**	ug/kg	19.8	1		08/31/07 07:28	67-64-1	
Benzene	ND	ug/kg	5.0	1		08/31/07 07:28	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		08/31/07 07:28	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		08/31/07 07:28	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		08/31/07 07:28	75-27-4	
Bromoform	ND	ug/kg	5.0	1		08/31/07 07:28	75-25-2	
Bromomethane	ND	ug/kg	5.0	1		08/31/07 07:28	74-83-9	
2-Butanone (MEK)	**37.0**	ug/kg	9.9	1		08/31/07 07:28	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		08/31/07 07:28	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		08/31/07 07:28	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		08/31/07 07:28	98-06-6	
Carbon disulfide	ND	ug/kg	5.0	1		08/31/07 07:28	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1		08/31/07 07:28	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		08/31/07 07:28	108-90-7	
Chloroethane	ND	ug/kg	5.0	1		08/31/07 07:28	75-00-3	
Chloroform	ND	ug/kg	5.0	1		08/31/07 07:28	67-66-3	
Chloromethane	ND	ug/kg	5.0	1		08/31/07 07:28	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		08/31/07 07:28	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		08/31/07 07:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.0	1		08/31/07 07:28	96-12-8	
Dibromochloromethane	ND	ug/kg	5.0	1		08/31/07 07:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		08/31/07 07:28	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		08/31/07 07:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		08/31/07 07:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		08/31/07 07:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		08/31/07 07:28	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.0	1		08/31/07 07:28	75-71-8	
1,1-Dichloroethane	**9.2**	ug/kg	5.0	1		08/31/07 07:28	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		08/31/07 07:28	107-06-2	
1,2-Dichloroethene (Total)	**93.9**	ug/kg	5.0	1		08/31/07 07:28	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.0	1		08/31/07 07:28	75-35-4	
cis-1,2-Dichloroethene	**91.7**	ug/kg	5.0	1		08/31/07 07:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		08/31/07 07:28	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		08/31/07 07:28	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		08/31/07 07:28	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		08/31/07 07:28	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		08/31/07 07:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		08/31/07 07:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		08/31/07 07:28	10061-02-6	
Ethylbenzene	**8.0**	ug/kg	5.0	1		08/31/07 07:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		08/31/07 07:28	87-68-3	
2-Hexanone	ND	ug/kg	19.8	1		08/31/07 07:28	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		08/31/07 07:28	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		08/31/07 07:28	99-87-6	
Methylene chloride	**7.7**	ug/kg	5.0	1		08/31/07 07:28	75-09-2	1e
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.9	1		08/31/07 07:28	108-10-1	

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ANALYTICAL RESULTS

Project: Brenntag IRMS
Pace Project No.: 6027765

Sample: IRM-CS-06 **Lab ID: 6027765002** Collected: 08/29/07 15:30 Received: 08/30/07 08:30 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		08/31/07 07:28	1634-04-4	
Naphthalene	ND	ug/kg	9.9	1		08/31/07 07:28	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		08/31/07 07:28	103-65-1	
Styrene	ND	ug/kg	5.0	1		08/31/07 07:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		08/31/07 07:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		08/31/07 07:28	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		08/31/07 07:28	127-18-4	
Toluene	**70.9**	ug/kg	5.0	1		08/31/07 07:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		08/31/07 07:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		08/31/07 07:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		08/31/07 07:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		08/31/07 07:28	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		08/31/07 07:28	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		08/31/07 07:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		08/31/07 07:28	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		08/31/07 07:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		08/31/07 07:28	108-67-8	
Vinyl chloride	ND	ug/kg	5.0	1		08/31/07 07:28	75-01-4	
Xylene (Total)	**70.0**	ug/kg	5.0	1		08/31/07 07:28	1330-20-7	
Dibromofluoromethane (S)	104	%	74-119	1		08/31/07 07:28	1868-53-7	
Toluene-d8 (S)	97	%	82-119	1		08/31/07 07:28	2037-26-5	
4-Bromofluorobenzene (S)	89	%	83-124	1		08/31/07 07:28	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	72-124	1		08/31/07 07:28	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**13.5**	%	0.10	1		08/30/07 00:00		

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ANALYTICAL RESULTS

Project: Brenntag IRMS
Pace Project No.: 6027765

Sample: IRM-CS-04 **Lab ID: 6027765003** Collected: 08/29/07 15:35 Received: 08/30/07 08:30 Matrix: Solid
Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	19.9	1		08/30/07 12:34	67-64-1	
Benzene	ND	ug/kg	5.0	1		08/30/07 12:34	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		08/30/07 12:34	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		08/30/07 12:34	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		08/30/07 12:34	75-27-4	
Bromoform	ND	ug/kg	5.0	1		08/30/07 12:34	75-25-2	
Bromomethane	ND	ug/kg	5.0	1		08/30/07 12:34	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.9	1		08/30/07 12:34	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		08/30/07 12:34	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		08/30/07 12:34	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		08/30/07 12:34	98-06-6	
Carbon disulfide	ND	ug/kg	5.0	1		08/30/07 12:34	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1		08/30/07 12:34	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		08/30/07 12:34	108-90-7	
Chloroethane	ND	ug/kg	5.0	1		08/30/07 12:34	75-00-3	
Chloroform	ND	ug/kg	5.0	1		08/30/07 12:34	67-66-3	
Chloromethane	ND	ug/kg	5.0	1		08/30/07 12:34	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		08/30/07 12:34	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		08/30/07 12:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.0	1		08/30/07 12:34	96-12-8	
Dibromochloromethane	ND	ug/kg	5.0	1		08/30/07 12:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		08/30/07 12:34	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		08/30/07 12:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		08/30/07 12:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		08/30/07 12:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		08/30/07 12:34	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.0	1		08/30/07 12:34	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		08/30/07 12:34	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		08/30/07 12:34	107-06-2	
1,2-Dichloroethene (Total)	**6.2**	ug/kg	5.0	1		08/30/07 12:34	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.0	1		08/30/07 12:34	75-35-4	
cis-1,2-Dichloroethene	**6.2**	ug/kg	5.0	1		08/30/07 12:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		08/30/07 12:34	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		08/30/07 12:34	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		08/30/07 12:34	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		08/30/07 12:34	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		08/30/07 12:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		08/30/07 12:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		08/30/07 12:34	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	1		08/30/07 12:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		08/30/07 12:34	87-68-3	
2-Hexanone	ND	ug/kg	19.9	1		08/30/07 12:34	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		08/30/07 12:34	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		08/30/07 12:34	99-87-6	
Methylene chloride	ND	ug/kg	5.0	1		08/30/07 12:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.9	1		08/30/07 12:34	108-10-1	

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ANALYTICAL RESULTS

Project: Brenntag IRMS
Pace Project No.: 6027765

Sample: IRM-CS-04 **Lab ID: 6027765003** Collected: 08/29/07 15:35 Received: 08/30/07 08:30 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		08/30/07 12:34	1634-04-4	
Naphthalene	ND	ug/kg	9.9	1		08/30/07 12:34	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		08/30/07 12:34	103-65-1	
Styrene	ND	ug/kg	5.0	1		08/30/07 12:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		08/30/07 12:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		08/30/07 12:34	79-34-5	
Tetrachloroethene	**8.6**	ug/kg	5.0	1		08/30/07 12:34	127-18-4	
Toluene	ND	ug/kg	5.0	1		08/30/07 12:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		08/30/07 12:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		08/30/07 12:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		08/30/07 12:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		08/30/07 12:34	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		08/30/07 12:34	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		08/30/07 12:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		08/30/07 12:34	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		08/30/07 12:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		08/30/07 12:34	108-67-8	
Vinyl chloride	ND	ug/kg	5.0	1		08/30/07 12:34	75-01-4	
Xylene (Total)	ND	ug/kg	5.0	1		08/30/07 12:34	1330-20-7	
Dibromofluoromethane (S)	111	%	74-119	1		08/30/07 12:34	1868-53-7	
Toluene-d8 (S)	106	%	82-119	1		08/30/07 12:34	2037-26-5	
4-Bromofluorobenzene (S)	94	%	83-124	1		08/30/07 12:34	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	72-124	1		08/30/07 12:34	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.7**	%	0.10	1		08/30/07 00:00		

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ANALYTICAL RESULTS

Project: Brenntag IRMS
Pace Project No.: 6027765

Sample: IRM-CS-DUP-01 **Lab ID: 6027765004** Collected: 08/29/07 15:45 Received: 08/30/07 08:30 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	19.5	1		08/30/07 12:51	67-64-1	
Benzene	ND	ug/kg	4.9	1		08/30/07 12:51	71-43-2	
Bromobenzene	ND	ug/kg	4.9	1		08/30/07 12:51	108-86-1	
Bromochloromethane	ND	ug/kg	4.9	1		08/30/07 12:51	74-97-5	
Bromodichloromethane	ND	ug/kg	4.9	1		08/30/07 12:51	75-27-4	
Bromoform	ND	ug/kg	4.9	1		08/30/07 12:51	75-25-2	
Bromomethane	ND	ug/kg	4.9	1		08/30/07 12:51	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.8	1		08/30/07 12:51	78-93-3	
n-Butylbenzene	ND	ug/kg	4.9	1		08/30/07 12:51	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.9	1		08/30/07 12:51	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.9	1		08/30/07 12:51	98-06-6	
Carbon disulfide	ND	ug/kg	4.9	1		08/30/07 12:51	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.9	1		08/30/07 12:51	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	1		08/30/07 12:51	108-90-7	
Chloroethane	ND	ug/kg	4.9	1		08/30/07 12:51	75-00-3	
Chloroform	ND	ug/kg	4.9	1		08/30/07 12:51	67-66-3	
Chloromethane	ND	ug/kg	4.9	1		08/30/07 12:51	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.9	1		08/30/07 12:51	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.9	1		08/30/07 12:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.9	1		08/30/07 12:51	96-12-8	
Dibromochloromethane	ND	ug/kg	4.9	1		08/30/07 12:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.9	1		08/30/07 12:51	106-93-4	
Dibromomethane	ND	ug/kg	4.9	1		08/30/07 12:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.9	1		08/30/07 12:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.9	1		08/30/07 12:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.9	1		08/30/07 12:51	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	4.9	1		08/30/07 12:51	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.9	1		08/30/07 12:51	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	1		08/30/07 12:51	107-06-2	
1,2-Dichloroethene (Total)	**9.9**	ug/kg	4.9	1		08/30/07 12:51	540-59-0	
1,1-Dichloroethene	ND	ug/kg	4.9	1		08/30/07 12:51	75-35-4	
cis-1,2-Dichloroethene	**9.9**	ug/kg	4.9	1		08/30/07 12:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	1		08/30/07 12:51	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	1		08/30/07 12:51	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.9	1		08/30/07 12:51	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.9	1		08/30/07 12:51	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.9	1		08/30/07 12:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	1		08/30/07 12:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.9	1		08/30/07 12:51	10061-02-6	
Ethylbenzene	ND	ug/kg	4.9	1		08/30/07 12:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.9	1		08/30/07 12:51	87-68-3	
2-Hexanone	ND	ug/kg	19.5	1		08/30/07 12:51	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	1		08/30/07 12:51	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.9	1		08/30/07 12:51	99-87-6	
Methylene chloride	**6.4**	ug/kg	4.9	1		08/30/07 12:51	75-09-2	C7
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.8	1		08/30/07 12:51	108-10-1	

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ANALYTICAL RESULTS

Project: Brenntag IRMS
Pace Project No.: 6027765

Sample: IRM-CS-DUP-01 **Lab ID: 6027765004** Collected: 08/29/07 15:45 Received: 08/30/07 08:30 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Methyl-tert-butyl ether	ND	ug/kg	4.9	1		08/30/07 12:51	1634-04-4	
Naphthalene	ND	ug/kg	9.8	1		08/30/07 12:51	91-20-3	
n-Propylbenzene	ND	ug/kg	4.9	1		08/30/07 12:51	103-65-1	
Styrene	ND	ug/kg	4.9	1		08/30/07 12:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	1		08/30/07 12:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	1		08/30/07 12:51	79-34-5	
Tetrachloroethene	**11.3**	ug/kg	4.9	1		08/30/07 12:51	127-18-4	
Toluene	ND	ug/kg	4.9	1		08/30/07 12:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.9	1		08/30/07 12:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	1		08/30/07 12:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.9	1		08/30/07 12:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	1		08/30/07 12:51	79-00-5	
Trichloroethene	ND	ug/kg	4.9	1		08/30/07 12:51	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.9	1		08/30/07 12:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.9	1		08/30/07 12:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	1		08/30/07 12:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	1		08/30/07 12:51	108-67-8	
Vinyl chloride	ND	ug/kg	4.9	1		08/30/07 12:51	75-01-4	
Xylene (Total)	ND	ug/kg	4.9	1		08/30/07 12:51	1330-20-7	
Dibromofluoromethane (S)	103	%	74-119	1		08/30/07 12:51	1868-53-7	
Toluene-d8 (S)	100	%	82-119	1		08/30/07 12:51	2037-26-5	
4-Bromofluorobenzene (S)	96	%	83-124	1		08/30/07 12:51	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	72-124	1		08/30/07 12:51	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.0**	%	0.10	1		08/30/07 00:00		

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ANALYTICAL RESULTS

Project: Brenntag IRMS
Pace Project No.: 6027765

Sample: IRM-CS-03 **Lab ID: 6027765005** Collected: 08/29/07 16:00 Received: 08/30/07 08:30 Matrix: Solid
Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**31.6**	ug/kg	18.6	1		08/30/07 13:08	67-64-1	C7
Benzene	ND	ug/kg	4.6	1		08/30/07 13:08	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		08/30/07 13:08	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		08/30/07 13:08	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		08/30/07 13:08	75-27-4	
Bromoform	ND	ug/kg	4.6	1		08/30/07 13:08	75-25-2	
Bromomethane	ND	ug/kg	4.6	1		08/30/07 13:08	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.3	1		08/30/07 13:08	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		08/30/07 13:08	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		08/30/07 13:08	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		08/30/07 13:08	98-06-6	
Carbon disulfide	ND	ug/kg	4.6	1		08/30/07 13:08	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.6	1		08/30/07 13:08	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		08/30/07 13:08	108-90-7	
Chloroethane	ND	ug/kg	4.6	1		08/30/07 13:08	75-00-3	
Chloroform	ND	ug/kg	4.6	1		08/30/07 13:08	67-66-3	
Chloromethane	ND	ug/kg	4.6	1		08/30/07 13:08	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		08/30/07 13:08	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		08/30/07 13:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		08/30/07 13:08	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		08/30/07 13:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		08/30/07 13:08	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		08/30/07 13:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		08/30/07 13:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		08/30/07 13:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		08/30/07 13:08	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	4.6	1		08/30/07 13:08	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		08/30/07 13:08	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		08/30/07 13:08	107-06-2	
1,2-Dichloroethene (Total)	**5.8**	ug/kg	4.6	1		08/30/07 13:08	540-59-0	
1,1-Dichloroethene	ND	ug/kg	4.6	1		08/30/07 13:08	75-35-4	
cis-1,2-Dichloroethene	**5.8**	ug/kg	4.6	1		08/30/07 13:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		08/30/07 13:08	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		08/30/07 13:08	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		08/30/07 13:08	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		08/30/07 13:08	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		08/30/07 13:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		08/30/07 13:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		08/30/07 13:08	10061-02-6	
Ethylbenzene	ND	ug/kg	4.6	1		08/30/07 13:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		08/30/07 13:08	87-68-3	
2-Hexanone	ND	ug/kg	18.6	1		08/30/07 13:08	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		08/30/07 13:08	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		08/30/07 13:08	99-87-6	
Methylene chloride	ND	ug/kg	4.6	1		08/30/07 13:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.3	1		08/30/07 13:08	108-10-1	

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ANALYTICAL RESULTS

Project: Brenntag IRMS
Pace Project No.: 6027765

Sample: IRM-CS-03 **Lab ID: 6027765005** Collected: 08/29/07 16:00 Received: 08/30/07 08:30 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		08/30/07 13:08	1634-04-4	
Naphthalene	ND	ug/kg	9.3	1		08/30/07 13:08	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		08/30/07 13:08	103-65-1	
Styrene	ND	ug/kg	4.6	1		08/30/07 13:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		08/30/07 13:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		08/30/07 13:08	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		08/30/07 13:08	127-18-4	
Toluene	ND	ug/kg	4.6	1		08/30/07 13:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		08/30/07 13:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		08/30/07 13:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		08/30/07 13:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		08/30/07 13:08	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		08/30/07 13:08	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		08/30/07 13:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		08/30/07 13:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		08/30/07 13:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		08/30/07 13:08	108-67-8	
Vinyl chloride	ND	ug/kg	4.6	1		08/30/07 13:08	75-01-4	
Xylene (Total)	ND	ug/kg	4.6	1		08/30/07 13:08	1330-20-7	
Dibromofluoromethane (S)	102	%	74-119	1		08/30/07 13:08	1868-53-7	
Toluene-d8 (S)	100	%	82-119	1		08/30/07 13:08	2037-26-5	
4-Bromofluorobenzene (S)	96	%	83-124	1		08/30/07 13:08	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	72-124	1		08/30/07 13:08	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**12.3**	%	0.10	1		08/30/07 00:00		

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ANALYTICAL RESULTS

Project: Brenntag IRMS
Pace Project No.: 6027765

Sample: IRM-CS-02 **Lab ID: 6027765006** Collected: 08/29/07 16:10 Received: 08/30/07 08:30 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	19.4	1		08/31/07 15:01	67-64-1	
Benzene	ND	ug/kg	4.9	1		08/31/07 15:01	71-43-2	
Bromobenzene	ND	ug/kg	4.9	1		08/31/07 15:01	108-86-1	
Bromochloromethane	ND	ug/kg	4.9	1		08/31/07 15:01	74-97-5	
Bromodichloromethane	ND	ug/kg	4.9	1		08/31/07 15:01	75-27-4	
Bromoform	ND	ug/kg	4.9	1		08/31/07 15:01	75-25-2	
Bromomethane	ND	ug/kg	4.9	1		08/31/07 15:01	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.7	1		08/31/07 15:01	78-93-3	
n-Butylbenzene	ND	ug/kg	4.9	1		08/31/07 15:01	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.9	1		08/31/07 15:01	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.9	1		08/31/07 15:01	98-06-6	
Carbon disulfide	ND	ug/kg	4.9	1		08/31/07 15:01	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.9	1		08/31/07 15:01	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	1		08/31/07 15:01	108-90-7	
Chloroethane	ND	ug/kg	4.9	1		08/31/07 15:01	75-00-3	
Chloroform	ND	ug/kg	4.9	1		08/31/07 15:01	67-66-3	
Chloromethane	ND	ug/kg	4.9	1		08/31/07 15:01	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.9	1		08/31/07 15:01	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.9	1		08/31/07 15:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.9	1		08/31/07 15:01	96-12-8	
Dibromochloromethane	ND	ug/kg	4.9	1		08/31/07 15:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.9	1		08/31/07 15:01	106-93-4	
Dibromomethane	ND	ug/kg	4.9	1		08/31/07 15:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.9	1		08/31/07 15:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.9	1		08/31/07 15:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.9	1		08/31/07 15:01	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	4.9	1		08/31/07 15:01	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.9	1		08/31/07 15:01	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	1		08/31/07 15:01	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	4.9	1		08/31/07 15:01	540-59-0	
1,1-Dichloroethene	ND	ug/kg	4.9	1		08/31/07 15:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1		08/31/07 15:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	1		08/31/07 15:01	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	1		08/31/07 15:01	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.9	1		08/31/07 15:01	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.9	1		08/31/07 15:01	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.9	1		08/31/07 15:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	1		08/31/07 15:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.9	1		08/31/07 15:01	10061-02-6	
Ethylbenzene	ND	ug/kg	4.9	1		08/31/07 15:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.9	1		08/31/07 15:01	87-68-3	
2-Hexanone	ND	ug/kg	19.4	1		08/31/07 15:01	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	1		08/31/07 15:01	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.9	1		08/31/07 15:01	99-87-6	
Methylene chloride	ND	ug/kg	4.9	1		08/31/07 15:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.7	1		08/31/07 15:01	108-10-1	

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ANALYTICAL RESULTS

Project: Brenntag IRMS
Pace Project No.: 6027765

Sample: IRM-CS-02 **Lab ID: 6027765006** Collected: 08/29/07 16:10 Received: 08/30/07 08:30 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Methyl-tert-butyl ether	ND	ug/kg	4.9	1		08/31/07 15:01	1634-04-4	
Naphthalene	ND	ug/kg	9.7	1		08/31/07 15:01	91-20-3	
n-Propylbenzene	ND	ug/kg	4.9	1		08/31/07 15:01	103-65-1	
Styrene	ND	ug/kg	4.9	1		08/31/07 15:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	1		08/31/07 15:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	1		08/31/07 15:01	79-34-5	
Tetrachloroethene	**39.2**	ug/kg	4.9	1		08/31/07 15:01	127-18-4	
Toluene	ND	ug/kg	4.9	1		08/31/07 15:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.9	1		08/31/07 15:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	1		08/31/07 15:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.9	1		08/31/07 15:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	1		08/31/07 15:01	79-00-5	
Trichloroethene	ND	ug/kg	4.9	1		08/31/07 15:01	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.9	1		08/31/07 15:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.9	1		08/31/07 15:01	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	1		08/31/07 15:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	1		08/31/07 15:01	108-67-8	
Vinyl chloride	ND	ug/kg	4.9	1		08/31/07 15:01	75-01-4	
Xylene (Total)	ND	ug/kg	4.9	1		08/31/07 15:01	1330-20-7	
Dibromofluoromethane (S)	85	%	74-119	1		08/31/07 15:01	1868-53-7	
Toluene-d8 (S)	114	%	82-119	1		08/31/07 15:01	2037-26-5	
4-Bromofluorobenzene (S)	103	%	83-124	1		08/31/07 15:01	460-00-4	
1,2-Dichloroethane-d4 (S)	77	%	72-124	1		08/31/07 15:01	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**13.6**	%	0.10	1		08/30/07 00:00		

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ANALYTICAL RESULTS

Project: Brenntag IRMS
Pace Project No.: 6027765

Sample: IRM-CS-01 Lab ID: **6027765007** Collected: 08/29/07 16:25 Received: 08/30/07 08:30 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	1110	50		08/31/07 15:17	67-64-1	
Benzene	ND	ug/kg	277	50		08/31/07 15:17	71-43-2	
Bromobenzene	ND	ug/kg	277	50		08/31/07 15:17	108-86-1	
Bromochloromethane	ND	ug/kg	277	50		08/31/07 15:17	74-97-5	
Bromodichloromethane	ND	ug/kg	277	50		08/31/07 15:17	75-27-4	
Bromoform	ND	ug/kg	277	50		08/31/07 15:17	75-25-2	
Bromomethane	ND	ug/kg	277	50		08/31/07 15:17	74-83-9	
2-Butanone (MEK)	ND	ug/kg	554	50		08/31/07 15:17	78-93-3	
n-Butylbenzene	ND	ug/kg	277	50		08/31/07 15:17	104-51-8	
sec-Butylbenzene	ND	ug/kg	277	50		08/31/07 15:17	135-98-8	
tert-Butylbenzene	ND	ug/kg	277	50		08/31/07 15:17	98-06-6	
Carbon disulfide	ND	ug/kg	277	50		08/31/07 15:17	75-15-0	
Carbon tetrachloride	ND	ug/kg	277	50		08/31/07 15:17	56-23-5	
Chlorobenzene	ND	ug/kg	277	50		08/31/07 15:17	108-90-7	
Chloroethane	ND	ug/kg	277	50		08/31/07 15:17	75-00-3	
Chloroform	ND	ug/kg	277	50		08/31/07 15:17	67-66-3	
Chloromethane	ND	ug/kg	277	50		08/31/07 15:17	74-87-3	
2-Chlorotoluene	ND	ug/kg	277	50		08/31/07 15:17	95-49-8	
4-Chlorotoluene	ND	ug/kg	277	50		08/31/07 15:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	277	50		08/31/07 15:17	96-12-8	
Dibromochloromethane	ND	ug/kg	277	50		08/31/07 15:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	277	50		08/31/07 15:17	106-93-4	
Dibromomethane	ND	ug/kg	277	50		08/31/07 15:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	277	50		08/31/07 15:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	277	50		08/31/07 15:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	277	50		08/31/07 15:17	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	277	50		08/31/07 15:17	75-71-8	
1,1-Dichloroethane	**1090**	ug/kg	277	50		08/31/07 15:17	75-34-3	
1,2-Dichloroethane	ND	ug/kg	277	50		08/31/07 15:17	107-06-2	
1,2-Dichloroethene (Total)	**10000**	ug/kg	277	50		08/31/07 15:17	540-59-0	
1,1-Dichloroethene	**614**	ug/kg	277	50		08/31/07 15:17	75-35-4	
cis-1,2-Dichloroethene	**9940**	ug/kg	277	50		08/31/07 15:17	156-59-2	
trans-1,2-Dichloroethene	**88.8J**	ug/kg	277	50		08/31/07 15:17	156-60-5	
1,2-Dichloropropane	ND	ug/kg	277	50		08/31/07 15:17	78-87-5	
1,3-Dichloropropane	ND	ug/kg	277	50		08/31/07 15:17	142-28-9	
2,2-Dichloropropane	ND	ug/kg	277	50		08/31/07 15:17	594-20-7	
1,1-Dichloropropene	ND	ug/kg	277	50		08/31/07 15:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	277	50		08/31/07 15:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	277	50		08/31/07 15:17	10061-02-6	
Ethylbenzene	ND	ug/kg	277	50		08/31/07 15:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	277	50		08/31/07 15:17	87-68-3	
2-Hexanone	ND	ug/kg	1110	50		08/31/07 15:17	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	277	50		08/31/07 15:17	98-82-8	
p-Isopropyltoluene	ND	ug/kg	277	50		08/31/07 15:17	99-87-6	
Methylene chloride	ND	ug/kg	277	50		08/31/07 15:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	554	50		08/31/07 15:17	108-10-1	

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ANALYTICAL RESULTS

Project: Brenntag IRMS
Pace Project No.: 6027765

Sample: IRM-CS-01 **Lab ID: 6027765007** Collected: 08/29/07 16:25 Received: 08/30/07 08:30 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Methyl-tert-butyl ether	ND	ug/kg	277	50		08/31/07 15:17	1634-04-4	
Naphthalene	ND	ug/kg	554	50		08/31/07 15:17	91-20-3	
n-Propylbenzene	ND	ug/kg	277	50		08/31/07 15:17	103-65-1	
Styrene	ND	ug/kg	277	50		08/31/07 15:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	277	50		08/31/07 15:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	277	50		08/31/07 15:17	79-34-5	
Tetrachloroethene	**5700**	ug/kg	277	50		08/31/07 15:17	127-18-4	
Toluene	ND	ug/kg	277	50		08/31/07 15:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	277	50		08/31/07 15:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	277	50		08/31/07 15:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	277	50		08/31/07 15:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	277	50		08/31/07 15:17	79-00-5	
Trichloroethene	**153J**	ug/kg	277	50		08/31/07 15:17	79-01-6	
Trichlorofluoromethane	ND	ug/kg	277	50		08/31/07 15:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	277	50		08/31/07 15:17	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	277	50		08/31/07 15:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	277	50		08/31/07 15:17	108-67-8	
Vinyl chloride	ND	ug/kg	277	50		08/31/07 15:17	75-01-4	
Xylene (Total)	ND	ug/kg	277	50		08/31/07 15:17	1330-20-7	
Dibromofluoromethane (S)	86	%	74-119	50		08/31/07 15:17	1868-53-7	
Toluene-d8 (S)	108	%	82-119	50		08/31/07 15:17	2037-26-5	
4-Bromofluorobenzene (S)	110	%	83-124	50		08/31/07 15:17	460-00-4	
1,2-Dichloroethane-d4 (S)	84	%	72-124	50		08/31/07 15:17	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.0**	%	0.10	1		08/30/07 00:00		

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ANALYTICAL RESULTS

Project: Brenntag IRMS
Pace Project No.: 6027765

Sample: IRM-CS-07 **Lab ID: 6027765008** Collected: 08/29/07 16:30 Received: 08/30/07 08:30 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	1080	50		08/31/07 15:34	67-64-1	
Benzene	ND	ug/kg	271	50		08/31/07 15:34	71-43-2	
Bromobenzene	ND	ug/kg	271	50		08/31/07 15:34	108-86-1	
Bromochloromethane	ND	ug/kg	271	50		08/31/07 15:34	74-97-5	
Bromodichloromethane	ND	ug/kg	271	50		08/31/07 15:34	75-27-4	
Bromoform	ND	ug/kg	271	50		08/31/07 15:34	75-25-2	
Bromomethane	ND	ug/kg	271	50		08/31/07 15:34	74-83-9	
2-Butanone (MEK)	ND	ug/kg	541	50		08/31/07 15:34	78-93-3	
n-Butylbenzene	ND	ug/kg	271	50		08/31/07 15:34	104-51-8	
sec-Butylbenzene	ND	ug/kg	271	50		08/31/07 15:34	135-98-8	
tert-Butylbenzene	ND	ug/kg	271	50		08/31/07 15:34	98-06-6	
Carbon disulfide	ND	ug/kg	271	50		08/31/07 15:34	75-15-0	
Carbon tetrachloride	ND	ug/kg	271	50		08/31/07 15:34	56-23-5	
Chlorobenzene	ND	ug/kg	271	50		08/31/07 15:34	108-90-7	
Chloroethane	ND	ug/kg	271	50		08/31/07 15:34	75-00-3	
Chloroform	ND	ug/kg	271	50		08/31/07 15:34	67-66-3	
Chloromethane	ND	ug/kg	271	50		08/31/07 15:34	74-87-3	
2-Chlorotoluene	ND	ug/kg	271	50		08/31/07 15:34	95-49-8	
4-Chlorotoluene	ND	ug/kg	271	50		08/31/07 15:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	271	50		08/31/07 15:34	96-12-8	
Dibromochloromethane	ND	ug/kg	271	50		08/31/07 15:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	271	50		08/31/07 15:34	106-93-4	
Dibromomethane	ND	ug/kg	271	50		08/31/07 15:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	271	50		08/31/07 15:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	271	50		08/31/07 15:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	271	50		08/31/07 15:34	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	271	50		08/31/07 15:34	75-71-8	
1,1-Dichloroethane	ND	ug/kg	271	50		08/31/07 15:34	75-34-3	
1,2-Dichloroethane	ND	ug/kg	271	50		08/31/07 15:34	107-06-2	
1,2-Dichloroethene (Total)	**170J**	ug/kg	271	50		08/31/07 15:34	540-59-0	
1,1-Dichloroethene	ND	ug/kg	271	50		08/31/07 15:34	75-35-4	
cis-1,2-Dichloroethene	**170J**	ug/kg	271	50		08/31/07 15:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	271	50		08/31/07 15:34	156-60-5	
1,2-Dichloropropane	ND	ug/kg	271	50		08/31/07 15:34	78-87-5	
1,3-Dichloropropane	ND	ug/kg	271	50		08/31/07 15:34	142-28-9	
2,2-Dichloropropane	ND	ug/kg	271	50		08/31/07 15:34	594-20-7	
1,1-Dichloropropene	ND	ug/kg	271	50		08/31/07 15:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	271	50		08/31/07 15:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	271	50		08/31/07 15:34	10061-02-6	
Ethylbenzene	ND	ug/kg	271	50		08/31/07 15:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	271	50		08/31/07 15:34	87-68-3	
2-Hexanone	ND	ug/kg	1080	50		08/31/07 15:34	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	271	50		08/31/07 15:34	98-82-8	
p-Isopropyltoluene	ND	ug/kg	271	50		08/31/07 15:34	99-87-6	
Methylene chloride	ND	ug/kg	271	50		08/31/07 15:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	541	50		08/31/07 15:34	108-10-1	

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ANALYTICAL RESULTS

Project: Brenntag IRMS
Pace Project No.: 6027765

Sample: IRM-CS-07 **Lab ID: 6027765008** Collected: 08/29/07 16:30 Received: 08/30/07 08:30 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Methyl-tert-butyl ether	ND	ug/kg	271	50		08/31/07 15:34	1634-04-4	
Naphthalene	ND	ug/kg	541	50		08/31/07 15:34	91-20-3	
n-Propylbenzene	ND	ug/kg	271	50		08/31/07 15:34	103-65-1	
Styrene	ND	ug/kg	271	50		08/31/07 15:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	271	50		08/31/07 15:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	271	50		08/31/07 15:34	79-34-5	
Tetrachloroethene	**1370**	ug/kg	271	50		08/31/07 15:34	127-18-4	
Toluene	ND	ug/kg	271	50		08/31/07 15:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	271	50		08/31/07 15:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	271	50		08/31/07 15:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	271	50		08/31/07 15:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	271	50		08/31/07 15:34	79-00-5	
Trichloroethene	**187J**	ug/kg	271	50		08/31/07 15:34	79-01-6	
Trichlorofluoromethane	ND	ug/kg	271	50		08/31/07 15:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	271	50		08/31/07 15:34	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	271	50		08/31/07 15:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	271	50		08/31/07 15:34	108-67-8	
Vinyl chloride	ND	ug/kg	271	50		08/31/07 15:34	75-01-4	
Xylene (Total)	ND	ug/kg	271	50		08/31/07 15:34	1330-20-7	
Dibromofluoromethane (S)	94	%	74-119	50		08/31/07 15:34	1868-53-7	
Toluene-d8 (S)	106	%	82-119	50		08/31/07 15:34	2037-26-5	
4-Bromofluorobenzene (S)	107	%	83-124	50		08/31/07 15:34	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	72-124	50		08/31/07 15:34	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**17.2**	%	0.10	1		08/30/07 00:00		

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QUALITY CONTROL DATA

Project: Brenntag IRMS
Pace Project No.: 6027765

QC Batch: MSV/9914 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 6027765001, 6027765003, 6027765004, 6027765005

METHOD BLANK: 224208
Associated Lab Samples: 6027765001, 6027765003, 6027765004, 6027765005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	
1,1,1-Trichloroethane	ug/kg	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	
1,1,2-Trichloroethane	ug/kg	ND	5.0	
1,1-Dichloroethane	ug/kg	ND	5.0	
1,1-Dichloroethene	ug/kg	ND	5.0	
1,1-Dichloropropene	ug/kg	ND	5.0	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	
1,2,3-Trichloropropane	ug/kg	ND	5.0	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	
1,2-Dichlorobenzene	ug/kg	ND	5.0	
1,2-Dichloroethane	ug/kg	ND	5.0	
1,2-Dichloroethene (Total)	ug/kg	ND	5.0	
1,2-Dichloropropane	ug/kg	ND	5.0	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	
1,3-Dichlorobenzene	ug/kg	ND	5.0	
1,3-Dichloropropane	ug/kg	ND	5.0	
1,4-Dichlorobenzene	ug/kg	ND	5.0	
2,2-Dichloropropane	ug/kg	ND	5.0	
2-Butanone (MEK)	ug/kg	ND	10.0	
2-Chlorotoluene	ug/kg	ND	5.0	
2-Hexanone	ug/kg	ND	20.0	
4-Chlorotoluene	ug/kg	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	
Acetone	ug/kg	ND	20.0	
Benzene	ug/kg	ND	5.0	
Bromobenzene	ug/kg	ND	5.0	
Bromochloromethane	ug/kg	ND	5.0	
Bromodichloromethane	ug/kg	ND	5.0	
Bromoform	ug/kg	ND	5.0	
Bromomethane	ug/kg	ND	5.0	
Carbon disulfide	ug/kg	ND	5.0	
Carbon tetrachloride	ug/kg	ND	5.0	
Chlorobenzene	ug/kg	ND	5.0	
Chloroethane	ug/kg	ND	5.0	
Chloroform	ug/kg	ND	5.0	
Chloromethane	ug/kg	ND	5.0	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	
Dibromochloromethane	ug/kg	ND	5.0	

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QUALITY CONTROL DATA

Project: Brenntag IRMS
Pace Project No.: 6027765

METHOD BLANK: 224208

Associated Lab Samples: 6027765001, 6027765003, 6027765004, 6027765005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dibromomethane	ug/kg	ND	5.0	
Dichlorodifluoromethane	ug/kg	ND	5.0	
Ethylbenzene	ug/kg	ND	5.0	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	
Methyl-tert-butyl ether	ug/kg	ND	5.0	
Methylene chloride	ug/kg	ND	5.0	
n-Butylbenzene	ug/kg	ND	5.0	
n-Propylbenzene	ug/kg	ND	5.0	
Naphthalene	ug/kg	ND	10.0	
p-Isopropyltoluene	ug/kg	ND	5.0	
sec-Butylbenzene	ug/kg	ND	5.0	
Styrene	ug/kg	ND	5.0	
tert-Butylbenzene	ug/kg	ND	5.0	
Tetrachloroethene	ug/kg	ND	5.0	
Toluene	ug/kg	ND	5.0	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	
Trichloroethene	ug/kg	ND	5.0	
Trichlorofluoromethane	ug/kg	ND	5.0	
Vinyl chloride	ug/kg	ND	5.0	
Xylene (Total)	ug/kg	ND	5.0	
1,2-Dichloroethane-d4 (S)	%	114	72-124	
4-Bromofluorobenzene (S)	%	99	83-124	
Dibromofluoromethane (S)	%	109	74-119	
Toluene-d8 (S)	%	104	82-119	

LABORATORY CONTROL SAMPLE: 224209

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	53.7	107	84-120	
1,1,1-Trichloroethane	ug/kg	50	58.1	116	85-123	
1,1,2,2-Tetrachloroethane	ug/kg	50	44.7	89	76-130	
1,1,2-Trichloroethane	ug/kg	50	50.5	101	77-128	
1,1-Dichloroethane	ug/kg	50	49.6	99	83-125	
1,1-Dichloroethene	ug/kg	50	48.7	97	75-148	
1,1-Dichloropropene	ug/kg	50	50.8	102	86-128	
1,2,3-Trichlorobenzene	ug/kg	50	54.4	109	80-123	
1,2,3-Trichloropropane	ug/kg	50	41.2	82	72-117	
1,2,4-Trichlorobenzene	ug/kg	50	54.0	108	77-127	
1,2,4-Trimethylbenzene	ug/kg	50	44.5	89	83-123	
1,2-Dibromo-3-chloropropane	ug/kg	50	43.6	87	80-122	
1,2-Dibromoethane (EDB)	ug/kg	50	52.5	105	82-122	
1,2-Dichlorobenzene	ug/kg	50	50.1	100	86-118	
1,2-Dichloroethane	ug/kg	50	55.3	111	82-125	

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QUALITY CONTROL DATA

Project: Brenntag IRMS
Pace Project No.: 6027765

LABORATORY CONTROL SAMPLE: 224209

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/kg	100	98.2	98	81-133	
1,2-Dichloropropane	ug/kg	50	47.9	96	82-125	
1,3,5-Trimethylbenzene	ug/kg	50	46.3	93	81-125	
1,3-Dichlorobenzene	ug/kg	50	49.7	99	85-117	
1,3-Dichloropropane	ug/kg	50	47.1	94	80-125	
1,4-Dichlorobenzene	ug/kg	50	49.9	100	85-117	
2,2-Dichloropropane	ug/kg	50	53.8	108	84-127	
2-Butanone (MEK)	ug/kg	100	89.6	90	68-128	
2-Chlorotoluene	ug/kg	50	47.3	95	85-126	
2-Hexanone	ug/kg	100	87.2	87	60-139	
4-Chlorotoluene	ug/kg	50	45.4	91	80-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	100	89.5	90	76-120	
Acetone	ug/kg	100	100	100	54-132	
Benzene	ug/kg	50	47.3	95	81-125	
Bromobenzene	ug/kg	50	55.4	111	78-124	
Bromochloromethane	ug/kg	50	51.3	103	82-130	
Bromodichloromethane	ug/kg	50	57.1	114	86-127	
Bromoform	ug/kg	50	50.3	101	71-117	
Bromomethane	ug/kg	50	40.2	80	60-134	
Carbon disulfide	ug/kg	100	68.9	69	45-135	
Carbon tetrachloride	ug/kg	50	58.8	118	84-129	
Chlorobenzene	ug/kg	50	50.7	101	87-118	
Chloroethane	ug/kg	50	37.9	76	59-133	
Chloroform	ug/kg	50	50.9	102	80-120	
Chloromethane	ug/kg	50	24.7	49	45-130	
cis-1,2-Dichloroethene	ug/kg	50	47.5	95	79-130	
cis-1,3-Dichloropropene	ug/kg	50	52.4	105	87-120	
Dibromochloromethane	ug/kg	50	57.3	115	80-126	
Dibromomethane	ug/kg	50	53.3	107	86-123	
Dichlorodifluoromethane	ug/kg	50	9.9	20	10-139	
Ethylbenzene	ug/kg	50	48.6	97	85-119	
Hexachloro-1,3-butadiene	ug/kg	50	57.4	115	79-138	
Isopropylbenzene (Cumene)	ug/kg	50	47.6	95	79-111	
Methyl-tert-butyl ether	ug/kg	50	43.7	87	78-119	
Methylene chloride	ug/kg	50	45.6	91	72-122	
n-Butylbenzene	ug/kg	50	47.0	94	82-129	
n-Propylbenzene	ug/kg	50	47.0	94	82-127	
Naphthalene	ug/kg	50	49.6	99	70-129	
p-Isopropyltoluene	ug/kg	50	44.7	89	82-121	
sec-Butylbenzene	ug/kg	50	46.4	93	83-126	
Styrene	ug/kg	50	51.9	104	84-121	
tert-Butylbenzene	ug/kg	50	46.5	93	84-122	
Tetrachloroethene	ug/kg	50	57.2	114	83-126	
Toluene	ug/kg	50	45.9	92	83-122	
trans-1,2-Dichloroethene	ug/kg	50	50.8	102	80-139	
trans-1,3-Dichloropropene	ug/kg	50	53.8	108	78-128	
Trichloroethene	ug/kg	50	50.2	100	86-123	
Trichlorofluoromethane	ug/kg	50	43.3	87	69-130	

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QUALITY CONTROL DATA

Project: Brenntag IRMS
Pace Project No.: 6027765

LABORATORY CONTROL SAMPLE: 224209

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/kg	50	26.9	54	53-135	
Xylene (Total)	ug/kg	150	151	101	84-118	
1,2-Dichloroethane-d4 (S)	%			105	72-124	
4-Bromofluorobenzene (S)	%			98	83-124	
Dibromofluoromethane (S)	%			104	74-119	
Toluene-d8 (S)	%			104	82-119	

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QUALITY CONTROL DATA

Project: Brenntag IRMS
Pace Project No.: 6027765

QC Batch: MSV/9934
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 6027765002

METHOD BLANK: 224367
Associated Lab Samples: 6027765002

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	
1,1,1-Trichloroethane	ug/kg	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	
1,1,2-Trichloroethane	ug/kg	ND	5.0	
1,1-Dichloroethane	ug/kg	ND	5.0	
1,1-Dichloroethene	ug/kg	ND	5.0	
1,1-Dichloropropene	ug/kg	ND	5.0	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	
1,2,3-Trichloropropane	ug/kg	ND	5.0	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	
1,2-Dichlorobenzene	ug/kg	ND	5.0	
1,2-Dichloroethane	ug/kg	ND	5.0	
1,2-Dichloroethene (Total)	ug/kg	ND	5.0	
1,2-Dichloropropane	ug/kg	ND	5.0	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	
1,3-Dichlorobenzene	ug/kg	ND	5.0	
1,3-Dichloropropane	ug/kg	ND	5.0	
1,4-Dichlorobenzene	ug/kg	ND	5.0	
2,2-Dichloropropane	ug/kg	ND	5.0	
2-Butanone (MEK)	ug/kg	ND	10.0	
2-Chlorotoluene	ug/kg	ND	5.0	
2-Hexanone	ug/kg	ND	20.0	
4-Chlorotoluene	ug/kg	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	
Acetone	ug/kg	ND	20.0	
Benzene	ug/kg	ND	5.0	
Bromobenzene	ug/kg	ND	5.0	
Bromochloromethane	ug/kg	ND	5.0	
Bromodichloromethane	ug/kg	ND	5.0	
Bromoform	ug/kg	ND	5.0	
Bromomethane	ug/kg	ND	5.0	
Carbon disulfide	ug/kg	ND	5.0	
Carbon tetrachloride	ug/kg	ND	5.0	
Chlorobenzene	ug/kg	ND	5.0	
Chloroethane	ug/kg	ND	5.0	
Chloroform	ug/kg	ND	5.0	
Chloromethane	ug/kg	ND	5.0	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	
Dibromochloromethane	ug/kg	ND	5.0	

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QUALITY CONTROL DATA

Project: Brenntag IRMS
Pace Project No.: 6027765

METHOD BLANK: 224367
Associated Lab Samples: 6027765002

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dibromomethane	ug/kg	ND	5.0	
Dichlorodifluoromethane	ug/kg	ND	5.0	
Ethylbenzene	ug/kg	ND	5.0	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	
Methyl-tert-butyl ether	ug/kg	ND	5.0	
Methylene chloride	ug/kg	ND	5.0	
n-Butylbenzene	ug/kg	ND	5.0	
n-Propylbenzene	ug/kg	ND	5.0	
Naphthalene	ug/kg	ND	10.0	
p-Isopropyltoluene	ug/kg	ND	5.0	
sec-Butylbenzene	ug/kg	ND	5.0	
Styrene	ug/kg	ND	5.0	
tert-Butylbenzene	ug/kg	ND	5.0	
Tetrachloroethene	ug/kg	ND	5.0	
Toluene	ug/kg	ND	5.0	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	
Trichloroethene	ug/kg	ND	5.0	
Trichlorofluoromethane	ug/kg	ND	5.0	
Vinyl chloride	ug/kg	ND	5.0	
Xylene (Total)	ug/kg	ND	5.0	
1,2-Dichloroethane-d4 (S)	%	114	72-124	
4-Bromofluorobenzene (S)	%	99	83-124	
Dibromofluoromethane (S)	%	103	74-119	
Toluene-d8 (S)	%	99	82-119	

LABORATORY CONTROL SAMPLE: 224368

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	57.3	115	84-120	
1,1,1-Trichloroethane	ug/kg	50	65.7	131	85-123	L3
1,1,2,2-Tetrachloroethane	ug/kg	50	42.3	85	76-130	
1,1,2-Trichloroethane	ug/kg	50	49.8	100	77-128	
1,1-Dichloroethane	ug/kg	50	57.9	116	83-125	
1,1-Dichloroethene	ug/kg	50	62.8	126	75-148	
1,1-Dichloropropene	ug/kg	50	57.8	116	86-128	
1,2,3-Trichlorobenzene	ug/kg	50	54.1	108	80-123	
1,2,3-Trichloropropane	ug/kg	50	38.9	78	72-117	
1,2,4-Trichlorobenzene	ug/kg	50	55.6	111	77-127	
1,2,4-Trimethylbenzene	ug/kg	50	46.8	94	83-123	
1,2-Dibromo-3-chloropropane	ug/kg	50	40.6	81	80-122	
1,2-Dibromoethane (EDB)	ug/kg	50	50.7	101	82-122	
1,2-Dichlorobenzene	ug/kg	50	52.0	104	86-118	
1,2-Dichloroethane	ug/kg	50	57.3	115	82-125	

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QUALITY CONTROL DATA

Project: Brenntag IRMS
Pace Project No.: 6027765

LABORATORY CONTROL SAMPLE: 224368

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/kg	100	116	116	81-133	
1,2-Dichloropropane	ug/kg	50	48.5	97	82-125	
1,3,5-Trimethylbenzene	ug/kg	50	49.4	99	81-125	
1,3-Dichlorobenzene	ug/kg	50	51.8	104	85-117	
1,3-Dichloropropane	ug/kg	50	46.7	93	80-125	
1,4-Dichlorobenzene	ug/kg	50	53.5	107	85-117	
2,2-Dichloropropane	ug/kg	50	62.0	124	84-127	
2-Butanone (MEK)	ug/kg	100	75.1	75	68-128	
2-Chlorotoluene	ug/kg	50	49.5	99	85-126	
2-Hexanone	ug/kg	100	80.4	80	60-139	
4-Chlorotoluene	ug/kg	50	50.2	100	80-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	100	83.0	83	76-120	
Acetone	ug/kg	100	98.2	98	54-132	
Benzene	ug/kg	50	51.2	102	81-125	
Bromobenzene	ug/kg	50	59.3	119	78-124	
Bromochloromethane	ug/kg	50	55.4	111	82-130	
Bromodichloromethane	ug/kg	50	60.9	122	86-127	
Bromoform	ug/kg	50	50.7	101	71-117	
Bromomethane	ug/kg	50	53.6	107	60-134	
Carbon disulfide	ug/kg	100	88.0	88	45-135	
Carbon tetrachloride	ug/kg	50	67.4	135	84-129	L3
Chlorobenzene	ug/kg	50	53.1	106	87-118	
Chloroethane	ug/kg	50	53.7	107	59-133	
Chloroform	ug/kg	50	56.7	113	80-120	
Chloromethane	ug/kg	50	40.9	82	45-130	
cis-1,2-Dichloroethene	ug/kg	50	53.2	106	79-130	
cis-1,3-Dichloropropene	ug/kg	50	55.0	110	87-120	
Dibromochloromethane	ug/kg	50	60.3	121	80-126	
Dibromomethane	ug/kg	50	54.1	108	86-123	
Dichlorodifluoromethane	ug/kg	50	33.5	67	10-139	
Ethylbenzene	ug/kg	50	53.8	108	85-119	
Hexachloro-1,3-butadiene	ug/kg	50	60.5	121	79-138	
Isopropylbenzene (Cumene)	ug/kg	50	50.5	101	79-111	
Methyl-tert-butyl ether	ug/kg	50	53.9	108	78-119	
Methylene chloride	ug/kg	50	50.9	102	72-122	
n-Butylbenzene	ug/kg	50	50.5	101	82-129	
n-Propylbenzene	ug/kg	50	51.2	102	82-127	
Naphthalene	ug/kg	50	43.7	87	70-129	
p-Isopropyltoluene	ug/kg	50	49.2	98	82-121	
sec-Butylbenzene	ug/kg	50	49.7	99	83-126	
Styrene	ug/kg	50	54.4	109	84-121	
tert-Butylbenzene	ug/kg	50	58.0	116	84-122	
Tetrachloroethene	ug/kg	50	65.0	130	83-126	L3
Toluene	ug/kg	50	51.6	103	83-122	
trans-1,2-Dichloroethene	ug/kg	50	62.4	125	80-139	
trans-1,3-Dichloropropene	ug/kg	50	52.8	106	78-128	
Trichloroethene	ug/kg	50	57.6	115	86-123	
Trichlorofluoromethane	ug/kg	50	59.1	118	69-130	

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QUALITY CONTROL DATA

Project: Brenntag IRMS
Pace Project No.: 6027765

LABORATORY CONTROL SAMPLE: 224368

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/kg	50	44.2	88	53-135	
Xylene (Total)	ug/kg	150	161	108	84-118	
1,2-Dichloroethane-d4 (S)	%			107	72-124	
4-Bromofluorobenzene (S)	%			102	83-124	
Dibromofluoromethane (S)	%			107	74-119	
Toluene-d8 (S)	%			101	82-119	

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QUALITY CONTROL DATA

Project: Brenntag IRMS
Pace Project No.: 6027765

QC Batch: PMST/2445 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 6027765001, 6027765002, 6027765003, 6027765004, 6027765005, 6027765006, 6027765007, 6027765008

SAMPLE DUPLICATE: 224381

Parameter	Units	6027570001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	31.2	29.5	5	20	

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