



W. Marshall Taylor Jr., Acting Director

Promoting and protecting the health of the public and the environment

June 8, 2015

**PHILLIPS 66 COMPANY
C/O EDWARD KUHN
1338 HUNDRED OAKS DRIVE
SUITE A
CHARLOTTE NC 28217**

Re: Corrective Action Solicitation
Kayo Service Station (Jet), 2502 Highway 25 South, Greenwood, SC 29646
UST Permit #04731
Release Reported June 8, 1988
Report Received May 4, 2015
Greenwood County

Dear Mr. Kuhn:

The Underground Storage Tank (UST) Management Division (Division) of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the May 2015 assessment report submitted by Cardno. Active corrective action is necessary to remediate the subsurface and ensure there is no potential impact to human health or the environment at the receptor locations.

The site's priority classification is 2BB. Therefore, funds from the State Underground Petroleum Environmental Response Bank (SUPERB) Account are currently available for implementation of an acceptable method of corrective action. The selected technology must completely reduce the petroleum chemicals of concern to those concentrations listed in the Corrective Action Solicitation package. All rehabilitation activities associated with a release from an UST must be performed by a SCDHEC certified site rehabilitation contractor as required by R.61-98 and in accordance with the UST Quality Assurance Program Plan (QAPP), Revision 2.0.

The Division understands that you wish to select the rehabilitation contractor to perform the corrective action. In addition to the three solicitation responses you personally obtain as outlined below, the Agency will announce the Corrective Action Solicitation in the South Carolina Business Opportunities. This announcement is to ensure enough responses are received to establish a fair and competitive price to initiate corrective action in a timely manner. This announcement will clearly indicate that the UST owner/operator will make the contractor selection to receive financial and technical approval.

Procedures

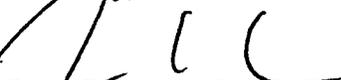
The following steps should be followed as you secure responses to the Corrective Action Solicitation.

- Step 1. Select a minimum of three (3) certified site rehabilitation contractors to complete the enclosed Financial Approval Form. A list of currently certified contractors is enclosed.
- Step 2. Please provide each of the proposed site rehabilitation contractors a copy of this letter. The Corrective Action Solicitation package is available at <http://www.scdhec.gov/environment/lwm/usthome/OOBid.htm>.
- Step 3. Direct each of your proposed site rehabilitation contractors to submit their Financial Approval Form, addressed to the attention of Lee A. Monts, by the date specified in the table on Page 1 of the attached solicitation. The form may be hand delivered or mailed in a sealed envelope to SCDHEC, UST Management Division, 2600 Bull St., Columbia, SC 29201. The envelope must be marked as Financial Approval Form for UST Permit #04731.

You will be provided copies of all the solicitation response forms submitted. Upon review of the responses, you will be required to complete a Corrective Action Solicitation Proposal - Summary form that designates which site rehabilitation contractor you wish to use. Once you select a contractor, the Agency strongly suggests that a written contract between you and the contractor be developed. The only parties to this contract would be you and the contractor you choose. Since the Agency's only function would be to monitor the corrective action activities to ensure progress toward achieving defined corrective actions goals, rather than perform and/or oversee the associated activities, the Agency would not be party to your contract. Please note that under R.61-92, Part 280: Underground Storage Tank Control Regulations, you as the owner/operator are ultimately responsible to the Agency for the actions of your contractor.

On all future correspondence, please reference the **UST Permit #04731**. Please note that approval from the Agency must be issued before corrective action begins. If you have questions concerning this correspondence, please contact me by telephone at (803) 898-0606, by fax at (803) 898-0673, or by email at bryantjc@dhec.sc.gov.

Sincerely,



John C. Bryant, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Corrective Action Solicitation Package
List of Certified Site Rehabilitation Contractors

cc: Technical File (Cover letter and solicitation package)

I. FINANCIAL APPROVAL FORM

A. ACCEPTANCE and DELIVERY STATEMENT

In compliance with the solicitation and subject to all conditions thereof, the Offeror agrees, if selected by the UST Owner/Operator within _____ days from the date of financial approval form submittal, to complete the corrective action as specified at the price set forth for the site as stated below. For the purpose of this submittal and possible acceptance of financial approval, I certify that this company understands the nature of the release(s) and the geologic conditions at the site as documented in the technical file and this solicitation. **Any quantities listed in the corrective action method(s) below are estimates and changes to those quantities or to the listed method(s) will not affect the financial approval amount.** Additionally, I certify that this company understands that acceptance is based on total cost to treat the area of concern.

Offeror (Print)

UST Site Rehabilitation Contractor Certification #

Registered Professional Name (Print)

Registered Professional Signature (required)

P.G. P.E. (check appropriate box)

Professional Certification #

B. CORRECTIVE ACTION SOLICITATION RESPONSE

Please respond to the following questions for (Kayo Service Station, 2502 Highway 25 South, Greenwood, SC 29646 UST Permit #04731):

1. State and briefly describe the corrective action method(s) or technology(ies) that will be discussed in detail in the CAP to achieve completion in five years, should financial approval occur. Attach an additional sheet if necessary.

2. The Corrective Action Completion Time, in months, to complete the corrective action from the date of corrective action plan implementation until the final corrective action goal has been achieved and maintained for 2 consecutive quarters is _____ months. All activities must be completed within 5 years of the date of financial approval unless otherwise approved in writing by the Agency.

3. The Corrective Action Cost, in whole dollars, regardless of the type, quantity, or duration of the permitted technology applied, to treat the area of concern shown in the Appendix such that the CoC concentrations do not exceed the SSTLs at any point in the area of concern; complete all associated monitoring and post-corrective action verification; prepare all plans, reports, and correspondence; obtain and meet all terms and conditions of all required permits and licenses; design, install, monitor, operate, maintain, and when completed, properly abandon or remove all assessment and corrective action components; and complete other items outlined in this solicitation is:

\$ _____

II. SCOPE OF WORK

A. DEFINITIONS:

For the purposes of this solicitation the following terms and definitions shall apply:

1. **Area of Concern**: The horizontal and vertical area in which concentrations of petroleum chemicals of concern have been quantified and/or can be relatively determined by actual data and subsequent interpretation using accepted scientific principles.
2. **Catastrophic Occurrence**: An event (e.g., hurricane) that results in a declared state of emergency and directly and substantially affects the Contractor's operations at a site.
3. **Chemicals of Concern (CoC)**: Specific petroleum constituents that are identified for monitoring and corrective action.
4. **Corrective Action Completion Time**: The time in months, submitted by the Contractor, necessary to reduce CoC concentrations to below site-specific target levels (SSTLs), verify attainment of corrective action goals, and remove and/or properly abandon assessment and corrective action components (wells, treatment lines, etc.). All activities must be completed within 5 years of the date of financial approval unless otherwise approved in writing by the Agency.
5. **Corrective Action Cost**: The total amount established via the procurement process to complete the scope of work/specifications detailed in the solicitation.
6. **Corrective Action Plan (CAP)**: A document submitted by the Contractor that outlines and details proposed corrective action(s) and contains a timetable consistent with the Corrective Action Completion Time.
7. **Corrective Action Plan Implementation Date**: The date on which the Contractor initiates corrective action (i.e. physical treatment activities such excavation, extraction, injection, etc.) under the approved Corrective Action Plan. The date must be within 30 days of receipt of a Notice to Proceed issued by the Agency.
8. **Day**: For the purpose of this solicitation, any reference to day(s) will be intended as calendar day(s) and not business day(s).
9. **Free-Phase Product (FPP)**: Petroleum lighter than water non-aqueous phase liquid (LNAPL) identified for monitoring and corrective action.
10. **QAPP**: UST Management Division Quality Assurance Program Plan.
11. **Site Incentive Period**: The period of time in months established by the Agency during which the Contractor must achieve the corrective action goals (see Solicitation Item III.A.9.) in order to qualify for the Early Completion Incentive.

B. SOLICITATION STATEMENT

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) is seeking services on behalf of (Phillips 66 Company) to perform active corrective action of a petroleum release or petroleum releases at a regulated underground storage tank site in accordance with defined corrective action goals. The objectives are to prevent significant further migration of CoC and to reduce CoC concentrations to or below SSTLs established by the Agency. All Offerors must be SCDHEC-certified Class I Site Rehabilitation Contractors.

C. SCHEDULE OF DELIVERABLES

The following table summarizes the deadlines for deliverables associated with this solicitation:

DELIVERABLE DUE	DEADLINE
Questions	By June 25, 2015
Financial Approval Form	By July 14, 2015 in sealed envelope
QAPP Contractor Addendum or Site-Specific Work Plan for Initial Monitoring Report	15 days from date of financial approval
Corrective Action Plan and QAPP Contractor Addendum or Site-Specific Work Plan for Corrective Action	30 days from date of financial approval
Initial Monitoring Report	45 days from approval of QAPP Contractor Addendum or Site-Specific Work Plan for Initial Monitoring Report
CAP Implementation	30 days from Notice to Proceed
CAP Implementation Report	60 days from Notice to Proceed
Notify Project Manager of Sampling	At least 2 weeks prior to sampling event
Corrective Action System Evaluation Report (CASE)	Semi-annually with initial report due within 90 days of the CAP Implementation Report or other schedule approved by the Agency
Water Supply Well Sampling Results	Quarterly from date of CAP Implementation Report or other schedule approved by the Agency
Update QAPP Contractor Addendum or Site-Specific Work Plan for Corrective Action	First quarter of each year or as needed until completion of corrective action
Abandon and/or Remove Assessment and Corrective Action Components	Within 60 days from notice by the Agency

D. SITE SPECIFIC INFORMATION

The scope of work defined in this solicitation is to be implemented at (Kayo Service Station, 2502 Highway 25 South, Greenwood, SC 29646 UST Permit #04731) for the release(s) reported on (June 8, 1988). A copy of the technical file will be available on-line at

<http://www.scdhec.gov/environment/lw/ust/releaseassessmentclean-up/correctiveactionopenbids/> until the initial Corrective Action Plan is approved. The technical file may also be reviewed at the Freedom of Information (FOI) Office located at the Sims/Aycock Building, 2600 Bull Street, Columbia, SC (803-898-3882).

III. SOLICITATION REQUIREMENTS

A. GENERAL REQUIREMENTS

1. **PAYMENT PERIOD:** The payment period will be effective from the date of financial approval until corrective action is complete as outlined in this solicitation.
2. **EQUAL OPPORTUNITY EMPLOYMENT:** Contractor must agree to make positive efforts to employ women, other minorities, and minority-owned businesses.
3. **AMENDMENTS:** All amendments to this solicitation shall be in writing from the Agency. The Agency shall not be legally bound by any amendment, interpretation or settlement that is not in writing.
4. **RESTRICTION . . . THE ONLY OFFICIAL CONTACT PERSON AT THE AGENCY DURING THE SOLICITATION AND FINANCIAL APPROVAL PROCESS IS (Lee Monts). OFFERORS ARE NOT TO CONTACT ANY OTHER AGENCY PERSONNEL OR OTHER CONTRACTORS.**
5. **FINANCIAL APPROVAL:** The UST Owner/Operator has the right to select an SCDHEC-certified Class I Site Rehabilitation Contractor to perform corrective action in accordance with SUPERB Act (Title 44, Chapter 2 of the Code of Laws of South Carolina), and is not limited to Contractors who respond to this solicitation. Therefore, financial approval may be made to a Contractor who has been selected by the Owner/Operator but has not responded to this solicitation. The financial approval will be for the reasonable cost as defined in Solicitation Item III.A.6. The selected Contractor must agree to make positive efforts to employ women, other minorities, and minority-owned businesses. **The Agency strongly suggests that a written contract be developed between the Owner/Operator and the selected Contractor following completion of the solicitation process. The Agency will not be a party to this contract. If the selected Contractor does not or cannot complete the corrective action in accordance with the specifications outlined in this solicitation, the Owner/Operator will be required to find another SCDHEC-certified Contractor to complete the corrective action for the remainder of the existing financial approval amount. Additional SUPERB funding in excess of financial approval amount may not be allowed. Per the Underground Storage Tank Control Regulations R. 61-92, Part 280, the Owner/Operator is ultimately responsible to the Agency for the actions of their selected Contractor. Therefore, the Agency will pursue enforcement actions against the Owner/Operator if their selected Contractor does not make satisfactory progress towards achieving corrective action goals as outlined in Solicitation Item III.A.9.**
6. **REASONABLE COST:** The lowest Corrective Action Cost submitted on a Financial Approval Form in response to this solicitation will be considered the reasonable or SUPERB-allowable

cost to complete corrective action as defined by the solicitation. The Agency reserves the right to reject any and all submitted Financial Approval Forms that propose Corrective Action Costs that are not advantageous to the State of South Carolina, that propose a Corrective Action Completion Time that is not protective of public health and the environment, and that propose remediation technology(ies) or method(s) that cannot be permitted in the State of South Carolina and/or that are not protective of public health and the environment.

- a. The Corrective Action Completion Time for the site shall be determined by the Offeror and entered on the Financial Approval Form in Solicitation Item I.B.
 - 1) Time is of the essence in completing the site work to restore the aquifer and protect human health and the environment. Therefore, the Offeror is encouraged to strive for efficient corrective action methods and to propose the shortest practical completion time for the site.
 - 2) The Offeror shall enter the number of months in the space provided for the site in Solicitation Item I.B.
7. **SITE WORK VERIFICATION:** The Contractor will be required to treat the area of concern as defined in Solicitation Item II.A.1. and as shown in the Appendix (Figure 7A – 7D). Verification that interim corrective action goals have been achieved will be based upon sampling results from the SSTL wells and sampling points listed in the Appendix. Verification that the final corrective action goal has been achieved will be based upon sampling results from all wells and sampling points listed in the Appendix, and additional verification wells to be installed at locations and depths designated by the Agency (see Solicitation Item IV.B.11. for more details). It is understood that seasonal fluctuations in CoC concentrations will occur. It is the intent and purpose of this corrective action to prevent further degradation of the aquifer by continued migration of CoC into areas not previously impacted. If the corrective action allows CoC to migrate into areas not previously impacted, the Contractor will be responsible for completing assessment activities necessary to redefine the impacted areas and for providing amendments to their Corrective Action Plan (CAP) to address the additional impact.
8. **REPORTS:** Reports are to be submitted the Agency on, or prior, established due dates unless otherwise approved by the Agency. Deliver one electronic copy of each plan and report to: SCDHEC, Bureau of Land and Waste Management, UST Management Division 2600 Bull Street, Columbia, SC 29201. The copy should be submitted on a compact disk (CD) in Personal Data Format (PDF). All data tables should be in MS Excel or comparable format. One copy of each plan and report must be delivered to each party listed on the Distribution List included in the Appendix. The copy can be electronic or paper as agreed upon by the party and the Contractor. Based on permitting and other requirements, additional copies of plans and reports may be required by the Agency. The Agency will notify the Owner/Operator of the exact number of copies of each document to be submitted.
9. **INVOICING:** Invoices will be submitted to SCDHEC, Bureau of Land and Waste Management, UST Management Division, ATTN: Financial Section, 2600 Bull Street, Columbia, SC 29201, using the SCDHEC Corrective Action (CA) Invoice form. An initial

invoice must be received at the above address within 4 months of financial approval or funds will be uncommitted as required by the Section 44-2-40(B) of the SUPERB Act. If funds are uncommitted, the invoice will be held until funds become available. **Payment will only be made for achieving the corrective action goals as specified below. No partial payments will be made except as outlined in Solicitation Item IV.B.4.** Payment to the Contractor will be on a pay-for-performance basis as follows:

- a. Payment of 40% of the total Corrective Action Cost will be made within 90 days following receipt of an invoice and documentation that the Contractor has completed the Corrective Action Plan implementation. All corrective action activities must be as described in the CAP and are subject to the limitations of Section 44-2-40 of the SUPERB Act. The implementation should be documented in the Corrective Action Implementation Report. The Corrective Action Plan Implementation Report must include the construction logs for all injection and/or extraction wells installed in accordance with the CAP.
- b. Payment of 30% of the total Corrective Action Cost will be made based on achieving interim CoC concentration reduction goals as verified in the SSTL wells and sampling points listed in the Appendix. Payments will be made upon receipt of invoices and documentation that the Contractor has achieved interim goals of 60%, 90% and 100% reduction of total CoC concentration above the SSTLs **by the implementation of corrective action.** The CoC concentrations and SSTLs are listed in the Appendix.
 - 1) The first interim concentration reduction goal will be achieved when 60% of the total CoC concentration above SSTLs in the SSTL wells and sampling points listed in the Appendix is removed. The formula listed in the site rehabilitation section of the QAPP will be used to calculate the percent total concentration reduction. Payment of 10% of the total Corrective Action Cost will be made upon confirmation by CASE report or by verification (see Solicitation Item IV.B.11. for the method of verification) that at least 60% of the total CoC concentration above SSTLs has been removed.
 - 2) The second interim concentration reduction goal will be achieved when 90% of the total CoC concentration above SSTLs in the SSTL wells and sampling points listed in the Appendix is removed. The formula listed in the site rehabilitation section of the QAPP will be used to calculate the percent total concentration reduction. Payment of 10% of the total Corrective Action Cost will be made upon verification (see Solicitation Item IV.B.11. for the method of verification) that at least 90% of the total CoC concentration above SSTLs has been removed. **Achievement of this interim goal must be verified by split sampling conducted with SCDHEC.**
 - 3) The final concentration reduction goal will be achieved when 100% of the total CoC concentration above the SSTLs in the SSTL wells and sampling points listed in the Appendix is removed. The formula listed in the site rehabilitation section of the QAPP will be used to calculate the percent total concentration reduction. Payment of 10% of the total Corrective Action Cost will be made upon verification (see Solicitation Item IV.B.11. for the method of verification) that 100% of the total CoC concentration above the SSTLs has been removed. **The 100% payment milestone must be verified**

following two consecutive quarters with all corrective action activities completely ceased prior to payment eligibility. Achievement of this goal must be verified by split sampling conducted with the Agency (to be completed during the 2nd 100% verification quarter). CoC concentrations must not exceed SSTLs in all wells and sampling points listed in the Appendix, in all verification wells, and at any point in the area of concern.

- c. The final 30% of the total Corrective Action Cost will be paid upon receipt of an invoice and verification that all assessment and corrective action components (e.g., piping, wells, trenches, etc.) have been removed from the site or properly abandoned (see Solicitation Items IV.B.11-14. for more details), and the facility and associated adjacent properties have been restored to the condition that existed prior to assessment and corrective action (Solicitation Item IV.B.13.). If 100% CoC concentration reduction is not achieved, the final payment may be reduced accordingly (e.g., 98% paid for 98% final reduction) as mutually agreed upon by the Agency and the Contractor.
10. **LIMITATIONS: The approved Corrective Action Cost will be final and will not be increased or cancelled for any reason (e.g., unanticipated iron fouling of a system, wells clogging because of biological activity or sediments, damage by lightning, increased subcontractor costs, loss of utilities, modification to the system to meet the remediation goals, etc.) with the exception of: 1) unforeseen subsurface conditions as determined solely at the discretion of the Agency; or 2) identification of additional CoC from a confirmed release that occurs subsequent to financial approval and that adversely impacts corrective action as determined by the Agency. Payment will only be made for achieving the corrective action goals as specified in this solicitation. No interim or partial payments will be made once corrective action is initiated, except as outlined in Solicitation Item IV.B.4. Once corrective action has been initiated and in the event of a cancellation due to any of the conditions described in this solicitation Item, final payment, if appropriate, will be a percentage of the Corrective Action Cost. The percentage will be equal to the actual percent total CoC concentration reduction based upon last sampling results, as verified by the Agency, from all wells and sampling points listed in the Appendix and all verification wells, less the amount previously paid. Contractor-owned items used on-site for the corrective action that are damaged or destroyed by common acts of nature, improper maintenance or handling, theft or vandalism will not be replaced or reimbursed by the SUPERB Account. The Contractor cannot delay progress or suspend corrective action activities at the site based upon a claim of a suspected new petroleum release from the UST system. Unless directed otherwise by the Agency, the Contractor must continue to perform corrective action activities under this solicitation during any period of time during which a new petroleum release from the UST system is being investigated. The Contractor must clearly demonstrate sufficient evidence of the release in the form of analytical test results or other demonstrative evidence to the Agency. The determination that a new petroleum release from the UST system has occurred that post-dates the financial approval, and that adversely impacts corrective action at the site, is the sole discretion of the Agency.**

B. SPECIFIC REQUIREMENTS

1. **SCOPE OF SOLICITATION:** This solicitation is for corrective action at one site in South Carolina.
2. **INQUIRIES:** A copy of the technical file will be available on-line at <http://www.scdhec.gov/environment/lw/ust/releaseassessmentclean-up/correctiveactionopenbids/> until the initial Corrective Action Plan is approved. The technical file may also be reviewed at the Freedom of Information (FOI) Office located at the Sims/Aycock Building, 2600 Bull Street, Columbia, SC (803-898-3882). All questions or requests for information must be submitted in writing to Lee Monts, FAX number (803) 898-0673, in accordance with the date specified in Solicitation Item II.C. After this date, no further questions or requests for information will be addressed. A written response will be provided.
3. **PROVISION FOR EARLY COMPLETION INCENTIVE:** The Agency will pay the Contractor an incentive of 10% of the Corrective Action Cost for early completion, subject solely to the conditions set forth in this provision. Payment will be made if the corrective action goals have been met in accordance with the terms and conditions of this solicitation prior to the end of the Site Incentive Period, as established by the Agency and verified in accordance with Solicitation Item IV.B.11.

The Site Incentive Period will commence on the Corrective Action Plan Implementation Date. A month starts at 12:00 Midnight on the Corrective Action Plan Implementation Date and ends at Midnight preceding the same day of the following month. Months will be counted consecutively from the Corrective Action Plan Implementation Date. Following implementation, the Agency will notify the Contractor in writing of the closing date of the Site Incentive Period.

The Site Incentive Period will not be adjusted for any reason, cause, or circumstance whatsoever, regardless of fault, save and except: 1) in the instance of a catastrophic occurrence (e.g., hurricane) that results in a declared state of emergency and that directly and substantially affects the Contractor's operations at a site and results in unavoidable delay of the corrective action, or 2) an unforeseen condition that could not have been anticipated following financial award to which the Agency has been notified in writing by the Contractor and as the Agency has approved in writing. In the event of a catastrophic occurrence or unforeseen condition on a specific site, the Agency shall determine the number of months reasonably necessary to extend the Site Incentive Period due solely to such catastrophic occurrence. Any amendments to the Site Incentive Period will be provided to the Contractor in writing.

The parties anticipate that routine delays may be caused by or arise from any number of events during the course of corrective action, including, but not limited to: work performed, work deleted, supplemental agreements, delays, disruptions, differing site conditions, utility conflicts, design changes or defects, extra work, right-of-way issues, permitting issues, actions of suppliers, subcontractors, or other Contractors, actions by third parties, revision of the work scope by the Contractor, weather, weekends, holidays, suspensions of the Contractor's operations, or any other such events, forces or factors experienced in environmental work. Such delays or events, and their potential impacts on performance by the Contractor are specifically contemplated and acknowledged by the Contractor upon entering into this contract,

and shall not affect the Site Incentive Period or incentives set forth in this contract item. Further, any and all costs or impacts whatsoever incurred by the Contractor to complete corrective action within the Site Incentive Period, whether successful or not, shall be the sole responsibility of the Contractor in every instance.

The Contractor shall have no rights under the contract to make any claim arising out of this incentive provision except as is expressly set forth in this provision.

The Site Incentive Period for (Kayo Service Station, 2502 Highway 25 South, Greenwood, SC 29646 UST Permit #04731) is 24 months.

4. **SITE-SPECIFIC DETAILS:** A brief technical summary, including maps and data tables, is attached in the Appendix. A copy of the technical file will be available on-line at <http://www.scdhec.gov/environment/lw/ust/releaseassessmentclean-up/correctiveactionopenbids/> until the initial Corrective Action Plan is approved. The technical file may also be reviewed at the Freedom of Information Office (FOI) located at the Sims/Aycock Building, 2600 Bull Street, Columbia, SC. Appointment(s) to view the technical file may be scheduled on weekdays between the hours of 8:30 A.M. to 5:00 P.M. by calling FOI at 803-898-3882. **Offerors are strongly encouraged to review the file(s) to ensure a complete understanding of corrective action requirements. The selected Contractor will be responsible for all information in the technical file(s).**

IV. SPECIFICATIONS for CORRECTIVE ACTION

A. GENERAL SPECIFICATIONS

1. **SUBMITTALS:** All offerors must submit a completed Financial Approval Form. All submittals must be either hand-delivered or mailed in a sealed envelope to SCDHEC, UST Management Division, 2600 Bull Street, Columbia, SC 29201, ATTN: Lee A. Monts. The envelope must be marked as a Financial Approval Form for (Kayo Service Station, 2502 Highway 25 South, Greenwood, SC 29646 UST Permit #04731). The Form outlines an approach to achieve the corrective action goals (e.g. reduction of each CoC to SSTL) and contains the following elements:
 - a. A description of the proposed treatment method(s) or technology(ies) for corrective action.
 - b. The amount of time in months to meet the corrective action goals, install verification wells, and remove or abandon all assessment and corrective action components.
 - c. The total Corrective Action Cost (in U.S. dollars) to meet the corrective action goals and to remove or abandon all assessment and corrective action components.
2. **MINIMUM REQUIREMENTS:** Corrective action will be considered complete when: 1) the CoC concentrations are verified to be at or below SSTLs in all wells and sampling points listed in the Appendix, in all verification wells, and at any point in the area of concern for two

consecutive quarters; 2) all assessment and corrective action components (e.g., piping, wells, trenches, etc.) have been removed from the site or are properly abandoned; and 3) the facility and associated adjacent properties have been restored to the condition that existed prior to assessment and corrective action in accordance with Solicitation Item IV.B.13. See Solicitation Item IV.B.11. for the method of verification. Per R. 61-98, all site rehabilitation activities associated with a UST release must be performed by an SCDHEC-certified Class I Site Rehabilitation Contractor. The Contractor will be required to adhere to all applicable portions of QAPP Revision 2.0. See http://www.scdhec.gov/environment/docs/QAPP_Rev-2-April2013.pdf and follow the link for UST Quality Assurance Program Plan for the most up-to-date version. All corrective action plans and reports must be sealed by a Professional Engineer or Professional Geologist registered in the State of South Carolina. All engineering reports, drawings and plans must be sealed by a Professional Engineer registered in the State of South Carolina. All laboratory analysis for CoC must be performed by an SC-certified laboratory. All monitoring, verification, injection and/or extraction wells must be installed and abandoned by an SC-certified well driller. All applicable certification, training, permits, applications, and fees associated with well installation; injection, discharge, treatment, or transportation of groundwater, air, or soil; construction or operation of a corrective action system; and any other action requiring a permit are the responsibility of the Contractor. Any required business or occupation license and occupational safety and health training (e.g., OSHA) as defined by the laws and regulations of the United States of America, the State of South Carolina, the county or city is also the responsibility of the Contractor. The terms and conditions of all applicable permits will be met. Any contaminated soil or construction debris, contaminated water, and FPP must be properly transported and disposed of, or treated at, an approved facility with prior approval from the Agency. Any costs for utilities construction and service (electric, telephone, sewer, etc.) required by the corrective action are the responsibility of the Contractor.

B. PERFORMANCE REQUIREMENTS

- 1. QAPP CONTRACTOR ADDENDA/SITE-SPECIFIC WORK PLANS:** The Contractor must submit a QAPP Contractor Addendum or Site-Specific Work Plan for the Initial Monitoring Report **within 15 days** from the date of financial approval. The Addendum or Work Plan for the Initial Monitoring Report must be approved by the Agency prior to initiation of work at the site. A QAPP Contractor Addendum or Site-Specific Work Plan for corrective action must be submitted with the Corrective Action Plan (CAP). The Addendum or Work Plan for corrective action must be updated during the first quarter of each year or as needed until completion of corrective action.
- 2. CORRECTIVE ACTION PLAN:** The Contractor must complete and submit a detailed Corrective Action Plan and QAPP Contractor Addendum or Site-Specific Work Plan for corrective action **within 30 days** from the date of financial approval. Copies of the CAP must be distributed in accordance with Solicitation Item III.A.8. The CAP must define the method(s) and technology(ies) proposed to achieve corrective action goals in a manner that is consistent with the Corrective Action Completion Time submitted by the Contractor. **The corrective action method(s) or technology(ies) must be designed to prevent vapors from entering onsite or adjacent structures.** It must be shown, by use of scientific models, computations, or discussion, how CoC concentrations will be reduced by each method and technology proposed.

Any assumptions used in a model will be listed or shown, as well as appropriate references. **The use of monitoring well(s) for injection, extraction, or FPP recovery purposes is not allowed.** Accordingly, the CAP may propose installation of additional injection, extraction, or compliance wells. General construction details will be included in the CAP (e.g. install 4 extraction wells, install 8 injection wells, excavate 3,000 cubic yards of impacted soils, etc.) as well as details of assessment and corrective action component abandonment and/or removal.

A corrective action timetable that includes demobilization and site restoration (Solicitation Items IV. B. 12-14.) will be provided by the Contractor. As corrective action is required to be completed within 5 years from CAP implementation, the submitted timetable shall not exceed 5 years in any case. The timetable shall itemize when the Contractor expects to meet the FPP removal, 60%, 90%, and 100% interim payment milestones. During corrective action implementation, this timetable may be adjusted (as approved in writing by the Agency) if circumstances beyond the control of the Contractor arise. If the Contractor fails to meet the interim goals in the proposed time frames, a remedy will be sought through the procedures outlined in Solicitation Item III.A.5.

The Agency will review the CAP and initiate a public notice period for a maximum of 30 days. The names and addresses of the owners of all impacted properties and all properties located adjacent to the impacted properties are provided in the Appendix. The Contractor may be required to attend and provide input at one or more public meetings upon request by the Agency. Any CAP amendments and modifications resulting from the public notice must be submitted within 15 days of notification by the Agency. The CAP and any amendments or modifications must be sealed by a qualified Professional Geologist or Engineer registered in the State of South Carolina. The UST Owner/Operator and any other affected property owners will be consulted and will approve the location of the corrective action system. Any aboveground part of the system that is to remain on-site for longer than 30 contiguous days must be secured within a fenced area or building.

3. **PERMIT APPLICATIONS:** The Contractor must complete and submit all applications for permits (injection, NPDES, BAQC modeling form, thermal treatment, construction, etc.) with the CAP. All submitted applications must comply with the requirements of the respective permitting program. Any required permit changes or corrections will be submitted within 15 days of notification by the Agency.
4. **INITIAL MONITORING REPORT:** Prior to Corrective Action Plan implementation, the Contractor must submit an Initial Monitoring Report to the Agency documenting CoC concentrations and potentiometric conditions in all wells and sampling points listed in the Appendix. The report will be due **within 45 days** after QAPP Contractor Addendum or Site-Specific Work Plan approval. The report should include color photographs with date stamp of the facility/site and surrounding properties to provide documentation of the condition of the facility/site prior to implementation of any corrective action activities. Copies of the Initial Monitoring Report must be distributed in accordance with Solicitation Item III.A.8.

Naturally occurring conditions may cause CoC concentrations to increase or decrease. For the purpose of this solicitation, the total CoC concentration for all wells and sampling points listed in the Appendix may reasonably increase up to 150% or decrease as much as 70%. If the total

CoC concentration in the wells and sampling points listed in the Appendix increases more than 150% percent based on initial sampling, or if measurable ($> .01'$) FPP that has not been previously documented in any report is detected during the initial sampling event, the Contractor may request in writing that financial approval be cancelled. **If any of these conditions is identified during initial sampling, the Contractor will notify the Agency within 2 days of identification and will submit written documentation within 5 days of notification.** Financial approval will be cancelled and the Contractor will be reimbursed based on the following rate schedule:

Subcontract Costs*	Invoice + 12%
Personnel mobilization	\$423.00
Groundwater sample collection-purge	\$60.00 per well
Groundwater sample collection-no-purge	\$28.00 per well
Field blank	\$24.60
Gauging FPP	\$7.00 per well
Contaminated water disposal	\$0.56 per gallon
FPP disposal	\$0.50 per gallon
CAP preparation and associated costs	\$6,000.00
QAPP Contractor Addendum preparation	\$250.00
Site-Specific Work Plan preparation	\$150.00

* Includes laboratory, drilling, electrical, etc.

If the total CoC concentration in the wells and sampling points listed in the Appendix decreases more than 70% based on initial sampling, the Agency may cancel financial approval. The Contractor will be notified of the cancellation by certified letter and must submit an invoice for the appropriate items listed in the rate schedule within 20 days from receipt of the letter. If financial approval is cancelled prior to the Corrective Action Plan Implementation Date due to any of the conditions described in this Solicitation Item, final payment will not exceed 40% of the Corrective Action Cost under any circumstances as no CoC reduction will have been accomplished by implementation of corrective action. If the CAP has been implemented and physical treatment activities performed, the Contractor will be required to complete the corrective action unless conditions described in Solicitation Item III.A.10. are encountered.

5. **CORRECTIVE ACTION PLAN IMPLEMENTATION:** After the CAP, QAPP Contractor Addendum or Site-Specific Work Plan, and all permit applications are reviewed and approved in accordance with QAPP Revision 2.0 and R.61-92, Section 280.66, the Agency will issue a Notice to Proceed with CAP implementation. The Contractor will implement the CAP within 30 days of receipt of the Notice to Proceed and any required permit to construct. A penalty of \$100 per day will be assessed for each calendar day late if the CAP is not implemented in 30 days unless the Contractor obtains written approval from the Agency regarding a change in the implementation schedule. Any assessed penalty amounts will be deducted from the initial payment. If any problem with CAP implementation occurs, the Contractor will notify the Agency within 24 hours of problem identification and will submit written documentation within 5 days of notification. Disruption to the normal business at the site will be kept to a minimum. Any modification, relocation, disturbance, or destruction of physical structures or features as a result of CAP implementation must be approved in writing by the affected property owner prior

to CAP implementation. Upon completion of any required construction, the Agency will inspect the corrective action system and issue a permit to operate. The Contractor will, at all times, keep the site free from waste materials and rubbish related to corrective action and maintain the site in a neat and workmanlike condition for the duration of the corrective action. All contaminated soil and construction debris, contaminated water, and FPP generated on-site will be removed from the site promptly. Manifests documenting the proper disposal of contaminated soil and construction debris, contaminated water, and FPP must be included in the appropriate report. The Contractor will repair and/or restore the site/facility to the condition that existed prior to CAP implementation and as documented by the photographs included in the Initial Monitoring Report in accordance with IV.B.4. Any deviation in returning the site/facility to the condition that existed prior to CAP implementation must be documented in writing by the Contractor and signed by the Owner/Operator and property owner.

Implementation of the CAP is not authorized until the Contractor receives a Notice to Proceed from the Agency. If unauthorized implementation occurs, the Agency will not reimburse related costs incurred by the Contractor from the SUPERB Account, and the Corrective Action Cost will be reduced by the amount of the incurred costs. If the Agency agrees with early implementation to better protect human health in an emergency and provides approval in writing, early implementation without any reduction to the Corrective Action Cost will be authorized.

A Corrective Action Plan Implementation Report will be due 60 days from the Notice to Proceed and shall include a description of work sufficient to document CAP implementation activities and the associated dates of work.

6. **PROPERTY ACCESS:** The Contractor will secure access to the site and adjacent properties to gauge and sample wells and sampling points, and to install any corrective action components, as required. The Contractor will be responsible for corrective action components installed on adjacent properties. Costs to repair or replace components of the corrective action system damaged due to the actions of adjacent property owners cannot be paid by the SUPERB Account.
7. **START-UP:** The Contractor will initiate corrective action within 15 days of receipt of a permit to operate, if required. Corrective action as defined in the CAP will begin upon start-up. **NOTE: The application of corrective action technologies or natural fluctuations in the water table can mobilize FPP and cause possible appearance of FPP and/or elevated CoC concentrations in non-SSTL wells and sampling points.**
8. **REPORTING:** The Contractor must complete and submit a Corrective Action Plan (CAP) Implementation Report within 60 days of the Notice to Proceed. The Contractor must also complete and submit a Corrective Action System Evaluation (CASE) report on a semi-annual schedule. Sampling of all water supply wells listed in the Appendix must be conducted and reported to the Agency on a quarterly schedule. The CAP Implementation Report and CASE reports will be distributed in accordance with Solicitation Item III.A.8. The first CASE report is due within 90 days of the CAP Implementation Report. **CASE reports must be submitted regardless of the status of corrective action activities..**

All wells and sampling points listed in the Appendix will be sampled on a semi-annual schedule (see Solicitation Item IV.B. 9 for sampling details) following submittal of the CAP Implementation Report. All water supply wells listed in the Appendix will be sampled on a quarterly schedule. The Contractor must submit a written request for a change in the protocol to the Agency. **Approval for any reduction in the number of wells and sampling points to be sampled, or for any lengthening of the reporting interval, is at the sole discretion of the Agency.**

CASE reports must include, at a minimum, all items stipulated in the Documents and Records section and Active Site Rehabilitation Procedures section of QAPP Revision 2.0. CASE reports must also include any additional data required by permits (e.g., air analyses, wastewater effluent analyses, etc.). The Contractor will be provided with the proper report forms and reporting format prior to CAP Implementation. The Agency will notify the Contractor regarding any revisions to the forms or format 60 days prior to the due date for the next CASE report.

9. **SAMPLING:** The Contractor must collect water samples from all wells and sampling points listed in the Appendix on an semi-annual schedule. Samples must be collected from all water supply wells listed in the Appendix on a quarterly schedule. **Do not sample wells and sampling points containing measurable (>0.01') FPP.** If measurable FPP is present, the thickness of product and depth to groundwater must be recorded to the nearest 0.01'. The sampling will be conducted in accordance with applicable portions of QAPP Revision 2.0. Additional samples (air, groundwater, effluent, soil) required by permits must be collected in accordance with established QA/QC protocol and submitted to an SC-certified laboratory for analysis. The samples will be analyzed for parameters stipulated in the permits. Sampling and analytical data for each sample (e.g., field sampling logs, chain of custody forms, certificates of analysis, lab certification number) will be included in the CASE report.

The Contractor must submit a written request to the Agency for a change in the sampling protocol. Approval for any reduction in the number of wells and sampling points to be sampled is at the sole discretion of the Agency. The Contractor may choose to conduct sampling more frequently in order to document that a reduction milestone has been achieved.

10. **DISPOSAL:** The Contractor must properly dispose of all contaminated water, contaminated soil, and FPP generated during corrective action. The Owner/Operator of the UST facility will be considered the generator. In the case of an orphan site, the Contractor will be considered the generator. Treatment and disposal must be conducted at an SCDHEC-approved facility, and must be documented in the CASE reports.
11. **QUALITY ASSURANCE & VERIFICATION:** Once sampling data indicate 100% CoC concentration reduction, the Contractor must completely suspend corrective action and provide notification to the Agency. After 30 days, the Contractor will sample all wells and sampling points listed in the Appendix to verify that the final (100%) CoC concentration reduction goal has been achieved and maintained. If the goal is maintained, the date of the 30-day sampling event will be considered the start of the two-quarter, post-corrective action verification period. During the verification period, the Contractor will conduct quarterly sampling of all wells and

sampling points listed in the Appendix and all verification wells. **Do not sample wells and sampling points containing measurable (>0.01') FPP.** If measurable FPP is present, the thickness of product and depth to groundwater must be recorded to the nearest 0.01'. The samples should be analyzed for the parameters listed in the Appendix, and for dissolved oxygen, ferrous iron, methane, nitrate, and sulfate using the analytical methods and reporting limits detailed in the QAPP.

If sampling results show that the final (100%) CoC concentration reduction goal has not been maintained, and/or CoC concentrations exceed SSTLs in any verification well, corrective action must be resumed. The Agency may require the Contractor to propose a revised corrective action strategy and timetable to achieve and maintain the goal. The strategy may require modification of the existing corrective action system. The post-corrective action period will be suspended and corrective action will continue until the final (100%) CoC concentration reduction goal is again achieved and maintained for a period of 30 days, and CoC concentrations in the verification well(s) remain below SSTLs for a period of 30 days. Once again, the Contractor will completely suspend corrective action and a new post-corrective action verification period will begin. The aforementioned cycle of activity must be repeated until CoC concentrations remain at or below SSTLs in all wells and sampling points listed in the Appendix and in all verification wells for 2 consecutive quarters.

The Agency may require installation of six (6) verification well(s) during the post-corrective action verification period at designated locations and depths. Costs for the verification wells will be considered part of the Corrective Action Cost. SSTLs for the verification wells will be provided by the Agency.

The Agency will collect split samples from wells and sampling points in the area of concern to verify achievement of the second (90%) interim CoC concentration reduction goal, and may collect split samples to verify achievement of the first (60%) interim CoC reduction goal and to confirm the start of the two-quarter, post-corrective action verification period. Split samples will also be collected at the end of the two-quarter, post-corrective action verification period to confirm that corrective action goals have been maintained. In addition to the split samples, the Agency may provide up to three standards or prepared blanks for the Contractor's laboratory to analyze. Analytical data sets from the Contractor's laboratory and the Agency's laboratory will be compared. In the event of substantial variance (more than 15%) between the sets, a second split sampling event may be conducted with the Contractor. If the variance persists, all data sets and associated quality assurance/quality control data will be provided to Laboratory Certification to determine the cause of the variance. The Director of the Assessment and Corrective Action Division, UST Management Division, will solicit input from Laboratory Certification, the UST Section Manager, the UST Project Manager, and the Contractor, and render a final decision as to which data set will be used for verification. The Contractor will be provided a written record of the decision.

If the Contractor anticipates that split sampling is warranted, the Agency must be allowed at least 2 weeks to schedule a mutually agreeable time for the split sampling event. Costs for transportation and analysis of split or duplicate samples collected by the Agency will be paid by the Agency.

12. **DEMOBILIZATION:** The Contractor will disassemble and remove the corrective action system and associated components including utilities from the site within 60 days of notification by the Agency that the final CoC concentration reduction goal has been achieved and maintained for 2 consecutive quarters. Disruption to the UST Owner/Operator's or property owner's normal business will be kept to a minimum.

13. **SITE RESTORATION:** The Contractor must remove or properly abandon all assessment and corrective action components (piping, monitoring wells, injection and/or extraction wells, trenches, etc.) within 60 days of notification by the Agency that the final CoC concentration reduction goal has been achieved and maintained for 2 consecutive quarters. Abandonment will be in accordance with the South Carolina Well Standards and Regulations R. 61-71, the UST Management Division QAPP Revision 2.0, and accepted industry standards for abandonment of trenches and piping/utility runs. Disruption to the Owner/Operator's or property owner's business must be kept to a minimum. The Contractor must provide the Agency with documentation of the abandonment and disposal of any remaining contaminated soil, contaminated groundwater, and FPP. **The Contractor will restore the site and adjacent properties to the condition that existed prior to assessment and corrective action (e.g., repaving, reseeding, etc.) as documented by the photographs included in the Initial Monitoring Report or other written documentation detailing a variance from the conditions documented by the photographs. Neither the Agency nor the SUPERB Account will be liable for any damages caused by the Contractor. As required by Section IV.A.4c of the SUPERB Site Rehabilitation and Fund Access Regulations R.61-98, the Contractor shall be required to indemnify the property owner, UST Owner/Operator and the State of South Carolina from and against all claims, damages, losses and expenses arising out of or resulting from activity conducted by the Contractor, its agents, employees or subcontractors.**

14. **COMPLETION NOTICE:** Written notice must be provided to the Agency at least 2 weeks prior to completion of site restoration. This will allow the Agency and the Contractor time to jointly inspect the site and adjacent properties, and compile a list of tasks to be finished. Task items may include, but are not limited to, well abandonment, pavement repair, debris removal, etc. **Site restoration will be complete once all the tasks are finished, the site passes a final inspection by the Agency, and the Agency issues written notice that the corrective action is complete.**

UST # 04731, Kayo Service Station (Jet)
Greenwood County

Appendix A

UST # 04731, Kayo Service Station (Jet)
Greenwood County

Distribution List for Plans and Reports

Owner/Operator & Site Property Owner:

Owner/Operator:
Phillips 66 Company
c/o Edward Kuhn
1338 Hundred Oaks Drive
Suite A
Charlotte NC 28217

Property Owner:
Robert B. Moody 6854-501-774
109 Brandon Drive
Hodges SC 29653

Adjacent Property Owners:*

Stephanie R. Morgan 6854-492-788
666 Kirksey Drive
Greenwood, SC 29646

Toney R. Griffin 6854-479-777
683 Grier Street
Greenwood, SC 29646

Judy Ann Nelson 6854-492-767
106 A Blyth Ave
Greenwood, SC 29646

Larry T. McCombs 6854-487-764
920 Woodlawn Road
Greenwood, SC 29646

Refuge Church of our Lord Jesus 6854-497-750
308 Bintage Road
Greenwood, SC 29649

Church of God 6854-538-773
PO Box 1774
Greenwood, SC 29648

Edwin T. Pulliam 6854-484-698
934 Woodlawn Road
Greenwood, SC 29646

Lorie D. Jones 6854-514-812
2443 South Main Street
Greenwood, SC 29646

*Subject to change.

Table 1: Analytical Parameters

Analyte	Analytical Method*
BTEX	8260B
Naphthalene	8260B
MTBE	8260B
1,2-DCA	8260B
8-Oxygenates	8260-OXY
EDB	8011

* See Programmatic QAPP for Reporting Limits.

The analyses listed in Table 1 are required for all sampling events.

Table 2: Natural Attenuation Parameters

Analyte	Analytical Method*
Dissolved Oxygen	SM4500-O G
Ferrous Iron	SM3500-Fe D
Methane	Kerr Method
Nitrate	9056/9210
Sulfate	9038/9056

* See Programmatic QAPP for Reporting Limits.

The analyses listed in Table 2 are required for verification sampling.

Verification Wells

Two (2) shallow verification wells (screened 20'-30'), two (2) intermediate verification wells (screened 45'-55') and two (2) intermediate verification wells (screened 100'-105') may be installed during the post-corrective action monitoring period at locations and depths designated by the UST Management Division. Costs for the well installation are considered part of the approved Corrective Action Cost. The site-specific target levels (SSTLs) for the verification wells will be calculated by the UST Management Division and provided to the contractor in writing. During verification, all wells must be sampled for the analytical parameters listed above in Table 1 as well as the natural attenuation parameters listed in Table 2.

Table 3: Current CoC Concentrations in Groundwater

CoC concentrations in parts per billion (µg/l) based on the October 2014 through April 2015 sampling and gauging:

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MIBK	Naphthalene	1,2-Dichloroethane	Ethylene dibromide	tert-Amyl methyl ether	tert-Amyl alcohol	tert-Butyl alcohol	tert-Butyl formate	d-Isopropyl ether	Ethanol	Ethyl tert-butyl ether	3,3-Dimethyl-1-butanol
04731-MW-1	10/16/2014	150	130	1,300	370	<10	680	<10	<0.03	<10	<500	49 J	<50	<10	<2,500	<10	<1,000
04731-MW-2	10/21/2014	6,500	14,000	1,300	9,400	<100	440	<100	0.019 J	<100	8,800	290 J	<500	76 J	<25,000	<100	<10,000
04731-MW-3	10/16/2014	240	0.5 J	5	430	2	60	5	0.037	<1	91	29	<5	4	<250	<1	<100
04731-MW-4	10/16/2014	0.8 J	<1	<1	0.5 J	<1	<1	<1	<0.029	<1	<50	15	<5	<1	<250	<1	<100
04731-MW-5	10/16/2014	2,300	1,400	1,200	4,400	<5	430	<5	0.035	<5	2,300	41	<25	<5	<1,300	<5	<500
04731-MW-6	10/21/2014	490	2	8	93	36	39	<1	<0.029	<1	180	38	<5	48	<250	<1	<100
04731-MW-7	10/16/2014	930	4,100	2,300	12,000	3 J	620	10	0.78	<5	70 J	64	<25	3 J	<1,300	<5	<500
04731-MW-8	10/21/2014	<1	<1	<1	<1	<1	<1	<1	<0.029	<1	<50	<5	<5	<1	<250	<1	<100
04731-MW-9	10/21/2014	2	<1	1	<1	<1	1 J	<1	<0.029	<1	410	47	<5	5	<250	<1	<100
04731-MW-10	10/17/2014	<1	<1	<1	<1	<1	<1	<1	<0.029	<1	<50	<5	<5	<1	<250	<1	<100
04731-MW-11	10/21/2014	<1	<1	<1	<1	<1	<1	<1	<0.029	<1	<50	<5	<5	<1	<250	<1	<100
04731-MW-13	10/21/2014	<1	<1	<1	<1	<1	<1	<1	<0.029	<1	<50	<5	<5	<1	<250	<1	<100
04731-MW-14	10/21/2014	<1	<1	<1	<1	<1	<1	<1	<0.029	<1	<50	<5	<5	<1	<250	<1	<100
04731-MW-15	10/21/2014	<1	<1	<1	<1	<1	<1	<1	<0.029	<1	<50	<5	<5	<1	<250	<1	<100
04731-MW-16	10/17/2014	<1	<1	<1	<1	<1	<1	<1	<0.029	<1	<50	<5	<5	<1	<250	<1	<100
04731-MW-17	10/21/2014	6,500	38,000	3,100	18,000	<100	490	<100	0.11 J	<100	3,000 J	<500	<500	<100	<25,000	<100	<10,000
04731-MW-18	10/21/2014	<1	<1	<1	<1	<1	<1	<1	<0.029	<1	<50	<5	<5	<1	<250	<1	<100
04731-MW-19	10/21/2014	9,800	15,900	3,100	14,000	840	440	<100	<0.029	<100	3,400 J	630	<500	510	<25,000	<100	<10,000
04731-MW-20	10/16/2014	8,800	47,000	4,100	21,000	<100	640	<100	<0.33	<100	2,200 J	260 J	<500	51 J	<25,000	<100	<10,000
04731-MW-21	10/16/2014	9,700	27,000	2,200	14,000	200	680	<100	4.4	<100	28,000	2,200	<500	<100	<25,000	<100	<10,000
04731-MW-22	10/16/2014	16,000	18,000	1,700	9,400	<100	610	610	140	<100	33,000	690	<500	950	<25,000	<100	<10,000
04731-MW-23	10/16/2014	6,700	2,700	2,200	9,400	80	550	150	6.8	<50	4,000	970	<250	30 J	<13,000	<50	<3,000
RBGL >>		5	1,000	700	10,000	40	25	5	0.05	128	240	1,400	NE	190	10,000	47	NE

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MIBK	Naphthalene	1,2-Dichloroethane	Ethylene dibromide	tert-Amyl methyl ether	tert-Amyl alcohol	tert-Butyl alcohol	tert-Butyl formate	d-Isopropyl ether	Ethanol	Ethyl tert-butyl ether	3,3-Dimethyl-1-butanol
04731-DW-1	10/20/2014	28,000	39,000	1,900	10,000	160 J	210 J	<200	<0.12	<200	5,100 J	630 J	<1,000	570	<50,000	<200	<20,000
04731-DW-2	10/16/2014	3,000	<10	<10	45	1,600	21 J	<10	0.012 J	5 J	460 J	360	<50	840	<2,500	<10	<1,000
04731-DW-3	10/20/2014	26,000	18,000	2,900	11,000	1,700	420	340	8.1	<100	32,000	2,900	<500	2,100	<25,000	<100	<10,000
04731-DW-4	10/16/2014	<10	<10	<10	<10	110	<40	380	<0.029	<10	14,000	970	<50	350	<2,500	<10	<1,000
04731-DW-5	10/20/2014	2,800	18	150	1,300	64	110	<10	0.026 J	<10	2,300	400	<50	130	<2,500	<10	<1,000
04731-DW-6	10/21/2014	1,200	180	26	66	11,000	<60	<20	0.065	15 J	11,000	4,200	<100	1,200	<5,000	<20	<2,000
04731-DW-7	10/20/2014	480	59	8 J	37	9,100	<40	<10	<0.029	16	8,900	3,300	<50	1,000	<2,500	<10	<1,000
04731-DW-8	10/21/2014	3,000	<10	<10	290	930	95	<10	<0.029	<10	2,000	500	<50	630	<2,500	<10	<1,000
04731-DW-9	10/17/2014	<1	<1	<1	<1	<1	<1	<1	<0.029	<1	<50	<5	<5	<1	<250	<1	<100
04731-DW-10	10/17/2014	<1	<1	<1	<1	48	<1	<1	<0.029	<1	<50	<5	<5	<1	<250	<1	<100
04731-DW-11	10/15/2014	16,000	<20	71	1,700	490	420	110	0.18	<20	17,000	2,900	<100	160	<5,000	<20	<2,000
04731-DW-12	10/16/2014	430	<5	<5	<5	68	22	38	<0.029	<5	830	620	<25	120	<1,300	<5	<500
04731-DW-13	10/20/2014	<1	<1	<1	<1	<1	<1	<1	<0.029	<1	<50	3 J	<5	<1	<250	<1	<100
04731-DW-14	10/21/2014	<1	<1	<1	<1	<1	<1	<1	<0.029	<1	<50	<5	<5	<1	<250	<1	<100
04731-DW-15	10/15/2014	<1	<1	<1	<1	41	<1	2	<0.028	<1	<50	7	<5	12	<250	<1	<100
04731-DW-16	10/16/2014	<1	<1	<1	<1	<1	<1	<1	<0.029	<1	<50	<5	<5	<1	<250	<1	<100
04731-DW-17	10/17/2014	67	<5	<5	<5	3,500	<20	6	<0.029	6	2,600	1,400	<25	480	<1,300	<5	<500
04731-DW-18	1/27/2015	0.8 J	<1	<1	<1	1,900	<1	22	<0.028	4	810	1,200	<5	370	<250	<1	<100
04731-DW-19	10/21/2014	<1	<1	<1	<1	<1	<1	0.5 J	<0.029	<1	<50	<5	<5	<1	<250	<1	<100
04731-DW-20	10/21/2014	<1	<1	<1	<1	<1	<1	<1	<0.029	<1	<50	<5	<5	<1	<250	<1	<100
04731-DW-21	10/20/2014	<1	<1	<1	<1	<1	<1	<1	<0.029	<1	<50	<5	<5	<1	<250	<1	<100
RBGL >>		5	1,000	700	10,000	40	25	5	0.05	128	240	1,400	NE	190	10,000	47	NE

* Ethylene-dibromide (EDB) is based off the April 16, 2015 data.

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MW ID	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	1,2 DCA	EDB	TAME	TAA	TBA	DIPE	Ethanol	ETBE	Total CoC Concentration
MW-1															5,739.03
MW-2															64,206.10
MW-3															1,138.93
MW-4															
MW-5															13,396.18
MW-6															1,164.03
MW-7															21,601.70
MW-8															
MW-9															722.03
MW-10															
MW-11															
MW-13															
MW-14															
MW-15															
MW-16															
MW-17															98,090.04
MW-18															
MW-19															72,820.03
MW-20															109,151.34
MW-21															106,366.10
MW-22															107,105.00
MW-23															39,899.00
DW-1															136,370.03
DW-2															8,271.03
DW-3															122,668.50
DW-4															18,410.03
DW-5															9,802.09
DW-6															34,027.03
DW-7															25,660.03
DW-8															9,865.02
DW-9															
DW-10															366.03
DW-11															42,911.34
DW-12															3,161.03
DW-13															
DW-14															
DW-15															
DW-16															
DW-17															
DW-18															
DW-19															
DW-20															
DW-21															
Pulliam															
Suddeth															
Initial Conc.**	150,789.6	226,671.90	26,730	136,907.5	32,027	7,408	2,670.5	82.40	1,112	178,721	25,903	8,923	274,100	1,112	1,072,726.88
SSTL Conc.	147,383	181,808.9	26,707	136,885	26,470	7,320	2,356	9.24	1,085	174,461	23,183	8,095	268,300	1,089	1,004,721.12
Initial Conc.> SSTL	3,406.6	44,863.0	23	22.5	5,557	88	314.5	73.16	27	4,260	2,720	828	5,800	23	68,005.76

*Data in Tables Above

* Well was not sampled during February 2012 sampling event. Data presented in table are from February 2011 event.

** CoC concentrations and free-phase product thicknesses may vary due to seasonal fluctuations in the groundwater.

UST # 04731, Kayo Service Station (Jet)
Greenwood County

Table 4: Site-Specific Target Levels

Site-specific target levels (SSTLs) for interim payment under this solicitation.

Well	Benzene	Toluene	Ethylbenzene	Xylene	M&BE	Naphthalene	1,2-DCA	EDB	Tame	TAA	TBA	DIPE	Ethanol	ETBE
MW-1	150*	130*	1,300*	370*	10**	690*	10**	.028**	10**	500**	49*	10**	2,500**	10**
MW-2	5,882	14,000*	1,300*	9,400*	100**	440*	100**	.092*	100**	6,800*	290*	76*	25,000**	100**
MW-3	240*	.9*	5*	430*	2*	80*	5*	.028**	1**	91*	29*	4*	250**	1**
MW-5	2,300*	1,400*	1,200*	4,400*	5**	430*	5**	.18**	5**	2,300*	41*	5**	1,300**	5**
MW-6	490*	2*	8*	98*	38*	39*	1**	.028**	1**	150*	38*	48*	250**	1**
MW-7	930*	4,100*	2,300*	12,000*	3*	820*	10*	1.7*	5**	70*	54*	3*	1,300**	5**
MW-9	2*	1**	1**	1**	1**	1*	1**	.028**	1**	410*	47*	5*	250**	1**
MW-17	9,108	26,540***	3,100*	18,000*	100**	490*	100**	.039**	100**	3,000*	500**	100**	25,000**	100**
MW19	7,468	15,000*	3,100*	14,000*	640*	440*	100**	.029**	100**	3,400*	630*	510*	25,000**	100**
MW-20	8,500*	26,540***	4,100*	21,000*	<100**	640*	100**	.34**	100**	2,200*	260*	51*	25,000**	100**
MW21	9,700*	26,540***	2,200*	14,000*	200*	660*	100**	.73	100**	25,000*	2,200*	100**	25,000**	100**
MW-22	16,000*	19,000*	1,700*	9,400*	100**	610*	810*	1.19	100**	33,000*	690*	550*	25,000**	100**
MW-23	6,700*	2,700*	2,200*	9,400*	80*	550*	150*	1.08	50**	4,000*	970*	30*	13,000**	50**
DW-1	28,000*	26,540***	1,900*	10,000*	160*	210*	200**	.028**	200**	5,100*	830*	570*	50,000**	200**
DW-2	3,000*	10**	10**	45*	1,500*	21*	10**	.029**	5*	460*	360*	340*	2,500**	10*
DW-3	26,000*	19,000*	2,000*	11,000*	1,700*	420*	340*	3.07	100**	32,000*	2,900*	2,100*	25,000**	100**
DW-4	10**	10**	10**	10**	110*	40**	113	.029**	10**	14,000*	970*	350*	2,500**	10**
DW-5	2,800*	18*	150*	1,300*	64*	110*	10**	.083**	10**	2,300*	400*	130*	2,500**	10**
DW-6	1,200*	180*	26*	86*	11,000*	80**	20**	.023*	15*	11,000*	4,200*	1,200*	5,000**	20*
DW-7	480*	59*	8*	37*	9,100	40**	10**	.029**	16*	8,900*	3,500*	1,000*	2,500**	10**
DW-8	3,000*	10**	10**	200*	930*	55*	10**	.019*	10**	2,000*	500*	630*	2,500**	10**
DW-10	1**	1**	1**	1**	49*	4**	1**	.029**	1**	50**	5**	1**	250**	1**
DW-11	15,000*	20**	71*	1,700*	490*	420*	110*	.34*	20**	17,000*	2,900*	160*	5,000**	20**
DW-12	420*	5**	5**	5**	86*	22*	38*	.029**	5**	530*	620	120*	1,300**	5**
Pulliam Well	1**	1**	1**	1**	1**	4**	1**	.02**	10**	100**	100**	1**	200**	10**
Suddeth Well	1**	1**	1**	1**	1**	4**	1**	.02**	10**	100**	100**	1**	200**	10**
Total	147,383	181,808.9	26,707	136,885	26,470	7,320	2,356	9.24	1,085	174,461	23,183	8,095	268,300	1,089

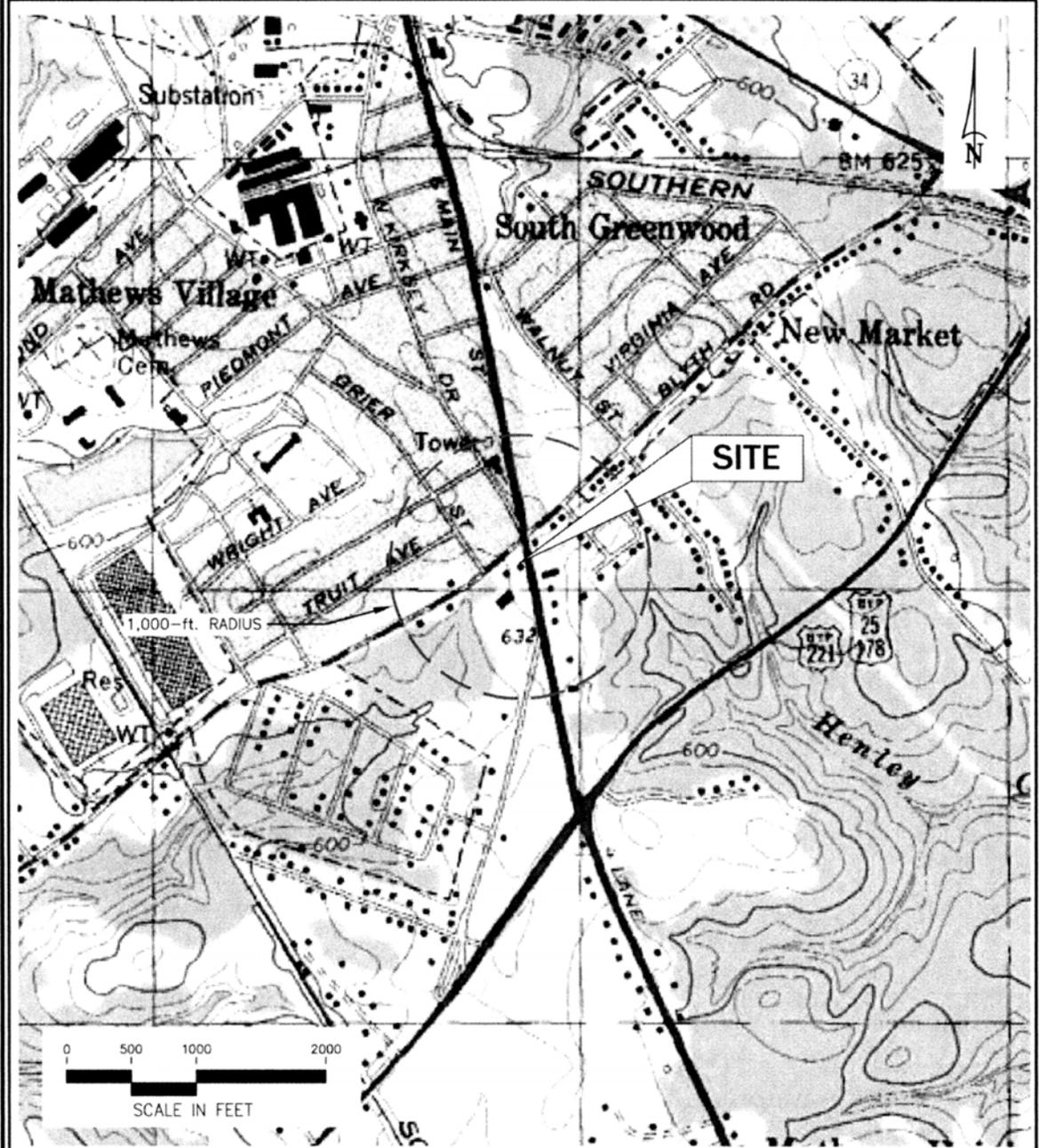
UST # 04731, Kayo Service Station (Jet)
Greenwood County

* Laboratory analysis is less than calculated SSTL. SSTL is set equal to laboratory analysis.

** Laboratory analysis is below detection limit. SSTL is set equal to detection limit

*** SSTL is set equal to solubility limit

Note: ALL MONITORING WELLS ASSOSSIATED WITH THE SITE ARE SSTL WELLS. THE SSTL VALUE FOR WELLS NOT LISTED IN THE TABLE ABOVE (TABLE 4) IS SET AT THE REPORTING LIMIT FOR THE SAMPLING PERFORMED OCTOBER 2014 THROUGH APRIL 2015 (TABLE 3). PLEASE NOTE THAT DURING THE CONTRACT/ACA CLEANUP THERE WILL BE NO SAMPLE REDUCTION FOR THE NUMBER OF WELLS THAT HAVE TO BE SAMPLED.

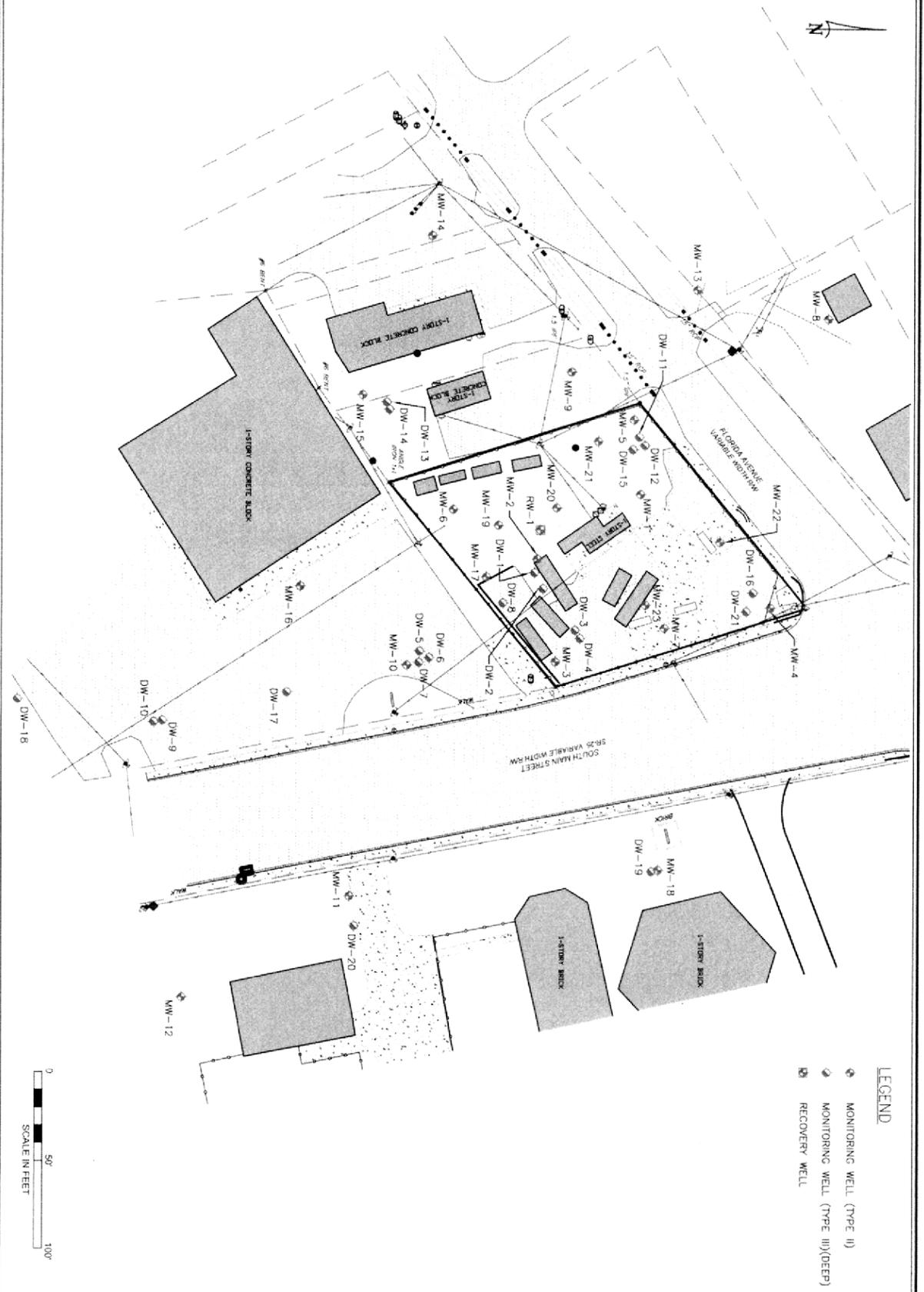


TITLE **FIGURE 1**
 SITE TOPOGRAPHIC MAP
 UST SITE No. 04731
 2502 HIGHWAY 25 SOUTH
 GREENWOOD, SOUTH CAROLINA



Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

CAD FILE 1252210.DWG	DSCA ID	PREP. BY BH	REV. BY BH	SCALE	DATE 02-15-2015	PROJECT NO. 14.75118.6279
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NOTES:

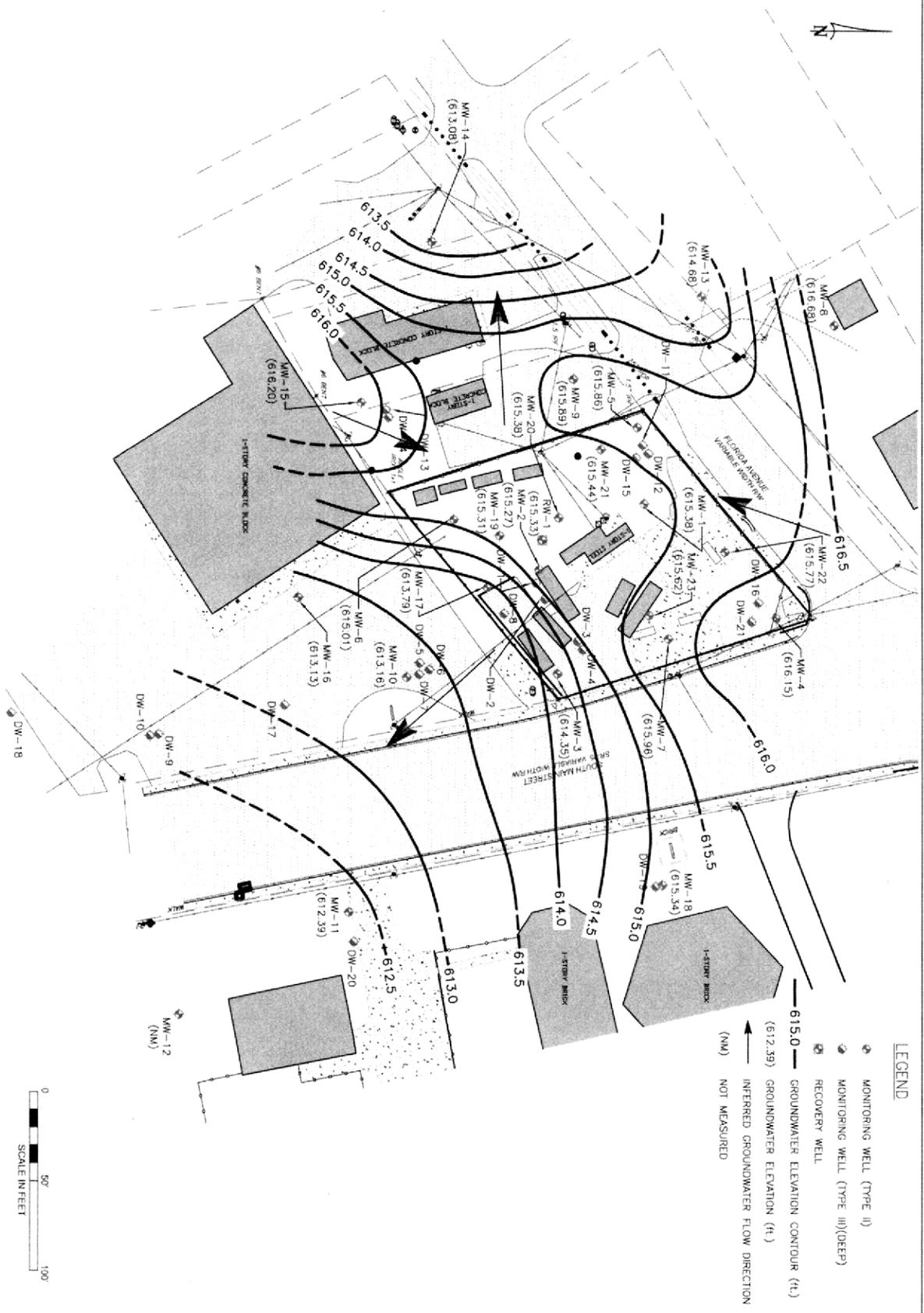
TITLE **FIGURE 3**
SITE PLAN
 FORMER CONOCO #40019 (RM 6279)
 2502 U.S. HIGHWAY 25 SOUTH
 GREENWOOD, SOUTH CAROLINA

CAD FILE	TYPE CODE	PREP. BY	REV. BY
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SCALE	DATE	PROJECT NO
	02-16-2015	14.75118.6279



NOTES:
1. GROUNDWATER ELEVATIONS MEASURED ON 10/15/2014.

FIGURE 4
GROUNDWATER ELEVATION CONTOUR MAP - SHALLOW UNCASED WELLS
FORMER CONOCO #40019 (RM 6279)
2502 U.S. HIGHWAY 25 SOUTH
GREENWOOD, SOUTH CAROLINA



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CAD FILE	TYPE CODE	PREP BY	REV. BY
1252210.DWG		BH	

SCALE	DATE	PROJECT NO.
	02-16-2015	14.75118.6279



NOTES:
 1. GROUNDWATER ELEVATIONS MEASURED ON 10/15/2014 AND 01/27/2015.

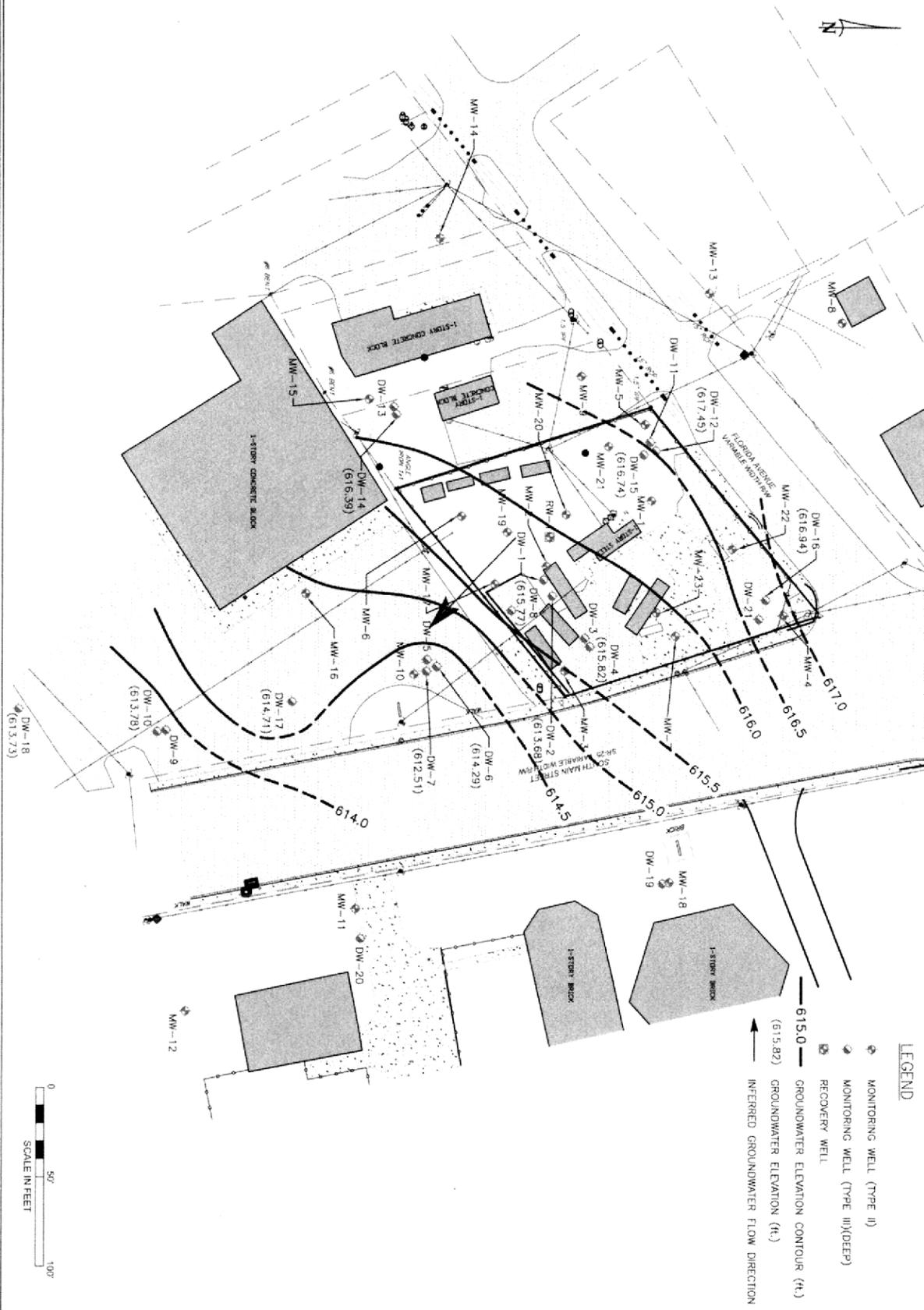
FIGURE 5
 POTENTIOMETRIC SURFACE MAP - INTERMEDIATE CASSED AND UNCASSED WELLS
 FORMER CONOCO #40019 (RM 6279)
 2502 U.S. HIGHWAY 25 SOUTH
 GREENWOOD, SOUTH CAROLINA

CAD FILE	TYPE CODE	PREP. BY	REV. BY
1252210.DWG		BH	

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SCALE	DATE	PROJECT NO.
	02-16-2015	14.75118.6279



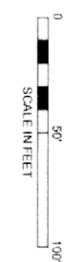
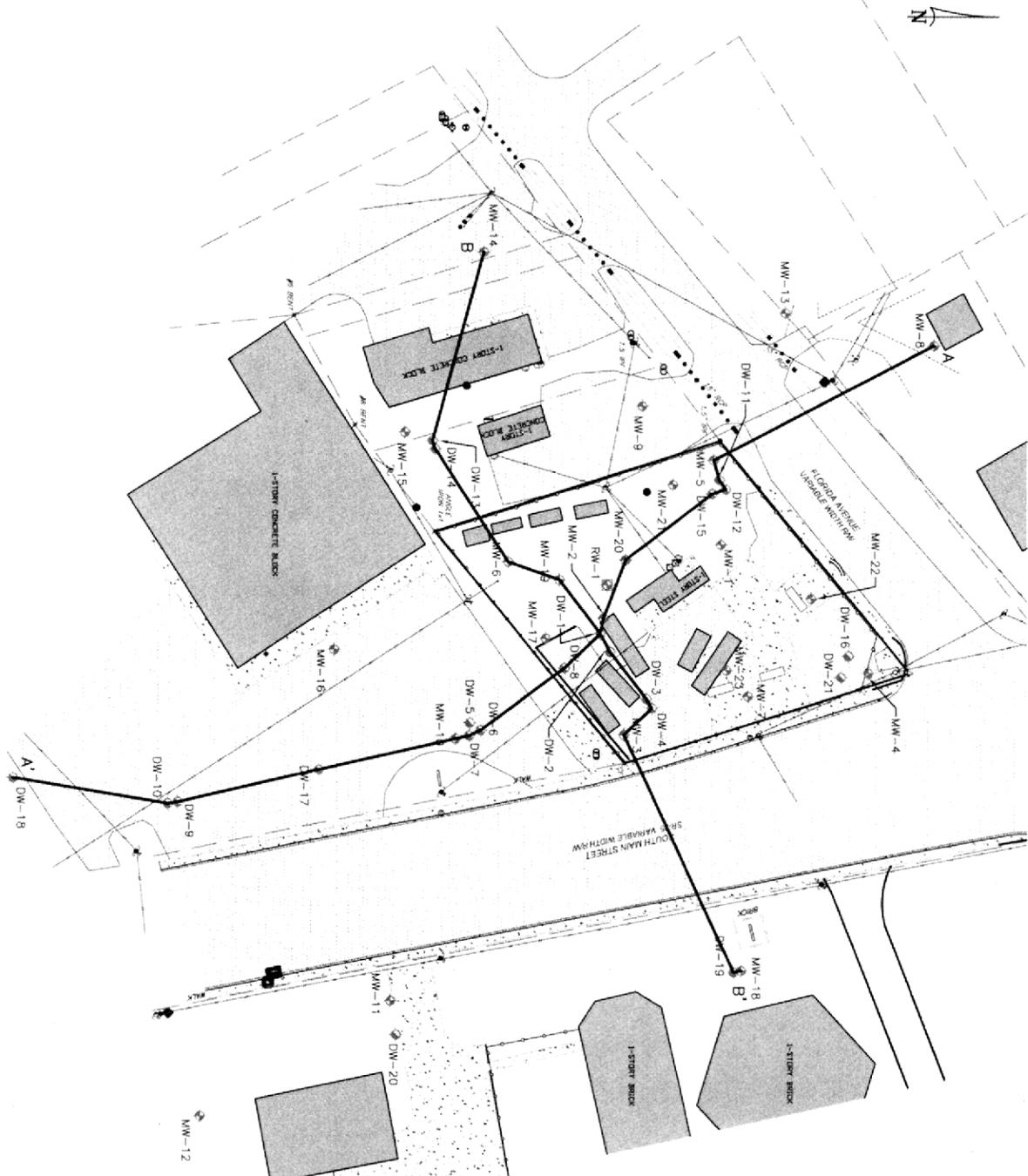
NOTES:
 1. GROUNDWATER ELEVATIONS MEASURED ON 10/15/2014 AND 01/27/2015.

FIGURE 6
 POTENTIOMETRIC SURFACE MAP - DEEP CASED WELLS
 FORMER CONOCO #40019 (RM 6279)
 2502 U.S. HIGHWAY 25 SOUTH
 GREENWOOD, SOUTH CAROLINA



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- LEGEND**
- MONITORING WELL (TYPE I)
 - MONITORING WELL (TYPE III)(DEEP)
 - RECOVERY WELL

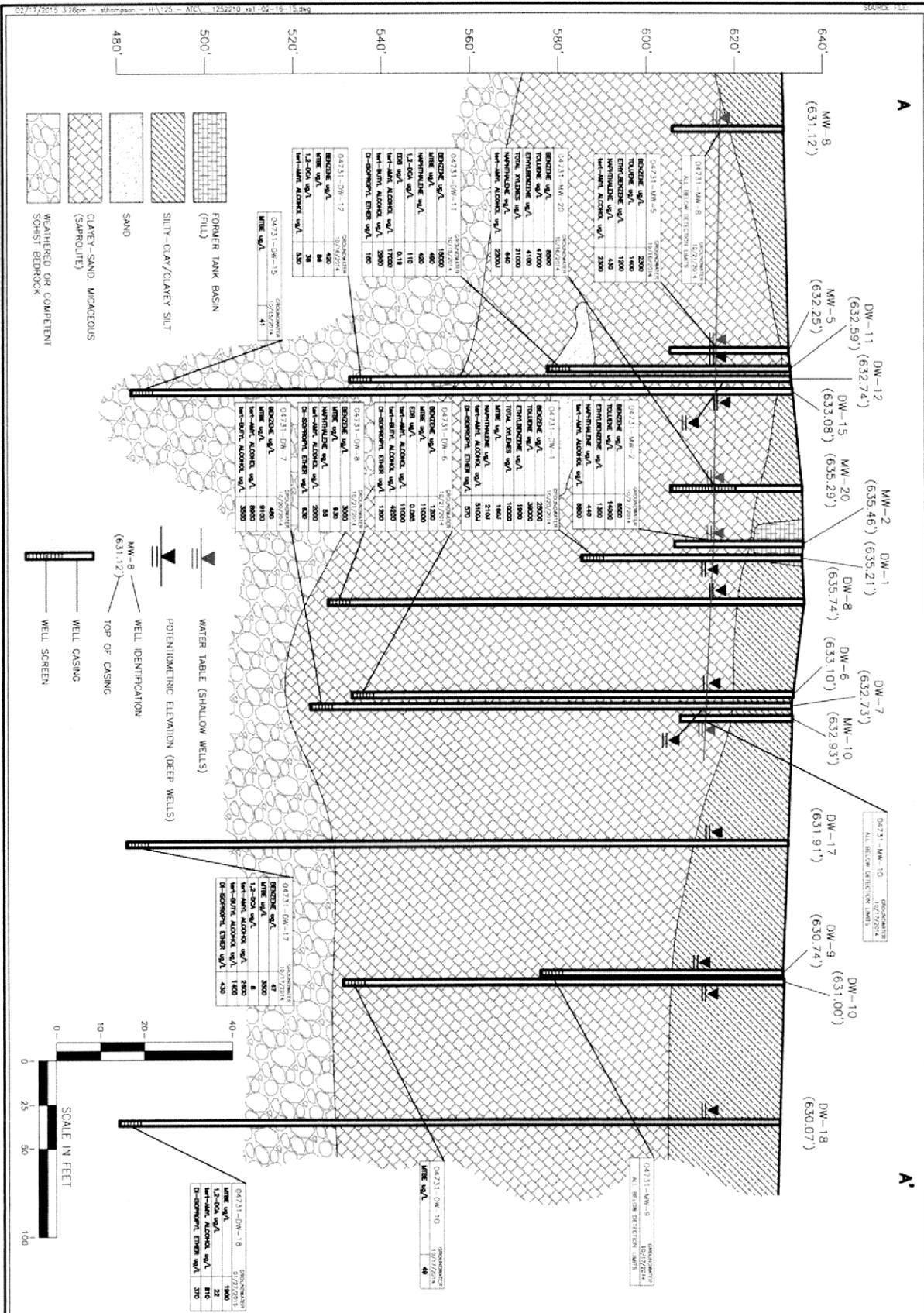
NOTES:

TITLE **FIGURE 8**
 GEOLOGIC TRANSECT MAP
 FORMER CONOCO #40019 (RM 6279)
 2502 U.S. HIGHWAY 25 SOUTH
 GREENWOOD, SOUTH CAROLINA

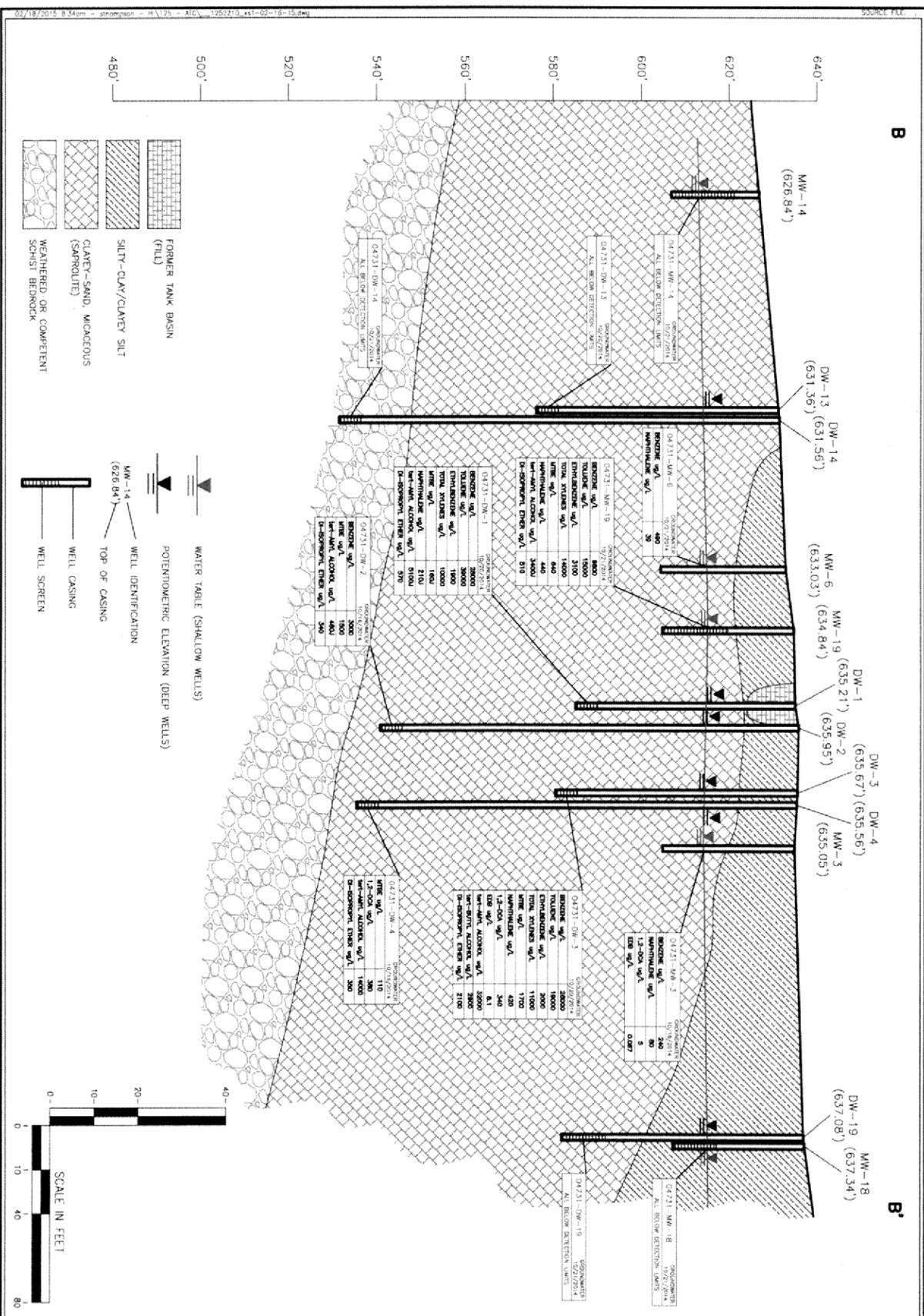


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CAD FILE	TYPE CODE	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1252210.DWG		BH			02-16-2015	14.75118.6279



NOTES: 1. GROUNDWATER SAMPLES COLLECTED BETWEEN 10/16/2014 THROUGH 10/21/2014. 2. J - ESTIMATED VALUE	FIGURE 9 GEOLOGIC CROSS-SECTION A-A' FORMER CONOCO #40019 (RM 6279) 2502 U.S. HIGHWAY 25 SOUTH GREENWOOD, SOUTH CAROLINA		 Shaping the Future	
	CAD FILE: 1252210.DWG TYPE CODE: PREP. BY: BH REV. BY:	R/SCALE: DATE: 02-16-2015 PROJECT NO.: 14.75118.6279	Raleigh, North Carolina 27604 (919) 871-0999 FAX (919) 871-0335	



NOTES:
 1. GROUNDWATER SAMPLES COLLECTED BETWEEN 10/16/2014 THROUGH 10/21/2014.
 2. J - ESTIMATED VALUE

FIGURE 10
GEOLOGIC CROSS-SECTION B-B'
FORMER CONOCO #40019 (RM 6279)
2502 U.S. HIGHWAY 25 SOUTH
GREENWOOD, SOUTH CAROLINA

CAD FILE	TYPE CODE	PREP BY	REV BY
1252210.DWG		BH	

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Raleigh, North Carolina 27604 (919) 871-0999 FAX (919) 871-0335

SCALE	DATE	PROJECT NO.
	02-16-2015	14.75118.6279

**TABLE 1
MONITORING WELL CONSTRUCTION DETAILS
AND WATER LEVEL DEPTHS**

**FORMER CONOCO # 40019 (RM # 6279)
2502 US HIGHWAY 25 SOUTH
GREENWOOD, SOUTH CAROLINA
UST SITE # 04731**

Well ID	Date of Construction	TOC elevation, ft	Well Diameter, in.	Well Depth, ft	Screen Interval, ft	Depth to Water, ft btoc	Product Thickness, ft.	Date Water Level Measured	Potentiometric Surface Elevation, ft
04731-MW-1	03/09/98	633.92	4	29.9	NA	18.54	0.00	10/15/14	615.38
04731-MW-2	03/09/98	635.46	4	29.2	NA	20.19	0.00	10/15/14	615.27
04731-MW-3	03/09/98	635.05	2	30.1	NA	20.70	0.00	10/15/14	614.35
04731-MW-4	03/10/98	636.84	2	30.0	NA	19.69	0.00	10/15/14	616.15
04731-MW-5	03/10/98	632.25	2	27.0	NA	18.39	0.00	10/15/14	615.86
04731-MW-6	03/10/98	633.03	2	26.5	NA	18.02	0.00	10/15/14	615.01
04731-MW-7	03/11/98	635.63	2	25.5	NA	19.67	0.00	10/15/14	615.88
04731-MW-8	03/11/98	631.12	2	25.3	NA	14.44	0.00	10/15/14	616.65
04731-MW-9	03/11/98	631.77	2	25.5	NA	15.88	0.00	10/15/14	615.89
04731-MW-10	03/12/98	632.93	2	25.5	NA	19.77	0.00	10/15/14	613.16
04731-MW-11	03/12/98	634.40	2	26.2	5 - 25	22.01	0.00	10/15/14	612.39
04731-MW-12	03/12/98	634.52	2	25.5	5 - 25	NM(1)	0.00	10/15/14	NA
04731-MW-13	07/28/02	629.96	2	22.9	8 - 23	15.28	0.00	10/15/14	614.68
04731-MW-14	07/28/02	626.84	2	19.7	5 - 20	13.76	0.00	10/15/14	613.08
04731-MW-15	07/31/02	630.84	2	24.6	10 - 25	14.74	0.00	10/15/14	616.20
04731-MW-16	07/31/02	630.22	2	25.1	10 - 25	17.09	0.00	10/15/14	613.13
04731-MW-17	12/13/05	636.34	2	30.0	20 - 30	22.55	0.00	10/15/14	613.79
04731-MW-18	12/13/05	637.34	2	30.0	20 - 30	22.00	0.00	10/15/14	615.34
04731-MW-19	08/21/06	634.84	2	30.0	15 - 30	19.53	0.00	10/15/14	615.31
04731-MW-20	08/21/06	635.29	2	30.0	15 - 30	19.91	0.00	10/15/14	615.36
04731-MW-21	08/22/06	632.70	2	30.0	15 - 30	17.28	0.00	10/15/14	615.44
04731-MW-22	09/22/06	635.05	2	30.0	15 - 30	19.28	0.00	10/15/14	615.77
04731-MW-23	08/22/06	635.80	2	30.0	15 - 30	20.28	0.00	10/15/14	615.62
04731-DW-1	08/01/02	635.21	2	48.8	45 - 50	21.40	0.00	10/15/14	613.81
04731-DW-2	10/01/02	635.95	2	95.0	85 - 95	22.27	0.00	10/15/14	613.68
04731-DW-3	12/13/05	635.87	2	55.0	50 - 55	19.36	0.00	10/15/14	616.32
04731-DW-4	12/12/05	635.56	2	100.0	95 - 100	19.74	0.00	01/27/15	615.82
04731-DW-5	08/14/06	632.56	2	55.0	50 - 55	18.99	0.00	01/27/15	613.57
04731-DW-6	08/15/06	633.10	2	100.0	95 - 100	18.81	0.00	01/27/15	614.29
04731-DW-7	08/16/06	632.73	2	109.0	104 - 109	20.22	0.00	10/15/14	612.51
04731-DW-8	03/14/07	635.74	2	108.0	103 - 108	19.97	0.00	01/27/15	615.77
04731-DW-9	03/06/07	630.74	2	55.0	50 - 55	18.82	0.00	10/15/14	611.92
04731-DW-10	03/07/07	631.00	2	100.0	95 - 100	17.22	0.00	01/27/15	613.78
04731-DW-11	02/10-11/09	632.59	2	55.0	50-55	16.71	0.00	10/15/14	615.88
04731-DW-12	02/09-12/09	632.74	2	100.0	95-100	15.29	0.00	01/27/15	617.45
04731-DW-13	02/10-11/09	631.36	2	55.0	50-55	15.14	0.00	10/15/14	616.22
04731-DW-14	02/16-17/09	631.56	2	100.0	95-100	15.17	0.00	01/27/15	616.39
04731-DW-15	08/23-10/03/14	633.08	2	150.0	145-150	16.34	0.00	01/27/15	616.74
04731-DW-16	08/29-10/03/14	635.76	2	102.0	97-102	18.82	0.00	01/27/15	616.94
04731-DW-17	08/30-10/02/14	631.91	2	150.0	145-150	17.20	0.00	01/27/15	614.71
04731-DW-18	1/13-15/15	630.07	2	150.0	145-150	16.34	0.00	01/27/15	613.73
04731-DW-19	09/22/14	637.08	2	55.0	45-55	21.93	0.00	10/15/14	615.15
04731-DW-20	09/22/14	634.80	2	55.0	45-55	22.65	0.00	10/15/14	612.15
04731-DW-21	08/28-29/14	635.85	2	66.0	50-55	20.18	0.00	10/15/14	615.67
04731-RWD1	08/13/13	635.43	4	30.0	15-30	20.10	0.00	10/15/14	615.33

1 - Well construction dates for MW-1 through MW-12 are approximate due to lack of historical data.
2 - NA = Not available.
3 - NM = Not measured (NM(1) = well sited in at 22.5 ft.)

**TABLE 2
HISTORICAL GROUNDWATER ELEVATION DATA**

FORMER CONOCO # 40019 (RM # 6279)
2502 US HIGHWAY 25 SOUTH
GREENWOOD, SOUTH CAROLINA
UST SITE # 04731

Well Identification	Date Measured	Top of Casing Elevation (ft)	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Groundwater Elevation
04731-MW-1	3/16/1998	635.10	0.00	13.76	0.00	621.34
	8/24/1999		0.00	17.88	0.00	617.22
	3/28/2000		16.43	16.62	0.19	618.62
	9/26/2000		NOT MEASURED			
	8/6/2002	633.82	19.03	19.33	0.30	615.89
	12/21/2005		0.00	11.86	0.00	623.24
	8/24/2006		0.00	14.89	0.00	618.93
	3/15/2007		0.00	9.94	0.00	623.88
	2/25/2008		17.68	17.69	0.01	618.14
	4/12/2012	0.00	18.60	0.00	615.22	
	3/27/2014	0.00	8.34	0.00	625.48	
	10/15/2014	633.92	0.00	18.54	0.00	615.38
	04731-MW-2	3/16/1998	636.60	0.00	16.01	0.00
8/24/1999		0.00		19.60	0.00	617.00
3/28/2000		18.32		18.76	0.44	618.16
9/26/2000		NOT MEASURED				
8/6/2002		635.39	21.31	21.51	0.20	615.24
12/21/2005			0.00	16.83	0.00	619.77
8/24/2006			0.00	16.67	0.00	618.72
3/15/2007			0.00	11.66	0.00	623.73
2/24/2009			19.20	20.92	1.32	615.83
4/12/2012		20.51	20.52	0.01	614.86	
3/27/2014		0.00	12.00	0.00	623.39	
10/15/2014		635.46	0.00	20.19	0.00	615.27
04731-MW-3		3/16/1998	635.38	0.00	14.97	0.00
	8/24/1999	0.00		19.52	0.00	615.86
	3/28/2000	0.00		18.15	0.00	617.23
	9/26/2000	0.00		21.03	0.00	614.35
	8/6/2002	634.95	0.00	21.27	0.00	614.11
	12/21/2005		0.00	15.47	0.00	619.91
	8/24/2006		0.00	17.33	0.00	617.82
	3/15/2007		WELL COVERED BY FIREWORKS STAND			
	2/24/2009		0.00	20.27	0.00	614.88
	4/12/2012	0.00	21.25	0.00	613.70	
	3/27/2014	0.00	12.85	0.00	622.10	
	10/15/2014	635.05	0.00	20.70	0.00	614.35
	04731-MW-4	3/16/1998	636.16	0.00	13.88	0.00
8/24/1999		0.00		18.48	0.00	617.88
3/28/2000		0.00		17.36	0.00	618.80
9/26/2000		0.00		20.03	0.00	618.13
8/6/2002		635.74	0.00	20.29	0.00	615.87
9/26/2001			0.00	14.51	0.00	621.65
8/24/2006			0.00	16.39	0.00	619.35
3/15/2007			0.00	11.67	0.00	624.07
2/24/2009			0.00	19.59	0.00	616.15
4/13/2012		0.00	20.44	0.00	615.30	
3/27/2014		0.00	12.35	0.00	623.39	
10/15/2014		635.84	0.00	19.89	0.00	616.15
04731-MW-5		3/16/1998	634.71	0.00	12.81	0.00
	8/24/1999	0.00		15.55	0.00	619.18
	3/28/2000	0.00		13.69	0.00	621.02
	9/26/2000	0.00		15.49	0.00	619.22
	8/6/2002	632.17	0.00	17.10	0.00	617.81
	12/21/2005		0.00	11.02	0.00	623.89
	8/24/2006		0.00	13.13	0.00	619.04
	3/15/2007		0.00	8.37	0.00	623.80
	2/24/2009		0.00	15.59	0.00	616.58
	4/12/2012	0.00	16.70	0.00	615.47	
	3/27/2014	WELL NOT ACCESSIBLE				
	10/15/2014	632.25	0.00	18.39	0.00	615.86

**TABLE 2
HISTORICAL GROUNDWATER ELEVATION DATA**

FORMER CONOCO # 40019 (RM # 6279)
2502 US HIGHWAY 26 SOUTH
GREENWOOD, SOUTH CAROLINA
LIST SITE # 04731

Well Identification	Date Measured	Top of Casing Elevation (ft)	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Groundwater Elevation	
04731-MW-6	3/16/1998	633.31	0.00	14.09	0.00	619.22	
	8/24/1999		0.00	16.94	0.00	616.37	
	8/24/2008	632.94	0.00	14.43	0.00	618.51	
	3/15/2007		0.00	9.93	0.00	623.01	
	2/24/2009		WELL COVERED BY FIREWORKS STAND				
	4/12/2012		WELL NOT ACCESSIBLE				
	3/26/2014	633.03	0.00	10.25	0.00	622.69	
	10/15/2014		0.00	18.02	0.00	615.01	
04731-MW-7	3/16/1998	635.96	0.00	14.01	0.00	621.96	
	8/24/1999		0.00	18.56	0.00	617.41	
	3/28/2000		0.00	17.81	0.00	618.35	
	9/26/2000		0.00	20.51	0.00	615.45	
	8/6/2002		0.00	20.31	0.00	615.65	
	12/21/2005		0.00	14.71	0.00	621.25	
	8/24/2006	635.54	0.00	16.47	0.00	619.07	
	3/15/2007		0.00	11.65	0.00	623.89	
	2/24/2009		0.00	19.70	0.00	615.84	
	4/12/2012		0.00	20.50	0.00	615.04	
	3/26/2014		0.00	13.00	0.00	622.54	
	10/15/2014		0.00	19.67	0.00	615.96	
	3/16/1998		631.45	0.00	8.46	0.00	622.99
	8/24/1999			0.00	14.00	0.00	617.45
3/26/2000	0.00	9.96		0.00	621.47		
9/26/2000	0.00	8.48		0.00	622.97		
8/6/2002	631.02	0.00	15.65	0.00	615.79		
12/21/2005		0.00	7.34	0.00	624.11		
8/24/2006		0.00	10.49	0.00	620.53		
3/15/2007		0.00	5.03	0.00	625.89		
2/25/2009		0.00	13.01	0.00	618.01		
4/12/2012		NOT LOCATED					
3/26/2014	631.12	0.00	5.30	0.00	625.72		
10/15/2014		0.00	14.44	0.00	616.68		
04731-MW-9	3/16/1998	632.26	0.00	10.57	0.00	621.69	
	8/24/1999		0.00	15.05	0.00	617.21	
	3/28/2000		0.00	13.46	0.00	618.80	
	9/26/2000		0.00	15.17	0.00	617.09	
	8/6/2002		0.00	16.70	0.00	615.66	
	12/21/2005		0.00	10.80	0.00	621.46	
	8/24/2006	631.70	0.00	12.71	0.00	618.89	
	3/15/2007		0.00	8.11	0.00	623.59	
	2/25/2009		0.00	15.34	0.00	616.36	
	4/12/2012		0.00	16.32	0.00	615.36	
	3/26/2014		0.00	8.15	0.00	623.55	
10/15/2014	631.77	0.00	15.86	0.00	615.89		
04731-MW-10	3/16/1998	633.26	0.00	13.70	0.00	619.56	
	8/24/1999		0.00	18.17	0.00	615.09	
	3/26/2000		0.00	16.66	0.00	616.60	
	9/26/2000		0.00	19.82	0.00	613.44	
	8/6/2002		0.00	19.93	0.00	613.33	
	12/21/2005		0.00	14.19	0.00	619.07	
	8/24/2006	632.85	0.00	16.03	0.00	616.82	
	3/15/2007		0.00	11.05	0.00	621.80	
	2/24/2009		0.00	18.91	0.00	613.94	
	4/12/2012		0.00	19.82	0.00	613.03	
	3/26/2014		0.00	12.80	0.00	620.25	
	10/15/2014		632.93	0.00	19.77	0.00	613.16

**TABLE 2
HISTORICAL GROUNDWATER ELEVATION DATA**

**FORMER CONOCO # 40019 (RM # 6279)
2502 US HIGHWAY 25 SOUTH
GREENWOOD, SOUTH CAROLINA
UST SITE # 04731**

Well Identification	Date Measured	Top of Casing Elevation (ft)	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Groundwater Elevation	
04731-MW-11	3/16/1998	634.81	0.00	9.84	0.00	624.97	
	8/24/1999		0.00	20.15	0.00	614.86	
	3/28/2000		0.00	18.18	0.00	618.63	
	9/26/2000		0.00	21.46	0.00	613.35	
	8/6/2002		0.00	21.82	0.00	612.99	
	12/21/2005		0.00	15.66	0.00	619.15	
	8/24/2006	634.33	0.00	17.77	0.00	618.56	
	3/15/2007		0.00	12.42	0.00	621.91	
	2/25/2009		0.00	20.86	0.00	613.45	
	4/11/2012		0.00	21.43	0.00	612.90	
	3/26/2014		0.00	14.30	0.00	620.03	
	10/15/2014		634.40	0.00	22.01	0.00	612.39
	3/16/1998		635.26	0.00	10.85	0.00	624.41
	8/24/1999			0.00	23.42	0.00	611.84
3/28/2000	0.00	19.68		0.00	615.58		
9/26/2000	0.00	24.13		0.00	611.13		
8/6/2002					DRY		
12/21/2005	0.00	18.29		0.00	616.97		
8/24/2006	634.49	0.00	21.19	0.00	613.30		
3/15/2007		0.00	13.63	0.00	620.86		
2/24/2009					DRY		
4/12/2012					DRY		
3/26/2014		0.00	16.80	0.00	617.89		
10/15/2014		634.52			DRY-WELL SILTED IN		
08/08/02		629.91	0.00	18.10	0.00	613.81	
12/21/2005			0.00	8.47	0.00	621.44	
08/24/06	0.00		11.92	0.00	617.89		
3/15/2007	0.00		6.24	0.00	623.67		
2/25/2009	0.00		12.49	0.00	617.42		
4/11/2012	0.00		14.25	0.00	615.86		
3/26/2014	0.00		8.17	0.00	623.74		
10/15/2014	629.96		0.00	15.28	0.00	614.68	
8/6/2002	626.77		0.00	14.06	0.00	612.69	
12/21/2005			0.00	8.51	0.00	618.26	
8/24/2006		0.00	9.98	0.00	616.79		
3/15/2007		0.00	5.39	0.00	621.38		
2/25/2009		0.00	11.18	0.00	615.59		
4/11/2012		0.00	13.55	0.00	613.22		
3/26/2014		0.00	6.32	0.00	620.45		
10/15/2014		626.84	0.00	13.76	0.00	613.08	
8/6/2002		630.90	0.00	16.35	0.00	614.55	
12/21/2005			0.00	10.21	0.00	620.89	
8/24/2006	0.00		11.81	0.00	619.09		
3/15/2007	0.00		7.83	0.00	622.97		
2/24/2009	0.00		15.39	0.00	615.51		
4/12/2012	0.00		16.17	0.00	614.73		
3/27/2014	0.00		8.35	0.00	622.55		
10/15/2014	630.94		0.00	14.74	0.00	616.20	
8/6/2002	630.16		0.00	17.34	0.00	612.82	
12/21/2005			0.00	11.81	0.00	618.55	
8/24/2006		0.00	13.36	0.00	618.77		
3/15/2007		630.13	0.00	8.55	0.00	621.58	
2/24/2009			0.00	16.21	0.00	613.92	
4/11/2012			0.00	17.20	0.00	612.93	
3/26/2014			0.00	10.00	0.00	620.13	
10/15/2014			630.22	0.00	17.09	0.00	613.13
12/21/2005			636.70	0.00	16.83	0.00	619.87
8/24/2006		0.00		18.89	0.00	617.37	
3/15/2007	0.00	13.94		0.00	622.32		
2/24/2009	0.00	21.55		0.00	614.71		
4/13/2012	0.00	22.66		0.00	613.80		
3/26/2014	0.00	14.82		0.00	621.44		
10/15/2014	636.34	0.00		22.55	0.00	613.79	

**TABLE 2
HISTORICAL GROUNDWATER ELEVATION DATA**

**FORMER CONOCO # 40019 (RM # 6278)
2502 US HIGHWAY 25 SOUTH
GREENWOOD, SOUTH CAROLINA
UST SITE # 04731**

Well Identification	Date Measured	Top of Casing Elevation (ft)	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Groundwater Elevation
04731-MW-18	12/21/2005	637.89	0.00	16.76	0.00	620.93
	6/24/2006		0.00	18.59	0.00	618.65
	3/15/2007		0.00	13.76	0.00	623.46
	2/25/2009	637.24	0.00	22.11	0.00	615.13
	4/11/2012		0.00	27.97	0.00	609.27
	3/26/2014		0.00	15.10	0.00	622.14
	10/15/2014	637.34	0.00	22.00	0.00	615.34
04731-MW-19	6/24/2006		0.00	16.09	0.00	618.72
	3/15/2007		0.00	11.39	0.00	623.42
	2/24/2009	634.81	0.00	18.99	0.00	615.62
	4/13/2012		0.00	19.91	0.00	614.90
	3/26/2014		0.00	11.53	0.00	623.28
	10/15/2014	634.84	0.00	19.53	0.00	615.31
	04731-MW-20	6/24/2006		0.00	16.39	0.00
3/15/2007			0.00	11.84	0.00	623.57
2/24/2009		635.21	19.24	19.30	0.06	615.85
4/12/2012			20.10	20.21	0.11	615.09
3/26/2014			0.00	12.00	0.00	623.21
10/15/2014		635.29	0.00	19.91	0.00	615.36
04731-MW-21		6/24/2006		0.00	13.76	0.00
	3/15/2007		0.00	9.07	0.00	623.56
	2/24/2009	632.63	0.00	16.48	0.00	616.15
	4/12/2012		0.00	17.48	0.00	615.15
	3/27/2014		0.00	9.35	0.00	623.28
	10/15/2014	632.70	0.00	17.26	0.00	615.44
	04731-MW-22	6/24/2006		0.00	15.86	0.00
3/15/2007			0.00	11.07	0.00	623.86
2/24/2009		634.85	0.00	18.44	0.00	616.81
4/12/2012			0.00	19.48	0.00	616.47
3/26/2014			0.00	11.35	0.00	623.60
10/15/2014		635.05	0.00	19.28	0.00	615.77
04731-MW-23		6/24/2006		0.00	16.91	0.00
	3/15/2007		0.00	12.06	0.00	623.75
	2/24/2009	635.81	0.00	19.80	0.00	616.01
	4/12/2012			NOT MEASURED		
	3/26/2014		0.00	12.56	0.00	623.25
	10/15/2014	635.90	0.00	20.28	0.00	615.62
	04731-DW-1	8/6/2002		0.00	20.83	0.00
12/21/2005			0.00	15.71	0.00	619.42
6/24/2006			0.00	16.99	0.00	618.14
3/15/2007		635.13	0.00	12.79	0.00	622.34
2/25/2009			0.00	20.32	0.00	614.81
4/13/2012			0.00	21.45	0.00	613.68
3/28/2014			0.00	13.63	0.00	621.50
10/15/2014		635.21	0.00	21.40	0.00	613.81
04731-DW-2		8/6/2002		0.00	24.81	0.00
	12/21/2005	636.29	0.00	16.87	0.00	619.42
	6/24/2006		0.00	18.71	0.00	617.17
	3/15/2007		0.00	13.91	0.00	621.97
	2/25/2009	635.88	0.00	21.14	0.00	614.74
	4/13/2012		0.00	22.30	0.00	613.98
	3/31/2014		0.00	13.17	0.00	622.71
	10/15/2014	635.95	0.00	22.27	0.00	613.68
	04731-DW-3	12/21/2005	635.99	0.00	16.11	0.00
6/24/2006			0.00	18.29	0.00	617.26
3/15/2007			0.00	13.28	0.00	622.29
2/25/2009		635.57	0.00	21.00	0.00	614.57
4/12/2012			0.00	20.70	0.00	614.87
3/31/2014			0.00	15.82	0.00	619.75
10/15/2014		635.67	0.00	19.35	0.00	616.32

**TABLE 2
HISTORICAL GROUNDWATER ELEVATION DATA**

**FORMER CONOCO # 40019 (RM # 6279)
2502 US HIGHWAY 25 SOUTH
GREENWOOD, SOUTH CAROLINA
UST SITE # 04731**

Well Identification	Date Measured	Top of Casing Elevation (ft)	Depth to Free Product (ft)	Depth to Water (ft)	Free Product Thickness (ft)	Groundwater Elevation	
04731-DW-4	12/21/2005	635.45	0.00	16.11	0.00	619.34	
	6/24/2006		0.00	18.36	0.00	617.09	
	3/15/2007		0.00	13.32	0.00	622.13	
	2/25/2009		0.00	21.79	0.00	613.66	
	4/12/2012		0.00	22.10	0.00	613.35	
	3/31/2014		0.00	15.08	0.00	620.39	
1/27/2015	635.68	0.00	19.74	0.00	616.82		
04731-DW-5	6/24/2006	632.45	0.00	18.85	0.00	613.80	
	3/15/2007		0.00	12.34	0.00	620.11	
	2/24/2009		0.00	18.21	0.00	614.24	
	4/11/2012		0.00	17.40	0.00	615.35	
	3/28/2014		0.00	13.17	0.00	619.28	
	1/27/2015		632.58	0.00	18.99	0.00	613.57
04731-DW-6	6/24/2006	633.00	0.00	18.87	0.00	618.33	
	3/15/2007		0.00	12.09	0.00	620.91	
	2/24/2009		0.00	18.94	0.00	614.06	
	4/11/2012		0.00	18.80	0.00	614.20	
	3/27/2014		0.00	15.76	0.00	617.24	
	1/27/2015		633.10	0.00	18.81	0.00	614.29
04731-DW-7	6/24/2006	632.84	0.00	16.33	0.00	616.31	
	3/15/2007		0.00	11.33	0.00	621.31	
	2/24/2009		0.00	20.20	0.00	612.44	
	4/11/2012		0.00	19.95	0.00	612.69	
	3/28/2014		0.00	12.82	0.00	620.12	
	10/15/2014		632.73	0.00	20.22	0.00	612.51
04731-DW-8	3/15/2007	635.66	0.00	14.37	0.00	621.29	
	2/25/2009		0.00	21.34	0.00	614.32	
	4/13/2012		0.00	21.75	0.00	613.91	
	3/31/2014		0.00	15.04	0.00	620.82	
	1/27/2015		635.74	0.00	19.97	0.00	615.77
	04731-DW-9		3/15/2007	630.87	0.00	12.18	0.00
2/24/2009		0.00	18.81		0.00	611.86	
4/12/2012		0.00	18.80		0.00	611.87	
3/28/2014		0.00	11.74		0.00	618.93	
10/15/2014		630.74	0.00		18.82	0.00	611.92
04731-DW-10		3/15/2007	630.93		0.00	10.49	0.00
	2/24/2009	0.00		18.32	0.00	612.61	
	4/12/2012	0.00		19.37	0.00	611.56	
	3/27/2014	0.00		13.15	0.00	617.78	
	1/27/2015	631.00		0.00	17.22	0.00	613.78
	04731-DW-11	2/23/2009		632.53	0.00	16.00	0.00
4/13/2012		0.00	17.20		0.00	615.33	
3/31/2014		0.00	9.08		0.00	623.47	
10/15/2014		632.59	0.00		18.71	0.00	615.88
04731-DW-12		2/23/2009	632.86		0.00	15.32	0.00
	4/13/2012	0.00		17.80	0.00	615.06	
	3/31/2014	0.00		9.33	0.00	623.33	
	1/27/2015	632.74		0.00	16.29	0.00	617.45
04731-DW-13	2/23/2009	631.30	0.00	15.88	0.00	616.42	
	4/12/2012		0.00	16.75	0.00	614.55	
	3/28/2014		0.00	8.89	0.00	622.81	
	10/15/2014		631.36	0.00	15.14	0.00	616.22
	04731-DW-14		2/23/2009	631.79	0.00	16.59	0.00
4/12/2012		0.00	17.87		0.00	614.12	
3/31/2014		0.00	10.03		0.00	621.76	
1/27/2015		631.66	0.00		15.17	0.00	616.38
04731-DW-15	1/27/2015	633.08	0.00	18.34	0.00	616.74	
04731-DW-16	1/27/2015	635.76	0.00	18.82	0.00	618.94	
04731-DW-17	1/27/2015	631.91	0.00	17.20	0.00	614.71	
04731-DW-18	1/27/2015	630.07	0.00	16.34	0.00	613.73	
04731-DW-19	10/15/2014	637.08	0.00	21.93	0.00	615.15	
04731-DW-20	10/15/2014	634.8	0.00	22.85	0.00	612.15	
04731-DW-21	10/15/2014	635.85	0.00	20.18	0.00	615.87	

Notes:

1. Elevations are shown relative to MSL.
2. Top of casing (TOC) elevations re-surveyed 10/21/2014
3. Groundwater elevations are adjusted for those wells which contain free product. Adjustments were calculated using an average specific gravity of 0.729 g/cm³ for gasoline.

TABLE 4
GROUNDWATER ANALYTICAL RESULTS

FORMER CONOCO # 40019 (RM # 6278)
2502 US HIGHWAY 28 SOUTH
GREENWOOD, SOUTH CAROLINA
UST SITE # 04731

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	NTBE	Naphthalene	1,2-Dichloroethane	Ethylene dibromide	tert-Amyl methyl ether	tert-Amyl alcohol	tert-Butyl alcohol	tert-Butyl formate	d-Isopropyl ether	Ethanol	Ethyl tert-butyl ether	2,3-Dimethyl-1-butanol
04731-MW-1	10/18/2014	180	130	1,300	370	<10	860	<10	<0.03	<10	<500	49 J	<50	<10	<2,800	<10	<1,000
04731-MW-2	10/21/2014	6,800	14,000	1,300	9,400	<100	440	<100	0.019 J	<100	6,800	290 J	<900	78 J	<26,000	<100	<10,000
04731-MW-3	10/18/2014	260	0.8 J	5	430	2	80	5	0.087	<1	91	29	<5	4	<260	<1	<100
04731-MW-4	10/18/2014	0.8 J	<1	<1	0.8 J	<1	<1	<1	<0.026	<1	<50	16	<6	<1	<260	<1	<100
04731-MW-5	10/18/2014	2,300	1,400	1,200	4,400	<5	430	<5	0.035	<5	2,300	41	<25	<5	<1,300	<5	<500
04731-MW-6	10/21/2014	480	2	8	88	38	39	<1	<0.029	<1	150	38	<5	48	<250	<1	<100
04731-MW-7	10/18/2014	930	4,180	2,900	12,000	3 J	630	10	0.76	<5	70 J	84	<25	3 J	<1,300	<5	<500
04731-MW-8	10/21/2014	<1	<1	<1	<1	<1	<1	<1	<0.028	<1	<50	<5	<5	<1	<260	<1	<100
04731-MW-9	10/21/2014	2	<1	1	<1	<1	1 J	<1	<0.029	<1	410	47	<5	5	<260	<1	<100
04731-MW-10	10/17/2014	<1	<1	<1	<1	<1	<1	<1	<0.029	<1	<50	<5	<5	<1	<260	<1	<100
04731-MW-11	10/21/2014	<1	<1	<1	<1	<1	<1	<1	<0.028	<1	<50	<5	<5	<1	<260	<1	<100
04731-MW-13	10/21/2014	<1	<1	<1	<1	<1	<1	<1	<0.029	<1	<50	<5	<5	<1	<260	<1	<100
04731-MW-14	10/21/2014	<1	<1	<1	<1	<1	<1	<1	<0.029	<1	<50	<5	<5	<1	<260	<1	<100
04731-MW-16	10/21/2014	<1	<1	<1	<1	<1	<1	<1	<0.029	<1	<50	<5	<5	<1	<260	<1	<100
04731-MW-16	10/17/2014	<1	<1	<1	<1	<1	<1	<1	<0.029	<1	<50	<5	<5	<1	<260	<1	<100
04731-MW-17	10/21/2014	8,800	38,000	3,100	18,000	<100	490	<100	0.11 J	<100	3,800 J	<900	<800	<100	<26,000	<100	<10,000
04731-MW-18	10/21/2014	<1	<1	<1	<1	<1	<1	<1	<0.029	<1	<50	<5	<5	<1	<260	<1	<100
04731-MW-19	10/21/2014	9,800	18,000	3,100	14,000	840	440	<100	<0.029	<100	3,800 J	630	<800	810	<26,000	<100	<10,000
04731-MW-20	10/18/2014	8,800	47,000	4,100	21,000	<100	840	<100	<0.33	<100	2,200 J	290 J	<600	61 J	<26,000	<100	<10,000
04731-MW-21	10/18/2014	8,700	27,000	2,200	14,000	200	890	<100	4.4	<100	28,000	2,200	<500	<100	<26,000	<100	<10,000
04731-MW-22	10/18/2014	16,000	18,000	1,700	9,400	<100	610	610	1.60	<100	33,000	800	<500	890	<26,000	<100	<10,000
04731-MW-23	10/18/2014	8,700	2,700	2,200	9,400	80	650	180	6.8	<90	4,000	970	<290	30 J	<13,000	<50	<5,000
RMGL >>		8	1,000	700	10,000	40	28	8	0.08	128	240	1,400	NE	180	10,000	47	NE

TABLE 4
GROUNDWATER ANALYTICAL RESULTS

FORMER CONOCO # 40019 (RM # 6278)
2902 US HIGHWAY 26 SOUTH
GREENWOOD, SOUTH CAROLINA
UST SITE # 04731

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	1,2-Dichloroethane	Ethylene dibromide	tert-Amyl methyl ether	tert-Amyl alcohol	tert-Butyl alcohol	tert-Butyl formate	di-Isopropyl ether	Ethanol	Ethyl tert-butyl ether	3,3-Dimethyl-1-butanol
04731-DW-1	10/20/2014	28,000	38,000	1,800	10,000	180 J	210 J	<200	<0.12	<200	8,100 J	830 J	<1,000	870	<80,000	<200	<20,000
04731-DW-2	10/16/2014	3,000	<10	<10	45	1,800	21 J	<10	0.012 J	5 J	480 J	380	<80	240	<2,800	<10	<1,000
04731-DW-3	10/20/2014	28,000	18,000	2,800	11,000	1,700	420	340	8.1	<100	32,000	2,800	<500	2,100	<25,000	<100	<10,000
04731-DW-4	10/16/2014	<10	<10	<10	<10	110	<40	380	<0.028	<10	14,000	970	<80	390	<2,500	<10	<1,000
04731-DW-5	10/20/2014	2,800	18	180	1,300	84	110	<10	0.028 J	<10	2,300	400	<80	130	<2,500	<10	<1,000
04731-DW-6	10/21/2014	1,200	180	25	86	11,000	<80	<20	0.086	15 J	11,000	4,200	<100	1,200	<5,000	<20	<2,000
04731-DW-7	10/20/2014	480	86	8 J	37	8,100	<40	<10	<0.029	18	8,900	3,800	<80	1,600	<2,500	<10	<1,000
04731-DW-8	10/21/2014	3,000	<10	<10	200	830	88	<10	<0.029	<10	2,000	500	<80	830	<2,800	<10	<1,000
04731-DW-9	10/17/2014	<1	<1	<1	<1	<1	<4	<1	<0.028	<1	<80	<5	<5	<1	<280	<1	<100
04731-DW-10	10/17/2014	<1	<1	<1	<1	49	<4	<1	<0.029	<1	<50	<5	<5	<1	<250	<1	<100
04731-DW-11	10/15/2014	15,000	<20	71	1,700	490	420	110	0.18	<20	17,000	2,800	<100	180	<5,000	<20	<2,000
04731-DW-12	10/16/2014	420	<5	<5	<5	86	22	38	<0.029	<5	830	620	<28	120	<1,300	<5	<500
04731-DW-13	10/20/2014	<1	<1	<1	<1	<1	<4	<1	<0.029	<1	<50	3 J	<5	<1	<280	<1	<100
04731-DW-14	10/21/2014	<1	<1	<1	<1	<1	<4	<1	<0.029	<1	<50	<5	<5	<1	<260	<1	<100
04731-DW-15	10/16/2014	<1	<1	<1	<1	41	<4	2	<0.028	<1	<50	7	<5	12	<260	<1	<100
04731-DW-16	10/16/2014	<1	<1	<1	<1	<1	<4	<1	<0.029	<1	<80	<5	<5	<1	<260	<1	<100
04731-DW-17	10/17/2014	47	<5	<5	<5	3,800	<20	8	<0.028	8	2,800	1,400	<25	430	<1,300	<5	<500
04731-DW-18	1/27/2016	0.8 J	<1	<1	<1	1,800	<4	22	<0.028	4	810	1,200	<5	370	<260	<1	<100
04731-DW-19	10/21/2014	<1	<1	<1	<1	<1	<4	0.5 J	<0.029	<1	<80	<5	<5	<1	<260	<1	<100
04731-DW-20	10/21/2014	<1	<1	<1	<1	<1	<4	<1	<0.029	<1	<80	<5	<5	<1	<260	<1	<100
04731-DW-21	10/20/2014	<1	<1	<1	<1	<1	<4	<1	<0.029	<1	<80	<5	<5	<1	<260	<1	<100
RBSL >>		5	1,000	700	10,000	40	28	5	0.05	128	240	1,400	NE	180	10,000	47	NE

Notes:
1 Units = micrograms per liter (µg/L)
2 MTBE = Methyl Tertiary Butyl Ether
3 "<" = Not detected at or above the laboratory reporting limit
4 RBSL = Risk Based Screening Level
5 Bold concentrations equal or exceed the corresponding RBSL
NE RBSL not established

TABLE 5A
HISTORICAL GROUNDWATER QUALITY SUMMARY-
PETROLEUM CONSTITUENTS

FORMER CONOCO # 40019 (RM # 8279)
2502 US HIGHWAY 26 SOUTH
GREENWOOD, SOUTH CAROLINA
UST SITE # 04731

Well ID	Sample Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	Naphthalene	1,2- Dichloroethane	Ethylene Dibromide	
04731-MW-1	10/25/1996	4,100	6,000	700	8,800	200	308	NA	0.1	
	3/18/1998	1,280	1,720	1,840	7,480	140	470	NA	NA	
	8/24/1999	3,400	2,700	1,100	8,800	870	617	NA	NA	
	3/28/2000	not sampled - free product								
	9/28/2000	not sampled - free product								
	8/7/2002	not sampled - free product								
	12/21/2005	270	170	1,820	3,800	<50	720	NA	<0.020	
	8/24/2006	840	860	800	2,100	17	800	NA	<0.020	
	3/19/2007	380	110	1,700	1,300	<50	630	NA	<0.02	
	2/24/2009	300	140	370	1,050	28	800	NA	<0.021	
	4/12/2012	340	88	340	420	83	340	<5	<0.028	
	3/27/2014	180	410	1,700	1,300	18	780	<10	<0.028	
	10/18/2014	180	130	1,380	370	<10	880	<10	<0.03	
04731-MW-2	10/25/1996	20,000	27,000	1,600	20,000	2,800	367	NA	<0.1	
	3/18/1998	8,100	8,880	2,780	10,200	<1,000	633	NA	1	
	8/24/1999	83,000	49,000	<2,900	14,000	12,000	721	NA	<2,600	
	3/28/2000	not sampled - free product								
	9/28/2000	not sampled - free product								
	8/7/2002	not sampled - free product								
	12/21/2005	420	<5	9.1	890	<5	140	NA	0.25	
	8/24/2006	26,000	32,000	1,800	12,000	<1,000	<1,000	NA	0.1	
	3/19/2007	1,200	3,300	580	4,900	<50	380	NA	<0.02	
	2/24/2009	not sampled - free product								
	4/12/2012	not sampled - free product								
	3/27/2014	1,800	14,000	2,300	17,000	<10	1,800	<10	0.17	
	10/21/2014	8,800	14,900	1,800	8,400	<100	440	<100	0.019 J	
04731-MW-3	10/25/1996	1,480	380	270	1,320	20	100	NA	0.6	
	3/18/1998	1,180	24.8	280	1,670	<10	148	NA	0.44	
	8/24/1999	2,100	<280	700	3,700	<280	290	NA	<280	
	3/28/2000	830	<50	<80	960	<90	45	NA	<60	
	8/28/2000	1,300	<75	160	1,500	<75	180	NA	<75	
	8/7/2002	100	<6.0	<8	49	<10	960	NA	<75	
	12/21/2006	9,700	18,000	800	17,000	<800	1,800	NA	0.070	
	8/24/2006	120	<2.0	4.1	61	<2	28	NA	0.023	
	3/18/2007	not sampled - free product								
	2/24/2009	82	<5	<5	83	<5	6.4	NA	0.041	
	4/12/2012	<2	<2	<2	<2	<2	<8	<2	0.22	
	3/27/2014	4	22	2	17	<1	2.1	<1	0.018 J	
	10/18/2014	840	0.9 J	5	430	2	80	8	0.087	
04731-MW-4	10/25/1996	40	<2	<2	31	<5	<5	NA	<0.1	
	3/18/1998	88.8	27.3	3.1	87.7	<10	<2	NA	0.02	
	8/24/1999	28	<5	<5	28	<5	<5	NA	<5	
	3/28/2000	23	1.7	<1	14	<1	<1	NA	1	
	8/28/2000	34	7.4	<1	28	<1	<1	NA	<1	
	8/7/2002	89	21	<6	73	<10	<10	NA	<5	
	12/21/2006	84	<1	1.1	<2	<1	3.1	NA	<0.020	
	8/24/2006	86	<1	1.7	<2	<1	<1	NA	<0.020	
	3/19/2007	3.5	<1	<1	<2	<1	<1	NA	<0.020	
	2/24/2009	<6	<6	<6	<6	<6	<6	NA	<0.021	
	4/12/2012	0.8 J	<1	<1	<1	<1	<4	<1	<0.028	
	3/27/2014	2	7	0.9 J	8	<1	<4	<1	<0.028	
	10/18/2014	0.8 J	<1	<1	0.8 J	<1	<4	<1	<0.028	
04731-MW-5	10/25/1996	18,800	26,000	1,800	18,800	1,800	610	NA	12.5	
	3/18/1998	13,800	28,800	2,270	12,000	1,880	402	NA	10.3	
	8/24/1999	18,000	30,000	2,000	11,000	<2,000	703	NA	<2,000	
	3/28/2000	20,000	28,000	2,200	13,000	<2,000	641	NA	<2,000	
	8/28/2000	27,000	37,000	2,600	14,000	<1,800	660	NA	<1,500	
	8/7/2002	16,000	26,000	1,800	12,000	<2,800	670	NA	<1,200	
	12/21/2005	2,800	8,800	880	5,100	<100	380	NA	2.6	
	8/24/2006	8,700	18,000	1,100	8,400	<800	<800	NA	6.9	
	3/19/2007	4,100	12,000	1,800	7,800	<500	1,100	NA	6.6	
	2/24/2009	6,800	8,800	880	8,200	<280	820	NA	4.2	
	4/12/2012	4,400	8,400	610	7,200	<10	380	<10	0.83	
	3/27/2014	not sampled - well inaccessible								
	10/18/2014	2,300	1,400	1,200	4,400	<3	430	<5	0.035	
HRSL	8	1,000	700	10,000	40	28	8	0.05		

**TABLE 6A
HISTORICAL GROUNDWATER QUALITY SUMMARY-
PETROLEUM CONSTITUENTS**

**FORMER CONOCO # 40018 (RM # 0276)
2502 US HIGHWAY 26 SOUTH
GREENWOOD, SOUTH CAROLINA
UST SITE # 04731**

Well ID	Sample Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MIBK	Naphthalene	1,2- Dichloroethane	Ethylene Dibromide	
04731-MW-8	10/25/1998	1,070	80	30	310	8	18	NA	<0.1	
	3/18/1999	1,830	679	133	845	173	37.3	NA	0.02	
	8/24/1999	3,900	340	<260	1,400	390	110	NA	<280	
	3/28/2000	6,800	840	<400	2,400	740	98	NA	<400	
	9/28/2000	6,800	1,400	<400	2,300	890	84	NA	<400	
	8/7/2002	1,900	<50	86	120	190	<10	NA	<80	
	12/21/2008	88	1.1	<1	4.1	12	3	NA	<0.02	
	8/24/2008	<1	<1	<1	<2	<1	<1	NA	<0.02	
	3/15/2007	<1	<1	<2	<2	1.2	<1	NA	<0.02	
	2/24/2008									
	4/12/2012									
	3/28/2014	7	<1	<1	<1	0.8 J	<4	<1	<1	<0.029
	10/21/2014	480	2	8	86	38	38	<1	<1	<0.028
04731-MW-7	10/25/1998	8,400	10,800	1,360	7,100	<280	612	NA	9.2	
	3/18/1999									
	8/24/1999	6,800	18,000	2,000	11,000	<750	807	NA	<780	
	3/28/2000	6,800	6,800	1,200	6,400	<400	820	NA	<400	
	9/28/2000	6,000	4,800	480	2,900	<250	480	NA	<280	
	8/7/2002	6,800	7,700	800	3,500	<500	780	NA	<280	
	12/21/2008	4,300	18,000	2,300	14,000	<280	1,000	NA	21	
	8/24/2008	4,400	18,000	2,300	14,000	<200	880	NA	14	
	3/15/2007	6,800	10,000	2,200	12,000	<200	710	NA	18	
	2/24/2008	6,400	12,000	1,800	10,400	<300	840	NA	38	
	4/12/2012	3,800	15,000	2,200	14,000	10 J	910	88	14	
	3/28/2014	700	3,800	2,100	12,000	<10	880	8 J	1.2	
	10/18/2014	830	4,100	2,380	12,000	3 J	820	10	0.78	
04731-MW-8	10/25/1998	<2	<2	<2	<2	<5	<5	NA	<0.1	
	3/18/1999	2.8	2.7	<2	19.2	<2	3.4	NA	0.02	
	8/24/1999	8.6	44	8.4	28	<4	<4	NA	<4	
	3/28/2000	<1	<1	<1	<1	<1	<1	NA	<1	
	9/28/2000	<1	<1	<1	<1	<1	<1	NA	<1	
	8/7/2002	<5	<5	<5	<10	<10	<10	NA	<5	
	12/22/2008	<1	2.1	<1	<2	180	<1	NA	<0.020	
	8/24/2008	<1	<1	<1	<2	85	<1	NA	<0.020	
	3/15/2007	<1	<1	<1	<2	25	<1	NA	<0.020	
	2/25/2009	<5	<5	<5	<5	<5	<5	NA	<0.021	
	4/12/2012									
	3/28/2014	<1	<1	<1	<1	<1	<4	<1	<1	<0.029
	10/21/2014	<1	<1	<1	<1	<1	<4	<1	<1	<0.028
04731-MW-9	10/25/1998	870	20	330	310	<80	178	NA	<0.1	
	3/18/1999	382	<2	220	145	<10	143	NA	0.02	
	8/24/1999	200	<10	180	<10	<10	130	NA	<10	
	3/28/2000	140	<10	73	11	<10	71	NA	<10	
	9/28/2000	87	<1	81	4.6	1.1	24	NA	<1	
	8/7/2002	<50	<50	<50	<100	<100	<10	NA	<5	
	12/21/2008	180	2.6	180	18	<2	200	NA	<0.020	
	8/24/2008	160	<2	97	<4	<2	230	NA	<0.020	
	3/15/2007	30	<1	20	<2	<1	80	NA	<0.020	
	2/25/2009	6.1	<6	<6	<6	<6	5.4	NA	<0.021	
	4/12/2012	2	<1	0.7 J	<1	<1	1.3	<1	<0.029	
	3/28/2014	33	<1	30	7	<1	80	<1	<0.029	
	10/21/2014	2	<1	1	<1	<1	1.3	<1	<0.028	
04731-MW-10	10/25/1998	<2	<2	<2	<2	<5	<5	NA	0.1	
	3/18/1999	<2	<2	<2	<2	<10	<2	NA	0.02	
	8/24/1999	1.1	2.7	<1	4.3	<1	<1	NA	<1	
	3/28/2000	1.1	<1	<1	<1	<1	<1	NA	<1	
	9/28/2000	<1	<1	<1	<1	<1	<1	NA	<1	
	8/7/2002	<5	<5	<5	<10	<10	<10	NA	<5.0	
	12/22/2008	<1	<1	<1	<2	<1	<1	NA	<0.02	
	8/24/2008	<1	<1	<1	<2	<1	<1	NA	<0.02	
	3/15/2007	<1	<1	<1	<2	<1	<1	NA	<0.02	
	2/24/2008	<5	<5	<5	<5	<5	<5	NA	<0.021	
	4/12/2012	38	4	2	34	4	3 J	<1	<0.029	
	3/28/2014	<1	<1	<1	<1	<1	<4	<1	<0.028	
	10/17/2014	<1	<1	<1	<1	<1	<4	<1	<0.028	
RMSL		6	1,000	700	10,000	40	25	8	8.06	

TABLE 5A
HISTORICAL GROUNDWATER QUALITY SUMMARY-
PETROLEUM CONSTITUENTS

FORMER CONOCO # 40019 (RM # 6278)
2502 US HIGHWAY 25 SOUTH
GREENWOOD, SOUTH CAROLINA
UST SITE # 04731

Well ID	Sample Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	Naphthalene	1,2- Dichloroethane	Ethylene Dibromide
04731-MW-11	3/18/1998	<2	<2	<2	<2	<10	<2	NA	0.02
	8/24/1998	<1	<1	<1	<1	<1	<1	NA	<1
	3/28/2000	<1	<1	<1	<1	<1	<1	NA	<1
	8/28/2000	<1	<1	<1	<1	<1	<1	NA	<1
	8/7/2002	<5	<5	<5	<10	<10	<10	NA	<5
	12/22/2003	<1	<1	<1	<2	<1	<1	NA	<0.02
	8/24/2006	<1	<1	<1	<2	<1	<1	NA	<0.02
	3/18/2007	<1	<1	<1	<2	<1	<1	NA	<0.02
	2/28/2009	<5	<5	<5	<5	<5	<5	NA	<0.02
	4/11/2012	<1	<1	<1	<1	<1	<4	<1	<0.028
	3/28/2014	<1	<1	<1	<1	<1	<4	<1	<0.028
10/21/2014	<1	<1	<1	<1	<1	<4	<1	<0.028	
04731-MW-12	3/18/1998	<2	<2	<2	<2	<10	<2	NA	NA
	8/24/1998	<1	<1	<1	<1	<1	<1	NA	NA
	3/28/2000	<1	<1	<1	<1	<1	<1	NA	NA
	8/28/2000	<1	<1	<1	<1	<1	<1	NA	NA
	8/7/2002				not sampled - well dry				
	12/22/2003	<1	<1	<1	<2	<1	<1	NA	NA
	8/24/2006	<1	<1	<1	<2	<1	<1	NA	NA
	3/18/2007	<1	<1	<1	<2	<1	<1	NA	NA
	2/24/2009				not sampled - well dry				
	4/12/2012				not sampled - well dry				
	3/28/2014	<1	<1	<1	<1	<1	<4	<1	<0.028
10/21/2014				not sampled - well dry					
04731-MW-13	8/7/2002	<5	<5	<5	<10	<10	<10	NA	NA
	12/22/2003	<1	<1	<1	<2	<1	<1	NA	<0.02
	8/24/2006	<1	<1	<1	<2	<1	<1	NA	<0.02
	3/18/2007	<1	<1	<1	<2	<1	<1	NA	<0.02
	2/28/2009	<5	<5	<5	<5	<5	<5	NA	<0.022
	4/11/2012	<1	<1	<1	<1	<1	<4	<1	<0.028
	3/28/2014	<1	<1	<1	<1	<1	<4	<1	<0.028
	10/21/2014	<1	<1	<1	<1	<1	<4	<1	<0.028
	8/7/2002	<5	<5	<5	<10	<10	<10	NA	NA
	12/22/2003	<1	<1	<1	<2	<1	<1	NA	<0.02
	8/24/2006	<1	<1	<1	<2	<1	<1	NA	<0.02
04731-MW-14	3/18/2007	<1	<1	<1	<2	<1	<1	NA	<0.02
	2/28/2009	<5	<5	<5	<5	<5	<5	NA	<0.021
	4/11/2012	<1	<1	<1	<1	<1	<4	<1	<0.028
	3/28/2014	<1	<1	<1	<1	<1	<4	<1	<0.028
	10/21/2014	<1	<1	<1	<1	<1	<4	<1	<0.028
	8/7/2002	<5	<5	<5	<10	<10	<10	NA	NA
	12/21/2003	<1	<1	<1	<2	<1	<1	NA	<0.02
	8/24/2006	<1	<1	<1	<2	<1	<1	NA	<0.02
	3/18/2007	<1	<1	<1	<2	<1	<1	NA	<0.02
	2/24/2009	<5	<5	<5	<5	<5	<5	NA	<0.021
	4/12/2012	<1	<1	<1	<1	<1	<4	<1	<0.028
04731-MW-15	3/27/2014	<1	<1	<1	<1	<1	<4	<1	<0.028
	10/21/2014	<1	<1	<1	<1	<1	<4	<1	<0.028
	8/7/2002	<5	<5	<5	<10	<10	<10	NA	NA
	12/22/2003	<1	<1	<1	<2	<1	<1	NA	<0.02
	8/24/2006	<1	<1	<1	<2	<1	<1	NA	<0.02
	3/18/2007	<1	<1	<1	<2	<1	<1	NA	<0.02
	2/24/2009	<5	<5	<5	<5	<5	<5	NA	<0.021
	4/12/2012	<1	<1	<1	<1	<1	<4	<1	<0.028
	3/27/2014	<1	<1	<1	<1	<1	<4	<1	<0.028
	10/21/2014	<1	<1	<1	<1	<1	<4	<1	<0.028
	8/7/2002	<5	<5	<5	<10	<10	<10	NA	NA
04731-MW-16	12/22/2003	<1	<1	<1	<2	<1	<1	NA	<0.02
	8/24/2006	<1	<1	<1	<2	<1	<1	NA	<0.02
	3/18/2007	<1	<1	<1	<2	<1	<1	NA	<0.02
	2/24/2009	<5	<5	<5	<5	<5	<5	NA	<0.021
	4/11/2012	12	1	0.8J	13	<1	1J	<1	<0.028
	3/28/2014	<1	<1	<1	<1	<1	<4	<1	<0.028
	10/17/2014	<1	<1	<1	<1	<1	<4	<1	<0.028
	12/21/2003	18,000	48,000	2,000	14,000	<500	1,800	NA	0.083
	8/24/2006	4,200	22,000	2,200	12,000	<500	<900	NA	0.027
	3/18/2007	3,300	17,000	1,700	9,600	<500	<900	NA	<0.02
	2/24/2009	8,900	28,000	1,600	12,000	<250	400	NA	<0.021
4/13/2012	11,000	48,000	3,200	18,000	<100	460	<100	0.06	
3/28/2014	4,400	22,000	1,800	13,000	<20	470	<20	0.018 J	
10/21/2014	8,800	36,000	3,300	18,800	<100	490	<100	0.11 J	
RRSL		8	1,000	700	10,000	40	25	5	0.05

TABLE 5A
 HISTORICAL GROUNDWATER QUALITY SUMMARY-
 PETROLEUM CONSTITUENTS

FORMER CONOCO # 40019 (RM # 6276)
 2502 US HIGHWAY 25 SOUTH
 GREENWOOD, SOUTH CAROLINA
 UST SITE # 04731

Well ID	Sample Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	Naphthalene	1,2- Dichloroethane	Ethylene Dibromide	
04731-MW-18	12/22/2005	<1	<1	<1	<2	<1	<1	NA	<0.02	
	8/24/2008	<1	<1	<1	<2	<1	<1	NA	<0.02	
	3/18/2007	<1	<1	<1	<2	<1	<1	NA	<0.02	
	2/28/2009	<8	<8	<8	<8	<8	<8	NA	<0.021	
	4/11/2012	<1	<1	<1	<1	<1	<4	<1	<0.029	
	3/28/2014	<1	<1	<1	<1	<1	<4	<1	<0.029	
	10/21/2014	<1	<1	<1	<1	<1	<4	<1	<0.029	
04731-MW-19	8/24/2008	22,000	24,000	2,400	11,000	4,200	<800	NA	0.32	
	3/18/2007	1,200	3,800	2,000	11,000	120	160	NA	<0.02	
	2/24/2009	11,000	12,000	2,100	8,800	720	440	NA	<0.021	
	4/13/2012	11,000	23,000	2,800	13,000	740	330 J	<100	0.29	
	3/28/2014	190	89	300	1,500	8	390	<1	<0.029	
	10/21/2014	8,800	18,000	3,100	14,000	840	440	<100	<0.029	
	8/24/2008	18,000	48,000	3,100	18,000	<1,000	<1,000	NA	0.27	
3/18/2007	8,800	48,000	4,000	18,000	<1,000	<1,000	NA	0.12		
2/24/2009	28,000	48,000	3,800	18,600	<1,000	<1,000	NA	0.9		
4/12/2012	not sampled - free product									
3/28/2014	8,800	31,000	3,100	18,000	30	790	<10	<0.029		
10/18/2014	8,800	47,000	4,100	21,000	<100	840	<100	<0.33		
04731-MW-21	8/24/2008	22,000	36,000	2,400	13,000	<1,000	<1,000	NA	8.2	
	3/18/2007	28,000	47,000	3,000	18,000	<1,000	<1,000	NA	9.0	
	2/24/2009	14,000	26,000	1,800	11,800	<500	840	NA	8.8	
	4/12/2012	18,000	<100	38,000	18,000	310	870	<100	4.5	
	3/27/2014	8,800	17,000	1,300	8,200	140	850	<20	1.9	
	10/18/2014	8,700	27,000	2,200	14,000	289	890	<100	4.4	
	8/24/2008	11,000	12,000	970	5,400	<500	<500	NA	130	
3/18/2007	18,000	21,000	2,000	11,000	<500	<500	NA	820		
2/24/2009	10,000	7,400	1,000	5,800	<250	810	NA	180		
4/12/2012	8,600	8,600	810	5,400	48	840	820	98		
3/28/2014	11,000	9,800	950	6,400	21	890	360	87		
10/18/2014	18,000	19,000	1,700	8,400	<100	810	810	140		
04731-MW-23	8/24/2008	12,000	3,500	880	5,800	<200	430	NA	8.6	
	3/18/2007	7,100	2,800	570	3,500	<200	<200	NA	83	
	2/24/2009	10,000	<250	880	3,200	<200	480	NA	2.8	
	4/12/2012	not sampled - well dry								
	3/28/2014	7,700	1,400	880	2,800	78	390	320	3.1	
10/18/2014	8,700	2,700	2,200	9,400	80	880	180	7		
04731-DW-1	8/7/2001	28,000	20,000	800	3,200	3,100	87	NA	NA	
	12/21/2005	31,000	38,000	1,000	7,400	1,800	1,800	NA	0.13	
	8/24/2008	38,000	38,000	1,800	8,200	1,300	<900	NA	0.12	
	11/22/2008	40,000	41,000	2,200	12,200	1,700	310	NA	0.02	
	3/18/2007	20,000	28,000	1,400	7,800	<500	<500	NA	0.15	
	2/29/2008	32,000	28,000	1,700	9,900	820	<900	NA	<0.021	
	4/13/2012	40,000	41,000	1,800	11,000	330	280 J	<100	0.086	
	3/28/2014	22,000	27,000	1,400	7,100	240	200	<80	<0.12	
	10/20/2014	28,000	39,000	1,800	10,000	180 J	210 J	<200	<0.12	
	10/8/2002	29	<5	<5	<10	110	<5	NA	<10	
04731-DW-2	12/21/2005	<8	<8	<8	<10	100	<8	NA	<0.02	
	8/24/2008	480	<80	<50	<100	1,300	<80	NA	0.023	
	11/22/2008	480	<8	<5	118	1,100	7.2	NA	<0.02	
	3/18/2007	82	<8	<5	<10	380	<8	NA	<0.02	
	2/28/2009	14	<8	<5	<8	840	<8	NA	<0.021	
	4/13/2012	240	7	<2	8	480	3 J	<2	<0.029	
	3/31/2014	810	<2	<2	7	430	7 J	7	<0.029	
	10/18/2014	3,800	<10	<10	45	1,500	21 J	<10	0.012 J	
	04731-DW-3	12/21/2005	880	34	15	140	83	30	NA	0.81
		8/24/2008	26,000	3,800	1,800	8,100	2,600	<900	NA	11
11/22/2008		24,000	4,100	1,300	7,700	2,700	840	NA	1	
3/18/2007		14,000	3,000	880	4,800	880	<800	NA	14	
2/28/2009		23,000	8,700	1,800	8,700	2,300	<500	NA	18	
4/12/2012		27,000	18,000	1,800	9,800	2,900	380	300	8.7	
3/31/2014		27,000	17,000	1,800	8,100	1,800	440	340	7.4	
10/20/2014		28,000	19,000	2,000	11,000	1,700	420	340	8.1	
RESL		8	1,500	700	10,000	40	28	8	0.06	

TABLE 5A
 HISTORICAL GROUNDWATER QUALITY SUMMARY-
 PETROLEUM CONSTITUENTS

FORMER CONOCO # 40019 (RM # 6276)
 2502 US HIGHWAY 25 SOUTH
 GREENWOOD, SOUTH CAROLINA
 UST SITE # 04731

Well ID	Sample Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	Naphthalene	1,2- Dichloroethane	Ethylene Dibromide
04731-DW-4	12/21/2003	1,100	<20	<20	<40	28	84	NA	0.023
	8/24/2008	2,000	<50	<50	<100	<50	<50	NA	<0.02
	11/2/2008	1,800	6.3	3.1	25.8	85	120	NA	0.03
	3/18/2007	80	<2.8	<2.5	<5	32	12	NA	<0.02
	2/28/2008	330	<25	<25	<25	<25	33	NA	<0.021
	4/12/2012	9	<1	<1	0.5 J	32	7	320	<0.029
	3/31/2014	39	83	18	87	61	9 J	430	<0.028
10/18/2014	<10	<10	<10	<10	110	<40	380	<0.028	
04731-DW-5	8/24/2008	1,200	<25	34	170	31	<25		0.031
	11/3/2008	1,800	4.6	100	850	71	28		0.02
	3/15/2007	2,400	<25	85	720	81	<25		0.044
	2/24/2008	2,300	<100	<100	870	<100	<100		<0.021
	4/11/2012	3,800	<10	31	1,100	84	87	<10	<0.029
	3/28/2014	3,200	20	110	1,200	76	110	<5	<0.028
	10/20/2014	2,800	18	150	1,300	84	110	<10	0.028 J
04731-DW-8	8/24/2008	2,000	<25	<25	<50	1,400	<25	NA	0.072
	11/3/2008	2,000	5	8	84	1,400	45	NA	0.02
	3/15/2007	3,000	<100	<100	<200	3,000	<100	NA	0.077
	2/24/2008	2,400	<50	<50	<50	3,900	<50	NA	<0.021
	4/11/2012	1,300	94	24	82	10,000	15 J	8	0.013 J
	3/27/2014	180	21	<10	9 J	8,400	<40	<10	<0.028
	10/21/2014	1,200	180	26	86	11,000	<80	<20	0.088
04731-DW-7	8/24/2008	710	<10	<10	<20	840	<10	NA	0.036
	11/3/2008	1,400	5	5	18.3	1,100	38	NA	0.02
	3/15/2007	1,800	<50	<50	<100	1,800	<50	NA	0.029
	2/24/2008	810	<100	<100	<100	3,900	<100	NA	<0.021
	4/11/2012	38	4	2	24	8	3 J	<1	<0.028
	3/28/2014	830	38	11	38	2,800	5	0.8 J	<0.029
	10/20/2014	680	88	8 J	37	8,100	<40	<10	<0.029
04731-DW-8	3/15/2007	370	420	80	300	230	15	NA	<0.02
	2/25/2009	1,300	35	<5	175	340	28	NA	<0.021
	4/13/2012	780	4	<2	110	350	18	<2	<0.029
	3/31/2014	3,700	3	0.8 J	240	970	88	<1	<0.029
	10/21/2014	3,000	<10	<10	200	800	66	<10	<0.028
	3/15/2007	<1	<1	<1	<2	<1	<1	NA	<0.02
	2/24/2009	<3	<3	<3	<3	<3	<3	NA	<0.021
04731-DW-9	4/12/2012	2	<1	<1	3	<1	<4	<1	<0.029
	3/28/2014	19	12	10	48	<1	8	<1	<0.029
	10/17/2014	<1	<1	<1	<1	<1	<4	<1	<0.029
	3/15/2007	<1	<1	<1	<2	1.8	<1	NA	<0.02
	2/24/2009	<3	<3	<3	<3	9.6	<3	NA	<0.021
	4/12/2012	1	<1	<1	2	38	<4	<1	<0.028
	3/27/2014	<1	<1	<1	<1	87	<4	<1	<0.029
04731-DW-10	10/17/2014	<1	<1	<1	<1	68	<4	<1	<0.029
	2/24/2009	8,600	<100	<100	1,180	380	110	NA	1.5
	4/13/2012	10,000	430	120	1,700	400	260	160	0.27
	3/31/2014	13,000	37	100	1,800	470	380	180	0.47
	10/18/2014	15,000	<20	71	1,700	490	420	110	0.19
	2/24/2008	1,200	<3	<3	<3	180	68	NA	0.036
	4/13/2012	870	<2	<2	<2	100	62	41	<0.029
04731-DW-12	3/31/2014	370	<2	<2	3	48	23	23	<0.029
	10/18/2014	430	<3	<3	<3	88	22	38	<0.029
	2/24/2008	<3	<3	<3	<3	<3	<3	NA	<0.021
	4/12/2012	<1	1 J	<1	2	<1	<4	<1	<0.029
	3/28/2014	2	3	3	12	<1	3 J	<1	<0.029
	10/20/2014	<1	<1	<1	<1	<1	<4	<1	<0.029
	2/24/2008	<3	<3	<3	<3	<3	<3	NA	<0.021
04731-DW-14	4/12/2012	<1	<1	<1	<1	<1	<4	<1	<0.029
	3/31/2014	<1	<1	<1	<1	<1	<4	<1	<0.029
	10/21/2014	<1	<1	<1	<1	<1	<4	<1	<0.029
MSL		5	1,000	700	10,000	40	25	5	0.05

**TABLE 5A
HISTORICAL GROUNDWATER QUALITY SUMMARY-
PETROLEUM CONSTITUENTS**

**FORMER CONOCO # 40019 (RM # 6270)
2502 US HIGHWAY 25 SOUTH
GREENWOOD, SOUTH CAROLINA
UST SITE # 04731**

Well ID	Sample Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	Naphthalene	1,2- Dichloroethane	Ethylene Dibromide
04731-DW-15	10/19/2014	<1	<1	<1	<1	41	<4	2	<0.029
04731-DW-16	10/18/2014	<1	<1	<1	<1	<1	<4	<1	<0.029
04731-DW-17	10/17/2014	47	<5	<5	<5	3,600	<20	8	<0.028
04731-DW-18	10/27/2016	0.8 J	<1	<1	<1	1,800	<4	22	<0.028
04731-DW-19	10/21/2014	<1	<1	<1	<1	<1	<4	0.5 J	<0.029
04731-DW-20	10/21/2014	<1	<1	<1	<1	<1	<4	<1	<0.029
04731-DW-21	10/20/2014	<1	<1	<1	<1	<1	<4	<1	<0.029
	RBSL	6	1,000	700	10,000	40	25	6	0.95

Notes:

- | | |
|--|--|
| 1. Units = micrograms per liter (µg/L) | 5. Bold concentrations equal or exceed the corresponding RBSL. |
| 2. MTBE = Methyl Tertiary Butyl Ether | 6. NA = Not Analyzed or Not Available |
| 3. *c* = Not detected at or above the laboratory reporting limit | |
| 4. RBSL = Risk Based Screening Level | |

**TABLE 5B
HISTORICAL GROUNDWATER QUALITY SUMMARY-
OXYGENATE COMPOUNDS**

**FORMER CONOCO # 40019 (RM # 6279)
2502 US HIGHWAY 25 SOUTH
GREENWOOD, SOUTH CAROLINA
UST SITE # 04731**

Well ID	Sample Date	tert-Amyl Methyl Ether	tert-Amyl Alcohol	tert-Butyl Alcohol	tert-Butyl Formate	Di-Isopropyl Ether	Ethanol	Ethyl tert-Butyl Ether	3,3-Dimethyl-1-butanol
04731-MW-1	4/12/2012	<5	1,000	120	<25	<5	<1,300	<5	<500
	3/27/2014	<10	<500	53	<90	<10	<2,500	<10	<1,000
	10/16/2014	<10	<500	49 J	<50	<10	<2,500	<10	<1,000
04731-MW-2	4/12/2012	not sampled-free product							
	3/27/2014	<10	<500	<50	<90	<10	<2,500	<10	<1,000
	10/21/2014	<100	6,800	290 J	<500	76 J	<25,000	<100	<10,000
04731-MW-3	4/12/2012	<2	<100	<10	<10	<2	<500	<2	<200
	3/27/2014	<1	<50	<5	<9	<1	<250	<1	<100
	10/16/2014	<1	81	29	<5	4	<250	<1	<100
04731-MW-4	4/13/2012	<1	<50	15	<5	<1	<250	<1	<100
	3/27/2014	<1	<50	11	<9	<1	<250	<1	<100
	10/16/2014	<1	<50	15	<5	<1	<250	<1	<100
04731-MW-5	4/12/2012	<10	2,300	65	<50	<10	<2,500	<10	<1,000
	3/27/2014	not sampled-well inaccessible							
	10/16/2014	<5	2,300	41	<25	<5	<1,300	<5	<500
04731-MW-6	4/12/2012	not sampled-well inaccessible							
	3/26/2014	<1	<50	<5	<9	<1	<250	<1	<100
	10/21/2014	<1	150	36	<5	48	<250	<1	<100
04731-MW-7	4/12/2012	<20	2,200	580	<100	47	<5,000	<20	<2,000
	3/26/2014	<10	<500	38 J	<90	<10	<2,500	<10	<1,000
	10/16/2014	<5	70 J	54	<25	3 J	<1,300	<5	<500
04731-MW-8	4/12/2012	not sampled-well not found							
	3/26/2014	<1	<50	<5	<9	<1	<250	<1	<100
	10/21/2014	<1	<50	<5	<5	<1	<250	<1	<100
04731-MW-9	4/11/2012	<1	130	28	<5	4	<250	<1	<100
	3/26/2014	<1	450	58	<9	7	<250	<1	<100
	10/21/2014	<1	410	47	<5	5	<250	<1	<100
04731-MW-10	4/11/2012	<1	<50	<5	<5	1	<250	<1	<100
	3/26/2014	<1	<50	<5	<9	<1	<250	<1	<100
	10/17/2014	<1	<50	<5	<5	<1	<250	<1	<100
04731-MW-11	4/11/2012	<1	<50	<5	<5	<1	<250	<1	<100
	3/26/2014	<1	<50	<5	<9	<1	<250	<1	<100
	10/21/2014	<1	<50	<5	<5	<1	<250	<1	<100
04731-MW-12	4/12/2012	not sampled-well dry							
	3/26/2014	<1	<50	<5	<9	<1	<250	<1	<100
	10/21/2014	not sampled-well dry							
04731-MW-13	4/11/2012	<1	<50	<5	<5	<1	<250	<1	<100
	3/26/2014	<1	<50	<5	<9	<1	<250	<1	<100
	10/21/2014	<1	<50	<5	<5	<1	<250	<1	<100
04731-MW-14	4/11/2012	<1	<50	<5	<5	<1	<250	<1	<100
	3/26/2014	<1	<50	<5	<9	<1	<250	<1	<100
	10/21/2014	<1	<50	<5	<5	<1	<250	<1	<100
04731-MW-15	4/12/2012	<1	<50	<5	<5	<1	<250	<1	<100
	3/27/2014	<1	<50	<5	<9	<1	<250	<1	<100
	10/21/2014	<1	<50	<5	<5	<1	<250	<1	<100
RBSL		128	240	1,400	-	150	10,000	47	-

**TABLE 5B
HISTORICAL GROUNDWATER QUALITY SUMMARY-
OXYGENATE COMPOUNDS**

**FORMER CONOCO # 40019 (RM # 6279)
2502 US HIGHWAY 25 SOUTH
GREENWOOD, SOUTH CAROLINA
UST SITE # 04731**

Well ID	Sample Date	tert-Amyl Methyl Ether	tert-Amyl Alcohol	tert-Butyl Alcohol	tert-Butyl Formate	Di-Isopropyl Ether	Ethanol	Ethyl tert-Butyl Ether	3,3-Dimethyl-1-butanol
04731-MW-16	4/11/2012	<1	<50	<5	<5	<1	<250	<1	<100
	3/26/2014	<1	<50	<5	<5	<1	<250	<1	<100
	10/17/2014	<1	<50	<5	<5	<1	<250	<1	<100
04731-MW-17	4/13/2012	<100	3,300 J	<500	<500	<100	<25,000	<100	<10,000
	3/26/2014	<20	2,100	320	<180	15 J	<5,000	<20	<2,000
	10/21/2014	<100	3,000 J	<500	<500	<100	<25,000	<100	<10,000
04731-MW-18	4/11/2012	<1	<50	<5	<5	<1	<250	<1	<100
	3/26/2014	<1	<50	<5	<5	<1	<250	<1	<100
	10/21/2014	<1	<50	<5	<5	<1	<250	<1	<100
04731-MW-19	4/13/2012	<100	4,300 J	750	<500	720	<25,000	<100	<10,000
	3/26/2014	<1	30 J	11	<5	7	<250	<1	<100
	10/21/2014	<100	3,400 J	630	<500	510	<25,000	<100	<10,000
04731-MW-20	4/12/2012	not sampled-free product							
	3/26/2014	<10	1,700	270	<90	43	<2,500	<10	<1,000
	10/16/2014	<100	2,200 J	260 J	<500	51 J	<25,000	<100	<10,000
04731-MW-21	4/12/2012	<100	12,000	830	<500	<100	<25,000	<100	<10,000
	3/27/2014	<20	18,000	2,000	<180	15 J	<5,000	<20	<2,000
	10/16/2014	<100	25,000	2,200	<500	<100	<25,000	<100	<10,000
04731-MW-22	4/12/2012	<20	23,000	550	<100	580	<5,000	<20	<2,000
	3/26/2014	<20	12,000	390	<180	250	<5,000	<20	<2,000
	10/16/2014	<100	33,000	690	<500	650	<25,000	<100	<10,000
04731-MW-23	4/12/2012	not sampled-well dry							
	3/26/2014	<10	16,000	1,600	<90	140	<2,500	<10	<1,000
	10/16/2014	<50	4,000	970	<250	30 J	<13,000	<50	<5,000
04731-DW-1	4/13/2012	<100	<5,000	1,280	<500	950	<25,000	<100	<10,000
	3/26/2014	<50	3,800	800	<450	710	<13,000	<50	<5,000
	10/20/2014	<200	5,100 J	830 J	<1,000	570	<50,000	<200	<20,000
04731-DW-2	4/13/2012	<2	35 J	65	<10	73	<500	<2	<200
	3/31/2014	<2	48 J	180	<18	120	<500	<2	<200
	10/16/2014	5 J	480 J	360	<50	340	<2,500	<10	<1,000
04731-DW-3	4/12/2012	<50	27,000	3,000	<250	2,400	<13,000	<50	<5,000
	3/31/2014	<20	30,000	2,900	<1,800	2,500	<5,000	<20	<2,000
	10/20/2014	<100	32,000	2,900	<500	2,100	<25,000	<100	<10,000
04731-DW-4	4/12/2012	<1	9,700	750	<5	240	<250	<1	<100
	3/31/2014	<5	17,000	1,100	<45	420	<1,300	<5	<500
	10/16/2014	<10	14,000	970	<50	350	<2,500	<10	<1,000
04731-DW-5	4/11/2012	<10	2,300	510	15 J	180	<2,500	<10	<1,000
	3/26/2014	<5	2,800	520	<45	180	<1,300	<5	<500
	10/20/2014	<10	2,300	400	<50	130	<2,500	<10	<1,000
04731-DW-6	4/11/2012	12	6,300	3,600	<25	880	<1,300	<5	<500
	3/27/2014	<10	3,200	3,000	<90	840	<2,500	<10	<1,000
	10/21/2014	15 J	11,000	4,200	<100	1,200	<5,000	<20	<2,000
04731-DW-7	4/11/2012	<1	<50	<5	<5	2	<250	<1	<100
	3/26/2014	<1	3,900	1,100	<9	270	<250	<1	<100
	10/20/2014	16	8,900	3,500	<50	1,000	<2,500	<10	<1,000
RBSL		128	240	1,400	-	150	10,000	47	-

**TABLE 5B
HISTORICAL GROUNDWATER QUALITY SUMMARY-
OXYGENATE COMPOUNDS**

**FORMER CONOCO # 40019 (RM # 6279)
2502 US HIGHWAY 25 SOUTH
GREENWOOD, SOUTH CAROLINA
UST SITE # 04731**

Well ID	Sample Date	tert-Amyl Methyl Ether	tert-Amyl Alcohol	tert-Butyl Alcohol	tert-Butyl Formate	Di-Isopropyl Ether	Ethanol	Ethyl tert-Butyl Ether	3,3-Dimethyl-1-butanol
04731-DW-8	4/13/2012	2 J	690	190	5 J	300	<500	<2	<200
	3/31/2014	8	2,200	560	9	760	<250	<1	<100
	10/21/2014	<10	2,000	500	<50	630	<2,500	<10	<1,000
04731-DW-9	4/12/2012	<1	<50	<5	<5	<1	<250	<1	<100
	3/28/2014	<1	<50	<5	9	<1	<250	<1	<100
	10/17/2014	<1	<50	<5	<5	<1	<250	<1	<100
04731-DW-10	4/12/2012	<1	<50	<5	<5	<1	<250	<1	<100
	3/27/2014	<1	<50	<5	9	<1	<250	<1	<100
	10/17/2014	<1	<50	<5	<5	<1	<250	<1	<100
04731-DW-11	4/13/2012	<20	10,000	2,500	<100	330	<5,000	<20	<2,000
	3/31/2014	7	15,000	3,100	9	320	<250	<1	<100
	10/15/2014	<20	17,000	2,900	<100	160	<5,000	<20	<2,000
04731-DW-12	4/13/2012	<2	490	650	<10	140	<500	<2	<200
	3/31/2014	<2	1,000	550	<18	80	<500	<2	<200
	10/16/2014	<5	530	620	<25	120	<1,300	<5	<500
04731-DW-13	4/12/2012	<1	<50	<5	<5	<1	<250	<1	<100
	3/28/2014	<1	<50	<5	9	<1	<250	<1	<100
	10/20/2014	<1	<50	3 J	<5	<1	<250	<1	<100
04731-DW-14	4/12/2012	<1	<50	<5	<5	<1	<250	<1	<100
	3/31/2014	<1	<50	<5	9	<1	<250	<1	<100
	10/21/2014	<1	<50	<5	<5	<1	<250	<1	<100
04731-DW-15	10/15/2014	<1	<50	7	<5	12	<250	<1	<100
04731-DW-16	10/16/2014	<1	<50	<5	<5	<1	<250	<1	<100
04731-DW-17	10/17/2014	6	2,600	1,400	<25	430	<1,300	<5	<500
04731-DW-18	1/27/2015	4	810	1,200	<5	370	<250	<1	<100
04731-DW-19	10/21/2014	<1	<50	<5	<5	<1	<250	<1	<100
04731-DW-20	10/21/2014	<1	<50	<5	<5	<1	<250	<1	<100
04731-DW-21	10/20/2014	<1	<50	<5	<5	<1	<250	<1	<100
RBSL		128	240	1,400	-	150	10,000	47	-

Notes:

1. Units = micrograms per liter (µg/L)
2. Bold concentrations equal or exceed the corresponding RBSL
3. "<" = Not detected at or above the laboratory reporting limit
4. RBSL = Risk Based Screening Level

**TABLE 8
WATER SUPPLY WELL ANALYTICAL RESULTS
FORMER CONCO # 4079 (RM # 8279)
2002 US HIGHWAY 29 SOUTH
GREENWOOD, SOUTH CAROLINA
WST SITE # 04731**

Well ID	Sample Date	Residuals	Barium	Cadmium	Copper	Iron	Manganese	Nickel	Lead	Mercury	Selenium	Silver	Sulfate	Turbidity	Total Hardness	Total Solids	Urea Nitrogen	Vanadium	Zinc
04731-Pittman Well (2524 Hwy 28 S)	1/15/2008	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	3/18/2007	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	3/28/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	1/27/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
04731-Pittman Well (2524 Hwy 28 S)	1/17/2008	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	3/18/2007	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	3/28/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	1/27/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
04731-Pittman Well (2528 Hwy 28 S)	3/28/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	1/27/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	3/18/2007	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	1/27/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
04731-Church Well-1 (2807 Hwy 28 S)	1/27/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	4/13/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	3/28/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	4/13/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
04731-Church Well-2 (2520 Hwy 28 S)	1/27/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	4/13/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	3/28/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	4/13/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
04731-Hickox Well (2613 Hwy 28 S)	1/27/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	4/13/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	3/28/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	4/13/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
04731-Norman Well (2617 Hwy 28 S)	1/27/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	4/13/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	3/28/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	4/13/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Note:
 1. Units = micrograms per liter (µg/L)
 2. MRLC = Maximum Contaminant Level Goal
 3. * = Not Detected at or above the laboratory reporting limit
 4. MSL = Maximum Soluble Level
 5. Field concentrations equal or exceed the corresponding MRLC

Table 2
Groundwater Analytical Data Summary-
Petroleum Constituents
EDB Resampling
Former Conoco # 40019 (RM 0278)
UST Site # 04731
Greenwood, SC

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	1,2-Dichlorobenzene	Ethylene Dibromide	
04731-MW-1	10/28/1998	4,100	5,000	780	6,800	300	388	NA	0.4	
	3/18/1999	1,248	1,220	1,640	7,480	140	400	NA	NA	
	8/24/1999	3,408	2,300	1,180	6,800	600	617	NA	NA	
	8/28/2000	not sampled - free product								
	8/28/2000	not sampled - free product								
	8/7/2002	not sampled - free product								
	12/21/2005	870	170	1,600	3,800	<50	780	NA	<0.020	
	8/24/2006	848	880	808	2,100	17	900	NA	<0.020	
	3/18/2007	380	110	1,760	1,300	<50	880	NA	<0.02	
	2/28/2008	380	140	370	1,080	28	800	NA	<0.021	
	4/12/2012	340	88	340	420	53	340	<6	<0.028	
	3/27/2014	188	410	1,700	1,300	18	780	<10	<0.028	
	10/18/2014	160	130	1,900	370	<10	880	<10	<0.03	
4/18/2015	NA	NA	NA	NA	NA	NA	NA	<0.028		
04731-MW-2	10/28/1998	30,800	27,000	1,800	30,800	2,880	362	NA	<0.1	
	3/18/1999	8,180	8,880	2,108	10,250	<1,000	633	NA	1	
	8/24/1999	83,800	48,000	<2,500	14,600	12,080	721	NA	<2,800	
	8/28/2000	not sampled - free product								
	8/28/2000	not sampled - free product								
	8/7/2002	not sampled - free product								
	12/21/2005	480	<6	8.1	850	<6	140	NA	0.26	
	8/24/2006	26,000	22,000	1,800	12,800	<1,000	<1,000	NA	0.1	
	3/18/2007	1,800	2,300	880	4,900	<50	380	NA	<0.02	
	2/28/2008	not sampled - free product								
	4/12/2012	not sampled - free product								
	3/27/2014	1,800	14,000	2,380	17,600	<10	1,800	<10	0.17	
	10/21/2014	6,800	14,000	1,380	8,400	<100	488	<100	0.018 J	
4/20/2015	NA	NA	NA	NA	NA	NA	NA	0.082		
04731-MW-3	10/28/1998	1,450	380	270	1,320	20	100	NA	0.6	
	3/18/1999	1,180	24.8	280	1,670	<10	148	NA	0.44	
	8/24/1999	2,100	<280	300	3,700	<880	388	NA	<280	
	8/28/2000	880	<80	<80	880	<80	43	NA	<80	
	8/28/2000	1,300	<78	180	1,800	<78	180	NA	<78	
	8/7/2002	100	<6.0	<6	48	<10	888	NA	<78	
	12/21/2005	8,700	18,000	808	17,000	<500	1,308	NA	0.820	
	8/24/2006	130	<2.0	4.1	61	<2	29	NA	0.023	
	3/18/2007	not sampled - free product								
	2/28/2008	52	<6	<6	83	<6	9.4	NA	0.061	
	4/12/2012	<2	<2	<2	<2	<2	<6	<2	0.22	
	3/27/2014	4	22	2	17	<1	2.1	<1	0.018 J	
	10/18/2014	288	0.8 J	6	430	2	80	6	0.067	
4/18/2015	NA	NA	NA	NA	NA	NA	NA	<0.028		
04731-MW-4	10/28/1998	48	<2	<2	31	<6	<6	NA	<0.1	
	3/18/1999	88.8	27.3	3.1	87.7	<10	<2	NA	0.02	
	8/24/1999	38	<6	<6	28	<6	<6	NA	<6	
	8/28/2000	22	1.7	<1	14	<1	<1	NA	1	
	8/28/2000	34	7.4	<1	28	<1	<1	NA	<1	
	8/7/2002	88	21	<6	73	<10	<10	NA	<6	
	12/21/2005	84	<1	1.1	<2	<1	3.1	NA	<0.020	
	8/24/2006	68	<1	1.7	<2	<1	<1	NA	<0.020	
	3/18/2007	3.5	<1	<1	<2	<1	<1	NA	<0.020	
	2/28/2008	<6	<6	<6	<6	<6	<6	NA	<0.021	
	4/13/2012	0.8 J	<1	<1	<1	<1	<6	<1	<0.028	
	3/27/2014	2	7	0.8 J	6	<1	<1	<1	<0.028	
	10/18/2014	0.8 J	<1	<1	0.8 J	<1	<1	<1	<0.028	
4/18/2015	NA	NA	NA	NA	NA	NA	NA	<0.028		
04731-MW-5	10/28/1998	13,880	38,000	1,800	18,800	1,800	670	NA	12.8	
	3/18/1999	12,880	38,800	2,200	12,800	1,888	402	NA	10.8	
	8/24/1999	18,000	38,800	2,000	11,500	<2,000	700	NA	<2,000	
	8/28/2000	20,080	38,800	2,380	12,800	<2,000	811	NA	<2,000	
	8/28/2000	27,080	37,800	2,880	14,800	<1,500	860	NA	<1,500	
	8/7/2002	18,080	25,000	1,880	12,800	<2,800	676	NA	<1,200	
	12/21/2005	2,880	6,800	880	8,100	<100	380	NA	2.8	
	8/24/2006	6,700	18,800	1,180	6,400	<600	<600	NA	6.8	
	3/18/2007	4,100	12,800	1,880	7,800	<600	1,108	NA	6.8	
	2/24/2008	6,808	8,880	888	8,200	<280	630	NA	4.2	
	4/12/2012	4,400	6,480	678	7,200	<10	388	<10	0.83	
	3/27/2014	not sampled - free product								
	10/18/2014	2,380	1,488	1,308	4,400	<6	488	<6	0.038	
4/18/2015	NA	NA	NA	NA	NA	NA	NA	<0.18		
MSL		6	1,000	708	16,800	48	28	6	0.85	

Table 2
Groundwater Analytical Data Summary-
Petroleum Constituents
EDB Resampling
Former Conoco # 40019 (RM 6270)
UST Site # 04731
Greenwood, SC

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Naphthalenes	MTBE	Naphthalene	1,4-Dichlorobenzene	Ethylene Dichloride	
04731-MW-4	10/28/1998	1,878	80	30	310	8	18	NA	<0.1	
	3/19/1999	1,838	878	133	848	173	27.3	NA	0.02	
	8/24/1999	3,880	340	<80	1,400	280	110	NA	<20	
	3/28/2000	5,980	840	<400	2,400	740	88	NA	<400	
	8/28/2000	5,980	1,488	<400	2,300	888	84	NA	<400	
	8/7/2002	1,800	<50	88	120	198	<10	NA	<80	
	12/21/2005	88	1.1	<1	4.1	12	3	NA	<0.02	
	8/24/2006	<1	<1	<1	<2	<1	<1	NA	<0.02	
	3/18/2007	<1	<1	<2	<2	1.2	<1	NA	<0.02	
	2/24/2009	not sampled-well inaccessible								
	4/12/2012	not sampled-well inaccessible								
	3/28/2014	7	<1	<1	<1	0.8 J	<4	<1	<0.028	
	10/21/2014	880	2	8	88	38	28	<1	<0.028	
4/18/2015	NA	NA	NA	NA	NA	NA	NA	<0.028		
04731-MW-7	10/28/1998	8,488	18,802	1,330	7,100	<280	812	NA	8.2	
	3/19/1999	not sampled-well inaccessible								
	8/24/1999	8,380	18,800	2,080	11,808	<780	807	NA	<780	
	3/28/2000	8,880	8,800	1,800	8,400	<800	638	NA	<800	
	8/28/2000	8,000	4,800	880	2,800	<280	488	NA	<280	
	8/7/2002	5,300	7,300	800	3,800	<800	188	NA	<280	
	12/21/2005	4,800	18,800	2,880	14,008	<250	1,800	NA	21	
	8/24/2006	4,400	18,800	2,880	14,008	<200	880	NA	14	
	3/18/2007	8,300	18,800	2,880	12,008	<200	718	NA	18	
	2/24/2009	8,488	12,008	1,880	12,408	<800	848	NA	38	
	4/12/2012	2,800	18,808	2,880	14,008	10 J	818	88	14	
	3/28/2014	700	1,800	2,180	12,008	<10	888	8 J	1.2	
	10/18/2014	830	4,188	2,880	12,008	3 J	828	10	8.78	
4/18/2015	NA	NA	NA	NA	NA	NA	NA	1.7		
04731-MW-8	10/28/1998	<2	<2	<2	<2	<6	<6	NA	<0.1	
	3/19/1999	2.8	2.7	<2	18.2	<2	3.4	NA	0.02	
	8/24/1999	8.8	4.4	8.4	28	<4	<4	NA	<4	
	3/28/2000	<1	<1	<1	<1	<1	<1	NA	<1	
	8/28/2000	<1	<1	<1	<1	<1	<1	NA	<1	
	8/7/2002	<8	<8	<8	<10	<10	<10	NA	<8	
	12/22/2005	<1	2.1	<1	<2	180	<1	NA	<0.020	
	8/24/2006	<1	<1	<1	<2	88	<1	NA	<0.020	
	3/18/2007	<1	<1	<1	<2	28	<1	NA	<0.020	
	2/24/2009	<8	<8	<8	<8	<8	<8	NA	<0.021	
	4/12/2012	not sampled-well not located								
	3/28/2014	<1	<1	<1	<1	<1	<4	<1	<0.028	
	10/21/2014	<1	<1	<1	<1	<1	<4	<1	<0.028	
04731-MW-9	10/28/1998	808	20	300	310	<80	178	NA	<0.1	
	3/19/1999	882	<2	220	148	<10	143	NA	0.02	
	8/24/1999	328	<10	180	<10	<10	130	NA	<10	
	3/28/2000	148	<10	78	11	<10	71	NA	<10	
	8/28/2000	87	<1	81	4.8	1.1	26	NA	<1	
	8/7/2002	<80	<80	<80	<100	<100	<10	NA	<8	
	12/21/2005	188	2.8	180	18	<2	200	NA	<0.020	
	8/24/2006	188	<2	87	4	<2	230	NA	<0.020	
	3/18/2007	30	<1	20	<2	<1	80	NA	<0.020	
	2/24/2009	8.1	<8	<8	<8	<8	8.4	NA	<0.021	
	4/11/2012	2	<1	0.7 J	<1	<1	1 J	<1	<0.028	
	3/28/2014	38	<1	30	7	<1	38	<1	<0.028	
	10/21/2014	2	<1	1	<1	<1	1 J	<1	<0.028	
4/18/2015	NA	NA	NA	NA	NA	NA	NA	<0.028		
04731-MW-10	10/28/1998	<2	<2	<2	<2	<8	<8	NA	8.1	
	3/19/1999	<2	<2	<2	<2	<10	<2	NA	0.02	
	8/24/1999	1.1	2.7	<1	4.8	<1	<1	NA	<1	
	3/28/2000	1.1	<1	<1	<1	<1	<1	NA	<1	
	8/28/2000	<1	<1	<1	<1	<1	<1	NA	<1	
	8/7/2002	<8	<8	<8	<10	<10	<10	NA	<8.0	
	12/22/2005	<1	<1	<1	<2	<1	<1	NA	<0.02	
	8/24/2006	<1	<1	<1	<2	<1	<1	NA	<0.02	
	3/18/2007	<1	<1	<1	<2	<1	<1	NA	<0.02	
	2/24/2009	<8	<8	<8	<8	<8	<8	NA	<0.021	
	4/11/2012	38	4	2	34	4	3.1	<1	<0.028	
	3/28/2014	<1	<1	<1	<1	<1	<4	<1	<0.028	
	10/17/2014	<1	<1	<1	<1	<1	<4	<1	<0.028	
4/18/2015	NA	NA	NA	NA	NA	NA	NA	<0.028		
total		8	1,800	780	18,080	88	26	8	0.08	

Table 2
Groundwater Analytical Data Summary-
Petroleum Constituents
EDB Resampling
Former Conoco # 40019 (RM 6278)
UST Site # 04731
Greenwood, SC

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	1,3-Dichlorobenzene	Ethylene Dibromide	
04731-MW-11	3/19/2006	<2	<2	<2	<2	<10	<2	NA	0.02	
	6/24/2006	<1	<1	<1	<1	<1	<1	NA	<1	
	3/18/2007	<1	<1	<1	<1	<1	<1	NA	<1	
	6/24/2008	<1	<1	<1	<1	<1	<1	NA	<1	
	8/7/2002	<6	<6	<6	<10	<10	<10	NA	<6	
	12/22/2005	<1	<1	<1	<2	<1	<1	NA	<0.02	
	8/24/2008	<1	<1	<1	<2	<1	<1	NA	<0.02	
	3/18/2007	<1	<1	<1	<2	<1	<1	NA	<0.02	
	2/28/2009	<6	<6	<6	<6	<6	<6	NA	<0.02	
	4/11/2012	<1	<1	<1	<1	<1	<4	<1	<0.02	
	3/27/2014	<1	<1	<1	<1	<1	<4	<1	<0.02	
	10/21/2014	<1	<1	<1	<1	<1	<4	<1	<0.02	
4/18/2015	NA	NA	NA	NA	NA	NA	NA	<0.02		
04731-MW-12	3/19/2006	<2	<2	<2	<2	<10	<2	NA	NA	
	6/24/2006	<1	<1	<1	<1	<1	<1	NA	NA	
	3/18/2007	<1	<1	<1	<1	<1	<1	NA	NA	
	6/24/2008	<1	<1	<1	<1	<1	<1	NA	NA	
	8/7/2002	<1	<1	<1	<1	<1	<1	NA	NA	
	12/22/2005	<1	<1	<1	<2	<1	<1	NA	NA	
	8/24/2008	<1	<1	<1	<2	<1	<1	NA	NA	
	3/18/2007	<1	<1	<1	<2	<1	<1	NA	NA	
	2/24/2009	not sampled - well dry								
	4/12/2012	not sampled - well dry								
	3/27/2014	<1	<1	<1	<1	<1	<4	<1	<0.02	
	10/21/2014	not sampled - well dry								
04731-MW-13	4/18/2015	NA	NA	NA	NA	NA	NA	NA	<0.02	
	8/7/2002	<6	<6	<6	<10	<10	<10	NA	NA	
	12/22/2005	<1	<1	<1	<2	<1	<1	NA	<0.02	
	8/24/2008	<1	<1	<1	<2	<1	<1	NA	<0.02	
	3/18/2007	<1	<1	<1	<2	<1	<1	NA	<0.02	
	2/28/2009	<6	<6	<6	<6	<6	<6	NA	<0.02	
	4/11/2012	<1	<1	<1	<1	<1	<4	<1	<0.02	
	3/27/2014	<1	<1	<1	<1	<1	<4	<1	<0.02	
	10/21/2014	<1	<1	<1	<1	<1	<4	<1	<0.02	
	04731-MW-14	8/7/2002	<6	<6	<6	<10	<10	<10	NA	NA
		12/22/2005	<1	<1	<1	<2	<1	<1	NA	<0.02
		8/24/2008	<1	<1	<1	<2	<1	<1	NA	<0.02
3/18/2007		<1	<1	<1	<2	<1	<1	NA	<0.02	
2/28/2009		<6	<6	<6	<6	<6	<6	NA	<0.02	
4/11/2012		<1	<1	<1	<1	<1	<4	<1	<0.02	
2/28/2014		<1	<1	<1	<1	<1	<4	<1	<0.02	
10/21/2014		<1	<1	<1	<1	<1	<4	<1	<0.02	
4/18/2015		NA	NA	NA	NA	NA	NA	NA	<0.02	
04731-MW-15		8/7/2002	<6	<6	<6	<10	<10	<10	NA	NA
		12/22/2005	<1	<1	<1	<2	<1	<1	NA	<0.02
		8/24/2008	<1	<1	<1	<2	<1	<1	NA	<0.02
	3/18/2007	<1	<1	<1	<2	<1	<1	NA	<0.02	
	2/24/2009	<6	<6	<6	<6	<6	<6	NA	<0.02	
	4/12/2012	<1	<1	<1	<1	<1	<4	<1	<0.02	
	3/27/2014	<1	<1	<1	<1	<1	<4	<1	<0.02	
	10/21/2014	<1	<1	<1	<1	<1	<4	<1	<0.02	
	4/18/2015	NA	NA	NA	NA	NA	NA	NA	<0.02	
	04731-MW-16	8/7/2002	<6	<6	<6	<10	<10	<10	NA	NA
		12/22/2005	<1	<1	<1	<2	<1	<1	NA	<0.02
		8/24/2008	<1	<1	<1	<2	<1	<1	NA	<0.02
3/18/2007		<1	<1	<1	<2	<1	<1	NA	<0.02	
2/24/2009		<6	<6	<6	<6	<6	<6	NA	<0.02	
4/11/2012		12	1	0.81	13	<1	11	<1	<0.02	
3/27/2014		<1	<1	<1	<1	<1	<4	<1	<0.02	
10/17/2014		<1	<1	<1	<1	<1	<4	<1	<0.02	
4/18/2015		NA	NA	NA	NA	NA	NA	NA	<0.02	
04731-MW-17		12/21/2005	13,800	45,000	2,000	14,800	<50	1,800	NA	0.083
		6/24/2008	4,300	22,000	2,300	12,600	<600	<800	NA	0.027
		3/18/2007	3,300	17,000	1,300	9,800	<600	<800	NA	<0.02
	2/24/2009	9,800	36,000	1,800	12,600	<280	400	NA	<0.021	
	4/12/2012	11,800	49,000	2,300	13,000	<100	400	<100	0.08	
	2/28/2014	4,400	22,000	1,900	13,000	<30	470	<30	0.018 J	
	10/21/2014	9,800	38,000	2,100	13,000	<100	480	<100	0.11 J	
	4/18/2015	NA	NA	NA	NA	NA	NA	NA	<0.02	
	MSL		8	1,000	200	12,000	40	28	8	0.65

Table 2
Groundwater Analytical Data Summary-
Petroleum Constituents
EDS Resampling
Former Conoco # 40019 (RM 6278)
UST Site # 04731
Greenwood, SC

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	1,2-Dichlorobenzene	Ethylene Dibromide	
04731-MW-18	12/22/2006	<1	<1	<1	<2	<1	<1	NA	<0.02	
	02/22/2008	<1	<1	<1	<2	<1	<1	NA	<0.02	
	3/18/2007	<1	<1	<1	<2	<1	<1	NA	<0.02	
	2/24/2008	<6	<6	<6	<6	<6	<6	NA	<0.021	
	4/11/2012	<1	<1	<1	<1	<1	<4	<1	<0.029	
	3/28/2014	<1	<1	<1	<1	<1	<4	<1	<0.029	
	10/21/2014	<1	<1	<1	<1	<1	<4	<1	<0.029	
	4/18/2015	NA	NA	NA	NA	NA	NA	NA	<0.029	
04731-MW-18	02/22/2008	22,800	24,000	2,400	11,800	4,900	<600	NA	0.22	
	3/18/2007	1,300	3,800	2,000	11,800	129	180	NA	<0.02	
	2/24/2008	11,000	12,000	2,100	8,800	329	440	NA	<0.021	
	4/13/2012	11,000	23,000	2,800	12,800	249	360 J	<100	0.26	
	3/28/2014	750	80	300	1,500	6	280	<1	<0.029	
	10/21/2014	8,800	13,800	3,100	14,800	849	440	<100	<0.029	
	4/18/2015	NA	NA	NA	NA	NA	NA	NA	<0.029	
	04731-MW-20	02/22/2008	14,000	48,000	3,100	18,000	<1,000	<1,000	NA	0.22
3/18/2007		8,900	48,000	4,800	19,000	<1,000	<1,000	NA	0.12	
2/24/2008		28,000	48,000	3,800	18,800	<1,000	<1,000	NA	0.8	
4/12/2012		not sampled - too small								
3/28/2014		8,900	31,000	3,100	18,000	30	280	<10	<0.028	
10/21/2014		8,900	47,000	4,100	21,800	<100	840	<100	<0.23	
4/18/2015		NA	NA	NA	NA	NA	NA	NA	<0.24	
04731-MW-21		02/22/2008	22,800	38,000	2,400	11,800	<1,000	<1,000	NA	0.2
	3/18/2007	28,800	47,000	3,800	18,800	<1,000	<1,000	NA	0.8	
	2/24/2008	14,800	28,000	1,800	11,800	<500	840	NA	0.8	
	4/12/2012	18,800	<100	38,000	18,000	310	870	<100	4.8	
	3/27/2014	8,800	17,000	1,300	8,200	140	880	<20	3.8	
	10/21/2014	8,200	27,000	2,300	14,000	220	880	<100	4.4	
	4/18/2015	NA	NA	NA	NA	NA	NA	NA	6.1	
	04731-MW-22	02/22/2008	11,800	12,000	870	8,400	<600	<600	NA	1.80
3/18/2007		16,000	21,000	2,800	11,800	<600	<600	NA	6.90	
2/24/2008		10,000	7,400	1,000	8,800	<250	810	NA	2.60	
4/12/2012		8,800	8,800	810	8,400	48	840	250	8.6	
3/28/2014		11,000	8,800	880	8,400	21	880	850	8.7	
10/21/2014		18,000	18,000	1,300	9,400	<100	810	810	14.8	
4/18/2015		NA	NA	NA	NA	NA	NA	NA	4.8	
04731-MW-23		02/22/2008	12,000	3,800	820	8,900	<200	<300	NA	8.8
	3/18/2007	7,100	2,800	870	3,800	<200	<200	NA	8.1	
	2/24/2008	18,000	<250	880	3,200	<280	<300	NA	2.8	
	4/12/2012	not sampled - well dry								
	3/28/2014	7,300	1,400	880	2,800	78	280	328	3.1	
	10/21/2014	8,200	2,300	2,280	8,400	80	830	830	6.8	
	4/18/2015	NA	NA	NA	NA	NA	NA	NA	2.8	
	04731-DW-1	8/7/2001	28,000	30,800	800	3,200	2,100	87	NA	NA
12/12/2006		31,800	38,000	1,800	7,400	1,800	1,800	NA	0.13	
02/24/2008		38,800	38,000	1,800	8,200	1,300	<600	NA	0.12	
1/22/2008		40,800	41,800	2,300	12,800	1,780	310	NA	0.02	
3/18/2007		28,800	28,800	1,480	7,800	<500	<600	NA	0.18	
2/24/2008		22,800	28,000	1,300	9,600	880	<600	NA	<0.021	
4/13/2012		48,800	41,800	1,800	11,800	338	280 J	<100	0.085	
3/28/2014		22,800	27,800	1,400	7,100	248	380	<60	<0.12	
10/21/2014		28,800	38,000	1,800	18,800	280 J	210 J	<200	<0.12	
4/20/2015		NA	NA	NA	NA	NA	NA	NA	<0.028	
04731-DW-2	10/6/2002	88	<6	<6	<10	310	<6	NA	<10	
	12/21/2006	<6	<6	<6	<10	180	<6	NA	<0.02	
	02/24/2008	480	<60	<60	<100	1,300	<60	NA	0.023	
	1/22/2008	480	<6	<6	118	1,100	7.2	NA	<0.02	
	3/18/2007	88	<6	<6	<10	380	<6	NA	<0.02	
	2/24/2008	14	<6	<6	<6	840	<6	NA	<0.021	
	4/13/2012	240	7	<2	8	480	3 J	<2	<0.028	
	3/31/2014	610	<2	<2	7	430	7 J	7	<0.029	
10/18/2014	3,800	<10	<10	48	1,680	21 J	<10	0.012 J		
4/20/2015	NA	NA	NA	NA	NA	NA	NA	<0.028		
MSL		6	1,080	300	18,800	48	28	8	0.88	

Table 2
Groundwater Analytical Data Summary-
Petroleum Constituents
EDS Resampling
Former Coroco # 40018 (RM 6279)
UST Site # 04731
Greenwood, SC

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	BTEX	Naphthalene	1,2-Dichlorobenzene	Ethylene Dichloride
04731-DW-3	12/21/2008	880	34	18	140	83	30	NA	0.81
	02/24/2009	25,000	3,800	1,800	8,100	2,500	<800	NA	11
	11/22/2008	24,880	4,100	1,300	7,700	2,300	640	NA	1
	3/18/2007	14,000	2,800	800	4,800	880	<800	NA	14
	2/28/2009	23,000	8,300	1,800	8,700	2,200	<800	NA	18
	4/12/2012	27,000	18,000	1,800	8,800	2,800	380	380	8.7
	3/31/2014	27,000	17,000	1,800	8,100	1,800	440	340	7.4
	10/20/2014	28,000	18,000	2,000	11,000	1,700	420	340	8.1
	4/21/2016	NA	NA	NA	NA	NA	NA	NA	8.8
	12/21/2008	1,100	<20	<20	<20	28	84	NA	0.23
04731-DW-4	02/24/2009	2,800	<80	<80	<100	<80	<80	NA	<0.02
	11/22/2008	1,880	8.8	3.1	28.8	88	120	NA	0.03
	3/18/2007	88	<2.8	<2.8	<8	22	12	NA	<0.02
	2/28/2009	330	<28	<28	<28	<28	33	NA	<0.021
	4/12/2012	8	<1	<1	0.8 J	32	7	820	<0.029
	3/31/2014	28	83	18	87	81	9 J	430	<0.028
	10/18/2014	<10	<10	<10	<10	110	<80	380	<0.028
	4/21/2016	NA	NA	NA	NA	NA	NA	NA	<0.028
	02/24/2009	1,800	<28	34	170	31	<28	NA	0.031
	11/22/2008	1,880	4.8	100	880	71	38	NA	0.02
04731-DW-5	3/18/2007	2,480	<28	88	720	81	<28	NA	0.044
	2/28/2009	2,300	<100	<100	870	<100	<100	NA	<0.021
	4/12/2012	2,880	<10	31	1,100	84	87	<10	<0.028
	3/28/2014	3,880	20	110	1,200	78	110	<8	<0.028
	10/20/2014	2,880	18	180	1,300	84	110	<10	0.028 J
	4/20/2016	NA	NA	NA	NA	NA	NA	NA	<0.083
	02/24/2009	2,000	<28	<28	<80	1,400	<28	NA	0.072
	11/22/2008	2,080	8	8	84	1,400	<8	NA	0.02
	3/18/2007	1,080	<100	<100	<200	2,000	<100	NA	0.077
	2/28/2009	2,080	<80	<80	<80	2,800	<80	NA	<0.021
04731-DW-6	4/12/2012	1,300	84	24	82	10,800	18 J	8	0.013 J
	3/27/2014	180	21	<10	9 J	8,400	<80	<10	<0.028
	10/21/2014	1,300	180	28	88	11,800	<80	<20	0.086
	4/20/2016	NA	NA	NA	NA	NA	NA	NA	0.023 J
	02/24/2009	710	<10	<10	<20	880	<10	NA	0.038
	11/22/2008	1,480	8	8	18.3	1,100	38	NA	0.02
	3/18/2007	1,880	<80	<80	<100	1,800	<80	NA	0.028
	2/24/2009	810	<100	<100	<100	2,800	<100	NA	<0.021
	4/12/2012	28	4	2	24	8	3 J	<1	<0.028
	3/28/2014	880	38	11	38	2,800	8	0.9 J	<0.028
04731-DW-7	10/20/2014	480	88	8 J	37	8,100	<80	<10	<0.028
	4/20/2016	NA	NA	NA	NA	NA	NA	NA	<0.028
	3/18/2007	870	80	30	300	230	18	NA	<0.02
	2/28/2009	1,380	38	<8	178	340	28	NA	<0.021
	4/12/2012	780	4	<2	110	380	18	<2	<0.028
	3/31/2014	2,300	3	0.8 J	240	830	88	<1	<0.028
	10/21/2014	2,080	<10	<10	200	830	88	<10	<0.028
	4/20/2016	NA	NA	NA	NA	NA	NA	NA	0.078 J
	3/18/2007	<1	<1	<1	<2	<1	<1	NA	<0.02
	2/24/2009	<8	<8	<8	<8	<8	<8	NA	<0.021
04731-DW-8	4/12/2012	2	<1	<1	3	<1	<1	<1	<0.028
	3/28/2014	18	12	10	48	<1	8	<1	<0.028
	10/17/2014	<1	<1	<1	<1	<1	<1	<1	<0.028
	4/17/2016	NA	NA	NA	NA	NA	NA	NA	<0.028
	3/18/2007	<1	<1	<1	<2	1.8	<1	NA	<0.02
	2/24/2009	<8	<8	<8	<8	8.8	<8	NA	<0.021
	4/12/2012	1	<1	<1	2	38	<1	<1	<0.028
	3/27/2014	<1	<1	<1	<1	87	<1	<1	<0.028
	10/17/2014	<1	<1	<1	<1	48	<1	<1	<0.028
	4/17/2016	NA	NA	NA	NA	NA	NA	NA	<0.028
04731-DW-9	2/24/2009	8,800	<100	<100	1,180	380	118	NA	1.3
	4/12/2012	18,080	60	120	1,700	420	380	180	0.37
	3/31/2014	18,080	37	100	1,800	420	380	180	0.47
	10/18/2014	18,080	<20	71	1,700	420	380	118	0.18
	4/21/2016	NA	NA	NA	NA	NA	NA	NA	0.34
	2/24/2009	1,800	<8	<8	<8	380	48	NA	0.038
04731-DW-10	4/12/2012	880	<2	<2	108	82	41	<10	<0.028
	3/31/2014	380	<2	<2	3	48	22	22	<0.028
	10/18/2014	480	<8	<8	<8	88	22	28	<0.028
	4/20/2016	NA	NA	NA	NA	NA	NA	NA	<0.028
04731-DW-11	02/24/2009	1,800	<28	<28	<80	1,400	<28	NA	0.072
	11/22/2008	2,080	8	8	84	1,400	<8	NA	0.02
	3/18/2007	1,080	<100	<100	<200	2,000	<100	NA	0.077
	2/28/2009	2,080	<80	<80	<80	2,800	<80	NA	<0.021
	4/12/2012	2,880	<10	31	1,100	84	87	<10	<0.028
	3/28/2014	3,880	20	110	1,200	78	110	<8	<0.028
	10/20/2014	2,880	18	180	1,300	84	110	<10	0.028 J
	4/20/2016	NA	NA	NA	NA	NA	NA	NA	<0.083
	02/24/2009	2,000	<28	<28	<80	1,400	<28	NA	0.072
	11/22/2008	2,080	8	8	84	1,400	<8	NA	0.02
	3/18/2007	1,080	<100	<100	<200	2,000	<100	NA	0.077
	2/28/2009	2,080	<80	<80	<80	2,800	<80	NA	<0.021
04731-DW-12	4/12/2012	1,300	84	24	82	10,800	18 J	8	0.013 J
	3/27/2014	180	21	<10	9 J	8,400	<80	<10	<0.028
	10/21/2014	1,300	180	28	88	11,800	<80	<20	0.086
	4/20/2016	NA	NA	NA	NA	NA	NA	NA	0.023 J
	02/24/2009	710	<10	<10	<20	880	<10	NA	0.038
	11/22/2008	1,480	8	8	18.3	1,100	38	NA	0.02
	3/18/2007	1,880	<80	<80	<100	1,800	<80	NA	0.028
	2/24/2009	810	<100	<100	<100	2,800	<100	NA	<0.021
	4/12/2012	28	4	2	24	8	3 J	<1	<0.028
	3/28/2014	880	38	11	38	2,800	8	0.9 J	<0.028
	10/20/2014	480	88	8 J	37	8,100	<80	<10	<0.028
	4/20/2016	NA	NA	NA	NA	NA	NA	NA	<0.028
3/18/2007	870	80	30	300	230	18	NA	<0.02	
2/28/2009	1,380	38	<8	178	340	28	NA	<0.021	
4/12/2012	780	4	<2	110	380	18	<2	<0.028	
3/31/2014	2,300	3	0.8 J	240	830	88	<1	<0.028	
10/21/2014	2,080	<10	<10	200	830	88	<10	<0.028	
4/20/2016	NA	NA	NA	NA	NA	NA	NA	0.078 J	
3/18/2007	<1	<1	<1	<2	<1	<1	NA	<0.02	
2/24/2009	<8	<8	<8	<8	<8	<8	NA	<0.021	
4/12/2012	2	<1	<1	3	<1	<1	<1	<0.028	
3/28/2014	18	12	10	48	<1	8	<1	<0.028	
10/17/2014	<1	<1	<1	<1	<1	<1	<1	<0.028	
4/17/2016	NA	NA	NA	NA	NA	NA	NA	<0.028	
3/18/2007	<1	<1	<1	<2	1.8	<1	NA	<0.02	
2/24/2009	<8	<8	<8	<8	8.8	<8	NA	<0.021	
4/12/2012	1	<1	<1	2	38	<1	<1	<0.028	
3/27/2014	<1	<1	<1	<1	87	<1	<1	<0.028	
10/17/2014	<1	<1	<1	<1	48	<1	<1	<0.028	
4/17/2016	NA	NA	NA	NA	NA	NA	NA	<0.028	
2/24/2009	8,800	<100	<100	1,180	380	118	NA	1.3	
4/12/2012	18,080	60	120	1,700	420	380	180	0.37	
3/31/2014	18,080	37	100	1,800	420	380	180	0.47	
10/18/2014	18,080	<20	71	1,700	420	380	118	0.18	
4/21/2016	NA	NA	NA	NA	NA	NA	NA	0.34	
2/24/2009	1,800	<8	<8	<8	380	48	NA	0.038	
4/12/2012	880	<2	<2	108	82	41	<10	<0.028	
3/31/2014	380	<2	<2	3	48	22	22	<0.028	
10/18/2014	480	<8	<8	<8	88	22	28	<0.028	
4/20/2016	NA	NA	NA	NA	NA	NA	NA	<0.028	
MESL		8	1,880	208	10,880	48	28	8	0.05

Table 2
Groundwater Analytical Data Summary-
Petroleum Constituents
EDB Resampling
Former Conoco # 40019 (RM 6279)
UST Site # 04731
Greenswood, SC

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	1,2-Dichloroethane	Ethylene Dichloride
04731-DW-13	2/24/2008	<S	<S	<S	<S	<S	<S	NA	<0.021
	4/12/2012	<1	1J	<1	2	<1	<4	<1	<0.029
	2/28/2014	2	3	3	12	<1	3J	<1	<0.029
	10/20/2014	<1	<1	<1	<1	<1	<4	<1	<0.029
	4/20/2015	NA	NA	NA	NA	NA	NA	NA	<0.029
04731-DW-14	2/24/2008	<S	<S	<S	<S	<S	<S	NA	<0.021
	4/12/2012	<1	<1	<1	<1	<1	<4	<1	<0.029
	3/31/2014	<1	<1	<1	<1	<1	<4	<1	<0.029
	10/21/2014	<1	<1	<1	<1	<1	<4	<1	<0.029
	4/20/2015	NA	NA	NA	NA	NA	NA	NA	<0.029
04731-DW-15	10/18/2014	<1	<1	<1	<1	41	<4	2	<0.029
	4/20/2015	NA	NA	NA	NA	NA	NA	NA	0.012 J
04731-DW-16	10/18/2014	<1	<1	<1	<1	<1	<4	<1	<0.029
	4/20/2015	NA	NA	NA	NA	NA	NA	NA	<0.029
04731-DW-17	10/17/2014	42	<S	<S	<S	1,800	<20	8	<0.029
	4/17/2015	NA	NA	NA	NA	NA	NA	NA	<0.029
04731-DW-18	12/7/2015	0.8 J	<1	<1	<1	1,500	<4	22	<0.029
	4/17/2015	NA	NA	NA	NA	NA	NA	NA	0.043
04731-DW-19	10/21/2014	<1	<1	<1	<1	<1	<4	0.8 J	<0.029
	4/20/2015	NA	NA	NA	NA	NA	NA	NA	<0.029
04731-DW-20	10/21/2014	<1	<1	<1	<1	<1	<4	<1	<0.029
	4/17/2015	NA	NA	NA	NA	NA	NA	NA	<0.029
04731-DW-21	10/20/2014	<1	<1	<1	<1	<1	<4	<1	<0.029
	4/16/2015	NA	NA	NA	NA	NA	NA	NA	<0.029
	MUSL	8	1,800	200	10,000	40	20	8	0.08

Notes:

1. Units = micrograms per liter (ug/L)
2. MTBE = Methyl Tertiary Butyl Ether
3. *C* = Not detected at or above the laboratory reporting limit
4. MUSL = Risk Based Screening Level

5. Bold concentrations equal or exceed the corresponding MUSL
6. NA = Not Analyzed or Not Available

SUMMARY of SLUG TEST ANALYSES

SOUTH CAROLINA
Department of Health and Environmental Control (DHEC)

Site Data

SITE ID #: 4731 COUNTY: Greenwood
FACILITY NAME: Former Conoco Store #40019

Slug Data

See Appendix F Table 4 Figure _____ for a list of all data measurements.
(water level logs, etc.) (Complete as appropriate).

Water Level Recovery Data was measured by In Situ miniTROLL
(Hermit Data Logger, Manually with Water Level Indicator, etc.) (List Method)

Complete the following table for each well tested.
COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED.

	MW-5 slug in	MW-5 slug out
Slug Test Conducted in well(s) Number	2.51	1.73
Initial Rise/Drawdown in well (feet)	0.0833	0.0833
Radius of Well Casing (feet)	0.375	0.375
Effective Radius of Well (feet)	84.37	84.37
Static Saturated Aquifer Thickness (feet)	15	15
Length of Well Screen (feet)	11.37	11.37
Static Height of Water Column in Well (feet)		

Calculations

See Appendix F Table 4 Figure _____ for calculations. (Complete as appropriate).
The method for aquifer calculations was Bouwer-Rice (I.e. Bouwer-Rice, Cooper, etc.)

Calculated values by well were as follows:

Slug Test Conducted in well(s) number	MW-5 slug in	MW-5 slug out
Hydraulic Conductivity (ft/day)	0.66	0.48

Thickness of the aquifer used to calculate hydraulic conductivity was 84.37 feet.
The aquifer is _____ confined _____ semi-confined X water table.

The estimated seepage velocity is 19 (slug in) / 14 (slug out) feet/year based on
a hydraulic conductivity of 0.66 ft/day / 0.48 ft/day a hydraulic gradient of 0.016 ft/ft and
a porosity of 20 percent for a silty sand soil (list type).

SUMMARY of SLUG TEST ANALYSES

SOUTH CAROLINA
Department of Health and Environmental Control (DHEC)

Site Data

SITE ID #: 4731 COUNTY: Greenwood
FACILITY NAME: Former Conoco Store #40019

Slug Data

See Appendix F Table 4 Figure _____ for a list of all data measurements.
(water level logs, etc.) (Complete as appropriate).

Water Level Recovery Data was measured by In Situ miniTROLL
(Hermit Data Logger, Manually with Water Level Indicator, etc.) (List Method)

Complete the following table for each well tested.
COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED.

	MW-15 slug in	MW-15 slug out
Slug Test Conducted in well(s) Number		
Initial Rise/Drawdown in well (feet)	2.30	1.20
Radius of Well Casing (feet)	0.0833	0.0833
Effective Radius of Well (feet)	0.375	0.0375
Static Saturated Aquifer Thickness (feet)	84.65	84.65
Length of Well Screen (feet)	15	15
Static Height of Water Column in Well (feet)	9.25	9.25

Calculations

See Appendix F Table 4 Figure _____ for calculations. (Complete as appropriate).
The method for aquifer calculations was Bouwer-Rice (i.e. Bouwer-Rice, Cooper, etc.)

Calculated values by well were as follows:

Slug Test Conducted in well(s) number	MW-15 slug in	MW-15 slug out
Hydraulic Conductivity (ft/day)	1.21	0.87

Thickness of the aquifer used to calculate hydraulic conductivity was 84.65 feet.
The aquifer is _____ confined _____ semi-confined X water table.

The estimated seepage velocity is 35 (slug in) / 25 (slug out) feet/year based on
a hydraulic conductivity of 1.21 ft/day / 0.87 ft/day a hydraulic gradient of 0.016 ft/ft and
a porosity of 20 percent for silty sand soil (list type).

SUMMARY of SLUG TEST ANALYSES

SOUTH CAROLINA
Department of Health and Environmental Control (DHEC)

Site Data

SITE ID #: 4731 COUNTY: Greenwood
FACILITY NAME: Former Conoco Store #40019

Slug Data

See Appendix F Table 4 Figure _____ for a list of all data measurements.
(water level logs, etc.) (Complete as appropriate).

Water Level Recovery Data was measured by In Situ miniTROLL
(Hermit Data Logger, Manually with Water Level Indicator, etc.) (List Method)

Complete the following table for each well tested.
COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED.

	DW-11 slug in	DW-11 slug out
Slug Test Conducted in well(s) Number		
Initial Rise/Drawdown in well (feet)	2.29	1.83
Radius of Well Casing (feet)	0.0833	0.0833
Effective Radius of Well (feet)	0.25	0.25
Static Saturated Aquifer Thickness (feet)	83.89	83.89
Length of Well Screen (feet)	5	5
Static Height of Water Column In Well (feet)	38.89	38.89

Calculations

See Appendix F Table 4 Figure _____ for calculations. (Complete as appropriate).
The method for aquifer calculations was Bouwer-Rice (i.e. Bouwer-Rice, Cooper, etc.)

Calculated values by well were as follows:

Slug Test Conducted in well(s) number	DW-11 slug in	DW-11 slug out
Hydraulic Conductivity (ft/day)	2.08	1.18

Thickness of the aquifer used to calculate hydraulic conductivity was 83.89 feet.
The aquifer is _____ confined _____ semi-confined X water table.

The estimated seepage velocity is 68 (slug in) / 39 (slug out) feet/year based on
a hydraulic conductivity of 2.08 ft/day / 1.18 ft/day a hydraulic gradient of 0.018 ft/ft and
a porosity of 20 percent for sandy silt soil (list type).

SUMMARY of SLUG TEST ANALYSES

SOUTH CAROLINA
Department of Health and Environmental Control (DHEC)

Site Data

SITE ID #: 4731 COUNTY: Greenwood
FACILITY NAME: Former Conoco Store #40019

Slug Data

See Appendix F Table 4 Figure _____ for a list of all data measurements.
(water level logs, etc.) (Complete as appropriate).

Water Level Recovery Data was measured by In Situ miniTROLL
(Hermit Data Logger, Manually with Water Level Indicator, etc.) (List Method)

Complete the following table for each well tested.
COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED.

	DW-12 slug in	DW-12 slug out
Slug Test Conducted in well(s) Number		
Initial Rise/Drawdown in well (feet)	2.42	1.88
Radius of Well Casing (feet)	0.0833	0.0833
Effective Radius of Well (feet)	0.25	0.25
Static Saturated Aquifer Thickness (feet)	83.55	83.55
Length of Well Screen (feet)	5	5
Static Height of Water Column In Well (feet)	83.55	83.55

Calculations

See Appendix F Table 4 Figure _____ for calculations. (Complete as appropriate).
The method for aquifer calculations was Bouwer-Rice (i.e. Bouwer-Rice, Cooper, etc.)

Calculated values by well were as follows:

Slug Test Conducted in well(s) number	DW-12 slug in	DW-12 slug out
Hydraulic Conductivity (ft/day)	3.42	2.84

Thickness of the aquifer used to calculate hydraulic conductivity was 83.55 feet.
The aquifer is _____ confined _____ semi-confined X water table.

The estimated seepage velocity is 169 (slug in) / 140 (slug out) feet/year based on
a hydraulic conductivity of 3.42 ft/day / 2.84 ft/day a hydraulic gradient of 0.027 ft/ft and
a porosity of 20 percent for silty sand soil (list type).

SUMMARY of SLUG TEST ANALYSES

SOUTH CAROLINA
Department of Health and Environmental Control (DHEC)

Site Data

SITE ID #: 4731 COUNTY: Greenwood
FACILITY NAME: Former Conoco Store #40019

Slug Data

See Appendix F Table 4 Figure _____ for a list of all data measurements.
(water level logs, etc.) (Complete as appropriate).

Water Level Recovery Data was measured by In Situ miniTROLL
(Hermit Data Logger, Manually with Water Level Indicator, etc.) (List Method)

Complete the following table for each well tested.
COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED.

	DW-13 slug in	DW-13 slug out
Slug Test Conducted in well(s) Number		
Initial Rise/Drawdown in well (feet)	2.76	2.58
Radius of Well Casing (feet)	0.0833	0.0833
Effective Radius of Well (feet)	0.25	0.25
Static Saturated Aquifer Thickness (feet)	82.55	82.55
Length of Well Screen (feet)	5	5
Static Height of Water Column in Well (feet)	37.55	37.55

Calculations

See Appendix F Table 4 Figure _____ for calculations. (Complete as appropriate).
The method for aquifer calculations was Bouwer-Rice (I.e. Bouwer-Rice, Cooper, etc.)

Calculated values by well were as follows:

Slug Test Conducted in well(s) number	DW-13 slug in	DW-13 slug out
Hydraulic Conductivity (ft/day)	4.18	2.29

Thickness of the aquifer used to calculate hydraulic conductivity was 82.55 feet.
The aquifer is _____ confined _____ semi-confined X water table.

The estimated seepage velocity is 137 (slug in) / 75 (slug out) feet/year based on
a hydraulic conductivity of 4.18 ft/day / 2.29 ft/day a hydraulic gradient of 0.018 ft/ft and
a porosity of 20 per cent for silty sand soil (list type).

SUMMARY of SLUG TEST ANALYSES

SOUTH CAROLINA
Department of Health and Environmental Control (DHEC)

Site Data

SITE ID #: 4731 COUNTY: Greenwood
FACILITY NAME: Former Conoco Store #40019

Slug Data

See Appendix F Table 4 Figure _____ for a list of all data measurements.
(water level logs, etc.) (Complete as appropriate).

Water Level Recovery Data was measured by In Situ minITROLL
(Hermit Data Logger, Manually with Water Level Indicator, etc.) (List Method)

Complete the following table for each well tested.
COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED.

	DW-14 slug in	DW-14 slug out
Slug Test Conducted in well(s) Number		
Initial Rise/Drawdown in well (feet)	2.58	1.55
Radius of Well Casing (feet)	0.0833	0.0833
Effective Radius of Well (feet)	0.25	0.25
Static Saturated Aquifer Thickness (feet)	82.55	82.55
Length of Well Screen (feet)	5	5
Static Height of Water Column in Well (feet)	37.55	37.55

Calculations

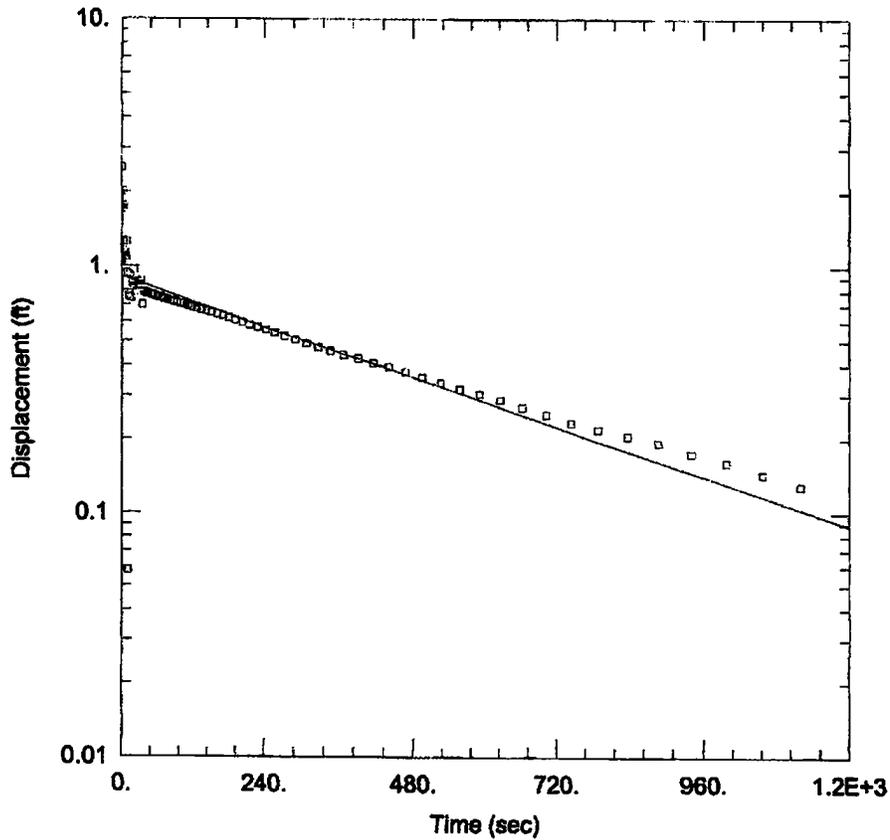
See Appendix F Table 4 Figure _____ for calculations. (Complete as appropriate).
The method for aquifer calculations was Bouwer-Rice (I.e. Bouwer-Rice, Cooper, etc.)

Calculated values by well were as follows:

	DW-14 slug in	DW-14 slug out
Slug Test Conducted in well(s) number		
Hydraulic Conductivity (ft/day)	6.08	11.15

Thickness of the aquifer used to calculate hydraulic conductivity was 82.55 feet.
The aquifer is _____ confined _____ semi-confined X water table.

The estimated seepage velocity is 299 (slug in) / 550 (slug out) feet/year based on
a hydraulic conductivity of 6.08 ft/day / 11.15 ft/day a hydraulic gradient of 0.027 ft/ft and
a porosity of 20 per cent for sandy silt soil (list type).



MW-5 SLUG IN

Data Set: A:\6279 MW5 Slug In.aqt

Date: 03/11/09

Time: 08:41:51

PROJECT INFORMATION

Project: Former Conoco Store 40019

Location: RM&R #6279

Test Well: MW-5

Test Date: 2/25/09

AQUIFER DATA

Saturated Thickness: 84.37 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-5)

Initial Displacement: 2.51 ft

Total Well Penetration Depth: 27. ft

Casing Radius: 0.0833 ft

Static Water Column Height: 11.37 ft

Screen Length: 15. ft

Well Radius: 0.375 ft

Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined

$K = 0.0002336$ cm/sec:

Solution Method: Bouwer-Rice

$v_0 = 0.9103$ ft

Data Set: A:\6279 MW5 Slug In.aqt

PROJECT INFORMATION

Project: Former Conoco Store 40019
 Location: RM&R #6279
 Test Date: 2/25/09
 Test Well: MW-5

AQUIFER DATA

Saturated Thickness: 84.37 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW-5

X Location: 0. ft
 Y Location: 0. ft

Initial Displacement: 2.51 ft
 Static Water Column Height: 11.37 ft
 Casing Radius: 0.0833 ft
 Well Radius: 0.375 ft
 Well Skin Radius: 0.375 ft
 Screen Length: 15. ft
 Total Well Penetration Depth: 27. ft
 Corrected Casing Radius (Bouwer-Rice Method): 0.2129 ft
 Gravel Pack Porosity: 0.3

No. of Observations: 88

Observation Data			
Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	2.51	86.2	0.725
0.5	1.042	91.8	0.719
0.9	1.762	97.7	0.712
1.4	2.013	104.	0.706
2.	1.707	110.6	0.698
2.5	1.243	117.6	0.689
3.1	1.751	125.1	0.681
3.8	0.978	133.	0.672
4.4	1.098	141.4	0.664
5.1	1.148	150.3	0.653
5.9	1.127	159.7	0.645
6.7	1.091	169.7	0.634
7.5	1.066	180.3	0.622
8.4	1.26	191.5	0.609
9.3	0.938	203.4	0.597
10.3	0.058	216.	0.582
11.4	0.763	229.3	0.571
12.5	0.754	243.4	0.557
13.7	0.925	258.3	0.542
14.9	0.746	274.1	0.525
16.3	0.858	290.9	0.508
17.7	0.824	308.7	0.491
19.2	0.826	327.5	0.474
20.7	0.967	347.4	0.458
22.3	0.864	368.5	0.441
24.	0.79	390.9	0.426
25.8	0.868	414.6	0.409
27.7	0.838	439.7	0.394
29.8	0.841	466.3	0.377
32.	0.872	494.5	0.359
34.3	0.702	524.4	0.34

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
36.8	0.788	556.	0.321
39.4	0.784	589.5	0.306
42.2	0.78	625.	0.289
45.1	0.775	662.6	0.27
48.2	0.771	702.4	0.253
51.5	0.767	744.6	0.234
55.	0.763	789.3	0.22
58.7	0.759	836.7	0.207
62.6	0.752	886.9	0.194
66.8	0.75	940.	0.175
71.2	0.742	996.3	0.161
75.9	0.738	1055.9	0.144
80.9	0.731	1119.1	0.129

SOLUTION

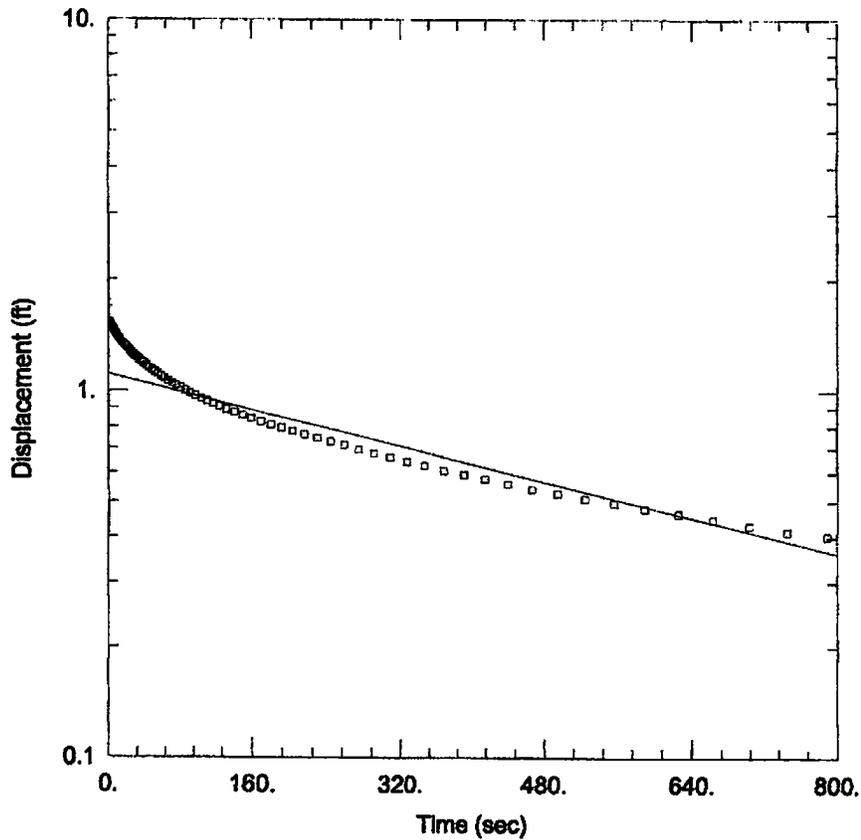
Slug Test
 Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 ln(Re/rw): 2.614

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.0002336	cm/sec
y0	0.9103	ft

$T = K \cdot b = 0.6008 \text{ cm}^2/\text{sec}$



MW-5 SLUG OUT

Data Set: A:\6279 MW5 Slug Out.aqt
 Date: 03/11/09

Time: 08:49:43

PROJECT INFORMATION

Project: Former Conoco Store 40019
 Location: RM&R #6279
 Test Well: MW-5
 Test Date: 2/25/09

AQUIFER DATA

Saturated Thickness: 84.37 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-5)

Initial Displacement: 1.726 ft
 Total Well Penetration Depth: 27. ft
 Casing Radius: 0.0833 ft

Static Water Column Height: 11.37 ft
 Screen Length: 15. ft
 Well Radius: 0.375 ft
 Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.0001692 \text{ cm/sec}$

$\nu = 1.112 \text{ ft}$

Data Set: A:\6279 MW5 Slug Out.aqt

PROJECT INFORMATION

Project: Former Conoco Store 40019
 Location: RM&R #6279
 Test Date: 2/25/09
 Test Well: MW-5

AQUIFER DATA

Saturated Thickness: 84.37 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW-5

X Location: 0. ft
 Y Location: 0. ft

Initial Displacement: 1.726 ft
 Static Water Column Height: 11.37 ft
 Casing Radius: 0.0833 ft
 Well Radius: 0.375 ft
 Well Skin Radius: 0.375 ft
 Screen Length: 15. ft
 Total Well Penetration Depth: 27. ft
 Corrected Casing Radius (Bower-Rice Method): 0.2129 ft
 Gravel Pack Porosity: 0.3

No. of Observations: 82

Time (sec)	Observation Data		Displacement (ft)
	Displacement (ft)	Time (sec)	
0.	1.726	71.2	1.051
0.5	1.634	75.9	1.036
0.9	1.536	80.9	1.021
1.4	1.528	86.2	1.004
2.	1.522	91.8	0.987
2.5	1.513	97.7	0.972
3.1	1.505	104.	0.955
3.8	1.488	110.6	0.941
4.4	1.483	117.6	0.924
5.1	1.481	125.1	0.909
5.9	1.467	133.	0.892
6.7	1.454	141.4	0.877
7.5	1.439	150.3	0.86
8.4	1.429	159.7	0.843
9.3	1.416	169.7	0.826
10.3	1.405	180.3	0.81
11.4	1.395	191.5	0.795
12.5	1.382	203.4	0.778
13.7	1.369	216.	0.761
14.9	1.359	229.3	0.746
16.3	1.346	243.4	0.729
17.7	1.333	258.3	0.713
19.2	1.321	274.1	0.694
20.7	1.31	290.9	0.677
22.3	1.295	308.7	0.66
24.	1.283	327.5	0.643
25.8	1.27	347.4	0.628
27.7	1.258	368.5	0.609
29.8	1.243	390.9	0.593
32.	1.23	414.6	0.576
34.3	1.215	439.7	0.559

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
36.8	1.201	466.3	0.542
39.4	1.188	494.5	0.527
42.2	1.173	524.4	0.51
45.1	1.158	556.	0.496
48.2	1.142	589.5	0.479
51.5	1.126	625.	0.464
55.	1.112	662.6	0.447
58.7	1.095	702.4	0.43
62.6	1.082	744.6	0.415
66.8	1.067	789.3	0.403

SOLUTION

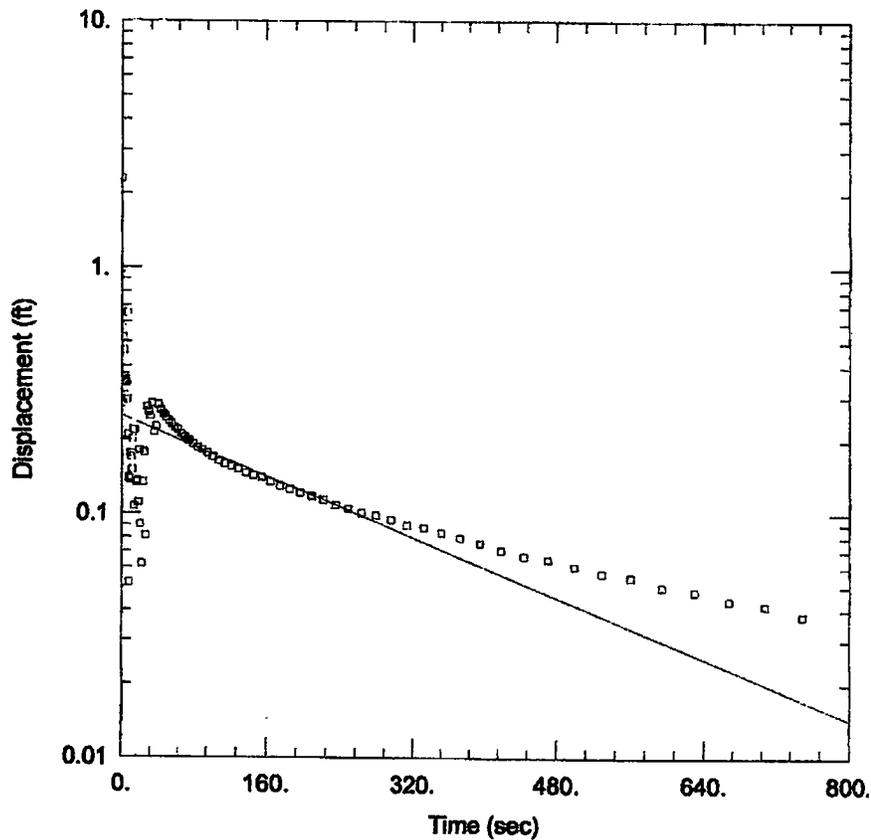
Slug Test
 Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 ln(Ra/rw): 2.614

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.0001692	cm/sec
y0	1.112	ft

$T = K \cdot b = 0.4351 \text{ cm}^2/\text{sec}$



MW-15 SLUG IN

Data Set: A:\6279 MW15 Slug In.aqt
 Date: 03/11/09

Time: 08:59:04

PROJECT INFORMATION

Project: Former Conoco Store 40019
 Location: RM&R #6279
 Test Well: MW-15
 Test Date: 2/25/09

AQUIFER DATA

Saturated Thickness: 84.65 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-15)

Initial Displacement: 2.3 ft
 Total Well Penetration Depth: 25. ft
 Casing Radius: 0.0833 ft

Static Water Column Height: 9.25 ft
 Screen Length: 15. ft
 Well Radius: 0.375 ft
 Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.0004256 cm/sec

$\nu_0 = 0.2523$ ft

Data Set: A:\6279 MW15 Slug In.aqt

PROJECT INFORMATION

Project: Former Conoco Store 40019
 Location: RM&R #6279
 Test Date: 2/25/09
 Test Well: MW-15

AQUIFER DATA

Saturated Thickness: 84.65 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW-15

X Location: 0. ft
 Y Location: 0. ft

Initial Displacement: 2.3 ft
 Static Water Column Height: 9.25 ft
 Casing Radius: 0.0833 ft
 Well Radius: 0.375 ft
 Well Skin Radius: 0.375 ft
 Screen Length: 15. ft
 Total Well Penetration Depth: 25. ft
 Corrected Casing Radius (Bouwer-Rice Method): 0.2129 ft
 Gravel Pack Porosity: 0.3

No. of Observations: 95

Time (sec)	Observation Data		Displacement (ft)
	Displacement (ft)	Time (sec)	
0.	2.3	49.6	0.248
0.3	0.575	52.7	0.24
0.6	0.99	56.	0.234
0.9	0.343	59.5	0.225
1.2	0.36	63.2	0.221
1.5	0.52	67.1	0.212
1.8	0.282	71.3	0.206
2.1	0.461	75.7	0.2
2.4	0.322	80.4	0.193
2.7	0.387	85.4	0.187
3.	0.347	90.7	0.183
3.4	0.36	96.3	0.177
3.7	0.343	102.2	0.171
4.1	0.351	108.5	0.164
4.5	0.343	115.1	0.16
5.	0.343	122.1	0.156
5.4	0.341	129.6	0.152
5.9	0.292	137.5	0.147
6.5	0.653	145.9	0.143
7.	0.21	154.8	0.141
7.6	0.14	164.2	0.135
8.3	0.052	174.2	0.13
8.9	0.138	184.8	0.126
9.6	0.176	196.	0.122
10.4	0.17	207.9	0.118
11.2	0.151	220.5	0.114
12.	0.202	233.8	0.109
12.9	0.221	247.9	0.105
13.8	0.107	262.8	0.101
14.8	0.219	278.6	0.099
15.9	0.134	295.4	0.095

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
17	0.136	313.2	0.09
18.2	0.111	332	0.088
19.4	0.181	351.9	0.084
20.8	0.09	373	0.08
22.2	0.062	395.4	0.076
23.7	0.134	419.1	0.071
25.2	0.178	444.2	0.067
26.8	0.081	470.8	0.065
28.5	0.273	499	0.061
30.3	0.261	528.9	0.057
32.2	0.25	560.5	0.055
34.3	0.282	594	0.05
36.5	0.215	629.5	0.048
38.8	0.227	667.1	0.044
41.3	0.278	706.9	0.042
43.9	0.265	749.1	0.038
46.7	0.255		

SOLUTION

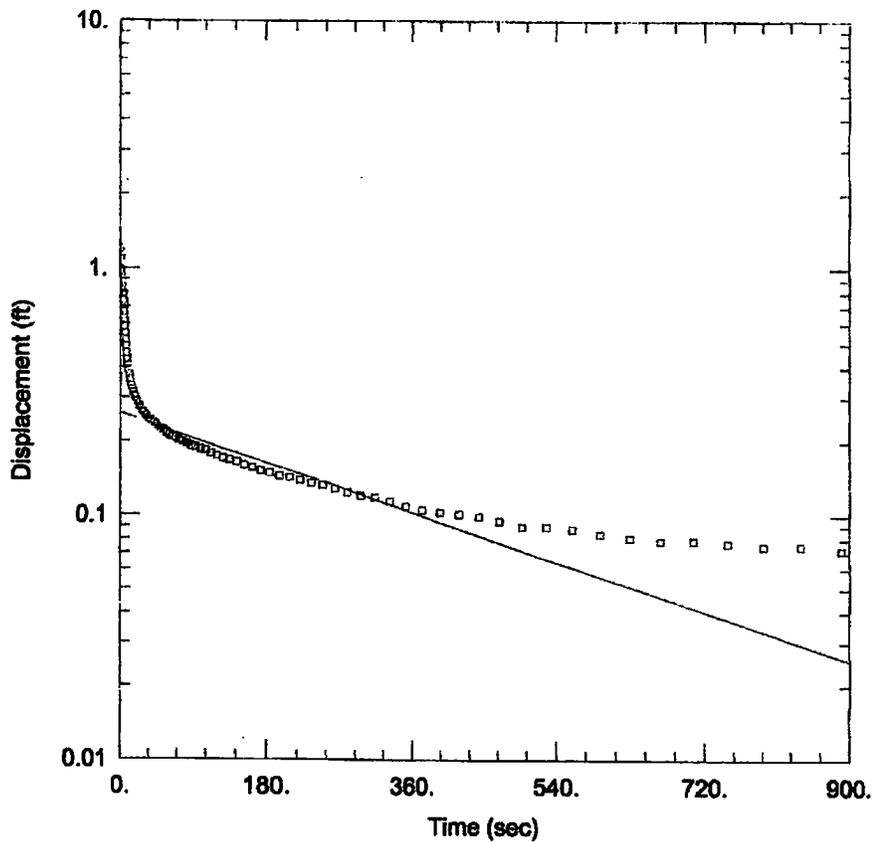
Slug Test
 Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 ln(Re/rw): 2.579

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.0004256	cm/sec
y0	0.2523	ft

$T = K \cdot b = 1.098 \text{ cm}^2/\text{sec}$



MW-15 SLUG OUT

Data Set: A:\6279 MW15 Slug Out.aqt
 Date: 03/11/09

Time: 09:08:08

PROJECT INFORMATION

Project: Former Conoco Store 40019
 Location: RM&R #6279
 Test Well: MW-15
 Test Date: 2/25/09

AQUIFER DATA

Saturated Thickness: 84.65 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-15)

Initial Displacement: 1.199 ft
 Total Well Penetration Depth: 25. ft
 Casing Radius: 0.0833 ft

Static Water Column Height: 9.25 ft
 Screen Length: 15. ft
 Well Radius: 0.375 ft
 Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
 $K = 0.0003071 \text{ cm/sec}$

Solution Method: Bouwer-Rice
 $v_0 = 0.2603 \text{ ft}$

Data Set: A:\6279 MW15 Slug Out.aqt

PROJECT INFORMATION

Project: Former Conoco Store 40019
 Location: RM&R #6279
 Test Date: 2/25/09
 Test Well: MW-15

AQUIFER DATA

Saturated Thickness: 84.65 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW-15

X Location: 0. ft
 Y Location: 0. ft

Initial Displacement: 1.199 ft
 Static Water Column Height: 9.25 ft
 Casing Radius: 0.0833 ft
 Well Radius: 0.375 ft
 Well Skin Radius: 0.375 ft
 Screen Length: 15. ft
 Total Well Penetration Depth: 25. ft
 Corrected Casing Radius (Bouwer-Rice Method): 0.2129 ft
 Gravel Pack Porosity: 0.3

No. of Observations: 95

Time (sec)	Observation Data		Displacement (ft)
	Displacement (ft)	Time (sec)	
0.	1.199	58.6	0.218
0.3	0.68	62.3	0.213
0.6	0.467	66.2	0.209
0.9	0.99	70.4	0.207
1.2	1.085	74.8	0.203
1.5	0.975	79.5	0.2
1.8	0.929	84.5	0.196
2.1	0.874	89.8	0.192
2.5	0.839	95.4	0.19
2.8	0.809	101.3	0.186
3.2	0.79	107.6	0.184
3.6	0.744	114.2	0.179
4.1	0.733	121.2	0.175
4.5	0.666	128.7	0.171
5.	0.609	136.6	0.168
5.6	0.581	145.	0.165
6.1	0.549	153.9	0.16
6.7	0.516	163.3	0.156
7.4	0.484	173.3	0.152
8.	0.456	183.9	0.149
8.7	0.429	195.1	0.145
9.5	0.408	207.	0.143
10.3	0.389	219.6	0.139
11.1	0.372	232.9	0.135
12.	0.357	247.	0.133
12.9	0.344	261.9	0.128
13.9	0.334	277.7	0.124
15.	0.323	294.5	0.12
16.1	0.315	312.3	0.118
17.3	0.306	331.1	0.114
18.5	0.3	351.	0.109

<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
19.9	0.292	372.1	0.105
21.3	0.287	394.5	0.103
22.8	0.279	418.2	0.101
24.3	0.275	443.3	0.099
25.9	0.268	469.9	0.095
27.6	0.264	498.1	0.09
29.4	0.26	528.	0.09
31.3	0.256	559.6	0.088
33.4	0.252	593.1	0.084
35.6	0.247	628.6	0.081
37.9	0.243	666.2	0.079
40.4	0.239	706.	0.077
43.	0.237	748.2	0.077
45.8	0.233	792.9	0.075
48.7	0.228	840.3	0.075
51.8	0.224	890.5	0.072
55.1	0.222		

SOLUTION

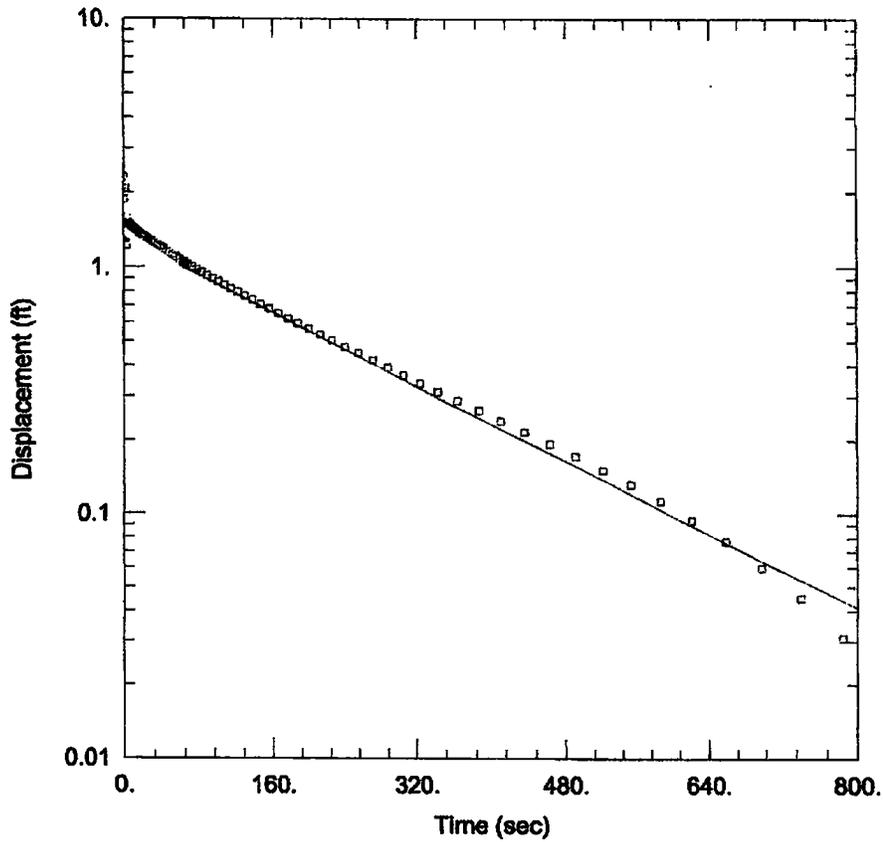
Slug Test
 Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 ln(Re/rw): 2.579

VISUAL ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	0.0003071	cm/sec
y0	0.2603	ft

$T = K \cdot b = 0.7924 \text{ cm}^2/\text{sec}$



DW-11 SLUG IN

Data Set: A:\6279 DW11 Slug In.aqt
 Date: 03/11/09

Time: 07:52:56

PROJECT INFORMATION

Project: Former Conoco Store 40019
 Location: RM&R #6279
 Test Well: DW-11
 Test Date: 2/25/09

AQUIFER DATA

Saturated Thickness: 83.89 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (DW-11)

Initial Displacement: 2.293 ft
 Total Well Penetration Depth: 55. ft
 Casing Radius: 0.0833 ft

Static Water Column Height: 38.89 ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
 K = 0.0007352 cm/sec

Solution Method: Bouwer-Rice
 y0 = 1.307 ft

Data Set: A:\6279 DW11 Slug In.aqt

PROJECT INFORMATION

Project: Former Conoco Store 40019
 Location: RM&R #6279
 Test Date: 2/25/09
 Test Well: DW-11

AQUIFER DATA

Saturated Thickness: 83.89 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: DW-11

X Location: 0. ft
 Y Location: 0. ft

Initial Displacement: 2.293 ft
 Static Water Column Height: 38.89 ft
 Casing Radius: 0.0833 ft
 Well Radius: 0.25 ft
 Well Skin Radius: 0.25 ft
 Screen Length: 5. ft
 Total Well Penetration Depth: 55. ft
 Corrected Casing Radius (Bouwer-Rice Method): 0.1479 ft
 Gravel Pack Porosity: 0.3

No. of Observations: 75

Observation Data			
Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	2.293	88.	0.926
0.6	1.857	93.9	0.899
1.3	1.988	100.2	0.874
2.1	2.064	106.8	0.846
2.9	1.219	113.8	0.819
3.7	1.569	121.3	0.791
4.6	1.497	129.2	0.764
5.5	1.497	137.6	0.736
6.5	1.483	146.5	0.707
7.6	1.47	155.9	0.679
8.7	1.455	165.9	0.65
9.9	1.438	176.5	0.62
11.1	1.424	187.7	0.592
12.5	1.411	199.6	0.563
13.9	1.396	212.2	0.533
15.4	1.379	225.5	0.506
16.9	1.365	239.6	0.476
18.5	1.352	254.5	0.449
20.2	1.337	270.3	0.421
22.	1.32	287.1	0.394
23.9	1.308	304.9	0.366
26.	1.291	323.7	0.339
28.2	1.272	343.6	0.313
30.5	1.255	364.7	0.288
33.	1.236	387.1	0.263
35.6	1.219	410.8	0.239
38.4	1.2	435.9	0.216
41.3	1.181	462.5	0.193
44.4	1.164	490.7	0.172
47.7	1.143	520.6	0.151
51.2	1.122	552.2	0.132

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
54.9	1.099	585.7	0.113
58.8	1.074	621.2	0.094
63.	1.051	658.8	0.077
67.4	1.025	698.6	0.06
72.1	1.002	740.8	0.045
77.1	0.977	785.5	0.031
82.4	0.952		

SOLUTION

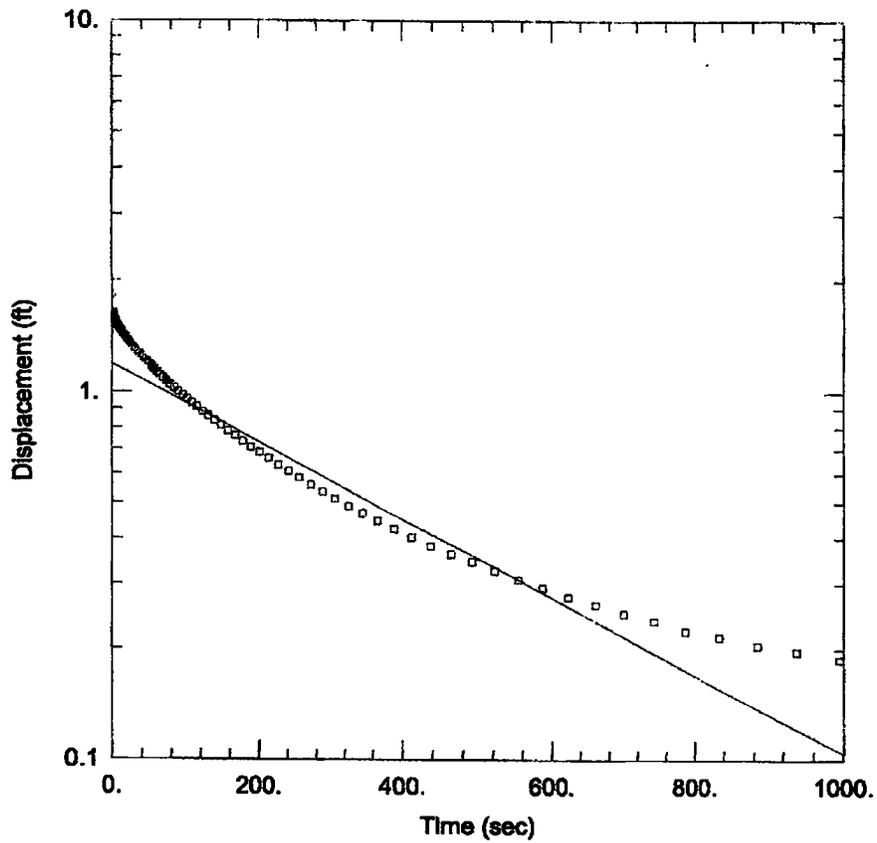
Slug Test
 Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 ln(Re/rw): 2.554

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.0007352	cm/sec
y0	1.307	ft

$T = K \cdot b = 1.88 \text{ cm}^2/\text{sec}$



DW-11 SLUG OUT

Data Set: A:\6279 DW11 Slug Out.aqt
 Date: 03/11/09

Time: 08:05:09

PROJECT INFORMATION

Project: Former Conoco Store 40019
 Location: RM&R #6279
 Test Well: DW-11
 Test Date: 2/25/09

AQUIFER DATA

Saturated Thickness: 83.89 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (DW-11)

Initial Displacement: 1.834 ft
 Total Well Penetration Depth: 55. ft
 Casing Radius: 0.0833 ft

Static Water Column Height: 38.89 ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
 K = 0.0004152 cm/sec

Solution Method: Bower-Rice
 v0 = 1.193 ft

Data Set: A:\6279 DW11 Slug Out.aqt

PROJECT INFORMATION

Project: Former Conoco Store 40019
 Location: RM&R #6279
 Test Date: 2/25/09
 Test Well: DW-11

AQUIFER DATA

Saturated Thickness: 83.89 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: DW-11

X Location: 0. ft
 Y Location: 0. ft

Initial Displacement: 1.834 ft
 Static Water Column Height: 38.89 ft
 Casing Radius: 0.0833 ft
 Well Radius: 0.25 ft
 Well Skin Radius: 0.25 ft
 Screen Length: 5. ft
 Total Well Penetration Depth: 55. ft
 Corrected Casing Radius (Bouwer-Rice Method): 0.1479 ft
 Gravel Pack Porosity: 0.3

No. of Observations: 81

Observation Data			
Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	1.834	95.2	0.98
0.6	1.617	101.5	0.959
1.3	1.634	108.1	0.933
1.9	1.617	115.1	0.91
2.6	1.603	122.6	0.884
3.4	1.579	130.5	0.861
4.2	1.575	138.9	0.836
5.	1.55	147.8	0.813
5.9	1.535	157.2	0.785
6.8	1.522	167.2	0.762
7.8	1.51	177.8	0.735
8.9	1.497	189.	0.709
10.	1.484	200.9	0.686
11.2	1.47	213.5	0.661
12.4	1.459	226.8	0.635
13.8	1.444	240.9	0.61
15.2	1.43	255.8	0.586
16.7	1.417	271.6	0.559
18.2	1.404	288.4	0.536
19.8	1.39	306.2	0.512
21.5	1.375	325.	0.489
23.3	1.362	344.9	0.468
25.2	1.347	366.	0.447
27.3	1.33	388.4	0.425
29.5	1.313	412.1	0.402
31.8	1.297	437.2	0.381
34.3	1.282	463.8	0.362
36.9	1.265	492.	0.345
39.7	1.248	521.9	0.326
42.6	1.229	553.5	0.309
45.7	1.21	587.	0.294

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
49	1.191	622.5	0.277
52.5	1.172	660.1	0.264
56.2	1.153	699.9	0.25
60.1	1.132	742.1	0.239
64.3	1.111	786.8	0.224
68.7	1.092	834.2	0.216
73.4	1.07	884.4	0.205
78.4	1.049	937.5	0.197
83.7	1.026	993.8	0.188
89.3	1.003		

SOLUTION

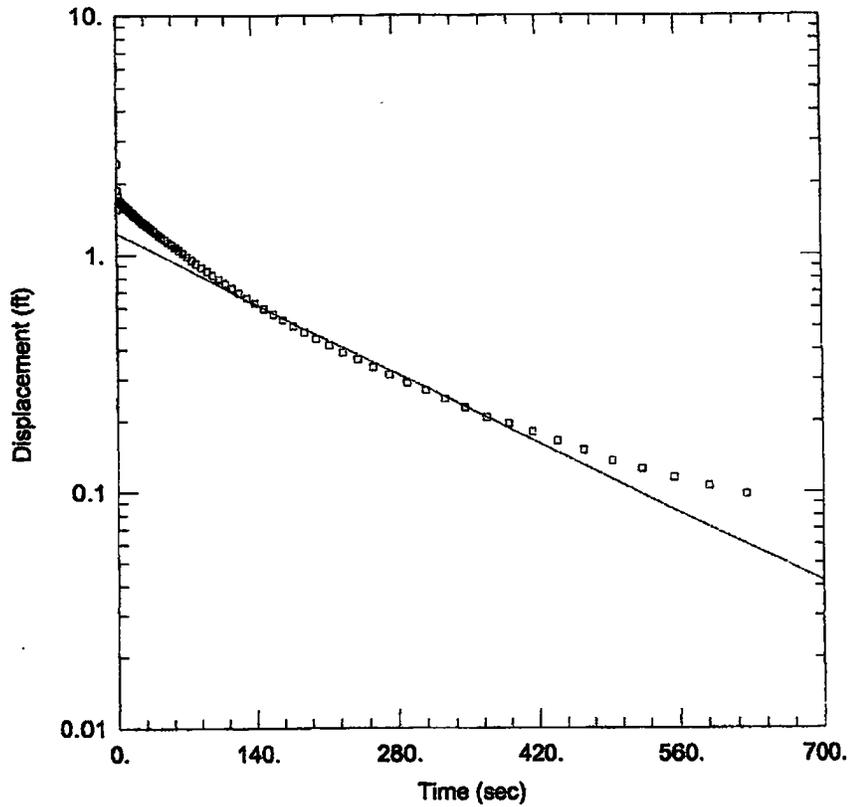
Slug Test
 Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 ln(Re/rw): 2.554

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.0004152	cm/sec
y0	1.193	ft

$T = K \cdot b = 1.062 \text{ cm}^2/\text{sec}$



DW-12 SLUG IN	
Data Set: <u>A:\6279 DW12 Slug In.aqt</u>	Time: <u>07:38:24</u>
Date: <u>03/13/09</u>	
PROJECT INFORMATION	
Project: <u>Former Conoco Store 40019</u>	
Location: <u>RM&R #6279</u>	
Test Well: <u>DW-12</u>	
Test Date: <u>2/25/09</u>	
AQUIFER DATA	
Saturated Thickness: <u>83.55 ft</u>	Anisotropy Ratio (Kz/Kr): <u>1.</u>
WELL DATA (DW-12)	
Initial Displacement: <u>2.419 ft</u>	Static Water Column Height: <u>83.55 ft</u>
Total Well Penetration Depth: <u>100. ft</u>	Screen Length: <u>5. ft</u>
Casing Radius: <u>0.0833 ft</u>	Well Radius: <u>0.25 ft</u>
	Gravel Pack Porosity: <u>0.3</u>
SOLUTION	
Aquifer Model: <u>Unconfined</u>	Solution Method: <u>Bower-Rice</u>
K = <u>0.001208 cm/sec</u>	y0 = <u>1.234 ft</u>

Data Set: A:\6279 DW12 Slug In.aqt

PROJECT INFORMATION

Project: Former Conoco Store 40019
 Location: RM&R #6279
 Test Date: 2/25/09
 Test Well: DW-12

AQUIFER DATA

Saturated Thickness: 83.55 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: DW-12

X Location: 0. ft
 Y Location: 0. ft

Initial Displacement: 2.419 ft
 Static Water Column Height: 83.55 ft
 Casing Radius: 0.0833 ft
 Well Radius: 0.25 ft
 Well Skin Radius: 0.25 ft
 Screen Length: 5. ft
 Total Well Penetration Depth: 100. ft
 Corrected Casing Radius (Bouwer-Rice Method): 0.1479 ft
 Gravel Pack Porosity: 0.3

No. of Observations: 78

Observation Data			
Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0	2.419	62.6	1.046
0.5	2.417	66.8	1.016
0.9	1.874	71.2	0.984
1.4	1.562	75.9	0.952
2.	1.762	80.9	0.921
2.5	1.697	86.2	0.889
3.1	1.697	91.8	0.857
3.8	1.682	97.7	0.823
4.4	1.672	104.	0.791
5.1	1.657	110.6	0.759
5.9	1.645	117.6	0.728
6.7	1.632	125.1	0.693
7.5	1.619	133.	0.661
8.4	1.604	141.4	0.629
9.3	1.592	150.3	0.595
10.3	1.575	159.7	0.565
11.4	1.56	169.7	0.534
12.5	1.546	180.3	0.503
13.7	1.527	191.5	0.474
14.9	1.505	203.4	0.444
16.3	1.495	216.	0.416
17.7	1.476	229.3	0.388
19.2	1.457	243.4	0.363
20.7	1.438	258.3	0.337
22.3	1.419	274.1	0.314
24.	1.398	290.9	0.29
25.8	1.379	308.7	0.269
27.7	1.36	327.5	0.248
29.8	1.337	347.4	0.228
32.	1.312	368.5	0.207
34.3	1.288	390.9	0.195

<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
36.8	1.265	414.6	0.18
39.4	1.238	439.7	0.165
42.2	1.214	466.3	0.15
45.1	1.187	494.5	0.135
48.2	1.162	524.4	0.125
51.5	1.132	556.	0.115
55.	1.105	589.5	0.106
58.7	1.075	625.	0.098

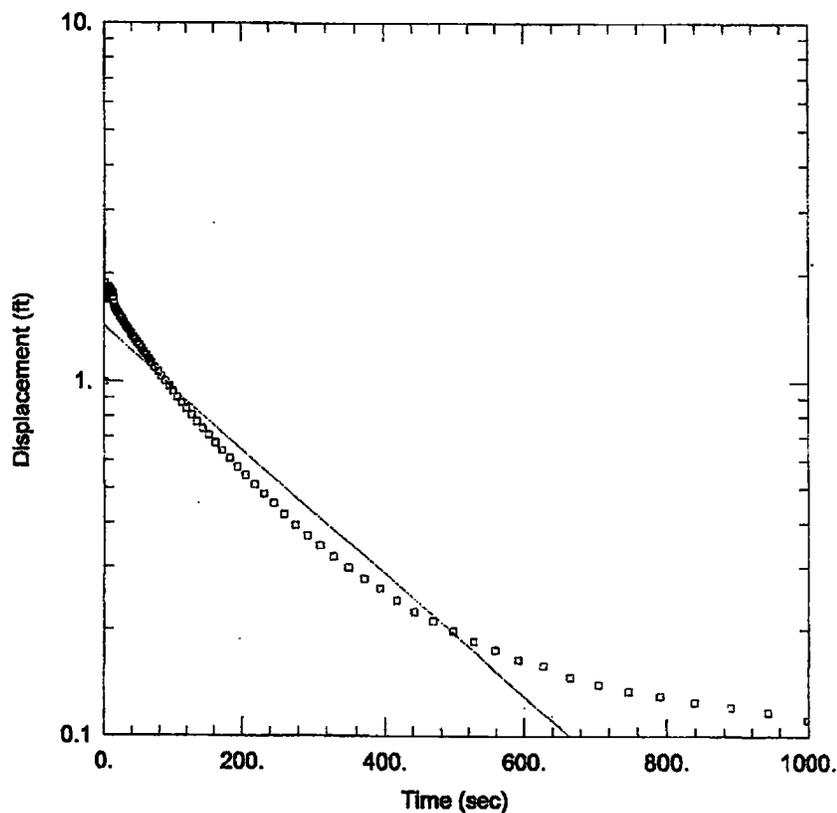
SOLUTION

Slug Test
 Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 ln(Ra/rw): 3.751

VISUAL ESTIMATION RESULTSEstimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	0.001208	cm/sec
y0	1.234	ft

$$T = K \cdot b = 3.076 \text{ cm}^2/\text{sec}$$



DW-12 SLUG OUT

Data Set: A:\6279 DW12 Slug Out.aqt

Date: 03/13/09

Time: 07:47:29

PROJECT INFORMATION

Project: Former Conoco Store 40019

Location: RM&R #6279

Test Well: DW-12

Test Date: 2/25/09

AQUIFER DATA

Saturated Thickness: 83.55 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (DW-12)

Initial Displacement: 1.881 ft

Static Water Column Height: 83.55 ft

Total Well Penetration Depth: 100. ft

Screen Length: 5. ft

Casing Radius: 0.0833 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.001001 cm/sec

y0 = 1.431 ft

Data Set: A:\6279 DW12 Slug Out.aqt

PROJECT INFORMATION

Project: Former Conoco Store 40019
 Location: RM&R #6279
 Test Date: 2/25/09
 Test Well: DW-12

AQUIFER DATA

Saturated Thickness: 83.55 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: DW-12

X Location: 0. ft
 Y Location: 0. ft

Initial Displacement: 1.881 ft
 Static Water Column Height: 83.55 ft
 Casing Radius: 0.0833 ft
 Well Radius: 0.25 ft
 Well Skin Radius: 0.25 ft
 Screen Length: 5. ft
 Total Well Penetration Depth: 100. ft
 Corrected Casing Radius (Bower-Rice Method): 0.1479 ft
 Gravel Pack Porosity: 0.3

No. of Observations: 93

Observation Data			
Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	1.881	69.2	1.125
0.3	0.998	73.6	1.095
0.6	1.689	78.3	1.065
0.9	1.877	83.3	1.034
1.3	1.741	88.6	1.004
1.6	1.742	94.2	0.972
2.	1.738	100.1	0.94
2.4	1.727	106.4	0.906
2.9	1.719	113.	0.873
3.3	1.708	120.	0.841
3.8	1.698	127.5	0.807
4.4	1.733	135.4	0.772
4.9	1.828	143.8	0.738
5.5	1.836	152.7	0.707
6.2	1.83	162.1	0.672
6.8	1.823	172.1	0.64
7.5	1.811	182.7	0.608
8.3	1.802	193.9	0.574
9.1	1.792	205.8	0.544
9.9	1.783	218.4	0.512
10.8	1.77	231.7	0.482
11.7	1.764	245.8	0.454
12.7	1.716	260.7	0.422
13.8	1.65	276.5	0.394
14.9	1.61	293.3	0.368
16.1	1.593	311.1	0.345
17.3	1.581	329.9	0.321
18.7	1.564	349.8	0.299
20.1	1.549	370.9	0.278
21.6	1.532	393.3	0.261
23.1	1.515	417.	0.241

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
24.7	1.501	442.1	0.224
26.4	1.482	468.7	0.211
28.2	1.461	496.9	0.198
30.1	1.442	526.8	0.185
32.2	1.422	558.4	0.175
34.4	1.401	591.9	0.164
36.7	1.382	627.4	0.158
39.2	1.359	665.	0.147
41.8	1.336	704.8	0.14
44.6	1.311	747.	0.134
47.5	1.288	791.7	0.13
50.6	1.264	839.1	0.125
53.9	1.237	889.3	0.121
57.4	1.211	942.4	0.117
61.1	1.184	998.7	0.111
65.	1.154		

SOLUTION

Slug Test
 Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 ln(Re/rw): 3.751

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.001001	cm/sec
y0	1.431	ft

$T = K \cdot b = 2.549 \text{ cm}^2/\text{sec}$

Data Set: A:\6279 DW13 Slug In.aqt

PROJECT INFORMATION

Project: Former Conoco Store 40019
 Location: RM&R #6279
 Test Date: 2/25/09
 Test Well: DW-13

AQUIFER DATA

Saturated Thickness: 82.55 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: DW-13

X Location: 0. ft
 Y Location: 0. ft

Initial Displacement: 2.761 ft
 Static Water Column Height: 37.55 ft
 Casing Radius: 0.0833 ft
 Well Radius: 0.25 ft
 Well Skin Radius: 0.25 ft
 Screen Length: 5. ft
 Total Well Penetration Depth: 55. ft
 Corrected Casing Radius (Bouwer-Rice Method): 0.1479 ft
 Gravel Pack Porosity: 0.3

No. of Observations: 75

Observation Data			
Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	2.761	46.6	0.957
0.4	1.481	49.7	0.925
0.7	2.297	53.	0.894
1.1	2.141	56.5	0.86
1.5	1.26	60.2	0.826
2.	1.703	64.1	0.795
2.4	1.671	68.3	0.761
2.9	1.648	72.7	0.727
3.5	1.639	77.4	0.693
4.	1.621	82.4	0.662
4.6	1.606	87.7	0.628
5.3	1.589	93.3	0.595
5.9	1.574	99.2	0.563
6.6	1.557	105.5	0.531
7.4	1.541	112.1	0.5
8.2	1.524	119.1	0.466
9.	1.507	126.6	0.439
9.9	1.488	134.5	0.409
10.8	1.469	142.9	0.382
11.8	1.448	151.8	0.355
12.9	1.429	161.2	0.331
14.	1.408	171.2	0.306
15.2	1.385	181.8	0.285
16.4	1.362	193.	0.262
17.8	1.34	204.9	0.23
19.2	1.317	217.5	0.19
20.7	1.294	230.8	0.163
22.2	1.269	244.9	0.142
23.8	1.243	259.8	0.127
25.5	1.218	275.6	0.114
27.3	1.193	292.4	0.106

<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
29.2	1.165	310.2	0.101
31.3	1.138	329.	0.095
33.5	1.109	348.9	0.089
35.8	1.079	370.	0.083
38.3	1.049	392.4	0.076
40.9	1.02	416.1	0.07
43.7	0.988		

SOLUTION

Slug Test
 Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 ln(Re/rw): 2.559

VISUAL ESTIMATION RESULTS**Estimated Parameters**

<u>Parameter</u>	<u>Estimate</u>	
K	0.001475	cm/sec
y0	1.3	ft

$$T = K \cdot b = 3.712 \text{ cm}^2/\text{sec}$$

Data Set: A:\6279 DW13 Slug Out.aqt

PROJECT INFORMATION

Project: Former Conoco Store 40019
 Location: RM&R #6279
 Test Date: 2/25/09
 Test Well: DW-13

AQUIFER DATA

Saturated Thickness: 82.55 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: DW-13

X Location: 0. ft
 Y Location: 0. ft

Initial Displacement: 2.584 ft
 Static Water Column Height: 37.55 ft
 Casing Radius: 0.0833 ft
 Well Radius: 0.25 ft
 Well Skin Radius: 0.25 ft
 Screen Length: 5. ft
 Total Well Penetration Depth: 55. ft
 Corrected Casing Radius (Bouwer-Rice Method): 0.1479 ft
 Gravel Pack Porosity: 0.3

No. of Observations: 90

Observation Data			
Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	2.584	57.7	1.131
0.3	1.825	61.4	1.106
0.6	1.667	65.3	1.082
0.9	1.659	69.5	1.057
1.2	1.652	73.9	1.03
1.6	1.638	78.6	1.004
1.9	1.646	83.6	0.977
2.3	1.629	88.9	0.945
2.7	1.625	94.5	0.918
3.2	1.61	100.4	0.886
3.6	1.572	106.7	0.856
4.1	1.581	113.3	0.825
4.7	1.557	120.3	0.795
5.2	1.555	127.8	0.762
5.8	1.551	135.7	0.73
6.5	1.544	144.1	0.698
7.1	1.536	153.	0.665
7.8	1.53	162.4	0.633
8.6	1.521	172.4	0.599
9.4	1.515	183.	0.568
10.2	1.508	194.2	0.536
11.1	1.498	206.1	0.502
12.	1.489	218.7	0.471
13.	1.479	232.	0.441
14.1	1.468	246.1	0.411
15.2	1.46	261.	0.384
16.4	1.447	276.8	0.355
17.6	1.437	293.6	0.327
19.	1.426	311.4	0.302
20.4	1.413	330.2	0.279
21.9	1.399	350.1	0.255

<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
23.4	1.386	371.2	0.234
25.	1.374	393.6	0.213
26.7	1.359	417.3	0.196
28.5	1.344	442.4	0.18
30.4	1.329	469.	0.163
32.5	1.312	497.2	0.15
34.7	1.295	527.1	0.137
37.	1.276	558.7	0.129
39.5	1.257	592.2	0.116
42.1	1.238	627.7	0.11
44.9	1.219	665.3	0.101
47.8	1.198	705.1	0.095
50.9	1.177	747.3	0.089
54.2	1.154	792.	0.085

SOLUTION

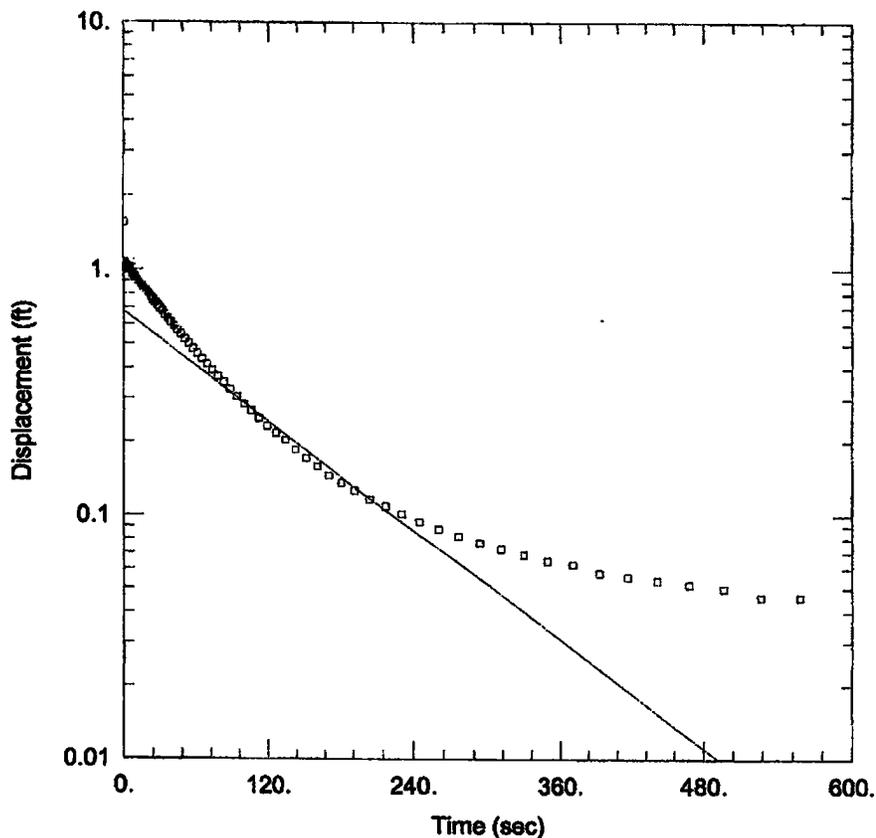
Slug Test
 Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 ln(Re/rw): 2.559

VISUAL ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	0.0008074	cm/sec
y0	1.352	ft

$T = K \cdot b = 2.032 \text{ cm}^2/\text{sec}$



DW-14 SLUG IN

Data Set: A:\6279 DW 14 Slug In.aqt
 Date: 03/11/09

Time: 08:19:16

PROJECT INFORMATION

Project: Former Conoco Store 40019
 Location: RM&R #6279
 Test Well: DW-14
 Test Date: 2/25/09

AQUIFER DATA

Saturated Thickness: 82.56 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (DW-14)

Initial Displacement: 1.551 ft
 Total Well Penetration Depth: 100. ft
 Casing Radius: 0.0833 ft

Static Water Column Height: 82.56 ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.002143 cm/sec

y0 = 0.6764 ft

Data Set: A:\6279 DW 14 Slug In.aqt

PROJECT INFORMATION

Project: Former Conoco Store 40019
 Location: RM&R #6279
 Test Date: 2/25/09
 Test Well: DW-14

AQUIFER DATA

Saturated Thickness: 82.56 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: DW-14

X Location: 0. ft
 Y Location: 0. ft

Initial Displacement: 1.551 ft
 Static Water Column Height: 82.56 ft
 Casing Radius: 0.0833 ft
 Well Radius: 0.25 ft
 Well Skin Radius: 0.25 ft
 Screen Length: 5. ft
 Total Well Penetration Depth: 100. ft
 Corrected Casing Radius (Bouwer-Rice Method): 0.1479 ft
 Gravel Pack Porosity: 0.3

No. of Observations: 80

Time (sec)	Observation Data		Displacement (ft)
	Displacement (ft)	Time (sec)	
0.	1.551	53.	0.503
0.4	1.055	56.5	0.48
0.7	1.072	60.2	0.459
1.1	1.055	64.1	0.436
1.5	1.026	68.3	0.414
2.	1.045	72.7	0.391
2.4	1.032	77.4	0.37
2.9	1.018	82.4	0.349
3.5	1.001	87.7	0.328
4.	1.026	93.3	0.306
4.6	1.024	99.2	0.285
5.3	1.002	105.5	0.268
5.9	1.072	112.1	0.249
6.6	0.965	119.1	0.232
7.4	0.954	126.6	0.217
8.2	0.943	134.5	0.203
9.	0.933	142.9	0.185
9.9	0.92	151.8	0.171
10.8	0.907	161.2	0.158
11.8	0.895	171.2	0.145
12.9	0.88	181.8	0.135
14.	0.865	193.	0.126
15.2	0.852	204.9	0.116
16.4	0.835	217.5	0.109
17.8	0.821	230.8	0.101
19.2	0.804	244.9	0.094
20.7	0.785	259.8	0.088
22.2	0.77	275.6	0.082
23.8	0.751	292.4	0.077
25.5	0.734	310.2	0.073
27.3	0.715	329.	0.069

<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
29.2	0.696	348.9	0.065
31.3	0.677	370.	0.063
33.5	0.656	392.4	0.058
35.8	0.634	416.1	0.056
38.3	0.613	441.2	0.054
40.9	0.592	467.8	0.052
43.7	0.569	496.	0.05
46.6	0.548	525.9	0.046
49.7	0.524	557.5	0.046

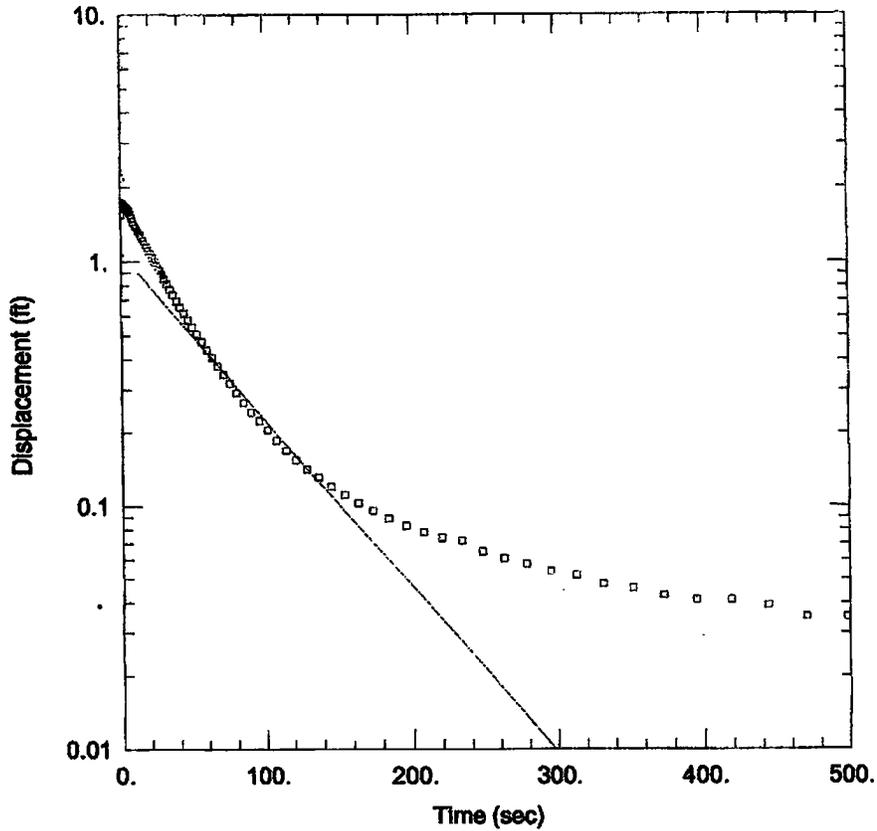
SOLUTION

Slug Test
 Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 ln(Re/rw): 3.751

VISUAL ESTIMATION RESULTS**Estimated Parameters**

<u>Parameter</u>	<u>Estimate</u>	
K	0.002143	cm/sec
y0	0.6764	ft

$$T = K \cdot b = 5.394 \text{ cm}^2/\text{sec}$$



DW-14 SLUG OUT

Data Set: A:\6279 DW14 Slug Out.aqt
 Date: 03/11/09

Time: 08:28:07

PROJECT INFORMATION

Project: Former Conoco Store 40019
 Location: RM&R #6279
 Test Well: DW-14
 Test Date: 2/25/09

AQUIFER DATA

Saturated Thickness: 82.56 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (DW-14)

Initial Displacement: 2.168 ft
 Total Well Penetration Depth: 100. ft
 Casing Radius: 0.0833 ft

Static Water Column Height: 82.56 ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
 K = 0.003934 cm/sec

Solution Method: Bouwer-Rice
 $\gamma_0 =$ 1.083 ft

Data Set: A:\6279 DW14 Slug Out.aqt

PROJECT INFORMATION

Project: Former Conoco Store 40019
 Location: RM&R #6279
 Test Date: 2/25/09
 Test Well: DW-14

AQUIFER DATA

Saturated Thickness: 82.56 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: DW-14

X Location: 0. ft
 Y Location: 0. ft

Initial Displacement: 2.168 ft
 Static Water Column Height: 82.56 ft
 Casing Radius: 0.0833 ft
 Well Radius: 0.25 ft
 Well Skin Radius: 0.25 ft
 Screen Length: 5. ft
 Total Well Penetration Depth: 100. ft
 Corrected Casing Radius (Bouwer-Rice Method): 0.1479 ft
 Gravel Pack Porosity: 0.3

No. of Observations: 86

Time (sec)	Observation Data		Displacement (ft)
	Displacement (ft)	Time (sec)	
0.	2.168	40.7	0.655
0.3	1.544	43.3	0.619
0.6	1.734	46.1	0.581
0.9	1.732	49.	0.543
1.2	1.698	52.1	0.509
1.5	1.711	55.4	0.473
1.8	1.698	58.9	0.437
2.1	1.692	62.6	0.408
2.4	1.888	66.5	0.376
2.8	1.675	70.7	0.347
3.1	1.669	75.1	0.319
3.5	1.658	79.8	0.292
3.9	1.646	84.8	0.266
4.4	1.641	90.1	0.243
4.8	1.628	95.7	0.224
5.3	1.616	101.6	0.205
5.9	1.605	107.9	0.186
6.4	1.58	114.5	0.169
7.	1.542	121.5	0.154
7.7	1.498	129.	0.141
8.3	1.456	136.9	0.131
9.	1.428	145.3	0.12
9.8	1.401	154.2	0.111
10.6	1.372	163.6	0.103
11.4	1.342	173.6	0.096
12.3	1.311	184.2	0.089
13.2	1.281	195.4	0.083
14.2	1.247	207.3	0.078
15.3	1.214	219.9	0.074
16.4	1.182	233.2	0.072
17.6	1.146	247.3	0.065

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
18.8	1.11	262.2	0.061
20.2	1.075	278.	0.058
21.6	1.037	294.8	0.054
23.1	0.999	312.6	0.052
24.6	0.963	331.4	0.048
26.2	0.925	351.3	0.046
27.9	0.889	372.4	0.043
29.7	0.851	394.8	0.041
31.6	0.813	418.5	0.041
33.7	0.773	443.6	0.039
35.9	0.735	470.2	0.035
38.2	0.695	498.4	0.035

SOLUTION

Slug Test
 Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 ln(Re/rw): 3.751

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.003934	cm/sec
y0	1.083	ft

$T = K \cdot b = 9.9 \text{ cm}^2/\text{sec}$